Fire Fighter Fatality Investigation and Prevention Program Evaluation

Volume II: Appendices

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^{*}RTI International is a trade name of Research Triangle Institute.

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A Fire Department Survey Forms

OMB No: 0920-0697 Exp. Date: 10/31/2007

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

Fire Department Survey





Conducted by: RTI International



Sponsored by: National Institute for Occupational Safety and Health (NIOSH) and the Centers for Disease Control and Prevention (CDC)





Dear Fire Chief,

The Fire Department Survey is being conducted for the National Institute for Occupational Safety and Health (NIOSH). In 1998, Congress funded NIOSH to create the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). Through the FFFIPP, NIOSH studies the events that lead to firefighter deaths and makes recommendations to help prevent firefighter deaths and serious injuries.

This survey is part of an evaluation that NIOSH is conducting to learn about the usefulness of the Fire Fighter Fatality Investigation and Prevention Program. The FFFIPP Evaluation will supply information to improve the value of the program. In addition to this survey, the evaluation also includes focus groups with firefighters. These focus groups are organized separately from this survey and will involve individual firefighters from across the country.

Your fire department has been selected as one of approximately 3,000 fire departments from across the country to take part in the survey. The Fire Department Survey should be answered by either the fire chief, the chief safety officer and/or a training officer for your fire department. Questions in the survey ask about department policies and procedures that may potentially have an impact on firefighter safety. The survey should take about 25 minutes to finish. After completing the survey, please send it back to us in the enclosed envelope. There is no cost to your fire department for the postage.

RTI International, a non-profit research organization, is conducting the FFFIPP Evaluation for NIOSH. The answers we get from your fire department will be used to further develop and improve the Fire Fighter Fatality Investigation and Prevention Program. Being a part of this study is voluntary, but your answers are important to us. Please be assured that the answers you provide will be kept private. The results from this survey will be reported in aggregate form so that specific answers cannot be connected to you or your fire department.

If you have any questions about this survey or about the FFFIPP Evaluation in general, please feel free to call me toll-free at 1-800-334-8571, x7722. If you have a question about your rights as a study participant, you can call RTI's Office of Research Protection toll-free at 1-866-214-2043.

Thank you very much for helping with this important study.

Sincerely,

Knistmia Peterson

Kristina Peterson, Ph.D. Project Director, FFFIPP Evaluation



- Use a No. 2 pencil or black pen only
- Make heavy dark marks inside the boxes
- Erase cleanly any answer you wish to change
- If asked to "specify" or "explain" on the survey, please write your response in the space provided.
- If asked to "MARK ALL THAT APPLY," please mark all of the appropriate answers to these questions
- If any question does not apply to you or you are not sure what it means, just leave it blank
- Make no other marks or comments on the survey pages, since they interfere with the automatic reading

SECTION 1. TRAINING AND SAFETY

The following questions ask about your department's policies and procedures for training and safety. It is important to get accurate data on what fire departments are currently doing so that NIOSH can improve the FFFIPP program. Please answer the survey questions as honestly and to the best of your ability as possible. Your answers will be kept private, and will in no way be connected to you or your fire department.

- 1. Does your department have a Safety Officer?
 - $\Box \text{ No} [\rightarrow \text{SKIP TO QUESTION 2}]$
 - □ Yes

1a. What kind of a position does your Safety Officer have within your department?

- □ Full-time paid position
- □ Part-time paid position
- □ Volunteer position
- □ Other (Please specify:_____)
- 1b. Has your Safety Officer been certified by the Fire Department Safety Officers Association (FDSOA) or some other organization?
 - \Box No, not certified
 - □ Yes, certified by FDSOA
 - □ Yes, certified by some other organization (Please specify: _____)
- 2. Does your department have a Training Officer?
 - 🗆 No
 - □ Yes





- 3. Some fire departments use Standard Operating Procedures (SOP) or Standard Operating Guidelines (SOG) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.
 - □ Incident Command Systems
 - □ Maintenance of SCBAs
 - □ Motor vehicle safety
 - □ Participation in a personal physical fitness program
 - □ Participation in regular health screenings for cardiovascular disease (CVD)
 - □ Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)
 - □ Use of Personal Alert Safety System (PASS) devices
 - □ Use of personal protective equipment and protective clothing
 - \Box Use of radio communications
 - □ Other (Please specify:_____
 - Does not apply. Our fire department does not use SOPs/SOGs.
- 4. Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? Please place an "X" in the appropriate box for each topic below.

	No Training	Optional Training	Required Training
a. Fighting structure fires			
b. Driving safety			
c. Incident Command systems			
d. Maintenance of Self-Contained Breathing Apparatuses (SCBAs)			
e. Rapid Intervention Teams (RITs)			
f. Use of personal protective equipment and /or protective clothing			
g. Use of radio communication devices			

- 5. Who provides training to your firefighters? MARK ALL THAT APPLY.
 - □ Our department's Training Officer
 - □ Other officers within our department
 - \Box State fire training agency
 - □ United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD
 - □ Conferences or regional meetings
 - □ Other (Please specify:_____

)



- 6. What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.
 - □ Roadside incidents/Motor Vehicle Accidents (MVA)
 - \Box Scuba diving
 - □ Swift water rescue
 - \Box Wildland fire fighting
 - □ HAZMAT
 - □ Other (Please specify:_____)

SECTION 2. HEALTH AND SAFETY INFORMATION

The following questions ask about your department's policies and procedures for obtaining health and safety information.

7. There are many sources of health and safety information used by fire departments. Please indicate which of the following organizations your department has used to gain health and safety information. Please mark "X" in the box to indicate which mode (e.g., email, magazine, training, etc.) your department has used to get information from each organization.

	Websites/ email messages	Magazines/ newsletters	Conferences/ meetings	Training/ courses	Not Applicable, I do not use information from this organization
National Institute for Occupational Safety and Health (NIOSH)					
Occupational Safety & Health Administration (OSHA)					
Federal Emergency Management Agency (FEMA)					
United States Fire Administration (USFA)					
International Association of Fire Chiefs (IAFC)					
International Association of Firefighters (IAFF)					
National Volunteer Fire Council (NVFC)					
National Fire Protection Association (NFPA)					
Fire Department Safety Officers Association (FDSOA)					
Other (Please specify:					



- 8. How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?
 - □ Not at all familiar
 - □ Not very familiar
 - \Box Somewhat familiar
 - □ Very familiar
- 9. How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?
 - □ Not at all familiar
 - □ Not very familiar
 - □ Somewhat familiar
 - □ Very familiar
- 10. How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.
 - □ NIOSH mailings
 - □ National conference presentations
 - □ State-level conference presentations
 - □ Other firefighters or departments
 - □ At seminars or other training opportunities (not conferences)
 - □ Trade publications (such as Firehouse and Fire Engineering)
 - \Box NIOSH website
 - □ Links from other websites (such as NFPA and Firehouse)
 - □ Media reports newspaper, television, radio
 - \Box Other (Please specify:_
 - □ Does not apply. We have not received information about NIOSH recommendations. [→ SKIP TO QUESTION 12]
- 11. In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.

- □ Made changes to training program
- □ Developed new SOPs/SOGs
- □ Made changes to SOPs/SOGs
- □ Justified current budget/staffing
- □ Made new budget/staffing requests
- □ Justified grant applications
- □ Does not apply. We have not used NIOSH recommendations.
 [→ SKIP TO QUESTION 12]

11a. Please	edescribe	the changes	you made:
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11b.	Can purp	you identify topics of NIOSH recommendations that you have used for training poses? If so, MARK ALL THAT APPLY.
		Traffic hazards
		Personal protective equipment and clothing
		SCBA
		PASS systems
		Incident Command systems
		Radio communications
		Physical fitness and cardiovascular disease (CVD)
		Building code compliance (e.g., warning against the use of wooden trusses)
		Other (Please specify:)
		Does not apply. We have not used NIOSH recommendations for training purposes. [\rightarrow SKIP TO QUESTION 12]

SECTION 3. FITNESS AND WELL-BEING

The following questions ask about your department's policies and procedures for encouraging firefighter fitness and general well-being.

- 12. Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?
 - 🗆 No
 - \Box Yes, it's required
 - □ Yes, it's optional (Please explain:_____
- 13. How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?
 - \Box One time, when they first join the department
 - \Box Less frequently than once a year
 - \Box One time a year
 - \Box More than one time a year
 - Does not apply. Firefighters are not required to receive CVD screenings



)

SECTION 4. DRIVING SAFETY

The following questions ask about your department's policies and procedures for encouraging firefighter fitness and general well-being.

- 14. Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.
 - □ No
 - \Box Yes, they receive training required by the department
 - \Box Yes, they receive training required by the state
 - \Box Yes, they receive optional training
- 15. How often do drivers of your fire department vehicles receive "refresher" driver training to continue being allowed to drive the vehicles?
 - \Box Two or more times a year
 - \Box Once every year
 - \Box Less frequently than once a year
 - Does not apply. Firefighters are not required to receive continuing driver training.
- 16. Does your fire department have a requirement regarding seat belt use in emergency vehicles?
 - 🗆 No
 - □ Yes
- 17. To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?
 - □ Strongly disagree
 - □ Disagree
 - □ Neither agree nor disagree
 - □ Agree
 - \Box Strongly agree
- 18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?

- \Box Never
- \Box Some of the time
- \Box About half the time
- \square Most of the time
- \Box Always

SECTION 5. STRUCTURE FIRES

The following questions ask about your department's experience with as well as policies and procedures for dealing with structure fires.

19. Approximately how many emergency calls did your department respond to in the past 12 months?

Total number of emergency calls



20. Of the emergency calls your department responded to in the past 12 months, about how many of these were structure fires?

Total number of structure fires

- 21. How often is Incident Command established when responding to structure fires?
 - \Box Never
 - □ Rarely
 - \Box About half the time
 - \Box Most of the time
 - \Box Always [\rightarrow SKIP TO QUESTION 23]
- 22. What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.
 - □ Fires are not usually big enough to require an Incident Commander
 - □ Not enough firefighters available at the scene of the fire
 - \Box Other (Please specify:
 - Does not apply. My department always assigns an Incident Commander for structure fires.
- 23. When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.
 - □ Conduct an initial assessment before the other firefighters begin entering the building
 - □ Develop and coordinate the fire attack strategy
 - Develop and initiate a risk management plan
 - Document all assessments, plans and events related to the fire
 - □ Ensure that at least four (4) firefighters are on the scene before entering the building
 - □ Establish a collapse zone around the building
 - Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)
 - □ Identify and implement a communication strategy
 - □ Monitor location of all firefighters at the scene
 - □ Other (Please specify:



- 24. About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?
 - □ Never
 - \Box Some of the time
 - \Box About half the time
 - \square Most of the time
 - \Box Always [\rightarrow SKIP TO QUESTION 26]
- 25. What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.
 - □ Fires are not big enough to require an Incident Commander
 - \Box Not enough firefighters are available at the scene of the fire
 - □ Other (Please specify:
 - □ Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.
- 26. How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?
 - \Box Never [\rightarrow SKIP TO QUESTION 28]
 - \Box Some of the time
 - \Box About half the time
 - \square Most of the time
 - \Box Always [\rightarrow SKIP TO QUESTION 29]
- 27. In what situations are RITs/RICs established? MARK ALL THAT APPLY.
 - \Box When the building has more than one story/floor
 - \Box When there are enough firefighters on hand at the scene of the fire
 - □ Whenever firefighters enter a burning building
 - □ Other (Please specify:_____
- 28. What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.
 - □ The structure fire may not be large enough to need an RIT/RIC
 - □ We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC
 - \Box We don't have enough firefighters available at the scene of the fire
 - □ We don't have enough training or trained personnel at the scene to establish an RIT/RIC
 - \Box We have never established an RIT/RIC
 - □ We use other fire departments in the area for RITs/RICs
 - \Box We use other safety practices and so we don't need them
 - □ Other (Please specify:_____



- 29. Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?
 - 🗆 No
 - □ Yes
- 30. About how often do you think your firefighters wear their PASS devices when fighting structure fires?
 - □ Never
 - \Box Some of the time
 - \Box About half the time
 - \square Most of the time
 - \Box Always [\rightarrow SKIP TO QUESTION 32]
- 31. Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.
 - □ They don't have a PASS device to use
 - \Box Situation doesn't require them
 - □ Firefighters think the devices do not always work reliably
 - □ Firefighters don't think they need them
 - □ Devices go off while firefighters are resting
- 32. Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?
 - \Box No [\rightarrow SKIP TO QUESTION 37]
 - \Box Yes
- 33. Do your firefighters ever have to share facepieces for SCBAs?
 - \Box No [\rightarrow SKIP TO QUESTION 34]
 - \Box Yes
 - 33a. What are the reasons why your fire department does not have personallyfitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.
 - □ Didn't know it was recommended
 - □ Firefighters don't like using the equipment
 - \Box Have never needed them (e.g., we don't do interior attacks)
 - \Box They cost too much, there is not enough money in the budget
 - □ We don't have enough equipment for all of our firefighters
 - \Box Shared systems work fine for our needs
 - □ Other (Please specify:_____



- 34. About how often do you think your firefighters use SCBAs while fighting structure fires?
 - □ Never
 - \Box Some of the time
 - \Box About half the time
 - \Box Most of the time
 - \Box Always [\rightarrow SKIP TO QUESTION 36]
- 35. Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.
 - □ Situation doesn't require them
 - □ Firefighters do not trust that the SCBAs will work reliably
 - □ Firefighters don't think they need them
 - □ Firefighters don't like sharing facepieces with others
 - □ Firefighters are concerned that the SCBA may be or become contaminated
 - □ Wearing SCBAs makes it more difficult to work
 - □ Firefighters don't have SCBAs to use
- 36. How often is routine maintenance performed on your SCBAs?
 - \Box After every time they are used
 - \Box Once a month or more
 - \Box Several times a year
 - \Box Once a year
 - \Box Less than once a year
 - □ Never. Maintenance has not been done on our SCBAs.
 - $\hfill\square$ Does not apply. My department does not have SCBAs.
- 37. How many Chemical/Biological/Radiological/Nuclear (**CBRN**) SCBAs--with the label shown below--are available (or on order) for use by firefighters within your department at this time?

Number available now:	$\left[\rightarrow \text{SKIP TO QUESTION 38} \right]$
Number on order:	$[\rightarrow$ SKIP TO QUESTION 38]

Does not apply. My department does not have CBRN SCBAs.





- 37a. What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.
 - □ CBRN SCBA devices are not needed in our department
 - \Box We didn't know they were available
 - \Box We don't have adequate technical information to purchase them
 - \Box We don't have adequate funding to purchase them
 - □ Other (Please specify:_____
- 38. Does your fire department have Automated External Defibrillators (AEDs)?
 - \Box No [\rightarrow SKIP TO QUESTION 39]

□ Yes

- 38a. At your fire department, where do you have AEDs?
 - \Box At the fire station(s)
 - □ On the emergency vehicles (or apparatus)
 - \Box Both at the fire station(s) and on the vehicles (or apparatus)
- 39. How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?
 - \Box After every time they are used
 - \Box Once a month or more
 - \Box Several times a year
 - \Box Once a year
 - \Box Less frequently than once a year
 - □ Never. Maintenance on our AEDs has not been done.
- 40. About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?
 - □ Never
 - \Box Some of the time
 - \Box About half the time
 - \Box Most of the time
 - □ Always
- 41. Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?
 - □ Never
 - \Box Some of the time
 - \Box About half the time
 - \Box Most of the time
 - \Box Always



42. How would you rate your department's budget in the following areas?

	Not adequate	Adequate	More than adequate
a. Equipment			
b. Training			
c. Personnel			

SECTION 6. EDUCATIONAL MATERIAL

The following questions ask about your policies and procedures for providing educational material to firefighters and others within your department. In addition, there are a number of questions asking about familiarity and satisfaction with the educational materials provided by NIOSH and the FFFIPP.

- 43. How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.
 - \Box Never [\rightarrow SKIP TO QUESTION 53]
 - \Box One or two times per year
 - \Box Several times per year
 - \Box Once a month or more
- 44. How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.
 - □ By mail
 - \Box On the Internet
 - □ From colleagues in other departments
 - \Box At conferences or other meetings
- 45. Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?
 - 🗆 No
 - □ Yes



46. Which parts of the NIOSH reports do you usually read? MARK ALL THAT APPLY.

- □ Summary
- □ Investigation Results
- \Box Discussion
- \Box Recommendation
- 47. Overall, how would you rate the amount of detail in the NIOSH reports?
 - □ Too little detail
 - □ About the right amount of detail
 - \Box Too much detail

48. Which parts of the NIOSH reports do you think should be changed in length?

	Eliminate entirely	Make shorter	Don't change the length	Make longer
a. Summary				
b. Investigation results				
c. Discussion				
d. Recommendation				

49. Do you have any other suggestions for how the NIOSH reports could be improved?

- 50. Does the fire department disseminate the information it receives from NIOSH to the firefighters?
 - \Box No [\rightarrow SKIP TO QUESTION 51]

□ Yes



50a. How is this information disseminated to firefighters? MARK ALL THAT APPLY.

- □ Regular staff meetings
- □ Training sessions
- □ Provide copies of NIOSH reports to firefighters
- □ Provide copies of NIOSH report summaries to firefighters
- □ Provide summaries prepared by department to firefighters
- \Box Postings on bulletin boards
- □ Post report on the department website
- □ Send message to firefighters by email
- □ Other (Please specify:_____
- 51. The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?
 - 🗆 No
 - □ Yes
- 52. NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
a. Recommendations are practical					
b. Recommendations are easy to understand					
c. Recommendations are specific and concrete					

- 53. What other NIOSH materials have you seen? MARK ALL THAT APPLY.
 - □ Pocket guide to chemical hazards
 - □ Respirator maintenance program guide
 - □ CDs of firefighter program materials
 - \Box Alerts
 - □ Hazard IDs
 - □ Workplace Solutions
 - □ Other (Please specify:____
 - \Box None. I have not seen any NIOSH materials. [\rightarrow SKIP TO QUESTION 54]



)

53a. How satisfied or dissatisfied are you with these NIOSH materials?

- \Box Very dissatisfied
- □ Dissatisfied
- \Box Neither satisfied nor dissatisfied
- □ Satisfied
- \Box Very satisfied

54. Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?

- 🗆 No
- \Box Yes, in the last year
- \Box Yes, longer than one year ago
- 55. In which of these ways would you most prefer to receive information about NIOSH recommendations? MARK YOUR <u>THREE</u> (3) FAVORITES.
 - □ Cable television programming
 - □ CD/DVD
 - □ Conference presentations or meetings
 - 🗆 Email
 - □ Fire Fighter Fatality Investigation Reports
 - □ NIOSH Website
 - □ One-page Fact Sheets
 - □ Pocket Guides
 - \Box Posters
 - □ Summary Reports
 - □ Training session/class
 - □ Other (Please specify:_____
- 56. What could NIOSH do to improve the way the recommendations are communicated to fire departments?



SECTION 7. YOUR DEPARTMENT INFORMATION

The following questions ask about your department. These questions will help us understand your survey responses as they relate to the size of your department.

57. How many career and volunteer firefighters currently work at your fire department? (Please count only those who are involved in fire suppression)

Full-time (career) uniformed firefighters

Part-time (career) uniformed firefighters

Part-time (on-call or volunteer) firefighters

58. How many fire stations do you currently have in your fire department?

Number of fire stations:

59. What type of jurisdiction does your fire department serve?

- □ Rural (population density is **less** than 825 persons per square mile)
- □ Urban (population density is **more** than 825 persons per square mile)
- 60. What is the size of the population your fire department serves?
 - □ Small (protecting a population of less than 5,000)
 - □ Medium (protecting a population of 5,000 to 49,999)
 - □ Large (protecting a population of 50,000 or more)
- 61. During the past 5 years, has your department experienced a firefighter fatality?
 - 🗆 No
 - □ Yes, due to a cardiovascular event (e.g., heart attack, heart disease, stroke, etc.)
 - □ Yes, due to a vehicle accident while responding to or returning from a call
 - \Box Yes, due to a traumatic injury or accident on the fire ground
 - □ Yes, due to some other reason (please specify: _____)
- 62. Who completed this survey?
 - □ Fire Chief
 - □ Safety officer
 - □ Training officer
 - □ Other (Please specify:_

Thank you for taking the time to answer this survey. Please return this survey to RTI in the provided envelope.



Exhibit A-2. Lead Letter



Fire Chief [NAME OF FIRE DEPARTMENT] [MAILING STREET ADDRESS] [CITY], [STATE] [ZIP]

February 2006

Dear Fire Chief:

In 1998, the U.S. Congress directed the National Institute for Occupational Safety and Health (NIOSH) to investigate firefighter deaths and serious injuries. In response, NIOSH started the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). NIOSH uses the FFFIPP to study the events that lead to firefighter deaths. NIOSH then issues recommendations to help reduce firefighter deaths and serious injuries.

NIOSH is asking for your help to evaluate this program. Your fire department was chosen at random as one of about 3,000 fire departments from across the country to take part in the study. Some departments have also been chosen deliberately. These departments have been selected based on their size and whether they have had a FFFIPP investigation.

NIOSH and the Centers for Disease Control and Prevention (CDC) have asked RTI International to conduct this important research. RTI is a non-profit research organization based in North Carolina.

In a few days, you will receive the Fire Department Survey by mail. It should take about 25 minutes to finish the survey. Please send your completed survey back to RTI in the return envelope provided with the survey.

The answers we get from you will be used to improve the Fire Fighter Fatality Investigation and Prevention Program. Your response is voluntary, but your answers are important to us. Your answers will be kept private and will not be connected to you or your fire department in our reports.

As a token of our thanks for taking part in the Fire Department Survey, we will send you the FFFIPP CD-ROM. The CD contains all FFFIPP reports to date and the NIOSH Pocket Guide to Chemical Hazards.

We are enclosing a brochure to give you more information about this important research. If you have any more questions about the FFFIPP Evaluation you can call Kristina Peterson, RTI Project Director. Her toll-free number is 1-800-334-8571, x7722. If you have a question about your rights as a study participant, you can call RTI's Office of Research Protection toll -free at 1-866-214-2043. You can also call Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533-8222.

If you need help as a result of thinking about these issues, you may contact the National Suicide Prevention Lifeline at 1-800-273-TALK (8255).

Supported by:

International Association of Fire Chiefs (IAFC)

Fire Department Safety Officers Association (FDSOA)

National Volunteer Fire Council (NVFC) NIOSH has more information about the Fire Fighter Fatality Investigation and Prevention Program on the Internet. You can visit <u>http://www.cdc.gov/niosh/firehome.html</u>.

We are dedicated to helping reduce firefighter deaths and serious injuries. Thank you very much for your help.

Sincerely,

Hand

John Howard, M.D. Director National Institute for Occupational Safety and Health Centers for Disease Control and Prevention

Enclosure: FFFIPP Evaluation Brochure





QUESTIONS AND ANSWERS ABOUT THE FFFIPP EVALUATION

Your fire department has been chosen to take part in the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation. In this brochure, we answer many of the questions you may have about the evaluation.

What is the FFFIPP?

The Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) is conducted by the National Institute for Occupational Safety and Health (NIOSH). This program examines fire fighter deaths and serious injuries. NIOSH then provides recommendations that may prevent similar deaths and injuries from happening again.

The goals of the program are to: 1. Learn about the events that lead to fire fighter deaths; 2. Think of ideas to keep deaths and injuries from occurring again, and 3. Share these strategies with the fire service.

What Is the FFFIPP Evaluation?

The FFFIPP Evaluation will supply information to improve the value of the program. The information will come from this survey and from focus groups of active firefighters.

The Fire Department Survey will be sent to fire department chiefs. It will ask about the training and safety procedures at the fire department. It will also ask how the FFFIPP reports are used by the department.

How Will This Evaluation Help My Department?

Taking part in this study gives NIOSH the chance to learn what information is useful to your fire department. NIOSH will use that knowledge in the Fire Fighter Fatality

Investigation and Prevention Program to better meet your needs.

Who is Doing this Evaluation?

This study is being done by the National Institute for Occupational Safety and Health. NIOSH is part of the Centers for Disease Control and Prevention (CDC) in the U.S. Department of Health and Human Services. NIOSH provides research, products and services to prevent work-related illness, injuries, and death. NIOSH and CDC have asked RTI International (RTI) to conduct the study.

What Is RTI?

RTI is a non-profit research organization located in Research Triangle Park, NC. RTI is committed to improving the human condition through research. RTI is closely associated with Duke University, the University of North Carolina at Chapel Hill, and North Carolina State University. RTI does research for government and industrial clients.

How Did You Select My Fire Department?

Most fire departments were selected from a list of all fire departments in the country. Some departments were chosen at random. Other fire departments were chosen on purpose based on their size and whether they have had a FFFIPP investigation. About 3,000 fire departments will be asked to answer the Fire Department Survey.

What Does the Evaluation Involve?

The Fire Department Survey will be sent by mail to the fire chief of the department. The fire chief or another informed person will answer this survey. The finished survey will be mailed back to RTI in an envelope that will be included with the survey.

Are There Any Risks?

There are no risks in taking part in the study.

What Will My Department Get For Participating In The Survey?

To show our thanks to you for taking part in the Fire Department Survey, we will send your department the FFFIPP CD-ROM and the Pocket Guide to Chemical Hazards. The CD-ROM includes all of the FFFIPP reports that have been published.

How Long Will It Take?

The Fire Department Survey takes about 25 minutes to complete.

How are Surveys Mailed Back to RTI International?

All surveys will be sent back to RTI in envelopes that will be given to you. There is no cost to the fire department. Mailing instructions and envelopes will be included with the surveys.

Am I Required to Participate?

No, your participation is voluntary. You are an important part in this research study, so we hope you participate. You have the chance to give information to NIOSH about the Fire Fighter Fatality Investigation and Prevention Program. What you tell us will represent thousands of fire departments in the United States.

What About Confidentiality?

No identifying facts about you, your fire department, or your co-workers will be seen by anyone outside of the research team. We do not use names in our results. The answers we

collect from you will be combined with answers from other fire departments.

Where Do I Get More Information?

Information about FFFIPP is available online at: http://www.cdc.gov/niosh/firehome.html.

If you have other questions about this evaluation, you can call Dr. Kristina Peterson at RTI. Her toll-free number is 1-800-334-8571, x7722. For questions about how to send back your surveys, you can call Giselle Santiago, also at RTI. Her toll-free number is 1-800-334-8571, x7702.

If you have a question about your rights as a study participant, you can also call RTI's Office of Research Protection toll-free at 1-866-214-2043. You may also contact Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533-8222.

If you need help as a result of thinking about these issues, you may contact the National Suicide Prevention Lifeline at 1-800-273-TALK (8255).

QUESTIONS AND ANSWERS ABOUT THE

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation



Conducted by: RTI International

Sponsored by: National Institute for Occupational Safety and Health (NIOSH) and Centers for Disease Control and Prevention (CDC)



ANNOUNCEMENT: Fire Department Survey

NIOSH Launches National Survey of U.S. Fire Departments

This Spring, the National Institute for Occupational Safety and Health (NIOSH) is conducting a survey to help evaluate its Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). The purpose of the evaluation is to understand how effective the program has been and what can be improved to meet the needs of the fire service.

FFFIPP is an important firefighter safety program conducted by NIOSH. In 1998, Congress funded NIOSH to create FFFIPP to study the events that lead to firefighter deaths and make recommendations to help prevent death or serious injury. The evaluation will focus on the effects of the safety recommendations and information products which are periodically distributed by NIOSH to the nation's 30,000 fire departments.

The information for this evaluation will come from a survey of fire department officers (the Fire Department Survey). In addition to this survey, the evaluation also includes focus groups with fire fighters; these focus groups are organized separately from the survey and will involve individual fire fighters from across the country. NIOSH has contracted with RTI International (a non-profit research organization) to conduct the evaluation of the FFFIPP.

Fire Department Survey

The Fire Department Survey is being mailed this Spring to 3,000 fire department chiefs across the country. Included among these fire departments will be the 215 fire departments that have had a previous firefighter fatality investigation (as of December 31, 2003) and the nation's 10 largest fire departments. Additional fire departments will be randomly selected to be representative the fire service nationally.

The chiefs of the fire departments selected to participate in the survey will first receive a letter from NIOSH that explains the purpose of the survey and requests their cooperation. About a week later, the chiefs will receive a copy of the questionnaire in the mail along with a cover letter from NIOSH and a postage-paid return envelope for returning the completed questionnaire. As a token of appreciation for participating in the survey, the selected fire departments are also receiving a CD-ROM that contains all FFFIPP Reports and the NIOSH Pocket Guide to Chemical Hazards.

Being a part of this study is voluntary, but all answers are important to ensure the accuracy of the evaluation. All responses to the Fire Department Survey will be kept confidential and will only be reported in aggregate form so that specific answers can not be connected to any particular fire department. The survey is estimated to take approximately 25 minutes to finish.

How can I help?

If your department is selected for the Fire Department Survey, the FDSOA strongly encourages your participation in this study. This information collected will be valuable in helping to improve the impact of the FFFIPP and the information products that they produce. Ultimately this information may help to save the lives of your fellow firefighters.



February 2006

Dear Fire Chief:

A few days ago, you received a letter about the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation. As the letter explained, your fire department was one of 3,000 fire departments across the country chosen to take part in this study. The FFFIPP Evaluation is sponsored by the National Institute for Occupational Safety and Health (NIOSH) and the Centers for Disease Control and Prevention (CDC). NIOSH and CDC have asked RTI International to conduct this research. RTI is a non-profit organization based in North Carolina.

This survey will provide information to help develop and improve the Fire Fighter Fatality Investigation and Prevention Program. The purpose is to help NIOSH better meet your needs.

Enclosed with this letter is the Fire Department Survey. The survey will take about 25 minutes of your time. You may need to consult with other firefighters in your department to complete the survey. Your response is voluntary, but your answers are important in helping us to improve the FFFIPP program. Your answers will be kept private and will not be connected to you or your fire department in our reports.

After you have finished your survey, please mail it back to RTI in the enclosed envelope. You can drop this envelope into any U.S. post office box or office. There is no charge to you to mail back the survey. We are sending you the FFFIPP CD-ROM as a way of saying thanks for your help.

If you have any questions about the FFFIPP Evaluation, you can call Dr. Kristina Peterson, RTI Project Director. Her toll-free number is 1-800-334-8571, x7722. If you have a question about your rights as a study participant, you can call RTI's Office of Research Protection toll-free at 1-866-214-2043. You may also call Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533-8222. If you need help as a result of thinking about these issues, you may contact the National Suicide Prevention Lifeline at 1-800-273-TALK (8255). NIOSH has more information about the Fire Fighter Fatality Investigation and Prevention Program on the Internet. You can visit http://www.cdc.gov/niosh/firehome.html.

We are dedicated to helping reduce firefighter deaths and serious injuries. Thank you very much for your help.

Sincerely,

Hand

John Howard, M.D. Director National Institute for Occupational Safety and Health Centers for Disease Control and Prevention

Enclosures: Fire Department Survey Business reply envelope, addressed to RTI International FFFIPP CD-ROM





Supported by:

International Association of Fire Chiefs (IAFC)

Fire Department Safety Officers Association (FDSOA)

National Volunteer Fire Council (NVFC)

IMPORTANT: Do not discard this sheet. Please refer to this sheet when answering questions 43-56 of the survey.

Below are a few examples of NIOSH reports on firefighter safety issues.



Exhibit A-7. First Reminder Letter



Fire Chief [NAME OF FIRE DEPARTMENT] [MAILING STREET ADDRESS] [CITY], [STATE] [ZIP]

Dear Fire Chief:

Supported by:

International

Association of Fire Chiefs

(IAFC)

Fire Department

Safety Officers

Association

(FDSOA)

National Volunteer Fire

Council

(NVFC)

March 2006

A couple of weeks ago, your fire department received the Fire Department Survey in the mail. The survey asks you for information to help us evaluate the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). The FFFIPP program was started by the National Institute for Occupational Safety and Health (NIOSH) to help prevent firefighter deaths and severe injuries. The FFFIPP Evaluation will help NIOSH assess the impact of the FFFIPP. It will also help NIOSH improve the program to better meet your needs.

If your survey has been completed and sent back to RTI, please accept my sincere thanks. As one of the 3,000 fire departments chosen to answer the Fire Department Survey, your response is very important.

If your survey has <u>not</u> been completed and returned, please do so as soon as possible. Your answers are very important to NIOSH and the Centers for Disease Control and Prevention (CDC). Please mail your completed survey back to RTI in the envelope provided with the survey. NIOSH and CDC have asked RTI International to conduct this research. RTI is a non-profit organization based in North Carolina. There is no charge to your fire department to mail back the survey.

If you did not receive your survey, or if it was misplaced, please call Giselle Santiago toll-free at 1-800-334-8571, x7702. We will get another one in the mail to you today. If you have any other questions about the FFFIPP Evaluation, you can call Dr. Kristina Peterson, RTI Project Director. Her toll-free number is 1-800-334-8571, x7722. If you have a question about your rights as a study participant, you can call RTI's Office of Research Protection toll-free at 1-866-214-2043. You may also call Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533 – 8222.

NIOSH has more information about the Fire Fighter Fatality Investigation and Prevention Program on the Internet. You can visit <u>http://www.cdc.gov/niosh/firehome.html</u>. We are dedicated to helping reduce firefighter deaths and serious injuries. Thank you very much for your help.

Sincerely,

John Howard, M.D. Director National Institute for Occupational Safety and Health Centers for Disease Control and Prevention







Dear Fire Chief:

A few weeks ago, we sent you the Fire Department Survey. This questionnaire can be answered by you or someone knowledgeable about training and safety practices in your fire department. The survey is part of the national evaluation of the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). FFFIPP is operated by the National Institute for Occupational Safety and Health (NIOSH) to help prevent firefighter deaths and severe injuries.

To the best of our knowledge, the survey has not yet been returned. Enclosed, you will find a new copy of the Fire Department Survey. If you have not done so already, please complete the survey and send it back to RTI in the enclosed envelope.

The responses of other fire departments who have already responded to this study have been very helpful. The results of this research are intended to help NIOSH and the Centers for Disease Control and Prevention (CDC) monitor and improve the Fire Fighter Fatality Investigation and Prevention Program.

Your fire department's participation is very important. Taking part in this study gives NIOSH the chance to learn what information is useful to your fire department. It will tell NIOSH what can be done to make the FFFIPP program more useful to your department. NIOSH would like to meet your needs in the best way possible.

If you have any questions about what you need to do to complete the survey, please call Giselle Santiago toll-free at 1-800-334-8571, x7702. If you have any other questions about the FFFIPP Evaluation, you can call Dr. Kristina Peterson, RTI Project Director. Her toll-free number is 1-800-334-8571, x7722. If you have a question about your rights as a study participant, you can call RTI's Office of Research Protection toll-free at 1-866-214-2043. You may also call Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533-8222.

NIOSH has more information about the Fire Fighter Fatality Investigation and Prevention Program on the Internet. You can visit <u>http://www.cdc.gov/niosh/firehome.html</u>.

We are dedicated to helping reduce firefighter death and serious injuries. Thank you very much for your help.

Sincerely,

tank

John Howard, M.D. Director National Institute for Occupational Safety and Health Centers for Disease Control and Prevention

Enclosures: Fire Department Survey Business reply envelope, addressed to RTI International





Supported by:

International Association of Fire Chiefs (IAFC)

Fire Department Safety Officers Association (FDSOA)

National Volunteer Fire Council (NVFC) March 2006

B

Post-Data Collection Methodology and Analysis Tables

B.1 POST-DATA COLLECTION METHODOLOGY

B.1.1 Building the Analysis File

All questionnaire data from responding fire departments were pooled into one analysis file. This file included the sample weights, sample design information, and any variables needed for proper estimation of variance. A codebook of this analysis file was created that displayed weighted and unweighted frequencies and percentages for all variables. The codebook provides information on item nonresponse and sample sizes.

B.1.2 Methodology Used to Create the Sample Weights and Estimates

One final, nonresponse-adjusted sample weight was created for each responding fire department. This weight consists of a product of two factors: the base weight and the nonresponse adjustment. These are defined as follows:

- The **base weight** is the inverse, unconditional probability of selecting the fire department into the sample. This weight accounts for the clustering and stratification used in the sample design. Note that if all selected fire departments respond to the survey, then the sum of the base weight will equal the total number of fire departments on the sample frame, and no nonresponse adjustment would be necessary.
- 2. The **nonresponse adjustment** is an adjustment imposed on the sampling weight of fire department respondents to account for those departments that did not respond to the survey. In general, this adjustment was greater than "1" so that each respondent fire department will account for itself as well as some portion of the nonrespondents in the final estimate.

There are numerous ways of constructing a nonresponse adjustment. We used a response propensity model-based approach described recently in Folsom and Singh (2000). The Folsom and Singh modeling approach is based on a simple generalization of constrained models first suggested by Deville and Sarndal (1992). These models allow the user to impose predetermined constraints on the resulting model-based nonresponse adjustment to minimize the effect that the weight adjustment has on variance. The variance reduction property of the adjustments is another distinct advantage of this approach. The modeling approach has been used in recent years to generate nonresponse adjustments because (1) it has been proven to be a cost-efficient approach for creating nonresponse adjustments and (2) potential bias reduction can be achieved over the commonly used weighting class approach. This increases bias reduction because the adjustment uses more statistically significant main effects and lower-order interactions than a weighting class approach. Also, if the resulting response propensity model contains all main effect and interaction terms for a set of categorical variables, the modeling approach to deriving the weighting adjustments is numerically equivalent to the weighting class approach. Consequently, the modeling approach is a generalization of the weighting class approach.

For the FFFIPP survey response propensity model, we considered those variables that we suspect will be significant predicators of response propensity. The statistical significance of these variables was tested during the model-building process. The statistical significance of lower-order interactions of these variables was also considered.

To illustrate, we will let:

- *i* = indice for fire department
- $\rho_i = \text{unconditional probability of selecting the fire}$ department into the Fire Department sample
- α_i = nonresponse adjustment

The base weight for fire department *i* will equal ρ_i^{-1} and the final weight will equal:

$$W_i = \rho_i^{-1} \cdot \alpha_i$$

The survey weights for the Fire Department Survey are summarized in Exhibit B-1.

After the data were collected, we produced estimates of population percentages. In summary, these were computed as follows. We will let:

- δ_i = a 0/1 indicator identifying those fire departments that belong to some subgroup of interest.
- x_i = response to a particular questionnaire item. Because most of the items on the Fire Department Survey are categorical, this will equal "1" if fire department *i* gives a particular response on a question and "0" otherwise.

Characteristic	Respondent Sample	Minimum Weight	Maximum Weight	Unequal Weighting Effect
Total	1,622	1	61	1.458
High-priority strata				
Total	262	1	6	1.255
Strata				
Previous FFFIPP investigation involving a traumatic injury fatality	83	1	2	1.057
Previous FFFIPP investigation involving a cardiovascular infarction fatality	58	1	2	1.023
Traumatic injury fire fighter fatality without investigation	64	1	4	1.152
Cardiovascular disease fire fighter fatality without investigation	57	2	6	1.074
10 largest fire departments ^a	0		_	_
Remainder strata				
Total	1,360	1	61	1.264
Census region				
Northeast	266	1	61	1.151
South	433	2	41	1.297
Midwest	453	1	41	1.203
West	208	1	55	1.456
Rural/urban				
Rural	823	1	32	1.072
Urban	412	1	36	1.648
Unknown	125	2	61	1.048
Size (defined by population protected)				
Large (at least 50,000 persons)	211	1	9	1.183
Medium (5,000–49,999 persons)	471	3	61	1.123
Small (0–4,999 persons)	678	1	55	1.060
Department type				
All career	271	1	21	1.389
All volunteer	404	2	61	1.247
Combination	685	1	39	1.025

Exhibit B-1. Fire Department Survey: Summary of Sample Weights

^aEight of the 10 largest fire departments are counted in the other high priority strata.
The estimates of means (e.g., percentages) were computed as:

$$\frac{\sum_{i \in \text{Respondents}} w_i \delta_i x_i}{\sum_{i \in \text{Respondents}} w_i \delta_i}$$

B.1.3 Eligibility and Response Rates

Ineligibility was determined using questions on the survey that specifically addressed the eligibility issues. The eligibility rate of those cases of unknown eligibility was assumed to be the same as those for which the eligibility was known. The cases of unknown eligibility were defined as fire departments from which we did not receive a response and that we were unable to contact to inquire about their eligibility. Known eligibility status was defined by the responses that we received from the survey and/or the information we received through ad hoc inquiries with the fire department about their eligibility. The eligibility rates were defined using the following formula:

$$EligibilityRate = \frac{KE + e(UK)}{KE + KI + UK}$$

where

- KE = Known Eligible
- KI = Known Ineligible

$$e = \frac{KE}{KE + KI}$$

The response rates for the survey were calculated based on the recommendations of the American Association for Public Opinion Research (AAPOR) published in its *Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys.* As with the eligibility rate, this formula assumes that a proportion of the cases with unknown eligibility are eligible. The response rate was only calculated for those that were deemed either as known eligible or unknown eligibility. This being a mail survey, we did not have any "noncontacts." The formula for the response rate was defined as follows:

$$RR4 = \frac{(I+P)}{(I+P) + (R+NC+O) + e(UK)}$$
 ,

where

- I = Complete Interview
- P = Partial Interview
- R = Refusal
- NC = Noncontact
- O = Other Nonresponse
- UK = Unknown Eligibility

$$e = \frac{KE}{KE + KI}$$

B.1.4 Editing of Questionnaire Data

All of the questionnaire data from responding fire departments have been edited to ensure every variable has a value for every record on the analysis file. This editing ensures a basic level of consistency between responses on each record when appropriate—for example, the data were edited to reflect the skip patterns present in the questionnaire. Variables resulting from questions that were skipped or intentionally missed were coded with a negative numeric value indicating the reason for item nonresponse. The following special codes were used:

Code	Definition
-5	Bad Data
-6	Multiple Response
-8	Blank (no answer)
-9	Legitimate Skip

B.1.5 Estimation and Variance Estimation

All estimates produced in the final analysis tables were generated with the final, nonresponse-adjusted sample weight. Variances were computed using RTI International's SUDAAN software to properly account for the complex design features of the study, such as stratification and unequal weighting.

Unless otherwise noted, all estimates displayed in analysis tables were computed assuming that any item missing data was missing at random. Thus, percentages were computed only among the records that responded to the corresponding row item in the tables.

B.1.6 Computing Confidence Intervals

Asymmetric confidence intervals are displayed for all percent estimates. These tend to have better coverage properties for percent estimates, particularly for small percentages. These were computed as follows:

Suppose $f(p) = \log(p) - \log(1-p)$ where *p* is the percent estimate.

Then the standard error estimate of f(p) is $s[f(p)] \approx \frac{s(p)}{p(1-p)}$ Suppose

 $L_f = f(p) - t_{\alpha/2} s[f(p)]$ $U_f = f(p) + t_{\alpha/2} s[f(p)]$

Then the confidence interval for p will be:

$$\left(\frac{\exp(L_f)}{1+\exp(L_f)},\frac{\exp(U_f)}{1+\exp(U_f)}\right)$$

B.1.7 Suppression Rule

The suppression rule that was used for all tables is the following:

If any estimate was less than .1 then a ** appears in the table and we included a footnote indicating "**Estimate rounds to zero."

Any estimate with a relative standard error $\left(i.e., \frac{s(\theta)}{\theta}\right)$ that is

greater than .50 or that has a sample size of 30 or less was considered imprecise. In the tables, we displayed a superscripted "+" and a footnote indicating "+Low precision" was displayed. Suppressed estimates were still displayed.

B.1.8 Testing the Significance of Differences

To test the significance of differences in the tables, we used the standard t-test as follows:

Let
$$T = \frac{\theta_1 - \theta_2}{s(\theta_1 - \theta_2)}$$
 where $s(\theta_1 - \theta_2)$ is the design-based standard

error of the difference $\theta_1 - \theta_2$. Then the significance probability associated with a 2-sided test is equal to:

$$\varphi = 2 \cdot \left[1 - P_{t,df}\left(t < |T|\right)\right]$$

If $0 \le \varphi \le .05$ then the difference is deemed significant at the 95% confidence level.

B.2 ANALYSIS TABLES

Tables were generated for the following by-groups. These bygroups defined the columns of the tables:

Exhibit B-2	By Census Region (Northeast, South, Midwest, West)
Exhibit B-3	By Jurisdiction Type (Rural, Urban, Unknown)
Exhibit B-4	By Jurisdiction Size (Large: at least 50,000 persons; Medium: 5,000–50,000 persons; Small: 0–5,000 persons)
Exhibit B-5	By Department Type (All Career, All Volunteer, Combination)
Exhibit B-6	By Fatality and FFFIPP Investigation (Fatality with Investigation, Fatality without Investigation, No Fatality)
Exhibit B-7	By Type of Fatality (Traumatic or Both, Cardiovascular, No Fatality)
parate tables	were generated for column percent estimates

Separate tables were generated for column percent estimates (labeled "a" in each set), the confidence interval associated with the percent estimates (labeled "b" in each set), and the total number of fire departments that responded (labeled "c" in each set).

			Cen	sus Region		
	Question	Total	Northeast	South	Midwest	West
1.	Does your department have a Safety Officer?					
		70.3	72.9 ^[3]	73.3 ^[3]	63.6 ^[1,2,4]	73.5 ^[3]
		29.7	27.1 ^[3]	26.7 ^[3]	36.4 [1,2,4]	26.5 ^[3]
2 es	Does your department have a Training Officer?					
No		88.5	87.0 ^[2]	92.4 ^[1,3,4]	87.6 [2]	82.9 ^[2]
		11.5	13.0 ^[2]	7.6 [1,3,4]	12.4 [2]	17.1 ^[2]
Ses No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.					
	Incident Command Systems	83.7	87.3 [3]	85.7 ^[3]	78.9 ^[1,2]	83.4
	Maintenance of SCBAs	69.7	77.9 ^[2,3,4]	66.3 ^[1]	68.7 ^[1]	66.7 ^[1]
	Motor vehicle safety	78.8	84.8 [3]	80.2 [3]	70.9 ^[1,2,4]	83.4 [3]
	Participation in a personal physical fitness program	11.0	9.8 [4]	10.9 [4]	7.5 [4]	21.9 ^[1,2,3]
	Participation in regular health screenings for cardiovascular disease (CVD)	16.8	27.5 ^[2,3]	9.3 [1,3,4]	15.5 ^[1,2]	21.0 [2]
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	40.4	48.3 ^[2,3]	35.6 ^[1,4]	33.9 ^[1,4]	55.0 ^[2,3]
	Use of Personal Alert Safety System (PASS) devices	75.4	83.5 [2,3]	70.9 [1]	74.6 [1]	74.9
	Use of personal protective equipment and protective clothing	89.1	94.7 [2,3,4]	89.5 ^[1]	85.2 ^[1]	87.8 ^[1]
	Use of radio communications	84.8	91.8 ^[2,3]	85.5 ^[1,3]	78.1 ^[1,2,4]	86.6 [3]
	Other	8.7	12.2 [2,3]	6.7 ^[1]	7.2 [1]	11.7
	Does not apply. Our fire department does not use SOPs/SOGs.	5.0	1.0 [2,3,4,+]	4.6 [1]	7.9 ^[1]	6.1 ^[1]

B-8

		Census Region					
	Question	Total	Northeast	South	Midwest	West	
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.						
4a.	Fighting structure fires						
	No Training	1.1	0.5 [+]	1.5	0.6 [+]	2.6	
	Optional Training	16.7	15.2 [3]	13.2 ^[3]	23.3 [1,2,4]	13.1 ^[3]	
	Required Training	82.8	84.9 ^[3]	85.9 ^[3]	76.9 ^[1,2,4]	85.3 [3]	
4b.	Driving safety						
	No Training	3.9	1.0 [3,4,+]	2.4 [3]	6.6 ^[1,2]	6.9 ^[1]	
	Optional Training	18.6	19.7 ^[4]	16.1 ^[3]	23.7 ^[2,4]	10.9 ^[1,3]	
	Required Training	77.7	79.4 ^[3]	81.7 ^[3]	70.0 ^[1,2,4]	82.3 ^[3]	
4c.	Incident Command systems						
	No Training	2.9	1.2 [3,+]	3.3	4.2 [1]	1.5 [+]	
	Optional Training	27.4	29.6	24.9	31.4 [4]	20.5 [3]	
	Required Training	69.9	69.1	71.8	65.0 ^[4]	78.0 ^[3]	
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)						
	No Training	6.6	4.0 [4]	7.1	5.1 [4]	13.2 ^[1,3]	
	Optional Training	33.6	32.9 [4]	31.9 ^[3]	40.2 [2,4]	23.3 ^[1,3]	
	Required Training	60.3	63.1 ^[3]	61.3	55.0 ^[1,4]	65.0 ^[3]	
4e.	Rapid Intervention Teams (RITs)						
	No Training	28.5	20.7 [2,3]	31.1 ^[1,4]	35.4 [1,4]	19.8 ^[2,3]	
	Optional Training	36.2	52.9 ^[2,3,4]	32.1 ^[1,4]	34.2 [1,4]	21.3 [1,2,3]	
	Required Training	35.5	26.9 ^[2,4]	36.8 [1,4]	30.6 [4]	58.9 ^[1,2,3]	

			Сег	nsus Region		
	Question	Total	Northeast	South	Midwest	West
4f.	Use of personal protective equipment and/or protective clothing					
	No Training	1.5	0.6 [+]	1.9	1.4	1.9 [+]
	Optional Training	9.9	6.9 ^[3]	9.6	14.4 ^[1,4]	4.8 [3]
	Required Training	88.9	93.1 ^[3]	88.7	84.2 [1,4]	93.3 ^[3]
4g.	Use of radio communication devices					
	No Training	2.7	2.0	2.7	3.5	1.9 [+]
	Optional Training	21.4	21.0 [4]	21.3 [4]	26.1 ^[4]	11.0 ^[1,2,3]
	Required Training	76.2	77.1 ^[4]	76.7 [4]	70.4 ^[4]	87.1 ^[1,2,3]
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.					
	Our department's Training Officer	84.9	81.7	87.7	84.8	83.0
	Other officers within our department	82.8	88.5 [2]	75.4 ^[1,3,4]	84.3 [2]	88.9 ^[2]
	State fire training agency	77.4	89.6 [2,3,4]	76.5 ^[1,4]	75.2 [1,4]	63.8 ^[1,2,3]
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	20.9	26.2 [3]	22.3 ^[3]	14.0 ^[1,2,4]	24.7 ^[3]
	Conferences or regional meetings	51.7	55.2 ^[2]	43.4 [1,3,4]	55.3 ^[2]	59.3 ^[2]
	Other	25.2	30.0 [3]	25.6 ^[3]	17.3 ^[1,2,4]	34.4 [3]
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.					
1	Roadside incidents/Motor Vehicle Accidents (MVA)	55.3	67.3 ^[2,3]	48.8 [1,4]	50.0 ^[1,4]	64.6 ^[2,3]
	Scuba diving	7.5	7.6 [4]	7.8 [4]	9.0 [4]	2.7 ^[1,2,3]
	Swift water rescue	11.2	13.3 ^[3]	11.0	8.0 ^[1,4]	15.8 ^[3]
	Wildland fire fighting	47.0	32.3 [2,4]	49.8 [1,3,4]	38.6 [2,4]	85.0 ^[1,2,3]
	HAZMAT	66.7	75.2 ^[2,3]	63.4 ^[1]	61.5 [1,4]	72.7 [3]
1	Other	31.2	42.4 [2,3,4]	29.4 ^[1]	25.1 ^[1]	30.7 [1]

		Census Region				
	Question	Total	Northeast	South	Midwest	West
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?					
	Not at all familiar	8.3	2.9 [2,3,4]	9.1 ^[1]	10.0 [1]	11.7 ^[1]
	Not very familiar	24.3	19.1 ^[3]	23.5	29.0 [1]	24.3
	Somewhat familiar	58.1	63.1 ^[3,4]	59.8	54.8 ^[1]	52.9 ^[1]
	Very familiar	9.3	14.9 [2,3]	7.5 [1]	6.3 ^[1]	11.1
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?					
	Not at all familiar	20.8	14.1 ^[3,4]	19.2	25.3 ^[1]	25.8 ^[1]
	Not very familiar	33.5	32.6	37.2 ^[4]	34.0 [4]	24.0 ^[2,3]
	Somewhat familiar	37.9	43.8 [3]	36.9	35.2 [1]	36.7
	Very familiar	7.8	9.5	6.7 [4]	5.5 [4]	13.4 ^[2,3]
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.					
	NIOSH mailings	67.8	71.0	67.3	66.8	65.6
	National conference presentations	3.6	2.7 ^[4]	4.3	2.5 [4]	6.2 ^[1,3]
	State-level conference presentations	11.5	11.1	11.0	11.3	13.5
	Other firefighters or departments	22.9	28.4 [2,3]	20.8 [1]	20.0 [1]	25.6
	At seminars or other training opportunities (not conferences)	16.4	23.1 ^[2,3]	13.8 ^[1]	13.6 ^[1]	18.1
	Trade publications (such as Firehouse and Fire Engineering)	47.2	49.6	46.5	44.3	51.4
	NIOSH website	24.3	29.1 [2,3]	21.8 ^[1,4]	20.2 [1,4]	32.0 ^[2,3]
	Links from other websites (such as NFPA and Firehouse)	28.2	34.6 [2,3]	26.3 ^[1]	23.7 ^[1,4]	33.1 ^[3]
	Media reports-newspaper, television, radio	14.9	22.2 [2,3]	11.6 [1]	13.0 ^[1]	15.3
		1.1	1.1 [+]	1.6	0.6 [+]	1.4 [+]
Othe	Does not apply. We have not received information ar about NIOSH recommendations.	11.1	5.0 ^[2,3,4]	13.2 [1]	11.5 ^[1]	15.4 ^[1]

Exhibit B-2a.	Results from	the Fire Departr	nent Survey, Per	rcent Estimates by	Census Region	(continued)
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			Ce	nsus Region		
Question		Total	Northeast	South	Midwest	West
11. In what ways has your depa recommendations? MARK A	artment used NIOSH LL THAT APPLY.					
Made changes to training prog	am	40.2	46.5 [2,3]	37.5 [1]	36.2 [1,4]	45.7 ^[3]
Developed new SOPs/SOGs		26.3	31.3 [2,3]	23.4 [1]	23.4 [1]	32.1
Made changes to SOPs/SOGs		34.9	42.7 ^[2,3]	30.5 [1]	33.1 ^[1]	37.3
Justified current budget/staffin	g	5.0	6.0	3.3	5.7	6.4
Made new budget/staffing requ	ests	5.5	6.2	5.4	3.7 [4]	8.7 [3]
Justified grant applications		15.5	21.1 ^[2,3]	13.9 ^[1]	13.5 ^[1]	15.0
Does not apply. We have not u recommendations.	sed NIOSH	30.1	26.6	32.7	31.8	25.0
Legitimately Skipped Question		11.7	5.3 [2,3,4]	14.0 ^[1]	12.2 [1]	15.8 ^[1]
recommendations that you purposes? If so, MARK ALL	have used for training THAT APPLY.					
Traffic hazards		29.3	31.9	29.4	25.8	32.9
Personal protective equipment	and clothing	41.6	51.1 ^[2,3,4]	37.3 [1]	40.6 [1]	39.0 [1]
SCBA		40.1	48.8 [2,3]	34.0 [1]	40.2 [1]	40.7
PASS systems		32.6	41.4 [2,3]	28.1 ^[1]	31.9 [1]	31.6
Incident Command systems		32.1	37.5	30.7	30.2	31.1
Radio communications		23.0	24.9	21.7	21.6	27.2
Physical fitness and cardiovasc	ular disease (CVD)	8.5	8.2	8.0	8.2	11.3
Building code compliance (e.g. of wooden trusses)	warning against the use	6.9	9.6 [2]	4.9 ^[1]	6.6	8.3
		2.3	2.2	3.1	1.5	2.3
Does not apply. We have not u Other recommendations for training	sed NIOSH g purposes.	1.9	3.0 [4]	1.9	1.7	0.6 [1,+]
Legitimately Skipped Question		41.9	32.2 [2,3]	46.4 [1]	43.7 [1]	42.1

		Census Region					
	Question	Total	Northeast	South	Midwest	West	
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?						
		78.5	81.6 ^[4]	78.8 ^[4]	83.6 ^[4]	59.3 ^[1,2,3]	
	Yes, it's required	7.0	1.5 [2,3,4]	8.5 ^[1,3,4]	4.1 ^[1,2,4]	19.7 ^[1,2,3]	
No	Yes, it's optional	14.5	16.9	12.7 ^[4]	12.3 ^[4]	21.0 ^[2,3]	
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?						
	One time, when they first join the department	14.5	18.2 [2]	9.1 ^[1,3,4]	17.2 [2]	16.2 [2]	
	Less frequently than once a year	7.1	6.4 [3]	3.3 ^[3,4]	11.4 ^[1,2]	8.1 ^[2]	
	One time a year	17.1	30.9 [2,3,4]	11.1 ^[1,4]	13.1 ^[1]	18.9 ^[1,2]	
	More than one time a year	0.3	** [2]	0.4 [1]	0.3 [+]	0.4 [+]	
	Does not apply. Firefighters are not required to receive CVD screenings	60.9	44.6 ^[2,3,4]	76.1 ^[1,3,4]	57.9 ^[1,2]	56.4 ^[1,2]	
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.						
		6.4	1.2 [2,3,4,+]	3.7 ^[1,3]	12.8 ^[1,2,4]	7.2 ^[1,3]	
	Yes, they receive training required by the department	84.0	93 .1 ^[2,3,4]	86.5 ^[1,3]	75.8 ^[1,2]	81.3 ^[1]	
No	Yes, they receive training required by the state	25.7	18.3 [2,4]	30.1 ^[1,3]	22.7 ^[2,4]	34.3 ^[1,3]	
	Yes, they receive optional training	13.8	12.3	13.5	14.5	15.1	
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?						
	Two or more times a year	14.2	14.8	17.4 [3]	9.6 [2]	15.5	
	Once every year	40.3	37.9	40.5	42.7	38.7	
	Less frequently than once a year	24.8	26.9	25.3	21.8	26.5	
	Does not apply. Firefighters are not required to receive continuing driver training.	20.7	20.5	16.8 [3]	25.8 ^[2]	19.3	
L					(1	continue	

Exhibit B-2a.	Results from the Fire De	partment Survey.	Percent Estimates by	v Census Region (continued)
		partinent oar rey		Consus Region	continaca

			Cei	nsus Region		
	Question	Total	Northeast	South	Midwest	West
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?					
	Yes	84.2	85.6 [3,4]	87.3 [3]	76.7 [1,2,4]	92.0 ^[1,3]
	No	15.8	14.4 [3,4]	12.7 ^[3]	23.3 [1,2,4]	8.0 ^[1,3]
17.	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?					
	Strongly disagree	6.9	5.4	7.2	9.1 ^[4]	3.4 [3]
	Disagree	18.0	20.2 [4]	16.6	20.3 [4]	12.5 ^[1,3]
	Neither agree nor disagree	30.8	31.4	30.1	31.5	30.3
	Agree	32.1	32.7	33.9	28.2	35.7
	Strongly agree	12.2	10.4 [4]	12.2	10.9 ^[4]	18.1 ^[1,3]
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
	Never	5.4	4.5 [3]	3.2 [3]	8.7 ^[1,2]	4.8
	Some of the time	22.7	27.2 [4]	22.0 [4]	27.8 ^[4]	4.8 [1,2,3]
	About half the time	17.0	19.6 [4]	16.2	18.2 ^[4]	11.4 ^[1,3]
	Most of the time	38.4	36.6	41.6 ^[3]	33.0 [2,4]	46.0 ^[3]
	Always	16.5	12.0 ^[4]	16.9 ^[4]	12.3 ^[4]	33.2 ^[1,2,3]
21.	How often is Incident Command established when responding to structure fires?					
		2.3	1.4 [+]	3.0	1.6	4.0
	Rarely	6.8	3.3 [3]	6.7	10.0 [1]	5.4
Neve	rAbout half the time	6.7	4.3 ^[3]	6.2	8.6 [1]	7.7
	Most of the time	27.6	24.5 [3,4]	29.0 ^[4]	34.4 [1,4]	13.3 ^[1,2,3]
	Always	56.6	66.6 ^[2,3]	55.1 ^[1,3,4]	45.5 ^[1,2,4]	69.7 ^[2,3]

		Census Region				
	Question	Total	Northeast	South	Midwest	West
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.					
	Fires are not usually big enough to require an Incident Commander	22.5	15.9 ^[2,3]	24.6 [1]	27.5 ^[1,4]	16.6 ^[3]
	Not enough firefighters available at the scene of the fire	21.2	13.6 [2,3]	21.7 [1]	27.1 ^[1]	18.9
		6.2	7.3	4.5 [3]	8.3 [2]	3.8
Othe	Does not apply. My department always assigns an r Incident Commander for structure fires.	3.6	4.4	3.0	4.0	3.5
0110	Legitimately Skipped Question	56.6	66.6 [2,3]	54.9 ^[1,3,4]	45.7 ^[1,2,4]	70.1 ^[2,3]
23.	structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.					
	Conduct an initial assessment before the other firefighters begin entering the building	91.0	93.7	89.6	91.9	87.7
	Develop and coordinate the fire attack strategy	93.1	94.7	92.4	93.3	91.5
	Develop and initiate a risk management plan	52.3	58.9 ^[3]	52.8	47.0 ^[1]	52.1
	Document all assessments, plans and events related to the fire	38.8	42.2	34.6 [4]	36.3 ^[4]	49.8 ^[2,3]
	Ensure that at least four (4) firefighters are on the scene before entering the building	68.6	63.2 ^[3]	66.1 ^[3]	74.2 [1,2]	71.0
	Establish a collapse zone around the building	49.1	55.6 [2]	45.1 ^[1]	48.4	49.9
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	48.5	62.8 ^[2,3]	41.3 ^[1,4]	40.8 [1,4]	60.6 ^[2,3]
	Identify and implement a communication strategy	64.7	66.8	62.5	65.2	65.9
	Monitor location of all firefighters at the scene	76.2	63.0 ^[2,3,4]	82.8 [1]	78.3 [1]	77.4 ^[1]
	Other	9.1	10.3	6.7 [4]	8.6	14.5 ^[2]

Exhibit B-2a. Results from the Fire Department Survey, Percent Estimates by Census Region (continued)

		Census Region					
	Question	Total	Northeast	South	Midwest	West	
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?						
		13.3	8.0 [3]	12.6 [3]	18.5 ^[1,2]	11.9	
	Some of the time	26.5	21.0 [3]	27.7	28.9 ^[1]	27.1	
Neve	rAbout half the time	8.1	6.4	8.8	8.9	7.2	
	Most of the time	29.8	32.7	29.7	26.7	32.3	
	Always	22.3	31.9 ^[2,3,4]	21.1 ^[1]	17.0 [1]	21.4 [1]	
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.						
	Fires are not big enough to require an Incident Safety Officer	32.3	23.7 ^[2,3,4]	33.7 ^[1]	33.7 [1]	39.5 ^[1]	
	Not enough firefighters are available at the scene of the fire	51.7	42.7 [3]	50.9 ^[3]	58.8 ^[1,2]	52.2	
		13.1	13.8	13.6	9.3 [4]	19.6 ^[3]	
Othe	Does not apply. Our Incident Commanders always r assign an Incident Safety Officer for structure fires.	2.1	3.1	2.1	1.4	1.7 [+]	
othe	Legitimately Skipped Question	22.6	33.3 ^[2,3,4]	21.1 ^[1]	17.2 [1]	21.6 [1]	
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?						
		29.4	12.1 ^[2,3]	35.7 ^[1,4]	39.1 ^[1,4]	19.5 ^[2,3]	
	Some of the time	21.8	21.3	20.7	23.5	21.4	
Neve	rAbout half the time	6.5	5.1	6.7	7.5	5.5	
	Most of the time	22.5	24.0	22.1	18.6 ^[4]	30.5 [3]	
	Always	19.9	37.5 [2,3,4]	14.7 ^[1,4]	11.3 ^[1,4]	23.2 [1,2,3]	

			Cei	nsus Region					
	Question	Total	Northeast	South	Midwest	West			
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.								
	When the building has more than one story/floor	9.3	9.3	10.0	9.1	8.3			
	When there are enough firefighters on and at the scene of the fire	32.3	23.4 [2,3,4]	36.0 ^[1]	32.8 [1]	36.7 [1]			
	Whenever firefighters enter a burning building	26.4	28.6	25.0 [4]	22.3 [4]	35.9 ^[2,3]			
	Other	4.9	8.4 [2]	2.6 [1]	5.1	4.6			
	Legitimately Skipped Question	49.3	49.8	50.5	50.5	42.2			
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.								
	The structure fire may not be large enough to need an RIT/RIC	34.9	27.5 ^[3]	34.1 ^[3]	41.5 ^[1,2]	34.8			
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	8.8	4.8 [2,3]	10.0 [1]	11.6 [1]	6.3			
	We don't have enough firefighters available at the scene of the fire	53.5	33.0 ^[2,3,4]	59.4 ^[1]	63.5 ^[1,4]	50.9 ^[1,3]			
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	20.7	17.0 [3]	17.1 ^[3]	28.1 ^[1,2,4]	19.3 ^[3]			
	We have never established an RIT/RIC	17.7	11.2 [2,3]	18.8 ^[1,3,4]	25.7 ^[1,2,4]	7.2 ^[2,3]			
	We use other fire departments in the area for RITs/RICs	29.2	43.3 [2,3,4]	22.6 [1,3]	31.2 [1,2,4]	17.7 ^[1,3]			
	We use other safety practices and so we don't need them	4.2	2.1 [2]	5.8 [1]	4.7	2.5 [+]			
	Other	4.1	2.7 [4]	3.1 [4]	3.7 ^[4]	9.8 [1,2,3]			
	Legitimately Skipped Question	20.3	38.0 [2,3,4]	15.0 ^[1,4]	11.7 ^[1,4]	23.2 ^[1,2,3]			
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?								
	Yes	78.8	86.7 [2,3]	72.7 ^[1,4]	78.1 ^[1]	82.8 [2]			
	No	21.2	13.3 ^[2,3]	27.3 ^[1,4]	21.9 ^[1]	17.2 [2]			
			1		. (continued)			

			Census Region					
	Question	Total	Northeast	South	Midwest	West		
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?							
	Never	6.3	0.4 [2,3,4,+]	9.6 ^[1,3]	5.1 ^[1,2]	10.4 [1]		
	Some of the time	3.9	1.9 ^[3,+]	4.0 ^[4]	6.7 ^[1,4]	0.8 [2,3,+]		
	About half the time	1.8	0.8 ^[3,+]	1.9	3.0 [1]	0.7 [+]		
	Most of the time	12.8	7.3 ^[2,3]	13.8 ^[1]	17.2 [1,4]	9 .4 ^[3]		
	Always	75.2	89.6 [2,3,4]	70.8 [1]	68.0 ^[1,4]	78.7 ^[1,3]		
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.							
	They don't have a PASS device to use	13.1	6.2 ^[2,3]	17.3 ^[1]	13.9 ^[1]	12.2		
	Situation doesn't require them	9.5	3.9 ^[2,3]	10.0 [1]	14.5 ^[1,4]	6.2 [3]		
	Firefighters think the devices do not always work reliably	0.3	0.4 [+]	* *	0.8 [+]	* *		
	Firefighters don't think they need them	4.6	4.1	4.1	5.7	3.9		
	Devices go off while firefighters are resting	3.7	2.3 [3]	2.4 [3]	6.8 ^[1,2,4]	1.8 [3,+]		
	Legitimately Skipped Question	75.5	89.5 [2,3,4]	71.0 ^[1]	68.7 ^[1,4]	79.3 ^[1,3]		
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?							
	Yes	99.2	99.5	100.0 ^[4]	99.8 [4]	95.4 ^[2,3]		
		0.8	0.5 [+]	* * [4,+]	0.2 [4,+]	4.6 [2,3]		
33. No	Do your firefighters ever have to share facepieces for SCBAs?							
-	Yes	49.7	43.9 [2]	56.8 [1,4]	51.3 [4]	36.5 [2,3]		
	No	49.5	55.5 ^[2]	43.1 ^[1,4]	48.4 [4]	58.7 ^[2,3]		
	Legitimately Skipped Question	0.8	0.6 [+]	* * [4,+]	0.2 [4,+]	4.7 [2,3]		

			Ce	nsus Region		
	Question	Total	Northeast	South	Midwest	West
33a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.					
	Didn't know it was recommended	4.8	3.0	6.3	4.7	3.7 [+]
	Firefighters don't like using the equipment	0.3	* *	* *	0.6 [+]	0.8 [+]
	Have never needed them (e.g., we don't do interior attacks)	0.7	0.4 [+]	1.1 [+]	0.3 [+]	0.8 [+]
	They cost too much, there is not enough money in the budget	31.8	25.4 [2]	37.8 ^[1,4]	32.6	24.4 [2]
	We don't have enough equipment for all of our firefighters	24.6	15.7 ^[2,3]	26.2 [1]	30.0 [1]	22.1
	Shared systems work fine for our needs	23.4	20.2	26.3 [4]	25.0	17.4 [2]
	Other	5.0	7.2	4.8	4.3	3.3 [+]
	Legitimately Skipped Question	50.3	56.3 [2]	43.3 [1,4]	48.6 [4]	63.3 ^[2,3]
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?					
		1.1	** [2]	1.6 [1]	0.7 [+]	2.8 [+]
	Some of the time	4.7	0.9 ^[2,3,+]	6.1 ^[1]	6.4 ^[1]	3.8
Neve	rAbout half the time	2.7	** [2,3]	2.6 [1]	5.4 [1,4]	0.9 ^[3,+]
	Most of the time	24.5	22.4	25.6	27.3 [4]	18.5 ^[3]
	Always	66.1	76.2 [2,3]	64.1 ^[1]	59.9 ^[1]	69.3
	Legitimately Skipped Question	0.8	0.6 [+]	* * [4,+]	0.2 [4,+]	4.6 [2,3]

Exhibit B-2a.	Results from the Fire De	partment Survey,	Percent Estimates by	/ Census Region ((continued)
	Results nom the rife be	partinent bartey/	i ci cent Estimates s	Consus Region	continaca

		Census Region					
	Question	Total	Northeast	South	Midwest	West	
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.						
	Situation doesn't require them	25.9	17.9 ^[2,3]	27.9 ^[1]	31.8 [1,4]	19.9 ^[3]	
	Firefighters do not trust that the SCBAs will work reliably	* *	**	* *	0.3 [+]		
	Firefighters don't think they need them	10.3	8.4	11.4	12.2 [4]	6.5 ^[3]	
	Firefighters don't like sharing facepieces with others	1.0	** [3]	0.9 [+]	1.4 ^{[1] * *}	1.5 [+]	
	Firefighters are concerned that the SCBA may be or become contaminated	* *	* *	0.2 [+]	* *	* *	
	Wearing SCBAs makes it more difficult to work	5.9	3.6 [3]	6.4	8.0 ^[1,4]	3.6 [3]	
	Firefighters don't have SCBAs to use	3.9	2.2 [3]	3.4	5.8 [1]	3.8 [+]	
	Legitimately Skipped Question	67.8	77.6 [2,3]	64.9 ^[1]	61.2 [1,4]	74.1 ^[3]	
36.	How often is routine maintenance performed on your SCBAs?						
	After every time they are used	43.0	42.6	43.7	46.1 [4]	34.4 [3]	
	Once a month or more	19.0	28.4 [2,3,4]	17.8 [1]	16.6 [1]	12.2 ^[1]	
	Several times a year	15.0	11.8	14.4	17.3	16.8	
	Once a year	16.4	15.2	19.1 ^[3]	12.4 [2]	20.5	
	Less than once a year	4.3	1.3 [3,4,+]	4.2	5.3 ^[1]	6.8 ^[1]	
	Never. Maintenance has not been done on our SCBAs.	1.4	* * [3]	0.8 [+]	1.9 ^[1]	3.8 [+]	
	Does not apply. My department does not have SCBAs.	* *	* *	* *	* *	* *	
	Legitimately Skipped Question	1.0	0.7 [+]	** [4,+]	0.3 [4,+]	5.5 ^[2,3]	
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?						
	Greater than zero	17.5	19.5	16.9	18.0	14.9	

82.5

80.5

83.1

Exhibit B-2a. Results from the Fire Department Survey, Percent Estimates by Census Region (continued)

Zero

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

85.1 (continued)

82.0

			Ce	nsus Region					
	Question	Total	Northeast	South	Midwest	West			
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.								
	CBRN SCBA devices are not needed in our department	20.9	18.1	20.2	23.0	22.9			
	We didn't know they were available	15.1	13.7	14.7	15.9	16.3			
	We don't have adequate technical information to purchase them	19.7	18.8	15.3 ^[3,4]	22.7 [2]	25.6 [2]			
	We don't have adequate funding to purchase them	60.3	57.5	63.3	59.1	59.8			
		4.9	4.3	4.8	3.6 [4]	9.2 [3]			
	Legitimately Skipped Question	18.3	20.3	17.7	18.9	14.9			
38 ae	Does your fire department have Automated External Defibrillators (AEDs)?								
	Yes	77.4	78.2	74.4	79.2	80.0			
38a. No	At your fire department, where do you have AEDs?	22.0	21.0	23.0	20.0	20.0			
	At the fire station(s)	2.8	3.3	3.1	2.4	2.2 [+]			
	On the emergency vehicles (or apparatus)	62.0	59.7	61.6	64.9	59.7			
	Both at the fire station(s) and on the vehicles (or apparatus)	10.4	12.4	8.1 ^[4]	9.5	15.4 [2]			
	Legitimately Skipped Question	24.9	24.6	27.3	23.2	22.7			
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?								
	After every time they are used	13.9	14.6	14.9	12.0	14.3			
	Once a month or more	25.4	24.6	22.0	28.8	28.4			
	Several times a year	20.6	20.4	19.1	19.9	26.5			
	Once a year	22.3	23.1	24.8	21.1	17.1			
	Less frequently than once a year	7.4	5.3	7.3	9.4	6.9			
	Never. Maintenance on our AEDs has not been done.	10.4	12.0	11.9	8.8	6.8			

Exhibit B-2a. Results from the Fire Department Survey, Percent Estimates by Census Region (continued)

			Ce	nsus Region						
	Question	Total	Northeast	South	Midwest	West				
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?									
		1.6	2.9	0.7 [+]	2.0	1.3 [+]				
	Some of the time	4.7	7.6 [2]	1.5 ^[1,3]	6.3 [2]	4.2				
Neve	erAbout half the time	2.6	1.2 [+]	3.2	2.9	3.0				
	Most of the time	20.6	22.1	17.7 ^[3]	24.3 [2]	17.0				
	Always	70.4	66.2 [2]	76.9 ^[1,3]	64.6 [2,4]	74.6 [3]				
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?									
		18.0	15.0	17.8	20.3	18.3				
	Some of the time	64.5	68.5	63.6	63.2	63.2				
Neve	erAbout half the time	10.3	10.4	9.8	10.4	11.0				
	Most of the time	5.4	3.5	7.0	4.7	6.0				
	Always	1.8	2.5	1.9	1.4	1.6 [+]				

			Ce	nsus Region		
	Question	Total	Northeast	South	Midwest	West
42.	How would you rate your department's budget in the following areas?					
42a.	Equipment					
	Not adequate	48.6	40.3 [2,3,4]	49.0 ^[1]	53.3 ^[1]	50.8 ^[1]
	Adequate	45.7	51.9 ^[3]	45.0	42.2 ^[1]	45.0
	More than adequate	5.7	7.9	6.0	4.5	4.2
42b.	Training					
	Not adequate	39.1	27.2 [2,3,4]	39.0 [1]	44.9 ^[1]	46.5 ^[1]
	Adequate	55.6	64.6 [2,3,4]	55.4 ^[1]	51.3 ^[1]	51.2 ^[1]
	More than adequate	5.2	8.2 [3,4]	5.6 ^[4]	3.9 [1]	2.3 ^[1,2]
42c.	Personnel					
	Not adequate	51.5	44.2 [2,4]	54.7 ^[1,4]	47.7 [4]	64.5 ^[1,2,3]
	Adequate	44.3	51.3 ^[2,4]	40.1 ^[1,3]	48.3 [2,4]	33.9 ^[1,3]
	More than adequate	4.2	4.5	5.2 [4]	4.0	1.6 [2,+]
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety					
	reports.	26.0	$21 \in [2,3]$	$20.2^{[1,4]}$	$200^{[1]}$	$21 2^{[2]}$
	One or two times per year	20.8 24.2	21.0	30.2	29.0	21.3^{-1}
Nex	Several times per year	34.3	31.3	34.9	38.2 ¹	28.7^{1-3}
Neve	Corea a month or more	33.∠ 5.7	40.9	29.3	28.5	41.4 ⁻⁰³
	Unce a month or more	5.7	0.2	5.0	4.3	ð.0

			Ce	nsus Region						
	Question	Total	Northeast	South	Midwest	West				
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.									
	By mail	56.0	58.7	52.6	57.1	57.7				
	On the Internet	24.7	27.7	22.4 [4]	21.7 ^[4]	32.7 ^[2,3]				
	From colleagues in other departments	10.0	12.6 [3]	11.8 ^[3]	6.0 ^[1,2]	9.8				
	At conferences or other meetings	6.9	6.4	7.0	6.2	9.5				
	Legitimately Skipped Question	26.8	21.6 [2,3]	30.0 [1]	29.1 ^[1]	21.6				
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?									
		53.3	57.7	49.8 [4]	50.7 ^[4]	61.6 ^[2,3]				
	No	20.0	20.5	20.5	20.3	17.3				
Yes	Legitimately Skipped Question	26.6	21.8 [2,3]	29.8 ^[1,4]	29.0 ^[1]	21.0 [2]				
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?									
	Yes	60.7	64.1	58.5	59.2	64.0				
		12.1	14.0	10.9	11.2	13.9				
	Legitimately Skipped Question	27.3	21.9 ^[2,3]	30.6 [1]	29.6 [1]	22.1				

No

		Cer	nsus Region		
Question	Total	Northeast	South	Midwest	West
50a. How is this information disseminated to firefighters? MARK ALL THAT APPLY.					
Regular staff meetings	23.5	24.1 [4]	24.1 ^[4]	25.7 [4]	15.5 ^[1,2,3]
Training sessions	44.2	44.0	47.1 ^[3]	39.3 ^[2]	48.6
Provide copies of NIOSH reports to firefighters	16.2	17.4	13.0	17.8	18.6
Provide copies of NIOSH report summaries to firefighters	6.2	7.0	5.3	6.0	7.7
Provide summaries prepared by department to firefighters	1.8	1.9	2.3	0.8 [+]	2.6
Postings on bulletin boards	38.5	52.2 [2,3,4]	32.2 [1]	37.4 [1]	33.9 [1]
Post report on the department website	1.1	1.8	0.9	0.6 [+]	2.0
Send message to firefighters by email	5.3	3.0 ^[4]	4.9 ^[4]	3.5 [4]	15.3 ^[1,2,3]
Other	1.3	0.7 [+]	1.6	1.0	1.9
Legitimately Skipped Question	39.1	36.1	41.1	40.3	35.8
51. The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?					
	34.2	40.8 [2,3]	32.4 [1]	32.5 ^[1]	31.6
	38.4	37.4	36.6 [4]	37.5	46.9 ^[2]
Yes Legitimately Skipped Question	27.4	21.9 ^[2,3]	31.0 ^[1,4]	30.0 [1]	21.6 ^[2]
No					(continued)

Exhibit B-2a.	Results from the Fire	Department Survey,	Percent Estimates by	/ Census Region (continued)

		Census Region				
	Question	Total	Northeast	South	Midwest	West
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	0.5	** [+]	0.7 [+]	0.1 [+]	1.6 [+]
	Disagree	3.6	4.7	3.0	2.9	4.5
	Neither Agree nor Disagree	18.7	15.0 ^[3,4]	17.0	21.2 [1]	24.1 ^[1]
	Agree	45.6	52.5 ^[3]	44.6	41.9 ^[1]	44.7
	Strongly Agree	3.7	5.9	3.1	3.3	2.2 [+]
	Legitimately Skipped Question	28.0	21.9 ^[2,3]	31.6 [1]	30.5 ^[1]	23.0
52b.	Recommendations are easy to understand					
	Strongly Disagree	0.4	**[+]	0.7 [+]	* *	1.4 [+]
	Disagree	1.7	1.8	1.8	1.8	1.1 [+]
	Neither Agree nor Disagree	19.8	18.4	17.8	21.8	23.1
	Agree	45.4	50.3 ^[3]	44.3	41.6 [1]	48.7
	Strongly Agree	4.6	7.7 ^[2,4]	3.6 [1]	4.3	2.6 [1,+]
	Legitimately Skipped Question	28.1	21.9 ^[2,3]	31.8 ^[1]	30.6 [1]	23.1
52c.	Recommendations are specific and concrete					
	Strongly Disagree	0.4	0.2 [+]	0.8 [+]	** [+]	0.8 [+]
	Disagree	3.2	3.1	2.6	3.6	4.1
	Neither Agree nor Disagree	26.6	27.0	23.8	28.9	27.9
	Agree	37.9	42.8 [3]	37.1	33.7 [1]	41.4
	Strongly Agree	3.8	5.0	4.2	3.1	2.7 [+]
	Legitimately Skipped Question	28.0	22.0 [2,3]	31.6 [1]	30.6 [1]	23.1

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

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			Ce	nsus Region		
	Question	Total	Northeast	South	Midwest	West
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.					
	Pocket guide to chemical hazards	57.4	66.8 ^[2,3]	52.3 ^[1]	54.7 ^[1]	61.0
	Respirator maintenance program guide	13.8	17.0 ^[4]	13.1	13.9	9.8 ^[1]
	CDs of firefighter program materials	28.0	31.2	26.3	27.4	28.2
	Alerts	31.7	38.8 [2,3]	29.8 ^[1]	27.3 ^[1]	34.9
	Hazard IDs	16.6	19.8	14.1	16.8	17.1
	Workplace Solutions	12.5	15.2	11.2	10.4	15.9
		0.8	* * [3]	0.9 [+]	1.2 [1]	0.7 [+]
	None. I have not seen any NIOSH materials.	25.2	18.2 ^[2,3]	28.2 ^[1]	28.1 ^[1]	22.4
53a	r How satisfied or dissatisfied are you with these NIOSH materials?					
	Very dissatisfied	1.3	2.6	0.4 [+]	1.0	2.4
	Dissatisfied	0.2	0.4 [+]	** [+]	0.3 [+]	* *
	Neither satisfied nor dissatisfied	21.2	20.9	17.9 [4]	22.8	26.4 [2]
	Satisfied	47.1	53.1 ^[3]	48.1	43.4 ^[1]	42.9
	Very satisfied	5.2	4.9	5.1	4.8	6.7
	Legitimately Skipped Question	24.9	18.1 ^[2,3]	28.4 [1]	27.6 [1]	21.7
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?					
		59.4	56.3 ^[3]	57.9	64.3 ^[1]	56.8
	Yes, in the last year	34.5	37.7	34.2	31.6	37.0
No	Yes, longer than one year ago	6.1	6.0	8.0 ^[3]	4.1 ^[2]	6.2

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

				Census Region	l	
	Question	Total	Northeast	South	Midwest	West
1.	Does your department have a Safety Officer?					
	Yes	(67.5, 72.9)	(66.9, 78.2)	(68.3, 77.8)	(58.6, 68.3)	(65.4, 80.3)
	No	(27.1, 32.5)	(21.8, 33.1)	(22.2, 31.7)	(31.7, 41.4)	(19.7, 34.6)
2.	Does your department have a Training Officer?					
	Yes	(86.4, 90.3)	(82.0, 90.7)	(89.1, 94.8)	(83.7, 90.7)	(75.1, 88.6)
	No	(9.7, 13.6)	(9.3, 18.0)	(5.2, 10.9)	(9.3, 16.3)	(11.4, 24.9)
3.	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.					
	Incident Command Systems	(81.3, 85.8)	(82.3, 91.0)	(81.4, 89.2)	(74.4, 82.8)	(75.7, 89.1)
	Maintenance of SCBAs	(66.9, 72.3)	(72.1, 82.7)	(61.1, 71.2)	(63.8, 73.1)	(58.4, 74.1)
	Motor vehicle safety	(76.3, 81.2)	(79.9, 88.7)	(75.6, 84.1)	(66.0, 75.3)	(76.1, 88.9)
	Participation in a personal physical fitness program	(9.6, 12.7)	(6.8, 13.9)	(8.4, 14.1)	(5.6, 10.2)	(16.7, 28.2)
	Participation in regular health screenings for cardiovascular disease (CVD)	(14.9, 18.9)	(22.2, 33.6)	(7.1, 12.1)	(12.4, 19.2)	(15.6, 27.5)
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	(37.7, 43.2)	(42.1, 54.5)	(30.9, 40.7)	(29.5, 38.5)	(46.8, 62.9)
	Use of Personal Alert Safety System (PASS) devices	(72.7, 77.9)	(78.3, 87.6)	(65.7, 75.5)	(69.9, 78.7)	(66.8, 81.7)
	Use of personal protective equipment and protective clothing	(87.1, 90.9)	(91.3, 96.8)	(85.7, 92.4)	(81.1, 88.5)	(81.0, 92.4)
	Use of radio communications	(82.5, 86.8)	(87.9, 94.5)	(81.3, 88.9)	(73.5, 82.0)	(79.8, 91.4)
	Other	(7.2, 10.5)	(8.5, 17.2)	(4.6, 9.7)	(5.1, 10.0)	(7.5, 17.9)
	Does not apply. Our fire department does not use SOPs/SOGs.	(3.8, 6.5)	(0.3, 3.2)	(2.7, 7.6)	(5.5, 11.2)	(3.0, 12.2)

			Census Region				
	Question	Total	Northeast	South	Midwest	West	
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?						
4a.	Fighting structure fires						
	No Training	(0.6, 2.0)	(0.1, 2.6)	(0.6, 3.9)	(0.2, 2.0)	(1.0, 6.4)	
	Optional Training	(14.6, 19.1)	(11.2, 20.3)	(9.9, 17.4)	(19.2, 28.0)	(8.1, 20.5)	
	Required Training	(80.4, 85.0)	(79.8, 88.8)	(81.6, 89.3)	(72.2, 80.9)	(77.8, 90.5)	
4b.	Driving safety						
	No Training	(2.9, 5.3)	(0.3, 3.2)	(1.2, 5.0)	(4.4, 9.7)	(3.4, 13.5)	
	Optional Training	(16.3, 21.1)	(15.0, 25.5)	(12.5, 20.6)	(19.6, 28.5)	(6.3, 18.0)	
	Required Training	(75.1, 80.1)	(73.6, 84.2)	(77.1, 85.6)	(65.0, 74.5)	(74.2, 88.2)	
4c.	Incident Command systems						
	No Training	(2.0, 4.1)	(0.4, 3.8)	(1.8, 6.2)	(2.5, 6.9)	(0.4, 5.8)	
	Optional Training	(24.8, 30.2)	(24.1, 35.9)	(20.4, 30.0)	(26.8, 36.4)	(14.2, 28.6)	
	Required Training	(67.1, 72.6)	(62.9, 74.7)	(66.6, 76.4)	(59.9, 69.7)	(69.9, 84.5)	
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)						
	No Training	(5.2, 8.3)	(2.1, 7.6)	(4.8, 10.4)	(3.2, 7.9)	(8.2, 20.5)	
	Optional Training	(30.8, 36.5)	(27.2, 39.1)	(27.1, 37.2)	(35.3, 45.3)	(17.0, 31.1)	
	Required Training	(57.3, 63.1)	(56.8, 69.0)	(56.0, 66.5)	(49.9, 60.0)	(56.6, 72.5)	
4e.	Rapid Intervention Teams (RITs)						
	No Training	(25.8, 31.3)	(16.0, 26.4)	(26.1, 36.5)	(30.5, 40.7)	(13.8, 27.6)	
	Optional Training	(33.3, 39.2)	(46.5, 59.3)	(27.1, 37.5)	(29.4, 39.4)	(15.3, 28.8)	
	Required Training	(32.8, 38.3)	(21.7, 32.9)	(31.8, 42.1)	(26.3, 35.3)	(50.6, 66.8)	

				Census Region		
	Question	Total	Northeast	South	Midwest	West
4f.	Use of personal protective equipment and/or protective clothing					
	No Training	(0.9, 2.4)	(0.1, 2.4)	(0.9, 4.2)	(0.6, 3.0)	(0.6, 5.9)
	Optional Training	(8.2, 11.8)	(4.3, 10.9)	(6.8, 13.4)	(11.1, 18.5)	(2.2, 10.3)
	Required Training	(86.9, 90.7)	(89.1, 95.7)	(84.8, 91.8)	(80.0, 87.7)	(87.6, 96.5)
4g.	Use of radio communication devices					
_	No Training	(1.9, 3.8)	(0.8, 5.0)	(1.3, 5.3)	(2.1, 5.7)	(0.6, 5.9)
	Optional Training	(19.0, 23.9)	(16.4, 26.6)	(17.1, 26.1)	(21.9, 30.9)	(6.6, 17.7)
	Required Training	(73.6, 78.6)	(71.4, 82.0)	(71.8, 81.0)	(65.5, 74.8)	(80.2, 91.8)
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.					
	Our department's Training Officer	(82.6, 86.9)	(76.1, 86.1)	(83.7, 90.9)	(80.7, 88.2)	(75.4, 88.7)
	Other officers within our department	(80.4, 85.0)	(83.6, 92.0)	(70.5, 79.8)	(80.2, 87.7)	(82.9, 93.0)
	State fire training agency	(74.8, 79.8)	(84.9, 93.0)	(71.7, 80.8)	(70.5, 79.3)	(55.6, 71.2)
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	(18.9, 23.1)	(21.2, 31.8)	(18.6, 26.6)	(11.2, 17.3)	(19.3, 31.2)
	Conferences or regional meetings	(48.8, 54.6)	(48.8, 61.3)	(38.3, 48.6)	(50.3, 60.2)	(50.9, 67.1)
	Other	(22.7, 27.8)	(24.6, 36.0)	(21.3, 30.5)	(13.9, 21.3)	(27.3, 42.4)
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.					
	Roadside incidents/Motor Vehicle Accidents (MVA)	(52.4, 58.2)	(61.2, 72.9)	(43.7, 54.0)	(45.0, 54.9)	(56.5, 71.9)
	Scuba diving	(6.2, 9.1)	(5.0, 11.3)	(5.5, 11.1)	(6.7, 12.1)	(1.2, 5.7)
	Swift water rescue	(9.6, 13.0)	(9.7, 18.0)	(8.3, 14.3)	(5.9, 10.7)	(11.5, 21.4)
	Wildland fire fighting	(44.1, 49.9)	(26.8, 38.4)	(44.6, 55.1)	(33.8, 43.6)	(78.2, 89.9)
	HAZMAT	(63.8, 69.4)	(69.3, 80.3)	(58.2, 68.4)	(56.5, 66.3)	(64.4, 79.6)
	Other	(28.5, 33.9)	(36.3, 48.7)	(24.8, 34.4)	(21.1, 29.6)	(23.9, 38.5)

				Census Region	1	
	Question	Total	Northeast	South	Midwest	West
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?					
	Not at all familiar	(6.8, 10.2)	(1.4, 5.9)	(6.4, 12.8)	(7.2, 13.6)	(7.1, 18.7)
	Not very familiar	(21.8, 27.0)	(14.6, 24.5)	(19.2, 28.4)	(24.6, 33.8)	(17.5, 32.8)
	Somewhat familiar	(55.2, 61.0)	(56.9, 68.9)	(54.5, 64.9)	(49.8, 59.7)	(44.7, 60.9)
	Very familiar	(7.8, 10.9)	(11.1, 19.8)	(5.5, 10.3)	(4.4, 8.8)	(7.2, 16.6)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?					
	Not at all familiar	(18.4, 23.3)	(10.2, 19.2)	(15.2, 23.8)	(21.1, 30.0)	(19.0, 34.0)
	Not very familiar	(30.8, 36.4)	(26.9, 38.8)	(32.2, 42.4)	(29.5, 38.9)	(17.6, 31.9)
	Somewhat familiar	(35.1, 40.7)	(37.7, 50.2)	(32.1, 42.0)	(30.6, 40.0)	(29.5, 44.5)
	Very familiar	(6.5, 9.4)	(6.5, 13.5)	(4.8, 9.4)	(3.8, 8.0)	(8.8, 20.0)
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.					
	NIOSH mailings	(64.9, 70.5)	(64.9, 76.4)	(62.1, 72.1)	(61.9, 71.4)	(57.3, 73.1)
	National conference presentations	(2.8, 4.7)	(1.3, 5.3)	(2.8, 6.5)	(1.5, 4.1)	(3.9, 9.9)
	State-level conference presentations	(9.7, 13.5)	(7.6, 15.8)	(8.2, 14.6)	(8.5, 15.0)	(8.8, 20.3)
	Other firefighters or departments	(20.5, 25.5)	(23.0, 34.5)	(16.8, 25.4)	(16.3, 24.3)	(19.2, 33.3)
	At seminars or other training opportunities (not conferences)	(14.3, 18.6)	(18.3, 28.7)	(10.6, 17.7)	(10.6, 17.4)	(12.8, 24.9)
	Trade publications (such as Firehouse and Fire Engineering)	(44.3, 50.1)	(43.3, 55.9)	(41.3, 51.8)	(39.5, 49.3)	(43.4, 59.4)
	NIOSH website	(22.0, 26.7)	(23.8, 35.1)	(18.0, 26.3)	(16.8, 24.3)	(25.4, 39.4)
	Links from other websites (such as NFPA and Firehouse)	(25.7, 30.9)	(28.9, 40.8)	(22.0, 31.0)	(19.8, 28.0)	(26.1, 41.0)
	Media reports-newspaper, television, radio	(12.9, 17.1)	(17.2, 28.0)	(8.7, 15.4)	(10.1, 16.6)	(10.2, 22.4)
	Other	(0.7, 1.9)	(0.4, 3.2)	(0.7, 3.3)	(0.2, 1.8)	(0.5, 4.3)
	Does not apply. We have not received information about NIOSH recommendations.	(9.3, 13.2)	(2.8, 9.0)	(9.9, 17.5)	(8.5, 15.2)	(10.0, 22.8)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

Exhibit B-2b.	Results from the Fire Department Survey	Confidence Interval	Estimates by Census	Region (continued)

				Census Regior	1	
	Question	Total	Northeast	South	Midwest	West
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.					
	Made changes to training program	(37.3, 43.1)	(40.1, 53.0)	(32.6, 42.7)	(31.4, 41.2)	(37.8, 53.8)
	Developed new SOPs/SOGs	(23.8, 29.0)	(25.6, 37.7)	(19.4, 28.0)	(19.5, 27.9)	(25.0, 40.2)
	Made changes to SOPs/SOGs	(32.2, 37.7)	(36.5, 49.1)	(26.0, 35.5)	(28.5, 38.0)	(30.0, 45.3)
	Justified current budget/staffing	(4.0, 6.3)	(3.7, 9.5)	(1.9, 5.5)	(3.8, 8.4)	(3.8, 10.7)
	Made new budget/staffing requests	(4.4, 6.8)	(3.8, 9.8)	(3.6, 7.9)	(2.4, 5.8)	(5.4, 13.7)
	Justified grant applications	(13.5, 17.8)	(16.4, 26.8)	(10.7, 17.8)	(10.5, 17.3)	(9.9, 22.0)
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(21.2, 32.9)	(27.7, 38.0)	(27.1, 36.9)	(18.4, 33.1)
	Legitimately Skipped Question	(9.8, 13.9)	(2.9, 9.4)	(10.4, 18.4)	(9.1, 16.2)	(10.3, 23.3)
110	recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.					
	Traffic hazards	(26.7, 32.1)	(26.2, 38.3)	(24.8, 34.5)	(21.7, 30.4)	(25.6, 41.1)
	Personal protective equipment and clothing	(38.7, 44.5)	(44.5, 57.6)	(32.4, 42.6)	(35.7, 45.7)	(31.3, 47.2)
	SCBA	(37.2, 43.0)	(42.4, 55.4)	(29.3, 39.1)	(35.3, 45.2)	(32.9, 49.0)
	PASS systems	(29.9, 35.5)	(35.1, 47.9)	(23.6, 33.0)	(27.3, 36.8)	(24.4, 39.8)
	Incident Command systems	(29.4, 34.9)	(31.4, 44.0)	(26.1, 35.7)	(25.8, 35.0)	(24.0, 39.2)
	Radio communications	(20.7, 25.6)	(19.7, 30.8)	(17.7, 26.2)	(17.7, 26.0)	(20.6, 35.0)
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(5.3, 12.3)	(5.8, 10.9)	(5.9, 11.3)	(7.5, 16.8)
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(6.4, 14.1)	(3.2, 7.5)	(4.6, 9.4)	(4.7, 14.3)
	Other	(1.6, 3.4)	(1.0, 4.9)	(1.7, 5.8)	(0.7, 3.2)	(1.1, 4.8)
	Does not apply. We have not used NIOSH recommendations for training purposes.	(1.3, 2.9)	(1.5, 6.1)	(0.9, 3.9)	(0.8, 3.7)	(0.1, 3.3)
	Legitimately Skipped Question	(38.9, 44.8)	(26.3, 38.7)	(41.1, 51.8)	(38.7, 48.9)	(34.0, 50.6)

				Census Regior	า	
	Question	Total	Northeast	South	Midwest	West
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?					
	No	(76.4, 80.4)	(76.3, 85.9)	(74.8, 82.3)	(80.1, 86.5)	(51.6, 66.6)
	Yes, it's required	(5.9, 8.3)	(0.6, 3.9)	(6.4, 11.3)	(2.8, 6.1)	(14.6, 26.0)
	Yes, it's optional	(12.8, 16.4)	(12.8, 22.0)	(9.9, 16.1)	(9.7, 15.5)	(15.6, 27.7)
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?					
	One time, when they first join the department	(12.7, 16.6)	(13.9, 23.4)	(6.6, 12.3)	(13.9, 21.2)	(11.3, 22.6)
	Less frequently than once a year	(5.8, 8.6)	(3.9, 10.2)	(2.0, 5.3)	(8.6, 14.9)	(4.9, 13.0)
	One time a year	(15.2, 19.3)	(25.3, 37.1)	(8.6, 14.2)	(10.3, 16.6)	(14.1, 24.9)
	More than one time a year	(0.1, 0.7)	(**, **)	(0.1, 0.9)	(0.1, 1.7)	(0.1, 3.1)
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(38.3, 51.0)	(72.0, 79.9)	(53.1, 62.7)	(48.6, 64.0)
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.					
	No	(5.1, 8.0)	(0.3, 4.1)	(2.1, 6.5)	(9.7, 16.7)	(3.9, 12.8)
	Yes, they receive training required by the department	(81.7, 86.0)	(89.3, 95.7)	(82.4, 89.8)	(71.2, 79.8)	(73.9, 86.9)
	Yes, they receive training required by the state	(23.3, 28.3)	(13.8, 23.8)	(25.5, 35.0)	(18.9, 27.0)	(27.3, 42.1)
	Yes, they receive optional training	(11.8, 15.9)	(8.8, 17.0)	(10.2, 17.6)	(11.3, 18.4)	(9.8, 22.5)
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?					
	Two or more times a year	(12.2, 16.4)	(10.8, 20.0)	(13.7, 21.8)	(7.1, 13.0)	(10.5, 22.3)
	Once every year	(37.5, 43.2)	(31.9, 44.2)	(35.4, 45.8)	(37.9, 47.7)	(31.2, 46.8)
	Less frequently than once a year	(22.3, 27.3)	(21.7, 32.8)	(21.1, 30.2)	(18.1, 26.1)	(20.2, 34.0)
	Does not apply. Firefighters are not required to receive continuing driver training.	(18.4, 23.2)	(15.9, 25.9)	(13.1, 21.3)	(21.6, 30.6)	(13.3, 27.1)
						(continued)

EXINDIL D-2D. Results nom the fire Department Survey, connuence Interval Estimates by Census Region (continued	Exhibit B-2b. Results from the Fire	Department Survey	, Confidence Interval Estimates b	y Census Region	(continued)
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				Census Region	1	
	Question	Total	Northeast	South	Midwest	West
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?					
	Yes	(81.9, 86.3)	(80.4, 89.5)	(83.2, 90.5)	(72.0, 80.7)	(86.5, 95.4)
	No	(13.7, 18.1)	(10.5, 19.6)	(9.5, 16.8)	(19.3, 28.0)	(4.6, 13.5)
17.	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?					
	Strongly disagree	(5.5, 8.5)	(3.2, 9.0)	(4.9, 10.4)	(6.6, 12.4)	(1.5, 7.4)
	Disagree	(15.8, 20.4)	(15.6, 25.7)	(13.0, 20.9)	(16.5, 24.7)	(7.9, 19.1)
	Neither agree nor disagree	(28.2, 33.7)	(25.8, 37.7)	(25.4, 35.2)	(27.0, 36.4)	(23.2, 38.5)
	Agree	(29.5, 34.9)	(27.0, 38.9)	(29.1, 39.1)	(24.0, 32.9)	(28.6, 43.4)
	Strongly agree	(10.4, 14.2)	(7.2, 14.7)	(9.3, 16.0)	(8.2, 14.3)	(12.5, 25.5)
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
	Never	(4.2, 6.9)	(2.5, 7.9)	(1.7, 5.9)	(6.2, 12.1)	(2.3, 9.7)
	Some of the time	(20.3, 25.3)	(21.9, 33.3)	(17.9, 26.8)	(23.5, 32.5)	(2.2, 10.2)
	About half the time	(14.8, 19.4)	(15.1, 25.1)	(12.7, 20.6)	(14.5, 22.6)	(7.0, 18.0)
	Most of the time	(35.6, 41.3)	(30.8, 42.9)	(36.5, 46.9)	(28.5, 37.8)	(38.0, 54.1)
	Always	(14.6, 18.7)	(8.4, 16.8)	(13.5, 21.0)	(9.6, 15.7)	(26.3, 40.8)
21.	How often is Incident Command established when responding to structure fires?					
	Never	(1.5, 3.5)	(0.5, 3.8)	(1.5, 5.9)	(0.7, 3.4)	(1.5, 10.0)
	Rarely	(5.4, 8.5)	(1.7, 6.1)	(4.4, 10.1)	(7.3, 13.5)	(2.5, 11.4)
	About half the time	(5.3, 8.4)	(2.3, 7.9)	(4.0, 9.3)	(6.1, 12.0)	(3.9, 14.5)
	Most of the time	(25.0, 30.4)	(19.5, 30.3)	(24.4, 34.1)	(29.7, 39.4)	(8.7, 19.7)
	Always	(53.7, 59.4)	(60.4, 72.2)	(49.8, 60.4)	(40.7, 50.4)	(61.3, 77.0)

				Census Region		
	Question	Total	Northeast	South	Midwest	West
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.					
	Fires are not usually big enough to require an Incident Commander	(20.1, 25.1)	(11.8, 21.1)	(20.2, 29.6)	(23.2, 32.3)	(10.9, 24.4)
	Not enough firefighters available at the scene of the fire	(18.8, 23.7)	(9.9, 18.5)	(17.5, 26.5)	(22.8, 31.9)	(12.9, 26.9)
	Other	(5.0, 7.8)	(4.7, 11.2)	(2.8, 7.2)	(5.9, 11.7)	(1.5, 9.5)
	Does not apply. My department always assigns an Incident Commander for structure fires.	(2.7, 4.9)	(2.4, 7.7)	(1.6, 5.3)	(2.3, 6.7)	(1.4, 8.3)
	Legitimately Skipped Question	(53.7, 59.5)	(60.4, 72.2)	(49.6, 60.1)	(40.9, 50.7)	(61.6, 77.4)
23.	structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.					
	Conduct an initial assessment before the other firefighters begin entering the building	(89.1, 92.6)	(89.8, 96.2)	(85.8, 92.5)	(88.6, 94.2)	(80.6, 92.4)
	Develop and coordinate the fire attack strategy	(91.4, 94.5)	(90.8, 96.9)	(89.2, 94.8)	(90.2, 95.5)	(84.6, 95.4)
	Develop and initiate a risk management plan	(49.4, 55.3)	(52.5, 65.0)	(47.4, 58.1)	(42.0, 52.1)	(44.0, 60.1)
	Document all assessments, plans and events related to the fire	(36.0, 41.7)	(36.0, 48.5)	(29.8, 39.8)	(31.6, 41.3)	(41.7, 57.8)
	Ensure that at least four (4) firefighters are on the scene before entering the building	(65.7, 71.3)	(56.9, 69.1)	(60.8, 70.9)	(69.5, 78.4)	(62.8, 78.0)
	Establish a collapse zone around the building	(46.1, 52.0)	(49.2, 61.8)	(39.9, 50.4)	(43.4, 53.4)	(41.8, 57.9)
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	(45.7, 51.3)	(56.6, 68.7)	(36.3, 46.5)	(36.1, 45.6)	(52.2, 68.4)
	Identify and implement a communication strategy	(61.9, 67.5)	(60.7, 72.5)	(57.3, 67.5)	(60.2, 69.8)	(57.6, 73.3)
	Monitor location of all firefighters at the scene	(73.6, 78.7)	(56.6, 68.9)	(78.4, 86.5)	(73.8, 82.2)	(69.7, 83.7)
	Other	(7.6, 10.9)	(7.1, 14.7)	(4.5, 9.7)	(6.2, 11.8)	(9.4, 21.7)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

		Census Region					
	Question	Total	Northeast	South	Midwest	West	
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?						
	Never	(11.4, 15.5)	(5.3, 11.9)	(9.4, 16.8)	(14.9, 22.8)	(7.2, 19.1)	
	Some of the time	(24.0, 29.2)	(16.4, 26.6)	(23.2, 32.7)	(24.6, 33.7)	(20.5, 35.0)	
	About half the time	(6.6, 9.9)	(3.8, 10.4)	(6.3, 12.2)	(6.4, 12.4)	(4.2, 12.2)	
	Most of the time	(27.2, 32.5)	(27.1, 38.9)	(25.1, 34.7)	(22.5, 31.3)	(25.4, 40.1)	
	Always	(19.9, 24.9)	(26.2, 38.2)	(17.1, 25.8)	(13.6, 20.9)	(15.5, 28.9)	
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.						
	Fires are not big enough to require an Incident Safety Officer	(29.5, 35.1)	(18.7, 29.5)	(28.8, 38.9)	(29.1, 38.7)	(31.8, 47.7)	
	Not enough firefighters are available at the scene of the fire	(48.7, 54.6)	(36.6, 49.1)	(45.6, 56.2)	(53.7, 63.6)	(44.1, 60.1)	
	Other	(11.3, 15.1)	(10.0, 18.6)	(10.5, 17.5)	(6.9, 12.4)	(14.2, 26.4)	
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	(1.4, 3.0)	(1.5, 6.2)	(1.1, 4.2)	(0.6, 3.0)	(0.6, 5.0)	
	Legitimately Skipped Question	(20.3, 25.2)	(27.4, 39.7)	(17.1, 25.8)	(13.9, 21.3)	(15.6, 29.1)	
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?						
	Never	(26.7, 32.1)	(8.5, 16.8)	(30.7, 41.0)	(34.3, 44.1)	(13.5, 27.3)	
	Some of the time	(19.5, 24.3)	(16.6, 27.0)	(16.8, 25.3)	(19.5, 28.1)	(15.3, 29.0)	
	About half the time	(5.2, 8.0)	(3.0, 8.6)	(4.5, 9.9)	(5.3, 10.6)	(2.9, 10.2)	
	Most of the time	(20.2, 25.0)	(19.1, 29.8)	(18.1, 26.7)	(15.1, 22.6)	(23.6, 38.5)	
	Always	(17.8, 22.1)	(31.6, 43.7)	(11.6, 18.5)	(8.8, 14.4)	(17.6, 29.9)	

		Census Region				
	Question	Total	Northeast	South	Midwest	West
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.					
	When the building has more than one story/floor	(7.8, 11.2)	(6.3, 13.5)	(7.2, 13.6)	(6.6, 12.3)	(5.0, 13.6)
	When there are enough firefighters on and at the scene of the fire	(29.6, 35.1)	(18.5, 29.1)	(31.1, 41.2)	(28.3, 37.6)	(29.3, 44.9)
	Whenever firefighters enter a burning building	(23.9, 29.1)	(23.3, 34.6)	(20.7, 29.9)	(18.5, 26.7)	(28.4, 44.2)
	Other	(3.8, 6.3)	(5.5, 12.6)	(1.4, 4.8)	(3.4, 7.6)	(2.3, 9.0)
	Legitimately Skipped Question	(46.4, 52.2)	(43.5, 56.0)	(45.3, 55.8)	(45.6, 55.5)	(34.5, 50.4)
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.					
	The structure fire may not be large enough to need an RIT/RIC	(32.1, 37.8)	(22.3, 33.4)	(29.1, 39.4)	(36.6, 46.7)	(27.3, 43.0)
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	(7.2, 10.8)	(2.8, 8.3)	(7.1, 13.9)	(8.6, 15.5)	(2.9, 13.1)
	We don't have enough firefighters available at the scene of the fire	(50.6, 56.5)	(27.3, 39.2)	(54.1, 64.5)	(58.5, 68.2)	(42.8, 58.9)
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	(18.3, 23.2)	(12.7, 22.4)	(13.4, 21.7)	(23.6, 33.0)	(13.3, 27.1)
	We have never established an RIT/RIC	(15.5, 20.1)	(7.7, 16.1)	(14.9, 23.5)	(21.4, 30.5)	(3.8, 13.3)
	We use other fire departments in the area for RITs/RICs	(26.6, 32.0)	(37.2, 49.6)	(18.4, 27.5)	(26.7, 36.2)	(12.0, 25.2)
	We use other safety practices and so we don't need them	(3.1, 5.7)	(0.9, 4.9)	(3.6, 9.2)	(2.8, 7.6)	(0.7, 8.7)
	Other	(3.1, 5.4)	(1.3, 5.6)	(1.7, 5.4)	(2.2, 6.3)	(6.0, 15.5)
	Legitimately Skipped Question	(18.1, 22.6)	(32.1, 44.2)	(11.9, 18.8)	(9.1, 14.9)	(17.5, 29.9)
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?					
	Yes	(76.2, 81.1)	(81.7, 90.5)	(67.5, 77.3)	(73.5, 82.1)	(74.9, 88.5)
	No	(18.9, 23.8)	(9.5, 18.3)	(22.7, 32.5)	(17.9, 26.5)	(11.5, 25.1)
					•	(continued)

B-37

		Census Region					
	Question	Total	Northeast	South	Midwest	West	
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?						
	Never	(4.9, 8.0)	(0.1, 2.9)	(6.7, 13.5)	(3.2, 8.0)	(5.9, 17.8)	
	Some of the time	(2.9, 5.3)	(0.7, 5.1)	(2.2, 6.9)	(4.5, 9.8)	(0.1, 4.7)	
	About half the time	(1.2, 2.8)	(0.2, 2.8)	(0.8, 4.2)	(1.6, 5.4)	(0.1, 5.0)	
	Most of the time	(10.9, 15.0)	(4.7, 11.1)	(10.5, 18.0)	(13.7, 21.5)	(5.6, 15.5)	
	Always	(72.5, 77.6)	(85.2, 92.8)	(65.6, 75.5)	(63.1, 72.6)	(70.6, 85.0)	
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.						
	They don't have a PASS device to use	(11.2, 15.4)	(3.7, 10.1)	(13.5, 22.0)	(10.6, 18.0)	(7.3, 19.8)	
	Situation doesn't require them	(7.9, 11.4)	(2.1, 7.0)	(7.1, 13.8)	(11.2, 18.5)	(3.2, 11.6)	
	Firefighters think the devices do not always work reliably	(0.1, 1.0)	(0.1, 2.0)	(**, **)	(0.2, 2.9)	(**, **)	
	Firefighters don't think they need them	(3.5, 5.9)	(2.3, 7.3)	(2.5, 6.7)	(3.8, 8.6)	(1.7, 8.5)	
	Devices go off while firefighters are resting	(2.7, 4.9)	(1.1, 5.0)	(1.3, 4.5)	(4.6, 9.9)	(0.6, 5.4)	
	Legitimately Skipped Question	(72.9, 78.0)	(85.1, 92.8)	(65.8, 75.7)	(63.8, 73.2)	(71.3, 85.6)	
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?						
	Yes	(98.4, 99.6)	(97.5, 99.9)	(99.8, 100.0)	(98.8, 100.0)	(89.4, 98.1)	
	No	(0.4, 1.6)	(0.1, 2.5)	(**, **)	(0.0, 1.2)	(1.9, 10.6)	
33.	Do your firefighters ever have to share facepieces for SCBAs?						
	Yes	(46.7, 52.7)	(37.5, 50.5)	(51.5, 62.0)	(46.3, 56.4)	(28.6, 45.3)	
	No	(46.5, 52.5)	(49.0, 61.9)	(38.0, 48.5)	(43.4, 53.5)	(50.1, 66.9)	
	Legitimately Skipped Question	(0.4, 1.6)	(0.1, 2.7)	(**, **)	(0.0, 1.3)	(1.9, 10.9)	

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		Census Region					
	Question	Total	Northeast	South	Midwest	West	
33a. What are th does not ha for all of you APPLY.	e reasons why your fire department ve personally-fitted SCBA facepieces ur firefighters? MARK ALL THAT						
Didn't know i	t was recommended	(3.5, 6.3)	(1.2, 6.9)	(4.1, 9.6)	(2.9, 7.7)	(1.3, 10.0)	
Firefighters d	on't like using the equipment	(0.1, 0.9)	(**, **)	(**, **)	(0.1, 2.3)	(0.1, 5.3)	
Have never n attacks)	eeded them (e.g., we don't do interior	(0.3, 1.5)	(0.1, 3.0)	(0.3, 3.4)	(0.1, 1.5)	(0.1, 5.3)	
They cost too budget	much, there is not enough money in the	(29.0, 34.7)	(20.0, 31.6)	(32.7, 43.2)	(27.9, 37.6)	(17.5, 32.9)	
We don't hav firefighters	e enough equipment for all of our	(22.0, 27.3)	(11.5, 21.0)	(21.7, 31.3)	(25.4, 35.1)	(15.5, 30.4)	
Shared syste	ms work fine for our needs	(20.9, 26.2)	(15.3, 26.1)	(21.7, 31.5)	(20.8, 29.7)	(11.6, 25.1)	
Other		(3.8, 6.5)	(4.6, 11.3)	(3.0, 7.5)	(2.7, 6.8)	(1.1, 9.7)	
Legitimately	Skipped Question	(47.4, 53.3)	(49.7, 62.7)	(38.1, 48.6)	(43.6, 53.7)	(54.6, 71.2)	
34. About how o use SCBAs v	often do you think your firefighters vhile fighting structure fires?						
Never		(0.6, 2.2)	(**, **)	(0.6, 4.2)	(0.2, 2.3)	(0.8, 9.3)	
Some of the	time	(3.6, 6.2)	(0.2, 3.4)	(3.9, 9.4)	(4.2, 9.6)	(1.6, 8.7)	
About half the	e time	(1.8, 3.9)	(**, **)	(1.3, 5.0)	(3.4, 8.5)	(0.2, 3.6)	
Most of the ti	me	(22.0, 27.2)	(17.4, 28.3)	(21.1, 30.7)	(22.9, 32.1)	(12.6, 26.4)	
Always		(63.3, 68.9)	(70.2, 81.3)	(58.7, 69.1)	(54.8, 64.8)	(60.7, 76.8)	
Legitimately	Skipped Question	(0.4, 1.6)	(0.1, 2.7)	(**, **)	(0.0, 1.3)	(1.9, 10.8)	

Exhibit B-2b.	Results from the Fire De	partment Survey,	Confidence Interval	Estimates by	/ Census Region	(continued)	
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		Ourses Destan					
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			T	Census Region	1	1	
	Question	Total	Northeast	South	Midwest	West	
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.						
	Situation doesn't require them	(23.3, 28.6)	(13.4, 23.6)	(23.2, 33.2)	(27.2, 36.9)	(13.8, 27.9)	
	Firefighters do not trust that the SCBAs will work reliably	(**, **)	(**, **)	(**, **)	(0.0, 2.0)	(**, **)	
	Firefighters don't think they need them	(8.6, 12.3)	(5.4, 12.8)	(8.3, 15.4)	(9.2, 16.0)	(3.6, 11.6)	
	Firefighters don't like sharing facepieces with others	(0.5, 1.8)	(**, **)	(0.3, 2.9)	(0.6, 3.4)	(0.4, 5.7)	
	Firefighters are concerned that the SCBA may be or become contaminated	(**, **)	(**, **)	(0.0, 1.6)	(**, **)	(**, **)	
	Wearing SCBAs makes it more difficult to work	(4.6, 7.5)	(1.9, 6.8)	(4.2, 9.7)	(5.6, 11.2)	(1.7, 7.8)	
	Firefighters don't have SCBAs to use	(2.8, 5.4)	(0.9, 5.1)	(1.8, 6.2)	(3.7, 8.9)	(1.4, 10.2)	
	Legitimately Skipped Question	(64.9, 70.5)	(71.6, 82.6)	(59.5, 69.9)	(56.1, 66.1)	(65.7, 81.0)	
36.	How often is routine maintenance performed on your SCBAs?						
	After every time they are used	(39.7, 46.3)	(35.6, 50.0)	(38.1, 49.6)	(40.5, 51.9)	(26.3, 43.4)	
	Once a month or more	(16.5, 21.7)	(22.2, 35.5)	(13.8, 22.6)	(12.7, 21.3)	(7.3, 19.7)	
	Several times a year	(12.8, 17.5)	(7.9, 17.2)	(10.7, 19.0)	(13.4, 22.0)	(11.0, 24.7)	
	Once a year	(14.1, 19.1)	(10.6, 21.1)	(14.9, 24.0)	(9.2, 16.6)	(13.9, 29.2)	
	Less than once a year	(3.1, 5.9)	(0.3, 4.8)	(2.3, 7.3)	(3.2, 8.8)	(3.4, 13.3)	
	Never. Maintenance has not been done on our SCBAs.	(0.8, 2.5)	(**, **)	(0.2, 2.7)	(0.8, 4.2)	(1.3, 11.0)	
	Does not apply. My department does not have SCBAs.	(**, **)	(**, **)	(**, **)	(**, **)	(**, **)	
	Legitimately Skipped Question	(0.5, 2.0)	(0.2, 3.4)	(**, **)	(0.1, 1.6)	(2.3, 12.7)	
37.	How many						
	Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?						
	Greater than zero	(15 5 10 9)	(14 9 25 0)	(13 / 21 0)	(14 6 21 0)	(10.5.20.6)	
		(13.3, 17.0)	(75 0 25 1)	(13.4, 21.0)	$(78.1 \ 95.4)$	(10.3, 20.0) (70.4, 90.5)	
		(00.2, 04.3)	(13.0, 53.1)	(17.0, 00.0)	(70.1, 05.4)	(17.4,07.3)	

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

				Census Region		
	Question	Total	Northeast	South	Midwest	West
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.					
	CBRN SCBA devices are not needed in our department	(18.5, 23.6)	(13.5, 23.8)	(16.0, 25.2)	(18.8, 27.8)	(16.3, 31.1)
	We didn't know they were available	(12.9, 17.5)	(9.6, 19.2)	(11.1, 19.2)	(12.3, 20.2)	(10.7, 24.1)
	We don't have adequate technical information to purchase them	(17.3, 22.3)	(14.0, 24.7)	(11.6, 19.8)	(18.5, 27.4)	(18.4, 34.4)
	We don't have adequate funding to purchase them	(57.2, 63.2)	(50.8, 64.0)	(57.8, 68.5)	(53.9, 64.1)	(51.4, 67.6)
	Other	(3.7, 6.4)	(2.4, 7.7)	(2.9, 7.8)	(2.2, 5.9)	(5.3, 15.7)
	Legitimately Skipped Question	(16.2, 20.6)	(15.5, 26.0)	(14.1, 22.0)	(15.3, 23.0)	(10.5, 20.6)
38.	Does your fire department have Automated External Defibrillators (AEDs)?					
	Yes	(74.8, 79.9)	(72.3, 83.1)	(69.4, 78.9)	(74.7, 83.0)	(72.2, 86.1)
	No	(20.1, 25.2)	(16.9, 27.7)	(21.1, 30.6)	(17.0, 25.3)	(13.9, 27.8)
38a.	At your fire department, where do you have AEDs?					
	At the fire station(s)	(1.9, 4.1)	(1.5, 7.0)	(1.6, 5.8)	(1.1, 4.9)	(0.8, 6.2)
	On the emergency vehicles (or apparatus)	(58.9, 64.9)	(52.9, 66.2)	(56.1, 66.8)	(59.8, 69.8)	(50.9, 67.8)
	Both at the fire station(s) and on the vehicles (or apparatus)	(8.7, 12.3)	(8.7, 17.4)	(5.5, 11.7)	(6.9, 12.9)	(10.6, 21.8)
	Legitimately Skipped Question	(22.2, 27.7)	(19.1, 31.0)	(22.6, 32.5)	(19.0, 28.0)	(15.9, 31.4)
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?					
	After every time they are used	(11.7, 16.4)	(10.2, 20.4)	(11.0, 19.7)	(8.7, 16.4)	(9.4, 21.1)
	Once a month or more	(22.6, 28.5)	(18.9, 31.4)	(17.4, 27.5)	(23.7, 34.4)	(20.9, 37.4)
	Several times a year	(18.0, 23.4)	(15.1, 26.9)	(14.9, 24.0)	(15.5, 25.1)	(19.0, 35.7)
	Once a year	(19.6, 25.3)	(17.5, 29.8)	(20.0, 30.3)	(16.8, 26.2)	(10.9, 25.9)
	Less frequently than once a year	(5.8, 9.5)	(2.9, 9.5)	(4.7, 11.3)	(6.4, 13.5)	(3.1, 14.6)
	Never. Maintenance on our AEDs has not been done.	(8.4, 12.8)	(7.8, 17.9)	(8.3, 16.8)	(6.0, 12.8)	(3.0, 14.8)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

				Census Region		
	Question	Total	Northeast	South	Midwest	West
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?					
	Never	(1.0, 2.6)	(1.4, 5.9)	(0.2, 2.6)	(0.9, 4.2)	(0.3, 5.1)
	Some of the time	(3.6, 6.1)	(4.8, 11.7)	(0.6, 3.6)	(4.3, 9.2)	(1.7, 9.9)
	About half the time	(1.8, 3.8)	(0.4, 3.6)	(1.7, 5.9)	(1.6, 5.2)	(1.1, 7.6)
	Most of the time	(18.3, 23.1)	(17.3, 27.9)	(14.0, 22.1)	(20.1, 28.9)	(11.8, 23.8)
	Always	(67.7, 73.0)	(60.0, 71.9)	(72.1, 81.1)	(59.6, 69.3)	(66.9, 81.0)
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?					
	Never	(15.9, 20.4)	(11.1, 20.1)	(14.2, 22.2)	(16.5, 24.7)	(12.7, 25.7)
	Some of the time	(61.6, 67.3)	(62.3, 74.1)	(58.3, 68.5)	(58.3, 67.9)	(55.0, 70.7)
	About half the time	(8.6, 12.2)	(7.1, 15.1)	(7.0, 13.5)	(7.7, 14.0)	(7.0, 16.9)
	Most of the time	(4.2, 6.9)	(1.9, 6.5)	(4.6, 10.3)	(3.0, 7.3)	(2.9, 11.9)
	Always	(1.1, 2.9)	(1.1, 5.9)	(0.8, 4.2)	(0.6, 3.3)	(0.4, 5.6)

Exhibit B-2D. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (Continu	Exhibit B-2b.	Results from the Fire Department Survey	y, Confidence Interval	Estimates by Census	Region (continued
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				Census Region	1	
	Question	Total	Northeast	South	Midwest	West
42.	How would you rate your department's budget in the following areas?					
42a.	Equipment					
	Not adequate	(45.7, 51.6)	(34.2, 46.6)	(43.8, 54.3)	(48.3, 58.2)	(42.8, 58.8)
	Adequate	(42.8, 48.6)	(45.5, 58.2)	(39.8, 50.3)	(37.4, 47.2)	(37.1, 53.1)
	More than adequate	(4.5, 7.2)	(5.0, 12.2)	(4.0, 8.9)	(2.9, 7.0)	(2.3, 7.5)
42b.	Training					
	Not adequate	(36.3, 42.0)	(22.1, 32.9)	(34.0, 44.3)	(39.9, 49.9)	(38.5, 54.7)
	Adequate	(52.7, 58.6)	(58.4, 70.4)	(50.0, 60.6)	(46.2, 56.2)	(43.1, 59.3)
	More than adequate	(4.0, 6.8)	(5.1, 12.9)	(3.6, 8.6)	(2.4, 6.2)	(0.9, 5.4)
42c.	Personnel					
	Not adequate	(48.5, 54.5)	(37.8, 50.8)	(49.2, 60.1)	(42.7, 52.8)	(56.3, 71.9)
	Adequate	(41.3, 47.3)	(44.6, 57.8)	(34.8, 45.5)	(43.3, 53.4)	(26.6, 42.1)
	More than adequate	(3.1, 5.7)	(2.3, 8.8)	(3.2, 8.4)	(2.4, 6.5)	(0.6, 4.3)
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety					
	reports.					
	Never	(24.2, 29.5)	(16.8, 27.4)	(25.5, 35.4)	(24.6, 33.8)	(15.1, 29.3)
	One or two times per year	(31.6, 37.2)	(25.8, 37.4)	(30.0, 40.1)	(33.5, 43.2)	(22.3, 36.1)
	Several times per year	(30.5, 35.9)	(34.8, 47.3)	(24.9, 34.2)	(24.3, 33.0)	(33.8, 49.4)
	Unce a month of more	(4.5, 7.2)	(3.7, 10.1)	(3.7, 8.5)	(2.7, 0.0)	(4.8, 15.0)

				Census Region		
	Question	Total	Northeast	South	Midwest	West
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.					
	By mail	(53.1, 58.9)	(52.4, 64.8)	(47.3, 57.9)	(52.1, 62.0)	(49.5, 65.5)
	On the Internet	(22.4, 27.1)	(22.5, 33.6)	(18.5, 26.8)	(18.0, 25.9)	(26.0, 40.2)
	From colleagues in other departments	(8.3, 11.8)	(9.0, 17.4)	(8.7, 15.7)	(4.1, 8.8)	(6.3, 14.7)
	At conferences or other meetings	(5.7, 8.5)	(4.1, 10.1)	(4.8, 10.1)	(4.3, 8.8)	(6.2, 14.2)
	Legitimately Skipped Question	(24.2, 29.5)	(16.7, 27.4)	(25.3, 35.2)	(24.7, 33.9)	(15.3, 29.6)
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?					
	Yes	(50.4, 56.2)	(51.3, 63.9)	(44.6, 55.0)	(45.7, 55.6)	(53.5, 69.2)
	No	(17.8, 22.5)	(15.9, 26.0)	(16.4, 25.2)	(16.5, 24.7)	(12.2, 24.0)
	Legitimately Skipped Question	(24.1, 29.4)	(16.9, 27.6)	(25.1, 34.9)	(24.6, 33.8)	(14.8, 28.9)
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?					
	Yes	(57.7, 63.5)	(57.7, 70.0)	(53.1, 63.7)	(54.2, 64.1)	(55.5, 71.6)
	No	(10.2, 14.1)	(10.2, 19.0)	(8.0, 14.7)	(8.4, 14.8)	(9.1, 20.7)
	Legitimately Skipped Question	(24.7, 30.0)	(17.0, 27.8)	(25.8, 35.9)	(25.1, 34.5)	(15.7, 30.3)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

				Census Region	1	
	Question	Total	Northeast	South	Midwest	West
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.					
	Regular staff meetings	(21.1, 26.1)	(19.0, 30.1)	(19.8, 28.9)	(21.6, 30.4)	(10.4, 22.5)
	Training sessions	(41.3, 47.2)	(37.8, 50.5)	(41.9, 52.4)	(34.5, 44.3)	(40.5, 56.6)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(13.1, 22.8)	(10.1, 16.7)	(14.5, 21.7)	(13.3, 25.2)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(4.4, 11.0)	(3.4, 8.0)	(4.2, 8.7)	(4.6, 12.6)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(0.8, 4.4)	(1.2, 4.4)	(0.3, 2.2)	(1.0, 6.4)
	Postings on bulletin boards	(35.6, 41.3)	(45.7, 58.5)	(27.5, 37.2)	(32.7, 42.3)	(26.8, 41.8)
	Post report on the department website	(0.7, 1.8)	(0.7, 4.3)	(0.4, 2.3)	(0.2, 1.8)	(0.9, 4.3)
	Send message to firefighters by email	(4.3, 6.5)	(1.5, 5.9)	(3.3, 7.1)	(2.2, 5.4)	(11.1, 20.8)
	Other	(0.8, 2.0)	(0.2, 2.5)	(0.7, 3.5)	(0.4, 2.7)	(0.9, 3.8)
	Legitimately Skipped Question	(36.2, 42.0)	(30.1, 42.5)	(36.0, 46.4)	(35.5, 45.4)	(28.3, 44.2)
51.	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?					
	Yes	(31.6, 36.9)	(34.8, 47.1)	(27.8, 37.4)	(28.1, 37.2)	(25.0, 39.0)
	No	(35.5, 41.3)	(31.3, 43.8)	(31.5, 41.9)	(32.7, 42.6)	(38.8, 55.1)
	Legitimately Skipped Question	(24.8, 30.2)	(16.9, 27.7)	(26.2, 36.3)	(25.5, 35.0)	(15.3, 29.6)
						(continued)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

9.6) d)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

				Census Region	1	
	Question	Total	Northeast	South	Midwest	West
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	(0.2, 1.1)	(**, **)	(0.2, 2.8)	(0.0, 0.6)	(0.6, 4.3)
	Disagree	(2.6, 4.8)	(2.6, 8.2)	(1.6, 5.5)	(1.7, 5.1)	(2.3, 8.8)
	Neither Agree nor Disagree	(16.5, 21.2)	(11.0, 20.0)	(13.2, 21.6)	(17.3, 25.7)	(17.8, 31.7)
	Agree	(42.7, 48.6)	(46.1, 58.8)	(39.4, 50.0)	(37.0, 47.0)	(36.7, 53.0)
	Strongly Agree	(2.7, 5.0)	(3.4, 9.9)	(1.8, 5.4)	(1.9, 5.6)	(0.5, 8.7)
	Legitimately Skipped Question	(25.3, 30.8)	(17.0, 27.7)	(26.7, 36.9)	(25.9, 35.5)	(16.3, 31.3)
52b.	Recommendations are easy to understand					
	Strongly Disagree	(0.2, 1.0)	(**, **)	(0.2, 2.8)	(**, **)	(0.5, 4.1)
	Disagree	(1.1, 2.6)	(0.7, 4.4)	(0.8, 3.7)	(0.9, 3.9)	(0.3, 4.2)
	Neither Agree nor Disagree	(17.5, 22.3)	(14.0, 23.7)	(13.9, 22.5)	(17.8, 26.3)	(17.0, 30.5)
	Agree	(42.4, 48.4)	(43.9, 56.6)	(39.0, 49.7)	(36.7, 46.6)	(40.5, 57.0)
	Strongly Agree	(3.5, 6.1)	(4.8, 12.0)	(2.1, 6.0)	(2.6, 6.9)	(0.8, 8.5)
	Legitimately Skipped Question	(25.4, 30.9)	(17.0, 27.7)	(26.9, 37.2)	(26.0, 35.6)	(16.4, 31.5)
52c.	Recommendations are specific and concrete					
	Strongly Disagree	(0.2, 1.0)	(0.0, 0.8)	(0.2, 2.7)	(**, **)	(0.3, 2.7)
	Disagree	(2.3, 4.4)	(1.5, 6.2)	(1.4, 4.9)	(2.1, 5.9)	(2.0, 8.1)
	Neither Agree nor Disagree	(24.0, 29.4)	(21.8, 33.0)	(19.5, 28.8)	(24.5, 33.8)	(21.2, 35.7)
	Agree	(35.0, 40.8)	(36.6, 49.2)	(32.1, 42.3)	(29.1, 38.7)	(33.5, 49.7)
	Strongly Agree	(2.8, 5.2)	(2.8, 8.7)	(2.6, 6.7)	(1.7, 5.4)	(0.8, 8.7)
	Legitimately Skipped Question	(25.4, 30.8)	(17.0, 27.8)	(26.7, 36.9)	(26.0, 35.6)	(16.4, 31.5)

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

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				Census Region		
	Question	Total	Northeast	South	Midwest	West
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.					
	Pocket guide to chemical hazards	(54.4, 60.4)	(60.4, 72.7)	(46.9, 57.7)	(49.5, 59.7)	(52.6, 68.8)
	Respirator maintenance program guide	(11.9, 15.9)	(12.8, 22.2)	(9.9, 17.0)	(10.8, 17.8)	(6.4, 14.7)
	CDs of firefighter program materials	(25.4, 30.7)	(25.6, 37.5)	(21.9, 31.3)	(23.0, 32.2)	(21.4, 36.0)
	Alerts	(29.1, 34.5)	(32.7, 45.2)	(25.3, 34.7)	(23.0, 31.9)	(27.9, 42.6)
	Hazard IDs	(14.5, 19.0)	(15.1, 25.5)	(10.7, 18.3)	(13.4, 21.0)	(11.9, 23.9)
	Workplace Solutions	(10.7, 14.6)	(11.1, 20.5)	(8.3, 15.1)	(7.8, 13.8)	(11.0, 22.3)
	Other	(0.4, 1.4)	(**, **)	(0.3, 2.5)	(0.5, 3.0)	(0.2, 3.1)
	None. I have not seen any NIOSH materials.	(22.6, 27.9)	(13.7, 23.9)	(23.5, 33.5)	(23.6, 33.1)	(16.0, 30.4)
53a.	How satisfied or dissatisfied are you with these NIOSH materials?					
	Very dissatisfied	(0.8, 2.2)	(1.1, 6.1)	(0.1, 1.2)	(0.4, 2.6)	(1.0, 5.8)
	Dissatisfied	(0.0, 0.7)	(0.1, 3.0)	(**, **)	(0.0, 2.0)	(**, **)
	Neither satisfied nor dissatisfied	(18.8, 23.8)	(16.1, 26.6)	(14.1, 22.6)	(18.8, 27.4)	(19.8, 34.1)
	Satisfied	(44.1, 50.1)	(46.6, 59.5)	(42.7, 53.5)	(38.4, 48.6)	(35.1, 51.1)
	Very satisfied	(4.0, 6.7)	(2.8, 8.4)	(3.2, 8.1)	(3.1, 7.4)	(3.6, 12.1)
	Legitimately Skipped Question	(22.4, 27.7)	(13.6, 23.7)	(23.7, 33.7)	(23.1, 32.5)	(15.4, 29.6)
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?					
	No	(56.5, 62.2)	(50.0, 62.4)	(52.6, 63.0)	(59.5, 68.9)	(48.9, 64.4)
	Yes, in the last year	(31.9, 37.3)	(31.8, 43.9)	(29.4, 39.3)	(27.2, 36.3)	(29.9, 44.8)
	Yes, longer than one year ago	(4.9, 7.6)	(3.7, 9.6)	(5.6, 11.2)	(2.6, 6.4)	(3.5, 10.7)

Exhibit B-2b. Results from the Fire Department Survey, Confidence Interval Estimates by Census Region (continued)

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

				Census Regior	1	
	Question	Total	Northeast	South	Midwest	West
1.	Does your department have a Safety Officer?					
		1,587	325	514	515	233
		1,587	325	514	515	233
2 es	Does your department have a Training Officer?					
No		1,600	330	517	519	234
		1,600	330	517	519	234
S €s No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.					
	Incident Command Systems	1,600	330	521	515	234
	Maintenance of SCBAs	1,600	330	521	515	234
	Motor vehicle safety	1,600	330	521	515	234
	Participation in a personal physical fitness program	1,600	330	521	515	234
	Participation in regular health screenings for cardiovascular disease (CVD)	1,600	330	521	515	234
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	1,600	330	521	515	234
	Use of Personal Alert Safety System (PASS) devices	1,600	330	521	515	234
	Use of personal protective equipment and protective clothing	1,600	330	521	515	234
	Use of radio communications	1,600	330	521	515	234
		1,600	330	521	515	234
Othe	Does not apply. Our fire department does not use r SOPs/SOGs.	1,600	330	521	515	234

				Census Region		
	Question	Total	Northeast	South	Midwest	West
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?					
4a.	Fighting structure fires					
	No Training	1,607	333	520	520	234
	Optional Training	1,607	333	520	520	234
	Required Training	1,607	333	520	520	234
4b.	Driving safety					
	No Training	1,598	332	521	512	233
	Optional Training	1,598	332	521	512	233
	Required Training	1,598	332	521	512	233
4c.	Incident Command systems					
	No Training	1,584	330	512	510	232
	Optional Training	1,584	330	512	510	232
	Required Training	1,584	330	512	510	232
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)					
	No Training	1,581	330	506	513	232
	Optional Training	1,581	330	506	513	232
	Required Training	1,581	330	506	513	232
4e.	Rapid Intervention Teams (RITs)					
	No Training	1,511	321	485	477	228
	Optional Training	1,511	321	485	477	228
	Required Training	1,511	321	485	477	228

			(Census Regio	า	
	Question	Total	Northeast	South	Midwest	West
4f.	Use of personal protective equipment and/or protective clothing					
	No Training	1,611	333	522	521	235
	Optional Training	1,611	333	522	521	235
	Required Training	1,611	333	522	521	235
4g.	Use of radio communication devices					
	No Training	1,606	333	520	518	235
	Optional Training	1,606	333	520	518	235
	Required Training	1,606	333	520	518	235
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.					
	Our department's Training Officer	1,611	333	521	522	235
	Other officers within our department	1,611	333	521	522	235
	State fire training agency	1,611	333	521	522	235
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	1,611	333	521	522	235
	Conferences or regional meetings	1,611	333	521	522	235
		1,611	333	521	522	235
6. Othe	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.					
	Roadside incidents/Motor Vehicle Accidents (MVA)	1,622	333	525	526	238
	Scuba diving	1,622	333	525	526	238
	Swift water rescue	1,622	333	525	526	238
	Wildland fire fighting	1,622	333	525	526	238
	HAZMAT	1,622	333	525	526	238
		1,622	333	525	526	238

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(continued)

Other

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

				Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?					
	Not at all familiar	1,610	332	524	521	233
	Not very familiar	1,610	332	524	521	233
	Somewhat familiar	1,610	332	524	521	233
	Very familiar	1,610	332	524	521	233
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?					
	Not at all familiar	1,611	331	522	525	233
	Not very familiar	1,611	331	522	525	233
	Somewhat familiar	1,611	331	522	525	233
	Very familiar	1,611	331	522	525	233
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.					
	NIOSH mailings	1,609	331	522	522	234
	National conference presentations	1,609	331	522	522	234
	State-level conference presentations	1,609	331	522	522	234
	Other firefighters or departments	1,609	331	522	522	234
	At seminars or other training opportunities (not conferences)	1,609	331	522	522	234
	Trade publications (such as Firehouse and Fire Engineering)	1,609	331	522	522	234
	NIOSH website	1,609	331	522	522	234
	Links from other websites (such as NFPA and Firehouse)	1,609	331	522	522	234
	Media reports-newspaper, television, radio	1,609	331	522	522	234
		1,609	331	522	522	234
∩tha	Does not apply. We have not received information ar about NIOSH recommendations.	1,609	331	522	522	234

Exhibit B-2c. Results from the Fire Department Survey, Sample Sizes by Census Region (continued)

Exhibit B-2c.	Results from the I	ire Department Survey	, Sample Sizes by	Census Region (continued)
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				Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.					
	Made changes to training program	1,536	316	496	494	230
	Developed new SOPs/SOGs	1,536	316	496	494	230
	Made changes to SOPs/SOGs	1,536	316	496	494	230
	Justified current budget/staffing	1,536	316	496	494	230
	Made new budget/staffing requests	1,536	316	496	494	230
	Justified grant applications	1,536	316	496	494	230
	Does not apply. We have not used NIOSH recommendations.	1,536	316	496	494	230
	Legitimately Skipped Question	1,536	316	496	494	230
115	. Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.					
	Traffic hazards	1,530	314	494	497	225
	Personal protective equipment and clothing	1,530	314	494	497	225
	SCBA	1,530	314	494	497	225
	PASS systems	1,530	314	494	497	225
	Incident Command systems	1,530	314	494	497	225
	Radio communications	1,530	314	494	497	225
	Physical fitness and cardiovascular disease (CVD)	1,530	314	494	497	225
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	314	494	497	225
		1,530	314	494	497	225
	Does not apply. We have not used NIOSH	1,530	314	494	497	225
Othe	r recommendations for training purposes.					
	Legitimately Skipped Question	1,530	314	494	497	225

				Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?					
		1,596	330	518	519	229
	Yes, it's required	1,596	330	518	519	229
No	Yes, it's optional	1,596	330	518	519	229
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?					
	One time, when they first join the department	1,582	326	509	519	228
	Less frequently than once a year	1,582	326	509	519	228
	One time a year	1,582	326	509	519	228
	More than one time a year	1,582	326	509	519	228
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	326	509	519	228
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.					
		1,616	332	523	524	237
	Yes, they receive training required by the department	1,616	332	523	524	237
No	Yes, they receive training required by the state	1,616	332	523	524	237
	Yes, they receive optional training	1,616	332	523	524	237
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?					
	Two or more times a year	1,611	330	520	524	237
	Once every year	1,611	330	520	524	237
	Less frequently than once a year	1,611	330	520	524	237
	Does not apply. Firefighters are not required to receive continuing driver training.	1,611	330	520	524	237
						(continued)

Exhibit B-2c.	Results from the Fire	Department Survey,	Sample Sizes by	Census Region	(continued)
					· · · · · · · · · · · · · · · · · · ·

				Census Regior	ı	
	Question	Total	Northeast	South	Midwest	West
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?					
	Yes	1,613	331	523	522	237
		1,613	331	523	522	237
17. No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?					
	Strongly disagree	1,603	331	518	520	234
	Disagree	1,603	331	518	520	234
	Neither agree nor disagree	1,603	331	518	520	234
	Agree	1,603	331	518	520	234
	Strongly agree	1,603	331	518	520	234
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
	Never	1,616	331	523	525	237
	Some of the time	1,616	331	523	525	237
	About half the time	1,616	331	523	525	237
	Most of the time	1,616	331	523	525	237
	Always	1,616	331	523	525	237
21.	How often is Incident Command established when responding to structure fires?					
		1,604	332	518	523	231
	Rarely	1,604	332	518	523	231
Neve	erAbout half the time	1,604	332	518	523	231
	Most of the time	1,604	332	518	523	231
	Always	1,604	332	518	523	231

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

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				Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.					
	Fires are not usually big enough to require an Incident Commander	1,600	332	518	520	230
	Not enough firefighters available at the scene of the fire	1,600	332	518	520	230
		1,600	332	518	520	230
Othe	Does not apply. My department always assigns an r Incident Commander for structure fires.	1,600	332	518	520	230
othe	Legitimately Skipped Question	1,600	332	518	520	230
	structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.	1 500	207	E1 2	515	222
	Conduct an initial assessment before the other firefighters begin entering the building	1,588	327	513	515	233
	Develop and coordinate the fire attack strategy	1,588	327	513	515	233
	Develop and initiate a risk management plan	1,588	327	513	515	233
	Document all assessments, plans and events related to the fire	1,588	327	513	515	233
	Ensure that at least four (4) firefighters are on the scene before entering the building	1,588	327	513	515	233
	Establish a collapse zone around the building	1,588	327	513	515	233
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	1,588	327	513	515	233
	Identify and implement a communication strategy	1,588	327	513	515	233
	Monitor location of all firefighters at the scene	1,588	327	513	515	233
	-	1,588	327	513	515	233
			· · · · · ·			(continued)

Exhibit B-2c. Results from the Fire Department Survey, Sample Sizes by Census Region (continued)

Other

				Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?					
		1,605	331	517	522	235
	Some of the time	1,605	331	517	522	235
Neve	rAbout half the time	1,605	331	517	522	235
	Most of the time	1,605	331	517	522	235
	Always	1,605	331	517	522	235
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.					
	Fires are not big enough to require an Incident Safety Officer	1,588	322	516	516	234
	Not enough firefighters are available at the scene of the fire	1,588	322	516	516	234
		1,588	322	516	516	234
Othe	Does not apply. Our Incident Commanders always r assign an Incident Safety Officer for structure fires.	1,588	322	516	516	234
00	Legitimately Skipped Question	1,588	322	516	516	234
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?					
		1,602	331	518	518	235
	Some of the time	1,602	331	518	518	235
Neve	rAbout half the time	1,602	331	518	518	235
	Most of the time	1,602	331	518	518	235
	Always	1,602	331	518	518	235

			Census Regio	n	
Question	Total	Northeast	South	Midwest	West
27. In what situations are RITs/RICs established? MARK ALL THAT APPLY.					
When the building has more than one story/floor	1,600	330	517	518	235
When there are enough firefighters on and at the scer of the fire	ne 1,600	330	517	518	235
Whenever firefighters enter a burning building	1,600	330	517	518	235
	1,600	330	517	518	235
Legitimately Skipped Question	1,600	330	517	518	235
28 her What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.					
The structure fire may not be large enough to need ar RIT/RIC	n 1,575	329	508	505	233
We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	1,575	329	508	505	233
We don't have enough firefighters available at the scene of the fire	1,575	329	508	505	233
We don't have enough training or trained personnel a the scene to establish an RIT/RIC	t 1,575	329	508	505	233
We have never established an RIT/RIC	1,575	329	508	505	233
We use other fire departments in the area for RITs/RI	Cs 1,575	329	508	505	233
We use other safety practices and so we don't need them	1,575	329	508	505	233
	1,575	329	508	505	233
Legitimately Skipped Question	1,575	329	508	505	233
29 her Does your fire department have enough Persona Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires	ıl 7				
Yes	1,606	330	520	520	236
	1,606	330	520	520	236

236 (continued)

No

				<u> </u>		
				Census Regior	1	
	Question	Total	Northeast	South	Midwest	West
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?					
	Never	1,600	329	514	521	236
	Some of the time	1,600	329	514	521	236
	About half the time	1,600	329	514	521	236
	Most of the time	1,600	329	514	521	236
	Always	1,600	329	514	521	236
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.					
	They don't have a PASS device to use	1,590	329	511	516	234
	Situation doesn't require them	1,590	329	511	516	234
	Firefighters think the devices do not always work reliably	1,590	329	511	516	234
	Firefighters don't think they need them	1,590	329	511	516	234
	Devices go off while firefighters are resting	1,590	329	511	516	234
	Legitimately Skipped Question	1,590	329	511	516	234
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?					
	Yes	1,606	330	522	522	232
		1,606	330	522	522	232
33. No	Do your firefighters ever have to share facepieces for SCBAs?					
	Yes	1,521	309	497	497	218
		1,521	309	497	497	218
	Legitimately Skipped Question	1,521	309	497	497	218

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No

			Census Region	1	
Question	Total	Northeast	South	Midwest	West
33a. What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.					
Didn't know it was recommended	1,517	310	494	495	218
Firefighters don't like using the equipment	1,517	310	494	495	218
Have never needed them (e.g., we don't do interior attacks)	1,517	310	494	495	218
They cost too much, there is not enough money in the budget	1,517	310	494	495	218
We don't have enough equipment for all of our firefighters	1,517	310	494	495	218
Shared systems work fine for our needs	1,517	310	494	495	218
	1,517	310	494	495	218
Legitimately Skipped Question	1,517	310	494	495	218
Ba her About how often do you think your firefighters use SCBAs while fighting structure fires?					
	1,536	313	501	502	220
Some of the time	1,536	313	501	502	220
NeverAbout half the time	1,536	313	501	502	220
Most of the time	1,536	313	501	502	220
Always	1,536	313	501	502	220
Legitimately Skipped Question	1,536	313	501	502	220

		Census Region						
	Question	Total	Northeast	South	Midwest	West		
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.							
	Situation doesn't require them	1,525	311	497	497	220		
	Firefighters do not trust that the SCBAs will work reliably	1,525	311	497	497	220		
	Firefighters don't think they need them	1,525	311	497	497	220		
	Firefighters don't like sharing facepieces with others	1,525	311	497	497	220		
	Firefighters are concerned that the SCBA may be or become contaminated	1,525	311	497	497	220		
	Wearing SCBAs makes it more difficult to work	1,525	311	497	497	220		
	Firefighters don't have SCBAs to use	1,525	311	497	497	220		
	Legitimately Skipped Question	1,525	311	497	497	220		
36.	How often is routine maintenance performed on your SCBAs?							
	After every time they are used	1,270	250	429	408	183		
	Once a month or more	1,270	250	429	408	183		
	Several times a year	1,270	250	429	408	183		
	Once a year	1,270	250	429	408	183		
	Less than once a year	1,270	250	429	408	183		
	Never. Maintenance has not been done on our SCBAs.	1,270	250	429	408	183		
	Does not apply. My department does not have SCBAs.	1,270	250	429	408	183		
	Legitimately Skipped Question	1,270	250	429	408	183		

Legitimately Skipped Question 1,270 250 429 37. How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time? Greater than zero 1,518 317 491 1,518 317 491

Zero

215 (continued)

495

495

215

				Census Regio	ı	
	Question	Total	Northeast	South	Midwest	West
37a	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.					
	CBRN SCBA devices are not needed in our department	1,454	301	461	477	215
	We didn't know they were available	1,454	301	461	477	215
	We don't have adequate technical information to purchase them	1,454	301	461	477	215
	We don't have adequate funding to purchase them	1,454	301	461	477	215
		1,454	301	461	477	215
	Legitimately Skipped Question	1,454	301	461	477	215
38 n∈	r Does your fire department have Automated External Defibrillators (AEDs)?					
	Yes	1,610	330	521	524	235
		1,610	330	521	524	235
38a No	. At your fire department, where do you have AEDs?					
	At the fire station(s)	1,424	284	472	465	203
	On the emergency vehicles (or apparatus)	1,424	284	472	465	203
	Both at the fire station(s) and on the vehicles (or apparatus)	1,424	284	472	465	203
	Legitimately Skipped Question	1,424	284	472	465	203
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?					
	After every time they are used	1,235	258	411	388	178
	Once a month or more	1,235	258	411	388	178
	Several times a year	1,235	258	411	388	178
	Once a year	1,235	258	411	388	178
	Less frequently than once a year	1,235	258	411	388	178
	Never. Maintenance on our AEDs has not been done.	1,235	258	411	388	178
						(continued)

		Census Region						
	Question	Total	Northeast	South	Midwest	West		
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?							
		1,610	331	520	524	235		
	Some of the time	1,610	331	520	524	235		
Neve	erAbout half the time	1,610	331	520	524	235		
	Most of the time	1,610	331	520	524	235		
	Always	1,610	331	520	524	235		
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?							
		1,612	331	523	522	236		
	Some of the time	1,612	331	523	522	236		
Veve	erAbout half the time	1,612	331	523	522	236		
	Most of the time	1,612	331	523	522	236		
	Always	1,612	331	523	522	236		

			Census Region		
Question	Total	Northeast	South	Midwest	West
42. How would you rate your department's budget in the following areas?					
42a. Equipment					
Not adequate	1,608	328	521	523	236
Adequate	1,608	328	521	523	236
More than adequate	1,608	328	521	523	236
42b. Training					
Not adequate	1,608	330	521	521	236
Adequate	1,608	330	521	521	236
More than adequate	1,608	330	521	521	236
42c. Personnel					
Not adequate	1,551	306	499	512	234
Adequate	1,551	306	499	512	234
More than adequate	1,551	306	499	512	234
43. How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.					
	1,605	329	517	524	235
One or two times per year	1,605	329	517	524	235
NeverSeveral times per year	1,605	329	517	524	235
Once a month or more	1,605	329	517	524	235

			(Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.					
	By mail	1,605	328	521	522	234
	On the Internet	1,605	328	521	522	234
	From colleagues in other departments	1,605	328	521	522	234
	At conferences or other meetings	1,605	328	521	522	234
	Legitimately Skipped Question	1,605	328	521	522	234
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?					
		1,611	328	524	522	237
		1,611	328	524	522	237
Yes	Legitimately Skipped Question	1,611	328	524	522	237
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?					
	Yes	1,583	324	512	516	231
		1,583	324	512	516	231
	Legitimately Skipped Question	1,583	324	512	516	231

No

	Census Region					
Question	Total	Northeast	South	Midwest	West	
50a. How is this information disseminated to firefighters? MARK ALL THAT APPLY.						
Regular staff meetings	1,585	321	515	517	232	
Training sessions	1,585	321	515	517	232	
Provide copies of NIOSH reports to firefighters	1,585	321	515	517	232	
Provide copies of NIOSH report summaries to firefighters	1,585	321	515	517	232	
Provide summaries prepared by department to firefighters	1,585	321	515	517	232	
Postings on bulletin boards	1,585	321	515	517	232	
Post report on the department website	1,585	321	515	517	232	
Send message to firefighters by email	1,585	321	515	517	232	
	1,585	321	515	517	232	
Legitimately Skipped Question	1,585	321	515	517	232	
ther The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?						
	1,564	322	504	507	231	
	1,564	322	504	507	231	
es Legitimately Skipped Question	1,564	322	504	507	231	

No

(continued)

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			(Census Regio	n	
	Question	Total	Northeast	South	Midwest	West
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	1,547	323	500	502	222
	Disagree	1,547	323	500	502	222
	Neither Agree nor Disagree	1,547	323	500	502	222
	Agree	1,547	323	500	502	222
	Strongly Agree	1,547	323	500	502	222
	Legitimately Skipped Question	1,547	323	500	502	222
52b.	Recommendations are easy to understand					
	Strongly Disagree	1,537	323	492	500	222
	Disagree	1,537	323	492	500	222
	Neither Agree nor Disagree	1,537	323	492	500	222
	Agree	1,537	323	492	500	222
	Strongly Agree	1,537	323	492	500	222
	Legitimately Skipped Question	1,537	323	492	500	222
52c.	Recommendations are specific and concrete					
	Strongly Disagree	1,537	321	496	499	221
	Disagree	1,537	321	496	499	221
	Neither Agree nor Disagree	1,537	321	496	499	221
	Agree	1,537	321	496	499	221
	Strongly Agree	1,537	321	496	499	221
	Legitimately Skipped Question	1,537	321	496	499	221

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Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

				Census Regior		
	Question	Total	Northeast	South	Midwest	West
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.					
	Pocket guide to chemical hazards	1,537	317	498	492	230
	Respirator maintenance program guide	1,537	317	498	492	230
	CDs of firefighter program materials	1,537	317	498	492	230
	Alerts	1,537	317	498	492	230
	Hazard IDs	1,537	317	498	492	230
	Workplace Solutions	1,537	317	498	492	230
		1,537	317	498	492	230
	None. I have not seen any NIOSH materials.	1,537	317	498	492	230
53 a	r How satisfied or dissatisfied are you with these NIOSH materials?					
	Very dissatisfied	1,536	320	491	495	230
	Dissatisfied	1,536	320	491	495	230
	Neither satisfied nor dissatisfied	1,536	320	491	495	230
	Satisfied	1,536	320	491	495	230
	Very satisfied	1,536	320	491	495	230
	Legitimately Skipped Question	1,536	320	491	495	230
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?					
		1,589	330	510	515	234
	Yes, in the last year	1,589	330	510	515	234
No	Yes, longer than one year ago	1,589	330	510	515	234

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

-					
			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
1.	Does your department have a Safety Officer?				
		70.3	69.8	72.0	70.5
		29.7	30.2	28.0	29.5
2 es	Does your department have a Training Officer?				
No		88.5	88.9	90.1	85.4
		11.5	11.1	9.9	14.6
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	83.7	82.5 ^[2]	93.0 ^[1,3]	79.1 ^[2]
	Maintenance of SCBAs	69.7	67.1 ^[2]	79.1 ^[1]	70.5
	Motor vehicle safety	78.8	78.3 [2]	83.8 [1]	76.0
	Participation in a personal physical fitness program	11.0	8.4 [2]	27.6 ^[1,3]	5.2 ^[2]
	Participation in regular health screenings for cardiovascular disease (CVD)	16.8	15.2 ^[2]	29.6 ^[1,3]	10.5 ^[2]
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	40.4	36.6 ^[2,3]	68.9 ^[1,3]	27.2 ^[1,2]
	Use of Personal Alert Safety System (PASS) devices	75.4	74.6 [2]	85.4 ^[1,3]	68.4 [2]
	Use of personal protective equipment and protective clothing	89.1	89.1	91.4	86.9
	Use of radio communications	84.8	83.7	87.5	86.3
		8.7	7.7 [2]	14.2 ^[1,3]	7.2 [2]
	Does not apply. Our fire department does not use SOPs/SOGs.	5.0	5.2 [2]	2.2 [1]	6.7
Othe	r				(continued)

			Rural	/Urban	
	Question	Total	Rural	Urban	Unknown
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires				
	No Training	1.1	1.0	0.2 [+]	2.4 [+]
	Optional Training	16.7	18.2 [2]	6.7 ^[1,3]	21.0 [2]
	Required Training	82.8	81.7 ^[2]	93.4 ^[1,3]	76.6 ^[2]
4b.	Driving safety				
	No Training	3.9	4.0 ^[2]	1.2 ^[1,3]	6.3 [2]
	Optional Training	18.6	18.8 [2]	10.8 [1,3]	25.6 [2]
	Required Training	77.7	77.5 ^[2,3]	88.2 ^[1,3]	68.1 ^[1,2]
4c.	Incident Command systems				
	No Training	2.9	3.1 [2]	* * [1,3,+]	4.9 [2]
	Optional Training	27.4	28.3 [2,3]	9.7 ^[1,3]	41.1 ^[1,2]
	Required Training	69.9	68.8 ^[2,3]	90.2 ^[1,3]	54.0 ^[1,2]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	6.6	6.8 [2]	2.6 [1,3]	9.5 [2]
	Optional Training	33.6	35.8 [2]	20.9 [1,3]	37.4 [2]
	Required Training	60.3	57.9 ^[2]	76.7 ^[1,3]	53.1 ^[2]
4e.	Rapid Intervention Teams (RITs)				
	No Training	28.5	31.2 [2]	7.9 ^[1,3]	39.1 [2]
	Optional Training	36.2	37.9	32.2	33.5
	Required Training	35.5	31.0 ^[2]	60.6 ^[1,3]	27.4 [2]

Exhibit B-3a.	Results from the Fire	Department Survey.	Percent Estimates by	Jurisdiction Type	(continued)
	Results nom the rife	Department Survey,	I CICCIIC EStimates by	Juli Sulction Type	(continucu)

			Rural/	'Urban	
	Question	Total	Rural	Urban	Unknown
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1.5	1.4	1.6	1.7 [+]
	Optional Training	9.9	9.7 [2]	4.8 ^[1,3]	15.5 ^[2]
	Required Training	88.9	89.3 ^[2]	93.8 ^[1,3]	82.8 [2]
4g.	Use of radio communication devices				
	No Training	2.7	2.7	1.6	3.4
	Optional Training	21.4	20.5 ^[2,3]	14.8 ^[1,3]	31.0 ^[1,2]
	Required Training	76.2	77.0 ^[2,3]	83.8 ^[1,3]	65.6 ^[1,2]
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	84.9	85.1	88.6	80.4
	Other officers within our department	82.8	82.8 ^[2]	91.0 ^[1,3]	74.9 [2]
	State fire training agency	77.4	78.1	80.9 ^[3]	71.1 ^[2]
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	20.9	19.3 ^[2,3]	40.8 ^[1,3]	7.8 ^[1,2]
	Conferences or regional meetings	51.7	50.7 ^[2,3]	67.9 ^[1,3]	39 .8 ^[1,2]
	Other	25.2	23.7 [2]	36.3 ^[1,3]	19.9 ^[2]
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	55.3	58.1 ^[3]	55.7 ^[3]	44.2 [1,2]
	Scuba diving	7.5	6.6 [2]	12.7 ^[1,3]	5.9 ^[2]
	Swift water rescue	11.2	10.0 [2,3]	22.7 ^[1,3]	4.8 [1,2]
	Wildland fire fighting	47.0	52.2 ^[2]	23.8 [1,3]	49.3 [2]
	HAZMAT	66.7	65.9 ^[2,3]	83.7 ^[1,3]	53.0 ^[1,2]
	Other	31.2	28.9 [2]	41.8 ^[1,3]	29.6 [2]

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	8.3	9.1 ^[2]	2.8 [1,3]	10.8 [2]
	Not very familiar	24.3	25.4 [2]	13.5 ^[1,3]	30.5 [2]
	Somewhat familiar	58.1	57.8	63.6	54.0
	Very familiar	9.3	7.7 [2]	20.1 ^[1,3]	4.7 [2]
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	20.8	22.1 ^[2]	9.6 ^[1,3]	26.7 [2]
	Not very familiar	33.5	34.4 [2]	24.5 ^[1,3]	39.1 ^[2]
	Somewhat familiar	37.9	37.0 ^[2]	49.5 ^[1,3]	30.2 [2]
	Very familiar	7.8	6.6 ^[2]	16.4 ^[1,3]	4.0 [2]
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	67.8	71.0 ^[3]	67.6 ^[3]	55.3 ^[1,2]
	National conference presentations	3.6	2.8 ^[2]	9.9 ^[1,3]	0.9 ^[2,+]
	State-level conference presentations	11.5	9.8 ^[2]	16.3 ^[1]	13.2
	Other firefighters or departments	22.9	22.4	22.1	25.4
	At seminars or other training opportunities (not conferences)	16.4	16.6	19.8 ^[3]	12.0 [2]
	Trade publications (such as Firehouse and Fire Engineering)	47.2	45.9 ^[2]	56.7 ^[1,3]	42.5 [2]
	NIOSH website	24.3	21.8 [2]	42.0 ^[1,3]	16.4 [2]
	Links from other websites (such as NFPA and Firehouse)	28.2	28.9 ^[2,3]	36.8 [1,3]	17.1 ^[1,2]
	Media reports-newspaper, television, radio	14.9	14.6	17.4	13.5
		1.1	1.0 [3]	2.8 [3]	0.2 [1,2,+]
Othe	Does not apply. We have not received information about NIOSH recommendations.	11.1	9.9 ^[3]	6.7 ^[3]	20.2 [1,2]

		Duvol /Uvbon				
		Rural/Urban				
	Question	Total	Rural	Urban	Unknown	
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.					
	Made changes to training program	40.2	40.5 [2,3]	53.3 ^[1,3]	25.2 ^[1,2]	
	Developed new SOPs/SOGs	26.3	25.1 ^[2]	38.1 ^[1,3]	19.1 ^[2]	
	Made changes to SOPs/SOGs	34.9	34.8 [2,3]	48.3 ^[1,3]	21.5 ^[1,2]	
	Justified current budget/staffing	5.0	3.6 [2]	12.1 ^[1,3]	3.2 [2]	
	Made new budget/staffing requests	5.5	4.8 [2,3]	11.8 ^[1,3]	1.6 [1,2,+]	
	Justified grant applications	15.5	15.7	20.5 [3]	9.8 [2]	
	Does not apply. We have not used NIOSH recommendations.	30.1	30.8 [2]	19.7 ^[1,3]	37.9 [2]	
	Legitimately Skipped Question	11.7	10.6 [3]	6.8 ^[3]	21.3 ^[1,2]	
11b	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.					
	Traffic hazards	29.3	30.3	32.5 ^[3]	22.1 ^[2]	
	Personal protective equipment and clothing	41.6	41.0 ^[2]	52.6 ^[1,3]	32.6 [2]	
	SCBA	40.1	40.0 [2,3]	54.4 ^[1,3]	25.7 ^[1,2]	
	PASS systems	32.6	31.1 [2]	45.3 ^[1,3]	25.7 [2]	
	Incident Command systems	32.1	30.8 [2]	44.5 ^[1,3]	24.4 [2]	
	Radio communications	23.0	22.3 [2]	32.1 ^[1,3]	16.9 [2]	
	Physical fitness and cardiovascular disease (CVD)	8.5	7.5 [2]	16.2 ^[1,3]	4.4 [2]	
	Building code compliance (e.g., warning against the use of wooden trusses)	6.9	7.3	7.6	4.7	
		2.3	1.6 [2]	5.7 ^[1,3]	1.8 [2,+]	
Othe	Does not apply. We have not used NIOSH recommendations for $_{\rm r}$ training purposes.	1.9	2.0	2.2	1.3 [+]	
Ourc	Legitimately Skipped Question	41.9	41.5 [2,3]	26.6 [1,3]	58.6 [1,2]	

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		78.5	83.6 [2]	46.7 ^[1,3]	89.4 [2]
	Yes, it's required	7.0	4.7 [2]	18.4 ^[1,3]	5.0 ^[2]
No	Yes, it's optional	14.5	11.7 ^[2,3]	34.8 [1,3]	5.6 ^[1,2]
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	14.5	12.8 [2]	26.9 ^[1,3]	9.0 ^[2]
	Less frequently than once a year	7.1	7.7 [3]	8.6 [3]	3.4 ^[1,2]
	One time a year	17.1	14.6 [2]	33.1 ^[1,3]	11.1 ^[2]
	More than one time a year	0.3	0.2 [+]	0.8 [+]	* *
	Does not apply. Firefighters are not required to receive CVD screenings	60.9	64.7 ^[2,3]	30.6 [1,3]	76.5 ^[1,2]
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	6.4	6.9 ^[2]	3.2 [1]	7.5
	Yes, they receive training required by the department	84.0	82.3 [2]	90.2 ^[1]	84.4
	Yes, they receive training required by the state	25.7	25.6 [2]	32.0 ^[1,3]	20.0 [2]
	Yes, they receive optional training	13.8	13.3	13.2	16.2
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	14.2	14.3	11.0	16.8
	Once every year	40.3	38.1 [2]	48.1 ^[1]	41.3
	Less frequently than once a year	24.8	25.8	25.0	20.5
	Does not apply. Firefighters are not required to receive continuing driver training.	20.7	21.8 [2]	15.9 ^[1]	21.5

Exhibit B-3a.	Results from the F	ire Department	Survey, Percent	Estimates by .	Jurisdiction Type	(continued)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
	Yes	84.2	83.0 [2]	89.8 ^[1]	83.5
		15.8	17.0 [2]	10.2 [1]	16.5
17. No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	6.9	7.5	7.2	4.1
	Disagree	18.0	17.9	17.5	18.8
	Neither agree nor disagree	30.8	31.4 [2]	22.5 ^[1,3]	36.8 [2]
	Agree	32.1	31.0 [2]	38.3 [1]	30.5
	Strongly agree	12.2	12.1	14.6	9.8
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		5.4	6.3 ^[2]	2.8 [1]	4.2
	Some of the time	22.7	22.2	24.1	23.5
Neve	erAbout half the time	17.0	16.6	14.2	21.3
	Most of the time	38.4	38.6	36.1	39.8
		16.5	16.3 ^[2]	22.8 ^[1,3]	11.2 ^[2]
21. Alwa	How often is Incident Command established when responding v_{ξ} o structure fires?				
		2.3	2.1 [2]	0.3 [1,3,+]	5.2 [2]
	Rarely	6.8	8.1 [2]	1.3 [1,3,+]	7.0 ^[2]
Neve	PrAbout half the time	6.7	7.9 ^[2]	2.3 [1]	6.2
	Most of the time	27.6	28.5 [2]	18.1 ^[1,3]	33.6 [2]
	Always	56.6	53.4 [2]	77.9 ^[1,3]	47.9 [2]

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	22.5	24.9 ^[2]	7.8 ^[1,3]	27.9 [2]
	Not enough firefighters available at the scene of the fire	21.2	23.5 [2]	8.1 ^[1,3]	25.0 [2]
	Other	6.2	6.3	7.7	4.5
	Does not apply. My department always assigns an Incident Commander for structure fires.	3.6	3.6	1.8	5.5
	Legitimately Skipped Question	56.6	53.4 [2]	78.4 ^[1,3]	48.1 ^[2]
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.	91.0	01 7	01.9	87.4
	entering the building	91.0	91.7	91.0	07.4
	Develop and coordinate the fire attack strategy	93.1	92.2 ^[2]	95.8 ^[1]	93.9
	Develop and initiate a risk management plan	52.3	50.4 [2]	64.0 ^[1,3]	48.4 [2]
	Document all assessments, plans and events related to the fire	38.8	39.4 ^[3]	45.0 ^[3]	29.9 ^[1,2]
	Ensure that at least four (4) firefighters are on the scene before entering the building	68.6	67.8	71.2	68.9
	Establish a collapse zone around the building	49.1	48.4 [2]	58.3 ^[1,3]	42.6 [2]
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	48.5	43.6 [2]	77.7 ^[1,3]	38.7 ^[2]
	Identify and implement a communication strategy	64.7	62.9	65.5	71.2
	Monitor location of all firefighters at the scene	76.2	75.7	80.6	73.9
		9.1	9.4	10.6	6.5

Other

(continued)

B-75
Exhibit B-3a.	Results from the Fire Departme	nt Survey, Percent Estimates	by Jurisdiction Type (co	ontinued)
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			Rural	/Urban	
	Question	Total	Rural	Urban	Unknown
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	13.3	14.2 [2]	7.5 ^[1,3]	15.6 ^[2]
	Some of the time	26.5	27.5	23.8	25.1
	About half the time	8.1	8.6	5.8	8.5
	Most of the time	29.8	29.0	35.3	27.4
		22.3	20.7 [2]	27.6 [1]	23.3
25. Alwa	What are the reasons why an Incident Commander does not _y always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	32.3	33.3 [2]	26.5 ^[1]	33.8
	Not enough firefighters are available at the scene of the fire	51.7	54.2 ^[2]	42.4 [1]	50.8
		13.1	11.4 [2]	22.8 ^[1,3]	9.9 [2]
Othe	Does not apply. Our Incident Commanders always assign an Incident r Safety Officer for structure fires.	2.1	2.2	1.5	2.2
01110	Legitimately Skipped Question	22.6	21.0 ^[2]	28.1 ^[1]	24.0
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	29.4	30.3 [2,3]	9.2 ^[1,3]	45.1 ^[1,2]
	Some of the time	21.8	24.8 [2]	14.5 ^[1]	17.4
	About half the time	6.5	7.3	5.3	4.3
	Most of the time	22.5	22.2	26.4	20.0
		19.9	15.4 [2]	44.7 ^[1,3]	13.3 [2]

Always

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	9.3	10.4	7.1	7.4
	When there are enough firefighters on and at the scene of the fire	32.3	34.9 ^[2]	28.0 [1]	26.3
	Whenever firefighters enter a burning building	26.4	28.3	22.5	22.7
		4.9	4.4 [2]	9.2 ^[1,3]	2.7 [2,+]
	Legitimately Skipped Question	49.3	45.8 ^[2,3]	53.4 ^[1]	58.9 ^[1]
28 ne	r What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	34.9	35.5 [2]	28.1 ^[1,3]	39 .2 ^[2]
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	8.8	10.0 [2]	0.9 [1,3,+]	12.4 [2]
	We don't have enough firefighters available at the scene of the fire	53.5	57.8 ^[2]	34.0 ^[1,3]	56.5 [2]
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	20.7	23.2 [2]	8.5 ^[1,3]	22.9 [2]
	We have never established an RIT/RIC	17.7	19.0 [2]	5.9 ^[1,3]	24.2 [2]
	We use other fire departments in the area for RITs/RICs	29.2	31.9 ^[2]	22.1 ^[1]	25.9
	We use other safety practices and so we don't need them	4.2	3.5 ^[2,3]	0.9 [1,3,+]	10.3 [1,2]
	Other	4.1	4.3	5.1	2.3 [+]
	Legitimately Skipped Question	20.3	15.8 [2]	44.7 ^[1,3]	13.6 [2]
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		78.8	78.7 [2,3]	98.3 ^[1,3]	59.9 ^[1,2]
	No	21.2	21.3 [2,3]	1.7 ^[1,3]	40.1 ^[1,2]

Yes

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		6.3	5.3 [2,3]	* * [1,3,+]	16.2 ^[1,2]
	Some of the time	3.9	4.6 [2]	0.2 [1,3,+]	5.1 [2]
Neve	rAbout half the time	1.8	2.1 [2]	* * [1,+]	2.6 [+]
	Most of the time	12.8	14.8 [2]	3.7 ^[1,3]	14.0 [2]
	Always	75.2	73.2 [2,3]	96.0 ^[1,3]	62.1 ^[1,2]
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	13.1	12.4 [2,3]	0.7 [1,3,+]	28.4 [1,2]
	Situation doesn't require them	9.5	11.5 [2]	1.4 [1,3,+]	9.6 [2]
	Firefighters think the devices do not always work reliably	0.3	0.3 [+]	** [+]	0.8 [+]
	Firefighters don't think they need them	4.6	6.4 [2,3]	1.4 [1,+]	0.7 [1,+]
	Devices go off while firefighters are resting	3.7	4.9 ^[2,3]	0.8 ^[1]	1.8 ^[1,+]
	Legitimately Skipped Question	75.5	73.7 ^[2,3]	96.1 ^[1,3]	62.1 ^[1,2]
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		99.2	99.4	99.6	98.3
		0.8	0.6	0.4 [+]	1.7 [+]
33 5	Do your firefighters ever have to share facepieces for SCBAs?				
No		49.7	52.5 ^[2]	27.4 ^[1,3]	59.5 ^[2]
	No	49.5	46.9 ^[2]	72.2 ^[1,3]	38.8 [2]
Yes	Legitimately Skipped Question	0.8	0.6	0.5 [+]	1.7 [+]
-	·······		•	•	(continued)

	Rural/Urban			
Question	Total	Rural	Urban	Unknown
33a. What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
Didn't know it was recommended	4.8	4.7	2.5	7.0
Firefighters don't like using the equipment	0.3	0.4 [+]	* *	* *
Have never needed them (e.g., we don't do interior attacks)	0.7	0.7 [2]	* * [1]	0.9 [+]
They cost too much, there is not enough money in the budget	31.8	33.7 [2]	15.6 ^[1,3]	39.0 [2]
We don't have enough equipment for all of our firefighters	24.6	26.4 [2]	9.9 ^[1,3]	30.6 [2]
Shared systems work fine for our needs	23.4	24.3 [2]	11.4 ^[1,3]	30.9 [2]
Other	5.0	5.3	5.3	3.4 [+]
Legitimately Skipped Question	50.3	47.8 [2]	72.7 ^[1,3]	39.8 [2]
34. About how often do you think your firefighters use SCBAs while fighting structure fires?				
Never	1.1	0.8 [2]	** [1,3]	3.7 [2]
Some of the time	4.7	5.6 [2]	** [1,3]	5.8 [2]
About half the time	2.7	2.9 ^[2]	** [1,3]	4.3 [2]
Most of the time	24.5	25.6 [2]	13.5 ^[1,3]	30.3 [2]
Always	66.1	64.5 [2,3]	86.0 ^[1,3]	54.2 ^[1,2]
Legitimately Skipped Question	0.8	0.6	0.4 [+]	1.7 [+]

Exhibit B-3a.	Results from the Fire D	epartment Survey,	Percent Estimates by	/ Jurisdiction T	ype (continued)	

			Rura	l/Urban	
	Question	Total	Rural	Urban	Unknown
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	25.9	27.5 [2]	9 .9 ^[1,3]	34.4 [2]
	Firefighters do not trust that the SCBAs will work reliably	* *	0.1 [+]	* *	* *
	Firefighters don't think they need them	10.3	11.4 [2]	7.3 [1]	8.9
	Firefighters don't like sharing facepieces with others	1.0	1.2 [2]	** [1]	0.9 [+]
	Firefighters are concerned that the SCBA may be or become contaminated	* *	0.1 [+]	* *	* *
	Wearing SCBAs makes it more difficult to work	5.9	7.3 [2]	2.0 [1]	4.0
	Firefighters don't have SCBAs to use	3.9	4.4 [2]	** [1,3]	5.5 [2]
	Legitimately Skipped Question	67.8	65.6 [2]	86.9 ^[1,3]	58.2 ^[2]
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	43.0	42.4	44.6	43.8
	Once a month or more	19.0	17.7 [2]	25.6 ^[1]	17.4
	Several times a year	15.0	15.5	14.2	13.9
	Once a year	16.4	17.2	14.0	16.0
	Less than once a year	4.3	5.0 ^[2]	0.2 [1,3,+]	5.5 [2]
	Never. Maintenance has not been done on our SCBAs.	1.4	1.5	1.0 [+]	1.3 [+]
	Does not apply. My department does not have SCBAs.	* *	* *	* *	* *
	Legitimately Skipped Question	1.0	0.8	0.5 [+]	2.1 [+]
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	17.5	15.0 ^[2]	34.5 ^[1,3]	10.8 [2]
	Zero	82.5	85.0 ^[2]	65.5 ^[1,3]	89.2 [2]

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	20.9	21.1 [2]	13.6 ^[1,3]	27.3 [2]
	We didn't know they were available	15.1	15.6	10.8	17.3
	We don't have adequate technical information to purchase them	19.7	21.0 ^[2]	14.4 ^[1]	19.8
	We don't have adequate funding to purchase them	60.3	63.6 ^[2]	44.6 ^[1,3]	62.7 ^[2]
	Other	4.9	3.9 [2]	8.2 [1]	5.6
	Legitimately Skipped Question	18.3	15.9 ^[2]	35.4 [1,3]	10.8 [2]
38.	Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	77.4	77.6 [2,3]	87.8 ^[1,3]	66.7 ^[1,2]
	No	22.6	22.4 [2,3]	12.2 ^[1,3]	33.3 ^[1,2]
38a.	At your fire department, where do you have AEDs?				
	At the fire station(s)	2.8	3.3 [2]	0.1 [1,3,+]	3.5 [2]
	On the emergency vehicles (or apparatus)	62.0	61.6 ^[2]	72.4 ^[1,3]	54.1 ^[2]
	Both at the fire station(s) and on the vehicles (or apparatus)	10.4	10.6	13.3 ^[3]	6.7 ^[2]
	Legitimately Skipped Question	24.9	24.5 [2,3]	14.2 ^[1,3]	35.7 ^[1,2]
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	13.9	12.3 [2]	19.1 ^[1]	14.8
	Once a month or more	25.4	24.6	25.1	29.3
	Several times a year	20.6	22.7 [3]	19.7	12.4 ^[1]
	Once a year	22.3	21.7	25.4	21.7
	Less frequently than once a year	7.4	8.0	6.1	6.6
	Never. Maintenance on our AEDs has not been done.	10.4	10.7 [2]	4.6 [1,3]	15.2 ^[2]

	Question	Total	Rural	Urban	Unknown
40.	About how often do your firefighters carry radios or other two- way communication devices while responding to structure fires?				
	Never	1.6	1.9	0.6 [+]	1.6 [+]
	Some of the time	4.7	6.0 ^[2,3]	1.9 ^[1,+]	2.2 [1,+]
	About half the time	2.6	3.0	1.4 [+]	2.5 [+]
	Most of the time	20.6	23.7 [2]	10.4 [1,3]	18.7 ^[2]
	Always	70.4	65.4 ^[2,3]	85.6 [1,3]	75.0 ^[1,2]
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		18.0	18.3	17.3	17.5
	Some of the time	64.5	62.4 [2]	74.4 ^[1,3]	63.2 [2]
Neve	erAbout half the time	10.3	11.2 [2]	5.3 ^[1,3]	11.5 ^[2]
	Most of the time	5.4	6.0 ^[2]	2.9 ^[1]	5.4
		1.8	2.1 [2]	0.2 [1,+]	2.4 [+]

Always

(continued)

B-82

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	48.6	50.8 [2]	35.6 [1,3]	52.7 ^[2]
	Adequate	45.7	44.7 ^[2]	53.0 ^[1,3]	42.2 [2]
	More than adequate	5.7	4.4 [2]	11.5 ^[1,3]	5.1 ^[2]
42b.	Training				
	Not adequate	39.1	40.9 [2]	33.6 [1]	37.6
	Adequate	55.6	55.0	58.8	55.2
	More than adequate	5.2	4.1	7.6	7.1
42c.	Personnel				
	Not adequate	51.5	53.7	48.2	46.3
	Adequate	44.3	43.5	45.0	46.5
	More than adequate	4.2	2.8 [2]	6.8 [1]	7.2
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		26.8	27.6 [2,3]	12.7 ^[1,3]	37.6 [1,2]
	One or two times per year	34.3	35.3	33.9	31.0
Neve	rSeveral times per year	33.2	32.1 [2]	47.2 [1,3]	23.7 [2]
	Once a month or more	5.7	5.1	6.2	7.6

	• • •	-	<i>/</i> /	2		
			Rural/Urban			
	Question	Total	Rural	Urban	Unknown	
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.					
	By mail	56.0	57.0	58.4	49.9	
	On the Internet	24.7	23.6 ^[2,3]	40.7 ^[1,3]	13.1 ^[1,2]	
	From colleagues in other departments	10.0	8.7	12.8	12.2	
	At conferences or other meetings	6.9	5.9 ^[2]	13.6 ^[1,3]	4.4 [2]	
	Legitimately Skipped Question	26.8	27.7 [2,3]	12.6 ^[1,3]	37.3 ^[1,2]	
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?					
	Yes	53.3	51.9 ^[2,3]	72.7 ^[1,3]	40.2 [1,2]	
	No	20.0	20.5 [2]	14.6 ^[1,3]	23.5 [2]	
	Legitimately Skipped Question	26.6	27.6 [2]	12.7 ^[1,3]	36.3 [2]	
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?					
		60.7	61.0 ^[2,3]	70.5 [1,3]	49.3 ^[1,2]	
	No	12.1	10.8 [2]	16.8 ^[1]	12.2	
Yes	Legitimately Skipped Question	27.3	28.2 [2,3]	12.8 ^[1,3]	38.5 [1,2]	

	Rural/Urban			
Question	Total	Rural	Urban	Unknown
50a. How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
Regular staff meetings	23.5	24.0	21.6	23.7
Training sessions	44.2	43.9	49.4	40.2
Provide copies of NIOSH reports to firefighters	16.2	14.3 [2]	28.9 ^[1,3]	10.9 [2]
Provide copies of NIOSH report summaries to firefighters	6.2	6.1	9.2 ^[3]	3.8 [2]
Provide summaries prepared by department to firefighters	1.8	1.7 [3]	3.8 [3]	0.1 [1,2,+]
Postings on bulletin boards	38.5	38.6 [2]	46.7 ^[1,3]	29.7 [2]
Post report on the department website	1.1	1.0 ^[3]	2.7 ^[3]	** [1,2]
Send message to firefighters by email	5.3	4.3 [2]	13.1 ^[1,3]	1.9 [2,+]
Other	1.3	1.3 ^[3]	2.2 [3]	** [1,2]
Legitimately Skipped Question	39.1	38.6 [2,3]	29.8 ^[1,3]	50.0 [1,2]
51. The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
	34.2	31.8 ^[2,3]	59.0 ^[1,3]	19.4 ^[1,2]
No	38.4	39.9 [2]	28.0 ^[1,3]	42.5 [2]
Yes Legitimately Skipped Question	27.4	28.3 [2,3]	13.0 ^[1,3]	38.1 ^[1,2]

Exhibit B-3a.	Results from the	Fire Department	Survey, Percent	Estimates by	Jurisdiction Type	(continued)
						(

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	0.5	0.3 [+]	0.6 [+]	0.9 [+]
	Disagree	3.6	3.8 [3]	5.2 [3]	1.0 [1,2,+]
	Neither Agree nor Disagree	18.7	19.3	17.9	17.3
	Agree	45.6	44.6 [2]	58.3 ^[1,3]	36.9 [2]
	Strongly Agree	3.7	3.3	5.0	4.0
	Legitimately Skipped Question	28.0	28.8 [2,3]	13.0 ^[1,3]	40.0 [1,2]
52b.	Recommendations are easy to understand				
	Strongly Disagree	0.4	0.3 [+]	0.5 [+]	0.9 [+]
	Disagree	1.7	1.6	3.0	0.9 [+]
	Neither Agree nor Disagree	19.8	21.3	16.9	16.5
	Agree	45.4	44.1 ^[2]	59.2 ^[1,3]	36.4 [2]
	Strongly Agree	4.6	3.9 [2]	7.4 [1]	4.9
	Legitimately Skipped Question	28.1	28.9 [2,3]	13.1 ^[1,3]	40.4 [1,2]
52c.	Recommendations are specific and concrete				
	Strongly Disagree	0.4	0.2 [+]	1.0	0.9 [+]
	Disagree	3.2	3.3 [3]	4.8 [3]	0.9 [1,2,+]
	Neither Agree nor Disagree	26.6	27.0	26.3	25.3
	Agree	37.9	37.0 [2]	49.5 ^[1,3]	29.7 [2]
	Strongly Agree	3.8	3.7	5.2	3.1 [+]
	Legitimately Skipped Question	28.0	28.8 [2,3]	13.1 ^[1,3]	40.0 [1,2]
		•	•	•	(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

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		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	57.4	55.0 ^[2]	73.7 ^[1,3]	50.1 ^[2]
	Respirator maintenance program guide	13.8	13.9 ^[2,3]	20.3 ^[1,3]	6.8 ^[1,2]
	CDs of firefighter program materials	28.0	27.8	34.0 [3]	22.6 [2]
	Alerts	31.7	30.9 [2,3]	47.3 ^[1,3]	19.1 ^[1,2]
	Hazard IDs	16.6	16.5	18.9	14.8
	Workplace Solutions	12.5	12.9	14.8	8.4
		0.8	1.0 [3]	0.8 [+]	** [1]
	None. I have not seen any NIOSH materials.	25.2	25.4 [2,3]	14.1 ^[1,3]	35.7 ^[1,2]
53a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1.3	1.2	1.6	1.7 [+]
	Dissatisfied	0.2	0.3 [+]	* *	* *
	Neither satisfied nor dissatisfied	21.2	22.4	18.7	19.0
	Satisfied	47.1	47.0 ^[2]	55.5 ^[1,3]	39.1 ^[2]
	Very satisfied	5.2	4.0 [2]	10.2 [1,3]	4.7 [2]
	Legitimately Skipped Question	24.9	25.1 ^[2,3]	14.1 ^[1,3]	35.6 [1,2]
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		59.4	61.0 ^[2]	43.2 [1,3]	69.3 [2]
	Yes, in the last year	34.5	32.3 [2]	51.3 ^[1,3]	26.3 [2]
No	Yes, longer than one year ago	6.1	6.7	5.5	4.4

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
1.	Does your department have a Safety Officer?				
		(67.5, 72.9)	(66.4, 72.9)	(66.2, 77.1)	(61.8, 78.0)
		(27.1, 32.5)	(27.1, 33.6)	(22.9, 33.8)	(22.0, 38.2)
2 es	Does your department have a Training Officer?				
No		(86.4, 90.3)	(86.5, 90.9)	(85.8, 93.1)	(77.6, 90.8)
		(9.7, 13.6)	(9.1, 13.5)	(6.9, 14.2)	(9.2, 22.4)
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	(81.3, 85.8)	(79.7, 85.1)	(89.0, 95.6)	(70.8, 85.6)
	Maintenance of SCBAs	(66.9, 72.3)	(63.7, 70.3)	(73.6, 83.7)	(61.7, 77.9)
	Motor vehicle safety	(76.3, 81.2)	(75.3, 81.1)	(78.6, 87.9)	(67.7, 82.7)
	Participation in a personal physical fitness program	(9.6, 12.7)	(6.7, 10.4)	(23.1, 32.5)	(2.4, 10.7)
	Participation in regular health screenings for cardiovascular disease (CVD)	(14.9, 18.9)	(13.0, 17.7)	(24.7, 35.0)	(6.1, 17.3)
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	(37.7, 43.2)	(33.4, 40.0)	(63.1, 74.2)	(20.0, 35.8)
	Use of Personal Alert Safety System (PASS) devices	(72.7, 77.9)	(71.4, 77.6)	(80.4, 89.3)	(59.6, 76.1)
	Use of personal protective equipment and protective clothing	(87.1, 90.9)	(86.7, 91.2)	(86.9, 94.4)	(79.9, 91.7)
	Use of radio communications	(82.5, 86.8)	(80.9, 86.1)	(83.0, 90.9)	(79.1, 91.4)
		(7.2, 10.5)	(6.1, 9.8)	(10.4, 19.0)	(3.6, 13.8)
	Does not apply. Our fire department does not use SOPs/SOGs.	(3.8, 6.5)	(3.9, 7.1)	(0.9, 5.3)	(3.4, 13.0)

Other

			Rural/Urban			
	Question	Total	Rural	Urban	Unknown	
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?					
4a.	Fighting structure fires					
	No Training	(0.6, 2.0)	(0.5, 2.1)	(0.1, 1.1)	(0.8, 6.7)	
	Optional Training	(14.6, 19.1)	(15.6, 21.1)	(4.2, 10.7)	(14.5, 29.3)	
	Required Training	(80.4, 85.0)	(78.8, 84.3)	(89.4, 95.9)	(68.1, 83.3)	
4b.	Driving safety					
	No Training	(2.9, 5.3)	(2.8, 5.7)	(0.5, 2.8)	(3.1, 12.6)	
	Optional Training	(16.3, 21.1)	(16.2, 21.7)	(7.3, 15.6)	(18.4, 34.4)	
	Required Training	(75.1, 80.1)	(74.4, 80.3)	(83.3, 91.8)	(59.0, 76.0)	
4c.	Incident Command systems					
	No Training	(2.0, 4.1)	(2.1, 4.6)	(**, **)	(2.2, 10.4)	
	Optional Training	(24.8, 30.2)	(25.2, 31.6)	(6.5, 14.4)	(32.6, 50.2)	
	Required Training	(67.1, 72.6)	(65.5, 72.0)	(85.6, 93.5)	(45.0, 62.7)	
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)					
	No Training	(5.2, 8.3)	(5.2, 8.9)	(1.4, 4.8)	(5.3, 16.4)	
	Optional Training	(30.8, 36.5)	(32.5, 39.3)	(16.3, 26.4)	(29.2, 46.4)	
	Required Training	(57.3, 63.1)	(54.4, 61.4)	(71.1, 81.5)	(44.1, 61.9)	
4e.	Rapid Intervention Teams (RITs)					
	No Training	(25.8, 31.3)	(28.0, 34.7)	(5.0, 12.3)	(30.5, 48.4)	
	Optional Training	(33.3, 39.2)	(34.4, 41.5)	(26.8, 38.2)	(25.4, 42.7)	
	Required Training	(32.8, 38.3)	(27.8, 34.3)	(54.8, 66.2)	(19.9, 36.5)	

			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	(0.9, 2.4)	(0.7, 2.5)	(0.8, 3.4)	(0.4, 6.4)
	Optional Training	(8.2, 11.8)	(7.8, 12.0)	(2.7, 8.5)	(10.1, 23.0)
	Required Training	(86.9, 90.7)	(86.9, 91.2)	(90.0, 96.2)	(75.1, 88.5)
4g.	Use of radio communication devices				
	No Training	(1.9, 3.8)	(1.8, 4.2)	(0.8, 3.4)	(1.3, 8.7)
	Optional Training	(19.0, 23.9)	(17.8, 23.5)	(10.8, 20.0)	(23.5, 39.7)
	Required Training	(73.6, 78.6)	(74.0, 79.9)	(78.6, 87.9)	(56.8, 73.4)
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	(82.6, 86.9)	(82.4, 87.4)	(84.1, 92.0)	(72.2, 86.7)
	Other officers within our department	(80.4, 85.0)	(79.9, 85.3)	(86.5, 94.1)	(66.5, 81.8)
	State fire training agency	(74.8, 79.8)	(75.1, 80.9)	(75.8, 85.2)	(62.4, 78.5)
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	(18.9, 23.1)	(16.8, 22.0)	(35.5, 46.5)	(4.2, 13.9)
	Conferences or regional meetings	(48.8, 54.6)	(47.2, 54.1)	(62.1, 73.3)	(31.3, 48.9)
		(22.7, 27.8)	(20.9, 26.8)	(30.6, 42.4)	(13.6, 28.1)
6. Othe	What other trainings have your firefighters attended in the last $_{\rm f}$ 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	(52.4, 58.2)	(54.6, 61.5)	(49.7, 61.6)	(35.7, 53.0)
	Scuba diving	(6.2, 9.1)	(5.1, 8.5)	(9.4, 16.8)	(2.9, 11.7)
	Swift water rescue	(9.6, 13.0)	(8.1, 12.2)	(18.4, 27.7)	(2.2, 10.3)
	Wildland fire fighting	(44.1, 49.9)	(48.7, 55.7)	(19.2, 29.0)	(40.6, 58.1)
		(63.8, 69.4)	(62.5, 69.1)	(78.5, 87.8)	(44.1, 61.7)
		(28.5, 33.9)	(25.8, 32.2)	(36.0, 47.8)	(22.1, 38.3)

HAZMAT Other

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	(6.8, 10.2)	(7.2, 11.4)	(1.2, 6.2)	(6.3, 17.8)
	Not very familiar	(21.8, 27.0)	(22.5, 28.6)	(9.7, 18.4)	(22.9, 39.5)
	Somewhat familiar	(55.2, 61.0)	(54.3, 61.2)	(57.6, 69.2)	(45.0, 62.8)
	Very familiar	(7.8, 10.9)	(6.1, 9.6)	(16.1, 24.9)	(2.0, 10.4)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	(18.4, 23.3)	(19.3, 25.1)	(6.5, 13.8)	(19.5, 35.4)
	Not very familiar	(30.8, 36.4)	(31.1, 37.8)	(19.6, 30.2)	(30.9, 48.0)
	Somewhat familiar	(35.1, 40.7)	(33.6, 40.4)	(43.5, 55.6)	(22.8, 38.7)
	Very familiar	(6.5, 9.4)	(5.2, 8.5)	(12.6, 21.1)	(1.5, 9.9)
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	(64.9, 70.5)	(67.7, 74.1)	(61.6, 73.0)	(46.2, 64.0)
	National conference presentations	(2.8, 4.7)	(1.9, 4.0)	(7.3, 13.3)	(0.1, 5.6)
	State-level conference presentations	(9.7, 13.5)	(7.9, 12.1)	(12.5, 20.9)	(8.1, 21.0)
	Other firefighters or departments	(20.5, 25.5)	(19.6, 25.5)	(17.6, 27.4)	(18.4, 34.1)
	At seminars or other training opportunities (not conferences)	(14.3, 18.6)	(14.2, 19.4)	(15.6, 24.9)	(7.3, 19.1)
	Trade publications (such as Firehouse and Fire Engineering)	(44.3, 50.1)	(42.5, 49.4)	(50.7, 62.4)	(33.9, 51.6)
	NIOSH website	(22.0, 26.7)	(19.1, 24.7)	(36.4, 47.7)	(10.9, 24.0)
	Links from other websites (such as NFPA and Firehouse)	(25.7, 30.9)	(25.8, 32.1)	(31.3, 42.6)	(11.2, 25.1)
	Media reports-newspaper, television, radio	(12.9, 17.1)	(12.3, 17.3)	(13.3, 22.3)	(8.2, 21.3)
		(0.7, 1.9)	(0.5, 2.0)	(1.4, 5.5)	(0.0, 0.7)
Othe	Does not apply. We have not received information about NIOSH recommendations.	(9.3, 13.2)	(8.0, 12.3)	(4.1, 10.6)	(13.9, 28.4)

Exhibit B-3b. Results from the Fire Department Survey, Confidence Interval Estimates by Jurisdiction Type (continued)

			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	(37.3, 43.1)	(37.1, 44.1)	(47.4, 59.2)	(18.1, 33.9)
	Developed new SOPs/SOGs	(23.8, 29.0)	(22.2, 28.3)	(32.5, 44.0)	(12.7, 27.6)
	Made changes to SOPs/SOGs	(32.2, 37.7)	(31.5, 38.3)	(42.6, 54.1)	(14.9, 29.9)
	Justified current budget/staffing	(4.0, 6.3)	(2.5, 5.2)	(8.9, 16.2)	(1.2, 8.2)
	Made new budget/staffing requests	(4.4, 6.8)	(3.5, 6.5)	(8.5, 16.0)	(0.4, 5.9)
	Justified grant applications	(13.5, 17.8)	(13.3, 18.5)	(16.0, 25.8)	(5.5, 16.7)
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(27.5, 34.2)	(15.2, 25.2)	(29.5, 47.2)
	Legitimately Skipped Question	(9.8, 13.9)	(8.5, 13.1)	(4.2, 10.8)	(14.7, 29.8)
11b.	. Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	(26.7, 32.1)	(27.1, 33.8)	(27.2, 38.2)	(15.4, 30.7)
	Personal protective equipment and clothing	(38.7, 44.5)	(37.5, 44.6)	(46.6, 58.5)	(24.7, 41.7)
		(37.2, 43.0)	(36.6, 43.5)	(48.3, 60.3)	(18.5, 34.4)
	PASS systems	(29.9, 35.5)	(27.9, 34.5)	(39.4, 51.3)	(18.5, 34.5)
SCBA	A Incident Command systems	(29.4, 34.9)	(27.6, 34.2)	(38.6, 50.6)	(17.4, 33.0)
	Radio communications	(20.7, 25.6)	(19.4, 25.4)	(26.8, 37.9)	(11.1, 24.8)
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(5.9, 9.6)	(12.6, 20.7)	(2.0, 9.6)
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(5.7, 9.4)	(5.4, 10.7)	(2.0, 10.7)
		(1.6, 3.4)	(0.9, 2.8)	(3.4, 9.3)	(0.4, 6.8)
	Does not apply. We have not used NIOSH recommendations for training	(1.3, 2.9)	(1.2, 3.3)	(1.0, 4.7)	(0.4, 4.8)
Othe	r purposes.				
	Legitimately Skipped Question	(38.9, 44.8)	(38.0, 45.1)	(21.5, 32.4)	(49.5, 67.2)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		(76.4, 80.4)	(81.1, 85.8)	(41.4, 52.1)	(82.5, 93.8)
	Yes, it's required	(5.9, 8.3)	(3.6, 6.1)	(15.0, 22.5)	(2.3, 10.5)
No	Yes, it's optional	(12.8, 16.4)	(9.8, 14.0)	(29.7, 40.4)	(2.6, 11.6)
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	(12.7, 16.6)	(10.7, 15.2)	(22.0, 32.5)	(5.1, 15.5)
	Less frequently than once a year	(5.8, 8.6)	(6.0, 9.7)	(6.1, 12.1)	(1.3, 8.5)
	One time a year	(15.2, 19.3)	(12.4, 17.2)	(28.1, 38.6)	(6.6, 18.1)
	More than one time a year	(0.1, 0.7)	(0.1, 0.8)	(0.2, 2.3)	(**, **)
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(61.4, 67.8)	(25.5, 36.1)	(68.3, 83.1)
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	(5.1, 8.0)	(5.3, 8.9)	(1.6, 6.2)	(3.9, 13.7)
	Yes, they receive training required by the department	(81.7, 86.0)	(79.5, 84.8)	(85.9, 93.3)	(76.9, 89.8)
	Yes, they receive training required by the state	(23.3, 28.3)	(22.7, 28.8)	(26.8, 37.7)	(13.9, 27.9)
	Yes, they receive optional training	(11.8, 15.9)	(11.1, 15.8)	(9.5, 18.0)	(10.7, 23.9)
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	(12.2, 16.4)	(12.0, 17.0)	(7.9, 15.1)	(11.1, 24.5)
	Once every year	(37.5, 43.2)	(34.8, 41.6)	(42.1, 54.2)	(32.9, 50.1)
	Less frequently than once a year	(22.3, 27.3)	(22.8, 29.0)	(20.4, 30.3)	(14.3, 28.5)
	Does not apply. Firefighters are not required to receive continuing driver training.	(18.4, 23.2)	(19.0, 24.8)	(11.8, 20.9)	(14.9, 29.8)

Exhibit B-3b.	Results from the Fire De	partment Survey.	Confidence Interval	Estimates by	Jurisdiction Ty	vpe ((continued)
		partificite barvey/	Sounderies Theorem	Estimates by	Sansarction	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(concinaca)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
	Yes	(81.9, 86.3)	(80.2, 85.5)	(85.0, 93.1)	(76.0, 89.0)
		(13.7, 18.1)	(14.5, 19.8)	(6.9, 15.0)	(11.0, 24.0)
17. No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	(5.5, 8.5)	(5.8, 9.6)	(4.5, 11.3)	(1.7, 9.4)
	Disagree	(15.8, 20.4)	(15.4, 20.8)	(13.3, 22.5)	(12.7, 26.9)
	Neither agree nor disagree	(28.2, 33.7)	(28.3, 34.8)	(17.7, 28.1)	(28.6, 45.8)
	Agree	(29.5, 34.9)	(27.9, 34.4)	(32.7, 44.2)	(23.1, 39.0)
	Strongly agree	(10.4, 14.2)	(10.1, 14.6)	(11.1, 18.9)	(5.6, 16.7)
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		(4.2, 6.9)	(4.8, 8.3)	(1.3, 5.9)	(1.8, 9.8)
	Some of the time	(20.3, 25.3)	(19.4, 25.2)	(19.2, 29.8)	(16.8, 31.8)
Neve	erAbout half the time	(14.8, 19.4)	(14.1, 19.4)	(10.3, 19.2)	(14.8, 29.6)
	Most of the time	(35.6, 41.3)	(35.3, 42.1)	(30.7, 42.0)	(31.4, 48.8)
		(14.6, 18.7)	(13.9, 18.9)	(18.6, 27.6)	(6.7, 18.3)
21. Alwa	How often is Incident Command established when responding to $_{$\gamma $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $				
		(1.5, 3.5)	(1.2, 3.4)	(0.1, 1.2)	(2.4, 11.2)
	Rarely	(5.4, 8.5)	(6.4, 10.3)	(0.5, 3.7)	(3.6, 13.3)
Neve	erAbout half the time	(5.3, 8.4)	(6.2, 10.1)	(1.1, 4.7)	(3.0, 12.6)
	Most of the time	(25.0, 30.4)	(25.4, 31.8)	(13.7, 23.6)	(25.8, 42.4)
		(53.7, 59.4)	(49.9, 56.8)	(72.3, 82.6)	(39.1, 56.9)
					(continued)

Always

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	(20.1, 25.1)	(21.9, 28.0)	(5.1, 11.6)	(20.6, 36.5)
	Not enough firefighters available at the scene of the fire	(18.8, 23.7)	(20.6, 26.6)	(5.2, 12.3)	(18.0, 33.5)
		(5.0, 7.8)	(4.8, 8.3)	(4.9, 11.8)	(1.9, 10.2)
Othe	Does not apply. My department always assigns an Incident Commander r for structure fires.	(2.7, 4.9)	(2.5, 5.2)	(0.8, 4.4)	(2.8, 10.5)
	Legitimately Skipped Question	(53.7, 59.5)	(49.9, 56.8)	(72.9, 83.1)	(39.2, 57.1)
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	(89.1, 92.6)	(89.5, 93.4)	(88.1, 94.4)	(79.9, 92.4)
	Develop and coordinate the fire attack strategy	(91.4, 94.5)	(90.0, 93.9)	(92.0, 97.8)	(87.6, 97.1)
	Develop and initiate a risk management plan	(49.4, 55.3)	(46.9, 53.9)	(58.0, 69.5)	(39.4, 57.5)
	Document all assessments, plans and events related to the fire	(36.0, 41.7)	(36.0, 42.9)	(39.1, 51.1)	(22.3, 38.9)
	Ensure that at least four (4) firefighters are on the scene before entering the building	(65.7, 71.3)	(64.4, 71.0)	(65.2, 76.5)	(59.8, 76.7)
	Establish a collapse zone around the building	(46.1, 52.0)	(44.9, 51.9)	(52.3, 64.1)	(33.8, 51.8)
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	(45.7, 51.3)	(40.2, 47.0)	(72.0, 82.5)	(30.4, 47.7)
	Identify and implement a communication strategy	(61.9, 67.5)	(59.5, 66.3)	(59.5, 71.0)	(62.3, 78.8)
	Monitor location of all firefighters at the scene	(73.6, 78.7)	(72.6, 78.6)	(75.0, 85.1)	(65.1, 81.2)
		(7.6, 10.9)	(7.5, 11.6)	(7.3, 15.2)	(3.2, 13.0)

(continued)

Other

Exhibit B-3b. F	Results from the Fire I	Department Survey,	Confidence 1	Interval Estimates l	by Jurisdiction Ty	/pe (continued)
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		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	(11.4, 15.5)	(11.9, 16.8)	(4.8, 11.4)	(10.0, 23.5)
	Some of the time	(24.0, 29.2)	(24.5, 30.8)	(19.3, 29.0)	(18.1, 33.8)
	About half the time	(6.6, 9.9)	(6.8, 10.7)	(3.6, 9.3)	(4.7, 14.9)
	Most of the time	(27.2, 32.5)	(25.9, 32.2)	(29.7, 41.4)	(20.2, 36.1)
		(19.9, 24.9)	(18.0, 23.7)	(22.6, 33.2)	(16.4, 32.0)
25. Alwa	What are the reasons why an Incident Commander does not _y always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	(29.5, 35.1)	(30.1, 36.7)	(21.5, 32.1)	(25.7, 43.1)
	Not enough firefighters are available at the scene of the fire	(48.7, 54.6)	(50.7, 57.7)	(36.7, 48.3)	(41.8, 59.7)
		(11.3, 15.1)	(9.4, 13.9)	(18.4, 28.0)	(5.6, 16.8)
Othe	Does not apply. Our Incident Commanders always assign an Incident r Safety Officer for structure fires.	(1.4, 3.0)	(1.4, 3.5)	(0.6, 3.8)	(0.8, 5.6)
	Legitimately Skipped Question	(20.3, 25.2)	(18.2, 24.0)	(23.0, 33.7)	(17.0, 32.9)
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	(26.7, 32.1)	(27.2, 33.6)	(6.0, 13.7)	(36.5, 54.0)
	Some of the time	(19.5, 24.3)	(21.9, 27.9)	(10.7, 19.2)	(11.5, 25.3)
	About half the time	(5.2, 8.0)	(5.7, 9.3)	(3.1, 9.0)	(1.9, 9.6)
	Most of the time	(20.2, 25.0)	(19.5, 25.2)	(21.5, 32.0)	(13.7, 28.1)
		(17.8, 22.1)	(13.1, 18.0)	(39.0, 50.5)	(8.2, 20.7)
27. Alwa	In what situations are RITs/RICs established? MARK ALL THAT $_{VS}$ APPLY.				
	When the building has more than one story/floor	(7.8, 11.2)	(8.5, 12.7)	(4.6, 10.8)	(3.9, 13.7)
	When there are enough firefighters on and at the scene of the fire	(29.6, 35.1)	(31.6, 38.3)	(23.0, 33.7)	(19.2, 35.0)
	Whenever firefighters enter a burning building	(23.9, 29.1)	(25.3, 31.6)	(17.9, 27.9)	(16.0, 31.3)
		(3.8, 6.3)	(3.2, 6.1)	(6.2, 13.4)	(0.9, 7.9)
	Legitimately Skipped Question	(46.4, 52.2)	(42.4, 49.3)	(47.4, 59.3)	(49.8, 67.5)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	(32.1, 37.8)	(32.2, 39.0)	(23.0, 33.8)	(30.7, 48.4)
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	(7.2, 10.8)	(8.0, 12.3)	(0.2, 3.3)	(7.5, 19.8)
	We don't have enough firefighters available at the scene of the fire	(50.6, 56.5)	(54.2, 61.2)	(28.5, 40.0)	(47.5, 65.1)
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	(18.3, 23.2)	(20.3, 26.3)	(5.6, 12.7)	(16.2, 31.5)
	We have never established an RIT/RIC	(15.5, 20.1)	(16.3, 21.9)	(3.5, 9.9)	(17.4, 32.8)
	We use other fire departments in the area for RITs/RICs	(26.6, 32.0)	(28.7, 35.3)	(17.3, 27.8)	(18.7, 34.6)
	We use other safety practices and so we don't need them	(3.1, 5.7)	(2.4, 5.1)	(0.3, 2.7)	(5.9, 17.3)
		(3.1, 5.4)	(3.0, 5.9)	(2.9, 8.9)	(0.8, 6.6)
	Legitimately Skipped Question	(18.1, 22.6)	(13.4, 18.5)	(39.0, 50.5)	(8.5, 21.1)
29 he	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		(76.2, 81.1)	(75.6, 81.4)	(95.6, 99.4)	(50.9, 68.3)
		(18.9, 23.8)	(18.6, 24.4)	(0.6, 4.4)	(31.7, 49.1)
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		(4.9, 8.0)	(3.9, 7.2)	(**, **)	(10.6, 24.0)
	Some of the time	(2.9, 5.3)	(3.3, 6.3)	(0.0, 1.3)	(2.3, 11.0)
Neve	rAbout half the time	(1.2, 2.8)	(1.3, 3.3)	(**, **)	(0.8, 7.6)
	Most of the time	(10.9, 15.0)	(12.5, 17.5)	(1.9, 7.0)	(8.9, 21.3)
		(72.5, 77.6)	(70.0, 76.2)	(92.8, 97.9)	(53.0, 70.4)

Exhibit B-3b. Results from the Fir	e Department Survey, Confidence	Interval Estimates by Jurisdiction Type (continued)
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Always

(continued)

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			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	(11.2, 15.4)	(10.2, 15.0)	(0.1, 4.0)	(21.0, 37.1)
	Situation doesn't require them	(7.9, 11.4)	(9.4, 14.0)	(0.5, 4.0)	(5.5, 16.2)
	Firefighters think the devices do not always work reliably	(0.1, 1.0)	(0.1, 0.9)	(**, **)	(0.1, 5.7)
	Firefighters don't think they need them	(3.5, 5.9)	(4.8, 8.4)	(0.5, 4.0)	(0.1, 3.4)
	Devices go off while firefighters are resting	(2.7, 4.9)	(3.6, 6.6)	(0.3, 1.9)	(0.5, 6.4)
	Legitimately Skipped Question	(72.9, 78.0)	(70.5, 76.7)	(92.8, 97.9)	(53.1, 70.4)
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		(98.4, 99.6)	(98.5, 99.7)	(97.7, 99.9)	(93.5, 99.6)
		(0.4, 1.6)	(0.3, 1.5)	(0.1, 2.3)	(0.4, 6.5)
33 5	Do your firefighters ever have to share facepieces for SCBAs?				
No		(46.7, 52.7)	(48.9, 56.0)	(22.0, 33.5)	(50.3, 68.0)
		(46.5, 52.5)	(43.4, 50.5)	(66.0, 77.6)	(30.3, 47.9)
Yes	Legitimately Skipped Question	(0.4, 1.6)	(0.3, 1.6)	(0.1, 2.5)	(0.4, 6.6)
\$ 3a.	. What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	(3.5, 6.3)	(3.4, 6.5)	(0.9, 6.5)	(3.5, 13.7)
	Firefighters don't like using the equipment	(0.1, 0.9)	(0.1, 1.3)	(**, **)	(**, **)
	Have never needed them (e.g., we don't do interior attacks)	(0.3, 1.5)	(0.3, 1.8)	(**, **)	(0.2, 5.4)
	They cost too much, there is not enough money in the budget	(29.0, 34.7)	(30.4, 37.2)	(11.4, 21.1)	(30.6, 48.1)
	We don't have enough equipment for all of our firefighters	(22.0, 27.3)	(23.4, 29.7)	(6.4, 14.9)	(22.9, 39.5)
	Shared systems work fine for our needs	(20.9, 26.2)	(21.3, 27.5)	(7.7, 16.4)	(23.2, 39.9)
		(3.8, 6.5)	(4.0, 7.1)	(2.9, 9.6)	(1.3, 8.9)
	Legitimately Skipped Question	(47.4, 53.3)	(44.3, 51.4)	(66.5, 78.1)	(31.4, 48.9)
Othe	л. Г				(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

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		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	(0.6, 2.2)	(0.3, 1.7)	(**, **)	(1.4, 9.4)
	Some of the time	(3.6, 6.2)	(4.1, 7.5)	(**, **)	(2.8, 11.6)
	About half the time	(1.8, 3.9)	(1.9, 4.3)	(**, **)	(1.9, 9.4)
	Most of the time	(22.0, 27.2)	(22.6, 28.9)	(9.7, 18.5)	(22.7, 39.1)
		(63.3, 68.9)	(61.1, 67.8)	(81.0, 89.9)	(45.2, 63.0)
	Legitimately Skipped Question	(0.4, 1.6)	(0.3, 1.6)	(0.1, 2.5)	(0.4, 6.6)
35 va	yłWhy do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	(23.3, 28.6)	(24.4, 30.8)	(6.6, 14.6)	(26.3, 43.6)
	Firefighters do not trust that the SCBAs will work reliably	(**, **)	(0.0, 0.9)	(**, **)	(**, **)
	Firefighters don't think they need them	(8.6, 12.3)	(9.3, 13.9)	(4.6, 11.5)	(4.9, 15.6)
	Firefighters don't like sharing facepieces with others	(0.5, 1.8)	(0.6, 2.3)	(**, **)	(0.1, 5.8)
	Firefighters are concerned that the SCBA may be or become contaminated	(**, **)	(0.0, 0.8)	(**, **)	(**, **)
	Wearing SCBAs makes it more difficult to work	(4.6, 7.5)	(5.7, 9.4)	(0.8, 4.7)	(1.6, 9.2)
	Firefighters don't have SCBAs to use	(2.8, 5.4)	(3.1, 6.2)	(**, **)	(2.5, 11.8)
	Legitimately Skipped Question	(64.9, 70.5)	(62.2, 68.9)	(81.9, 90.6)	(48.9, 66.9)
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	(39.7, 46.3)	(38.5, 46.3)	(37.9, 51.4)	(34.4, 53.7)
	Once a month or more	(16.5, 21.7)	(14.9, 21.0)	(19.7, 32.4)	(11.2, 26.1)
	Several times a year	(12.8, 17.5)	(12.8, 18.6)	(10.2, 19.4)	(8.3, 22.2)
	Once a year	(14.1, 19.1)	(14.4, 20.4)	(10.1, 19.1)	(10.0, 24.6)
	Less than once a year	(3.1, 5.9)	(3.5, 7.0)	(0.1, 0.6)	(2.5, 11.7)
	Never. Maintenance has not been done on our SCBAs.	(0.8, 2.5)	(0.8, 2.8)	(0.3, 3.6)	(0.2, 9.0)
	Does not apply. My department does not have SCBAs.	(**, **)	(**, **)	(**, **)	(**, **)
	Legitimately Skipped Question	(0.5, 2.0)	(0.3, 1.9)	(0.1, 2.9)	(0.5, 7.8)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	(15.5, 19.8)	(12.7, 17.7)	(29.1, 40.2)	(6.3, 17.9)
		(80.2, 84.5)	(82.3, 87.3)	(59.8, 70.9)	(82.1, 93.7)
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	(18.5, 23.6)	(18.2, 24.3)	(9.7, 18.7)	(19.9, 36.3)
	We didn't know they were available	(12.9, 17.5)	(13.0, 18.5)	(7.3, 15.6)	(11.3, 25.6)
	We don't have adequate technical information to purchase them	(17.3, 22.3)	(18.1, 24.2)	(10.3, 19.8)	(13.1, 28.7)
	We don't have adequate funding to purchase them	(57.2, 63.2)	(60.0, 67.1)	(38.5, 50.9)	(53.3, 71.2)
		(3.7, 6.4)	(2.7, 5.5)	(5.4, 12.3)	(2.5, 11.9)
	Legitimately Skipped Question	(16.2, 20.6)	(13.4, 18.7)	(30.0, 41.3)	(6.3, 18.0)
38 he	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	(74.8, 79.9)	(74.6, 80.4)	(83.0, 91.4)	(58.0, 74.5)
		(20.1, 25.2)	(19.6, 25.4)	(8.6, 17.0)	(25.5, 42.0)
38a.	At your fire department, where do you have AEDs?				
No	At the fire station(s)	(1.9, 4.1)	(2.1, 4.9)	(0.0, 0.5)	(1.4, 8.8)
	On the emergency vehicles (or apparatus)	(58.9, 64.9)	(58.0, 65.1)	(66.2, 77.8)	(44.9, 63.0)
	Both at the fire station(s) and on the vehicles (or apparatus)	(8.7, 12.3)	(8.6, 13.1)	(9.7, 18.0)	(3.4, 13.0)
	Legitimately Skipped Question	(22.2, 27.7)	(21.5, 27.8)	(10.0, 19.7)	(27.5, 44.8)
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	(11.7, 16.4)	(9.8, 15.2)	(14.6, 24.6)	(8.6, 24.1)
	Once a month or more	(22.6, 28.5)	(21.2, 28.3)	(19.9, 31.1)	(20.5, 40.1)
	Several times a year	(18.0, 23.4)	(19.4, 26.4)	(14.9, 25.6)	(6.8, 21.6)
	Once a year	(19.6, 25.3)	(18.5, 25.2)	(20.0, 31.7)	(14.0, 32.0)
	Less frequently than once a year	(5.8, 9.5)	(6.0, 10.6)	(3.5, 10.4)	(2.8, 14.8)
	Never. Maintenance on our AEDs has not been done.	(8.4, 12.8)	(8.4, 13.6)	(2.2, 9.2)	(8.8, 24.8)

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		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
40.	About how often do your firefighters carry radios or other two- way communication devices while responding to structure fires?				
	Never	(1.0, 2.6)	(1.1, 3.1)	(0.1, 3.7)	(0.4, 6.4)
	Some of the time	(3.6, 6.1)	(4.6, 7.9)	(0.7, 5.1)	(0.6, 7.6)
	About half the time	(1.8, 3.8)	(2.0, 4.5)	(0.4, 4.2)	(0.8, 7.4)
	Most of the time	(18.3, 23.1)	(20.8, 26.8)	(7.1, 15.1)	(12.8, 26.5)
		(67.7, 73.0)	(62.0, 68.7)	(80.5, 89.6)	(66.5, 81.9)
41. Alwa	Some radios and other two-way communication devices can yhave problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		(15.9, 20.4)	(15.8, 21.2)	(13.1, 22.4)	(11.6, 25.4)
	Some of the time	(61.6, 67.3)	(58.9, 65.7)	(68.7, 79.3)	(54.2, 71.4)
Neve	rAbout half the time	(8.6, 12.2)	(9.2, 13.6)	(3.2, 8.5)	(7.0, 18.3)
	Most of the time	(4.2, 6.9)	(4.5, 7.9)	(1.3, 6.1)	(2.5, 11.4)
		(1.1, 2.9)	(1.3, 3.5)	(0.0, 0.5)	(0.8, 7.4)

Always

			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	(45.7, 51.6)	(47.3, 54.3)	(30.0, 41.5)	(43.8, 61.4)
	Adequate	(42.8, 48.6)	(41.3, 48.2)	(46.9, 59.0)	(33.7, 51.1)
	More than adequate	(4.5, 7.2)	(3.2, 6.1)	(8.1, 16.0)	(2.3, 10.8)
42b.	Training				
	Not adequate	(36.3, 42.0)	(37.5, 44.4)	(28.5, 39.2)	(29.4, 46.7)
	Adequate	(52.7, 58.6)	(51.4, 58.4)	(52.9, 64.4)	(46.2, 64.0)
	More than adequate	(4.0, 6.8)	(3.0, 5.7)	(4.9, 11.7)	(3.6, 13.8)
42c.	Personnel				
	Not adequate	(48.5, 54.5)	(50.1, 57.2)	(42.4, 54.1)	(37.2, 55.7)
	Adequate	(41.3, 47.3)	(40.0, 47.1)	(39.1, 51.1)	(37.4, 55.9)
	More than adequate	(3.1, 5.7)	(1.8, 4.3)	(4.1, 10.9)	(3.6, 13.8)
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		(24.2, 29.5)	(24.5, 30.8)	(9.0, 17.6)	(29.4, 46.6)
	One or two times per year	(31.6, 37.2)	(32.0, 38.7)	(28.4, 39.9)	(23.4, 39.9)
Neve	rSeveral times per year	(30.5, 35.9)	(28.9, 35.4)	(41.2, 53.3)	(16.9, 32.2)
	Once a month or more	(4.5, 7.2)	(3.8, 6.8)	(4.2, 8.9)	(3.9, 14.4)
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	(53.1, 58.9)	(53.4, 60.4)	(52.5, 64.1)	(40.9, 58.8)
	On the Internet	(22.4, 27.1)	(20.8, 26.6)	(35.1, 46.5)	(8.2, 20.4)
	From colleagues in other departments	(8.3, 11.8)	(6.9, 10.8)	(9.4, 17.2)	(7.4, 19.3)
	At conferences or other meetings	(5.7, 8.5)	(4.5, 7.7)	(10.3, 17.8)	(1.9, 9.9)
	Legitimately Skipped Question	(24.2, 29.5)	(24.6, 30.9)	(9.0, 17.5)	(29.1, 46.2)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	(50.4, 56.2)	(48.4, 55.4)	(66.9, 77.9)	(31.9, 49.1)
		(17.8, 22.5)	(17.8, 23.5)	(10.8, 19.4)	(16.9, 31.8)
	Legitimately Skipped Question	(24.1, 29.4)	(24.6, 30.9)	(9.0, 17.6)	(28.3, 45.1)
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
	Yes	(57.7, 63.5)	(57.5, 64.4)	(64.6, 75.8)	(40.2, 58.3)
		(10.2, 14.1)	(8.8, 13.2)	(12.6, 21.9)	(7.4, 19.6)
	Legitimately Skipped Question	(24.7, 30.0)	(25.1, 31.5)	(9.1, 17.7)	(30.1, 47.7)
50 a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	(21.1, 26.1)	(21.1, 27.1)	(17.1, 27.0)	(16.9, 32.3)
	Training sessions	(41.3, 47.2)	(40.4, 47.4)	(43.3, 55.5)	(31.7, 49.4)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(12.1, 16.9)	(24.1, 34.3)	(6.4, 17.9)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(4.6, 7.9)	(6.4, 13.2)	(1.5, 9.1)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(1.0, 2.9)	(2.1, 6.9)	(0.0, 0.8)
	Postings on bulletin boards	(35.6, 41.3)	(35.3, 42.0)	(40.6, 52.8)	(22.1, 38.6)
	Post report on the department website	(0.7, 1.8)	(0.5, 2.0)	(1.4, 5.1)	(**, **)
	Send message to firefighters by email	(4.3, 6.5)	(3.2, 5.7)	(10.1, 16.8)	(0.5, 6.6)
		(0.8, 2.0)	(0.7, 2.4)	(1.1, 4.4)	(**, **)
	Legitimately Skipped Question	(36.2, 42.0)	(35.3, 42.1)	(24.5, 35.8)	(41.1, 59.0)
51 he	r The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		(316369)	(28.6.35.1)	(529 64 9)	(13 4 27 3)
		(35, 5, 41, 3)	(365 43 4)	(22.8 33.0)	(33 9 51 6)
Vos	Legitimately Skipped Question	(24 8 30 2)	(25, 2, 31, 7)	(9 2 17 9)	(29.8 47 1)
No		(21.0, 00.2)	(20.2, 01.7)	(,,,,,,,)	(continued)

No

		Rural/Urban				
	Question	Total	Rural	Urban	Unknown	
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	(0.2, 1.1)	(0.1, 0.9)	(0.2, 2.0)	(0.1, 6.2)	
	Disagree	(2.6, 4.8)	(2.6, 5.4)	(3.0, 8.8)	(0.1, 6.0)	
	Neither Agree nor Disagree	(16.5, 21.2)	(16.6, 22.2)	(13.7, 23.0)	(11.3, 25.5)	
	Agree	(42.7, 48.6)	(41.1, 48.1)	(52.2, 64.2)	(28.4, 46.3)	
	Strongly Agree	(2.7, 5.0)	(2.2, 4.8)	(3.1, 8.1)	(1.5, 10.2)	
	Legitimately Skipped Question	(25.3, 30.8)	(25.6, 32.2)	(9.3, 18.0)	(31.4, 49.3)	
52b.	Recommendations are easy to understand					
	Strongly Disagree	(0.2, 1.0)	(0.1, 0.9)	(0.2, 1.8)	(0.1, 6.3)	
	Disagree	(1.1, 2.6)	(0.9, 2.8)	(1.5, 5.9)	(0.1, 6.2)	
	Neither Agree nor Disagree	(17.5, 22.3)	(18.5, 24.4)	(12.8, 21.9)	(10.7, 24.5)	
	Agree	(42.4, 48.4)	(40.6, 47.6)	(53.1, 65.0)	(27.8, 45.9)	
	Strongly Agree	(3.5, 6.1)	(2.7, 5.5)	(4.8, 11.2)	(2.1, 11.4)	
	Legitimately Skipped Question	(25.4, 30.9)	(25.7, 32.2)	(9.3, 18.1)	(31.7, 49.7)	
52c.	Recommendations are specific and concrete					
	Strongly Disagree	(0.2, 1.0)	(0.0, 0.7)	(0.4, 2.4)	(0.1, 6.3)	
	Disagree	(2.3, 4.4)	(2.3, 4.9)	(2.8, 8.3)	(0.1, 6.3)	
	Neither Agree nor Disagree	(24.0, 29.4)	(24.0, 30.3)	(21.3, 32.1)	(18.1, 34.3)	
	Agree	(35.0, 40.8)	(33.6, 40.5)	(43.4, 55.6)	(21.9, 39.0)	
	Strongly Agree	(2.8, 5.2)	(2.5, 5.4)	(3.2, 8.2)	(1.0, 9.0)	
	Legitimately Skipped Question	(25.4, 30.8)	(25.7, 32.2)	(9.3, 18.1)	(31.4, 49.3)	

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	(54.4, 60.4)	(51.4, 58.6)	(67.8, 78.9)	(41.0, 59.2)
	Respirator maintenance program guide	(11.9, 15.9)	(11.6, 16.5)	(15.9, 25.4)	(3.6, 12.5)
	CDs of firefighter program materials	(25.4, 30.7)	(24.7, 31.1)	(28.5, 39.9)	(15.8, 31.2)
	Alerts	(29.1, 34.5)	(27.7, 34.2)	(41.3, 53.4)	(12.9, 27.4)
	Hazard IDs	(14.5, 19.0)	(14.0, 19.3)	(14.5, 24.1)	(9.4, 22.7)
	Workplace Solutions	(10.7, 14.6)	(10.7, 15.5)	(11.0, 19.6)	(4.6, 15.1)
		(0.4, 1.4)	(0.5, 2.0)	(0.2, 2.4)	(**, **)
	None. I have not seen any NIOSH materials.	(22.6, 27.9)	(22.3, 28.7)	(10.2, 19.1)	(27.5, 44.9)
53a	r How satisfied or dissatisfied are you with these NIOSH				
	materials?				
	Very dissatisfied	(0.8, 2.2)	(0.6, 2.2)	(0.7, 3.6)	(0.4, 6.6)
	Dissatisfied	(0.0, 0.7)	(0.1, 1.1)	(**, **)	(**, **)
	Neither satisfied nor dissatisfied	(18.8, 23.8)	(19.5, 25.5)	(14.3, 24.1)	(12.8, 27.3)
	Satisfied	(44.1, 50.1)	(43.5, 50.6)	(49.4, 61.3)	(30.5, 48.4)
	Very satisfied	(4.0, 6.7)	(2.8, 5.7)	(7.2, 14.3)	(2.0, 10.4)
	Legitimately Skipped Question	(22.4, 27.7)	(22.1, 28.3)	(10.2, 19.0)	(27.4, 44.7)
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		(56.5, 62.2)	(57.6, 64.4)	(37.5, 49.2)	(60.4, 76.9)
	Yes, in the last year	(31.9, 37.3)	(29.2, 35.7)	(45.4, 57.1)	(19.1, 35.0)
No	Yes, longer than one year ago	(4.9, 7.6)	(5.1, 8.6)	(3.5, 8.6)	(2.1, 9.3)

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
1.	Does your department have a Safety Officer?				
		1,587	930	515	142
		1,587	930	515	142
2es	Does your department have a Training Officer?				
No		1,600	940	520	140
		1,600	940	520	140
Sees No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	1,600	937	520	143
	Maintenance of SCBAs	1,600	937	520	143
	Motor vehicle safety	1,600	937	520	143
	Participation in a personal physical fitness program	1,600	937	520	143
	Participation in regular health screenings for cardiovascular disease (CVD)	1,600	937	520	143
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	1,600	937	520	143
	Use of Personal Alert Safety System (PASS) devices	1,600	937	520	143
	Use of personal protective equipment and protective clothing	1,600	937	520	143
	Use of radio communications	1,600	937	520	143
		1,600	937	520	143
	Does not apply. Our fire department does not use SOPs/SOGs.	1,600	937	520	143

Other

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?				
4a.	Fighting structure fires				
	No Training	1,607	946	521	140
	Optional Training	1,607	946	521	140
	Required Training	1,607	946	521	140
4b.	Driving safety				
	No Training	1,598	938	520	140
	Optional Training	1,598	938	520	140
	Required Training	1,598	938	520	140
4c.	Incident Command systems				
	No Training	1,584	928	514	142
	Optional Training	1,584	928	514	142
	Required Training	1,584	928	514	142
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	1,581	929	511	141
	Optional Training	1,581	929	511	141
	Required Training	1,581	929	511	141
4e.	Rapid Intervention Teams (RITs)				
	No Training	1,511	871	508	132
	Optional Training	1,511	871	508	132
	Required Training	1,511	871	508	132
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1,611	948	520	143
	Optional Training	1,611	948	520	143
	Required Training	1,611	948	520	143
					(continued)

			Rural/Urban			
	Question	Total	Rural	Urban	Unknown	
4g.	Use of radio communication devices					
	No Training	1,606	945	517	144	
	Optional Training	1,606	945	517	144	
	Required Training	1,606	945	517	144	
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.					
	Our department's Training Officer	1,611	949	520	142	
	Other officers within our department	1,611	949	520	142	
	State fire training agency	1,611	949	520	142	
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	1,611	949	520	142	
	Conferences or regional meetings	1,611	949	520	142	
		1,611	949	520	142	
6. Othe	What other trainings have your firefighters attended in the last or 12 months? MARK ALL THAT APPLY.					
	Roadside incidents/Motor Vehicle Accidents (MVA)	1,622	954	524	144	
	Scuba diving	1,622	954	524	144	
	Swift water rescue	1,622	954	524	144	
	Wildland fire fighting	1,622	954	524	144	
		1,622	954	524	144	
		1,622	954	524	144	
B AZ Othe	M와ow familiar are you with the National Institute for _{er} Occupational Safety and Health (NIOSH)?					
	Not at all familiar	1,610	947	521	142	
	Not very familiar	1,610	947	521	142	
	Somewhat familiar	1,610	947	521	142	
	Very familiar	1,610	947	521	142	

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	1,611	947	521	143
	Not very familiar	1,611	947	521	143
	Somewhat familiar	1,611	947	521	143
	Very familiar	1,611	947	521	143
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	1,609	946	522	141
	National conference presentations	1,609	946	522	141
	State-level conference presentations	1,609	946	522	141
	Other firefighters or departments	1,609	946	522	141
	At seminars or other training opportunities (not conferences)	1,609	946	522	141
	Trade publications (such as Firehouse and Fire Engineering)	1,609	946	522	141
	NIOSH website	1,609	946	522	141
	Links from other websites (such as NFPA and Firehouse)	1,609	946	522	141
	Media reports-newspaper, television, radio	1,609	946	522	141
		1,609	946	522	141
Othe	Does not apply. We have not received information about NIOSH recommendations.	1,609	946	522	141
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	1,536	895	509	132
	Developed new SOPs/SOGs	1,536	895	509	132
	Made changes to SOPs/SOGs	1,536	895	509	132
	Justified current budget/staffing	1,536	895	509	132
	Made new budget/staffing requests	1,536	895	509	132
	Justified grant applications	1,536	895	509	132
	Does not apply. We have not used NIOSH recommendations.	1,536	895	509	132
	Legitimately Skipped Question	1,536	895	509	132
					(continued)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	1,530	891	507	132
	Personal protective equipment and clothing	1,530	891	507	132
		1,530	891	507	132
	PASS systems	1,530	891	507	132
SCBA	A Incident Command systems	1,530	891	507	132
	Radio communications	1,530	891	507	132
	Physical fitness and cardiovascular disease (CVD)	1,530	891	507	132
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	891	507	132
		1,530	891	507	132
Othe	Does not apply. We have not used NIOSH recommendations for training $_{\rm r}$ purposes.	1,530	891	507	132
othe	Legitimately Skipped Question	1,530	891	507	132
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		1,596	942	515	139
	Yes, it's required	1,596	942	515	139
No	Yes, it's optional	1,596	942	515	139
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	1,582	933	510	139
	Less frequently than once a year	1,582	933	510	139
	One time a year	1,582	933	510	139
	More than one time a year	1,582	933	510	139
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	933	510	139

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	1,616	949	524	143
	Yes, they receive training required by the department	1,616	949	524	143
	Yes, they receive training required by the state	1,616	949	524	143
	Yes, they receive optional training	1,616	949	524	143
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	1,611	946	522	143
	Once every year	1,611	946	522	143
	Less frequently than once a year	1,611	946	522	143
	Does not apply. Firefighters are not required to receive continuing driver training.	1,611	946	522	143
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
	Yes	1,613	947	522	144
		1,613	947	522	144
17. No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	1,603	943	520	140
	Disagree	1,603	943	520	140
	Neither agree nor disagree	1,603	943	520	140
	Agree	1,603	943	520	140
	Strongly agree	1,603	943	520	140
			-		
--	-------	--------	--------	---------	
		Rural,	/Urban		
Question	Total	Rural	Urban	Unknown	
18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
	1,616	950	524	142	
Some of the time	1,616	950	524	142	
NeverAbout half the time	1,616	950	524	142	
Most of the time	1,616	950	524	142	
	1,616	950	524	142	
21. How often is Incident Command established when responding to Alwaystructure fires?					
	1,604	942	521	141	
Rarely	1,604	942	521	141	
NeverAbout half the time	1,604	942	521	141	
Most of the time	1,604	942	521	141	
	1,604	942	521	141	
22. What are the reasons why Incident Command is not always Alwayestablished by your fire department? MARK ALL THAT APPLY.					
Fires are not usually big enough to require an Incident Commander	1,600	941	519	140	
Not enough firefighters available at the scene of the fire	1,600	941	519	140	
	1,600	941	519	140	
Does not apply. My department always assigns an Incident Commander	1,600	941	519	140	
Other for structure fires.					
Legitimately Skipped Question	1,600	941	519	140	

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	1,588	936	516	136
	Develop and coordinate the fire attack strategy	1,588	936	516	136
	Develop and initiate a risk management plan	1,588	936	516	136
	Document all assessments, plans and events related to the fire	1,588	936	516	136
	Ensure that at least four (4) firefighters are on the scene before entering the building	1,588	936	516	136
	Establish a collapse zone around the building	1,588	936	516	136
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	1,588	936	516	136
	Identify and implement a communication strategy	1,588	936	516	136
	Monitor location of all firefighters at the scene	1,588	936	516	136
		1,588	936	516	136
24. Othe	About how often does an Incident Commander assign an $_{\rm r}$ Incident Safety Officer when responding to structure fires?				
00	Never	1,605	946	522	137
	Some of the time	1,605	946	522	137
	About half the time	1,605	946	522	137
	Most of the time	1,605	946	522	137
		1,605	946	522	137
25. Alwa	What are the reasons why an Incident Commander does not _y always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	1,588	936	518	134
	Not enough firefighters are available at the scene of the fire	1,588	936	518	134
		1,588	936	518	134
Othe	Does not apply. Our Incident Commanders always assign an Incident r Safety Officer for structure fires.	1,588	936	518	134
2.10	Legitimately Skipped Question	1,588	936	518	134
					(continued)

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Exhibit B-3c.	Results from the Fire Department Survey, Sample Sizes by Jurisdiction Type (continued)

		Rural/Urban			
Question	Total	Rural	Urban	Unknown	
26. How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?					
Never	1,602	943	518	141	
Some of the time	1,602	943	518	141	
About half the time	1,602	943	518	141	
Most of the time	1,602	943	518	141	
	1,602	943	518	141	
27. In what situations are RITs/RICs established? MARK ALL THAT Alway APPLY.					
When the building has more than one story/floor	1,600	940	521	139	
When there are enough firefighters on and at the scene of the fire	1,600	940	521	139	
Whenever firefighters enter a burning building	1,600	940	521	139	
	1,600	940	521	139	
Legitimately Skipped Question	1,600	940	521	139	
28 aer What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.					
The structure fire may not be large enough to need an RIT/RIC	1,575	923	515	137	
We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	1,575	923	515	137	
We don't have enough firefighters available at the scene of the fire	1,575	923	515	137	
We don't have enough training or trained personnel at the scene to establish an RIT/RIC	1,575	923	515	137	
We have never established an RIT/RIC	1,575	923	515	137	
We use other fire departments in the area for RITs/RICs	1,575	923	515	137	
We use other safety practices and so we don't need them	1,575	923	515	137	
	1,575	923	515	137	
Legitimately Skipped Question	1,575	923	515	137	
Og her Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?					
	1,606	944	523	139	
	1,606	944	523	139	
Yes		·	•	(continued	

Yes

No

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		1,600	941	521	138
	Some of the time	1,600	941	521	138
Neve	erAbout half the time	1,600	941	521	138
	Most of the time	1,600	941	521	138
		1,600	941	521	138
31.	Why do you think your firefighters do not use their PASS devices $_{\rm V}$ more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	1,590	933	520	137
	Situation doesn't require them	1,590	933	520	137
	Firefighters think the devices do not always work reliably	1,590	933	520	137
	Firefighters don't think they need them	1,590	933	520	137
	Devices go off while firefighters are resting	1,590	933	520	137
	Legitimately Skipped Question	1,590	933	520	137
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		1,606	945	522	139
		1,606	945	522	139
336	Do your firefighters ever have to share facepieces for SCBAs?				
No		1,521	908	476	137
		1,521	908	476	137
Yes	Legitimately Skipped Question	1,521	908	476	137
No				•	(continued)

No

Appendix B — Post-Data Collection Methodology and Analysis Tables

	Rural/Urban				
Question	Total	Rural	Urban	Unknown	
33a. What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.					
Didn't know it was recommended	1,517	904	474	139	
Firefighters don't like using the equipment	1,517	904	474	139	
Have never needed them (e.g., we don't do interior attacks)	1,517	904	474	139	
They cost too much, there is not enough money in the budget	1,517	904	474	139	
We don't have enough equipment for all of our firefighters	1,517	904	474	139	
Shared systems work fine for our needs	1,517	904	474	139	
	1,517	904	474	139	
Legitimately Skipped Question	1,517	904	474	139	
her About how often do you think your firefighters use SCBAs while fighting structure fires?					
Never	1,536	915	482	139	
Some of the time	1,536	915	482	139	
About half the time	1,536	915	482	139	
Most of the time	1,536	915	482	139	
	1,536	915	482	139	
Legitimately Skipped Question	1,536	915	482	139	
bwayWhy do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.					
Situation doesn't require them	1,525	910	481	134	
Firefighters do not trust that the SCBAs will work reliably	1,525	910	481	134	
Firefighters don't think they need them	1,525	910	481	134	
Firefighters don't like sharing facepieces with others	1,525	910	481	134	
Firefighters are concerned that the SCBA may be or become contaminated	1,525	910	481	134	
Wearing SCBAs makes it more difficult to work	1,525	910	481	134	
Firefighters don't have SCBAs to use	1,525	910	481	134	
Legitimately Skipped Question	1.525	910	481	134	

			Rural/	Urban	
	Question	Total	Rural	Urban	Unknown
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	1,270	739	415	116
	Once a month or more	1,270	739	415	116
	Several times a year	1,270	739	415	116
	Once a year	1,270	739	415	116
	Less than once a year	1,270	739	415	116
	Never. Maintenance has not been done on our SCBAs.	1,270	739	415	116
	Does not apply. My department does not have SCBAs.	1,270	739	415	116
	Legitimately Skipped Question	1,270	739	415	116
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	1,518	899	487	132
		1,518	899	487	132
37a Zero	. What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
2010	CBRN SCBA devices are not needed in our department	1,454	853	473	128
	We didn't know they were available	1,454	853	473	128
	We don't have adequate technical information to purchase them	1,454	853	473	128
	We don't have adequate funding to purchase them	1,454	853	473	128
		1,454	853	473	128
	Legitimately Skipped Question	1,454	853	473	128
38 a∈	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	1,610	951	515	144
		1,610	951	515	144
38a	At your fire department, where do you have AEDs?				
No	At the fire station(s)	1,424	858	433	133
	On the emergency vehicles (or apparatus)	1,424	858	433	133
	Both at the fire station(s) and on the vehicles (or apparatus)	1,424	858	433	133
	Legitimately Skipped Question	1,424	858	433	133
					(continued)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	1,235	702	437	96
	Once a month or more	1,235	702	437	96
	Several times a year	1,235	702	437	96
	Once a year	1,235	702	437	96
	Less frequently than once a year	1,235	702	437	96
	Never. Maintenance on our AEDs has not been done.	1,235	702	437	96
40.	About how often do your firefighters carry radios or other two- way communication devices while responding to structure fires?				
	Never	1,610	946	523	141
	Some of the time	1,610	946	523	141
	About half the time	1,610	946	523	141
	Most of the time	1,610	946	523	141
		1,610	946	523	141
41. Alwa	Some radios and other two-way communication devices can ybave problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		1,612	947	523	142
	Some of the time	1,612	947	523	142
Neve	PrAbout half the time	1,612	947	523	142
	Most of the time	1,612	947	523	142
		1,612	947	523	142

Always

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		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	1,608	944	521	143
	Adequate	1,608	944	521	143
	More than adequate	1,608	944	521	143
42b.	Training				
	Not adequate	1,608	945	521	142
	Adequate	1,608	945	521	142
	More than adequate	1,608	945	521	142
42c.	Personnel				
	Not adequate	1,551	904	516	131
	Adequate	1,551	904	516	131
	More than adequate	1,551	904	516	131
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		1,605	948	518	139
	One or two times per year	1,605	948	518	139
Neve	rSeveral times per year	1,605	948	518	139
	Once a month or more	1,605	948	518	139
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	1,605	945	519	141
	On the Internet	1,605	945	519	141
	From colleagues in other departments	1,605	945	519	141
	At conferences or other meetings	1,605	945	519	141
	Legitimately Skipped Question	1,605	945	519	141
					(continued)

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	1,611	948	519	144
		1,611	948	519	144
	Legitimately Skipped Question	1,611	948	519	144
5 0.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
	Yes	1,583	929	518	136
		1,583	929	518	136
	Legitimately Skipped Question	1,583	929	518	136
5 0a	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	1,585	935	511	139
	Training sessions	1,585	935	511	139
	Provide copies of NIOSH reports to firefighters	1,585	935	511	139
	Provide copies of NIOSH report summaries to firefighters	1,585	935	511	139
	Provide summaries prepared by department to firefighters	1,585	935	511	139
	Postings on bulletin boards	1,585	935	511	139
	Post report on the department website	1,585	935	511	139
	Send message to firefighters by email	1,585	935	511	139
		1,585	935	511	139
	Legitimately Skipped Question	1,585	935	511	139
51 he	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
	-	1,564	923	504	137
		1,564	923	504	137
Yes	Legitimately Skipped Question	1,564	923	504	137

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No

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	1,547	908	507	132
	Disagree	1,547	908	507	132
	Neither Agree nor Disagree	1,547	908	507	132
	Agree	1,547	908	507	132
	Strongly Agree	1,547	908	507	132
	Legitimately Skipped Question	1,547	908	507	132
52b.	Recommendations are easy to understand				
	Strongly Disagree	1,537	905	503	129
	Disagree	1,537	905	503	129
	Neither Agree nor Disagree	1,537	905	503	129
	Agree	1,537	905	503	129
	Strongly Agree	1,537	905	503	129
	Legitimately Skipped Question	1,537	905	503	129
52c.	Recommendations are specific and concrete				
	Strongly Disagree	1,537	904	502	131
	Disagree	1,537	904	502	131
	Neither Agree nor Disagree	1,537	904	502	131
	Agree	1,537	904	502	131
	Strongly Agree	1,537	904	502	131
	Legitimately Skipped Question	1,537	904	502	131

		Rural/Urban			
	Question	Total	Rural	Urban	Unknown
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	1,537	896	507	134
	Respirator maintenance program guide	1,537	896	507	134
	CDs of firefighter program materials	1,537	896	507	134
	Alerts	1,537	896	507	134
	Hazard IDs	1,537	896	507	134
	Workplace Solutions	1,537	896	507	134
		1,537	896	507	134
	None. I have not seen any NIOSH materials.	1,537	896	507	134
53 a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1,536	897	506	133
	Dissatisfied	1,536	897	506	133
	Neither satisfied nor dissatisfied	1,536	897	506	133
	Satisfied	1,536	897	506	133
	Very satisfied	1,536	897	506	133
	Legitimately Skipped Question	1,536	897	506	133
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		1,589	934	518	137
	Yes, in the last year	1,589	934	518	137
No	Yes, longer than one year ago	1.589	934	518	137

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
1.	Does your department have a Safety Officer?				
		70.3	86.8 [2,3]	72.0 ^[1]	68.8 ^[1]
		29.7	13.2 ^[2,3]	28.0 ^[1]	31.2 [1]
2 es	Does your department have a Training Officer?				
No		88.5	99 .0 ^[2,3]	91 .5 ^[1,3]	86.7 [1,2]
		11.5	1.0 [2,3,+]	8.5 ^[1,3]	13.3 ^[1,2]
S ⊋s No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	83.7	97.7 ^[2,3]	93.1 ^[1,3]	79.0 ^[1,2]
	Maintenance of SCBAs	69.7	87.5 ^[2,3]	77.1 ^[1,3]	65.7 ^[1,2]
	Motor vehicle safety	78.8	92.3 ^[2,3]	82.8 ^[1,3]	76.5 ^[1,2]
	Participation in a personal physical fitness program	11.0	54.0 ^[2,3]	19.7 ^[1,3]	5.5 ^[1,2]
	Participation in regular health screenings for cardiovascular disease (CVD)	16.8	50.1 ^[2,3]	26.8 ^[1,3]	11.0 ^[1,2]
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	40.4	89.4 ^[2,3]	60.8 [1,3]	29.4 ^[1,2]
	Use of Personal Alert Safety System (PASS) devices	75.4	90.4 [2,3]	84.8 [1,3]	70.6 [1,2]
	Use of personal protective equipment and protective clothing	89.1	96.8 ^[2,3]	93.1 ^[1,3]	87.1 ^[1,2]
	Use of radio communications	84.8	95.0 ^[2,3]	89.6 [1,3]	82.3 ^[1,2]
	Other	8.7	16.8 [3]	13.5 ^[3]	6.3 [1,2]
	Does not apply. Our fire department does not use SOPs/SOGs.	5.0	** [2,3]	2.1 ^[1,3]	6.5 ^[1,2]

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires				
	No Training	1.1	0.4 [+]	* * [3,+]	1.6 ^[2]
	Optional Training	16.7	2.6 ^[2,3]	7.6 ^[1,3]	21.4 ^[1,2]
	Required Training	82.8	97.0 ^[2,3]	92.7 ^[1,3]	77.8 ^[1,2]
4b.	Driving safety				
	No Training	3.9	1.4 [3]	1.2 [3]	5.3 [1,2]
	Optional Training	18.6	4.1 ^[2,3]	11.8 ^[1,3]	22.2 ^[1,2]
	Required Training	77.7	94.5 ^[2,3]	87.4 [1,3]	72.6 ^[1,2]
4c.	Incident Command systems				
	No Training	2.9	0.1 ^[3,+]	1.0 [3]	3.9 ^[1,2]
	Optional Training	27.4	4.7 ^[2,3]	14.2 [1,3]	34.3 [1,2]
	Required Training	69.9	95.1 ^[2,3]	84.8 ^[1,3]	62.1 ^[1,2]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	6.6	3.2 [3]	5.0	7.4 [1]
	Optional Training	33.6	10.7 ^[2,3]	26.2 [1,3]	37.8 ^[1,2]
	Required Training	60.3	87.3 ^[2,3]	69.0 ^[1,3]	55.3 ^[1,2]
4e.	Rapid Intervention Teams (RITs)				
	No Training	28.5	1.7 ^[2,3]	12.4 ^[1,3]	37.1 ^[1,2]
	Optional Training	36.2	10.9 [2,3]	34.7 [1]	38.0 [1]
	Required Training	35.5	87.4 [2,3]	53.6 ^[1,3]	24.9 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
	Question	Total	People	People	People
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1.5	1.2 [+]	0.9	1.7
	Optional Training	9.9	3.2 [3]	5.4 [3]	12.1 ^[1,2]
	Required Training	88.9	95.7 ^[3]	94.0 ^[3]	86.3 ^[1,2]
4g.	Use of radio communication devices				
	No Training	2.7	2.3	1.6	3.2
	Optional Training	21.4	6.4 [2,3]	14.1 ^[1,3]	25.2 ^[1,2]
	Required Training	76.2	92.1 ^[2,3]	84.4 [1,3]	71.9 ^[1,2]
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	84.9	97.7 ^[2,3]	89.3 ^[1,3]	82.4 [1,2]
	Other officers within our department	82.8	96.6 [2,3]	89.9 ^[1,3]	79.1 ^[1,2]
	State fire training agency	77.4	74.9 [2]	83.9 ^[1,3]	74.7 [2]
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	20.9	67.8 ^[2,3]	36.5 ^[1,3]	12.1 ^[1,2]
	Conferences or regional meetings	51.7	77.6 [2,3]	61.9 ^[1,3]	46.1 ^[1,2]
	Other	25.2	28.0	29.9 ^[3]	23.0 [2]
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	55.3	57.9	62.1 ^[3]	52.2 ^[2]
	Scuba diving	7.5	21.4 [2,3]	10.5 ^[1,3]	5.6 ^[1,2]
	Swift water rescue	11.2	48.2 [2,3]	17.2 ^[1,3]	7.0 ^[1,2]
	Wildland fire fighting	47.0	38.7 ^[3]	40.0 [3]	50.5 ^[1,2]
	HAZMAT	66.7	92.4 ^[2,3]	80.5 ^[1,3]	59.5 ^[1,2]
	Other	31.2	43.6 [2,3]	34.0 ^[1]	29.4 [1]

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	8.3	0.3 [2,3,+]	3.6 ^[1,3]	10.7 ^[1,2]
	Not very familiar	24.3	6.0 ^[2,3]	16.2 ^[1,3]	28.7 ^[1,2]
	Somewhat familiar	58.1	54.3 [2]	64.9 ^[1,3]	55.3 ^[2]
	Very familiar	9.3	39 .3 ^[2,3]	15.3 ^[1,3]	5.3 ^[1,2]
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	20.8	5.8 [2,3]	13.0 ^[1,3]	24.9 ^[1,2]
	Not very familiar	33.5	19.7 ^[2,3]	28.4 [1,3]	36.4 [1,2]
	Somewhat familiar	37.9	44.6 [3]	45.9 ^[3]	34.1 ^[1,2]
	Very familiar	7.8	29 .9 ^[2,3]	12.7 ^[1,3]	4.7 ^[1,2]
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	67.8	74.4 [3]	71.6 [3]	65.8 ^[1,2]
	National conference presentations	3.6	24.1 ^[2,3]	6.8 ^[1,3]	1 .4 ^[1,2]
	State-level conference presentations	11.5	24.5 [2,3]	12.8 ^[1]	10.3 ^[1]
	Other firefighters or departments	22.9	29.2 [2]	21.9 ^[1]	23.1
	At seminars or other training opportunities (not conferences)	16.4	29.3 [2,3]	18.5 ^[1]	14.9 ^[1]
	Trade publications (such as Firehouse and Fire Engineering)	47.2	66.6 [2,3]	57.0 ^[1,3]	42.0 ^[1,2]
	NIOSH website	24.3	72.3 [2,3]	34.8 [1,3]	17.6 ^[1,2]
	Links from other websites (such as NFPA and Firehouse)	28.2	53.4 ^[2,3]	35.2 [1,3]	24.0 ^[1,2]
	Media reports-newspaper, television, radio	14.9	17.6	17.6	13.6
		1.1	3.2 [3]	1.6	0.8 [1]
Oth	Does not apply. We have not received information about NIOSH or recommendations.	11.1	1.1 ^[2,3,+]	4.3 ^[1,3]	14.6 [1,2]

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	40.2	64.9 ^[2,3]	50.1 ^[1,3]	34.5 [1,2]
	Developed new SOPs/SOGs	26.3	47.4 [2,3]	35.3 ^[1,3]	21.3 ^[1,2]
	Made changes to SOPs/SOGs	34.9	67.3 [2,3]	47.8 [1,3]	27.6 ^[1,2]
	Justified current budget/staffing	5.0	16.3 [2,3]	7.9 ^[1,3]	3.2 [1,2]
	Made new budget/staffing requests	5.5	16.6 [2,3]	9.7 ^[1,3]	3.1 ^[1,2]
	Justified grant applications	15.5	27.7 [3]	20.5 [3]	12.7 ^[1,2]
	Does not apply. We have not used NIOSH recommendations.	30.1	13.3 ^[2,3]	24.6 [1,3]	33.3 ^[1,2]
	Legitimately Skipped Question	11.7	1.2 [2,3,+]	4.4 [1,3]	15.5 ^[1,2]
115.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	29.3	42.1 ^[2,3]	34.0 ^[1,3]	26.6 ^[1,2]
	Personal protective equipment and clothing	41.6	61.8 [2,3]	51.1 ^[1,3]	36.3 [1,2]
	SCBA	40.1	63.4 ^[2,3]	52.2 ^[1,3]	33.4 ^[1,2]
	PASS systems	32.6	44.5 ^[3]	42.9 ^[3]	27.3 ^[1,2]
	Incident Command systems	32.1	48.1 ^[3]	41.1 ^[3]	27.2 [1,2]
	Radio communications	23.0	37.7 ^[3]	29.8 [3]	19.3 ^[1,2]
	Physical fitness and cardiovascular disease (CVD)	8.5	27.5 ^[2,3]	14.4 ^[1,3]	5.0 ^[1,2]
	Building code compliance (e.g., warning against the use of wooden trusses)	6.9	13.1 [3]	8.4	6.0 ^[1]
	Other	2.3	5.5 ^[3]	3.6	1.6 ^[1]
	Does not apply. We have not used NIOSH recommendations for training purposes.	1.9	1.2 [+]	1.8	2.0
	Legitimately Skipped Question	41.9	14.7 ^[2,3]	28.7 ^[1,3]	49.1 ^[1,2]

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		78.5	24.5 [2,3]	58.2 ^[1,3]	89.7 ^[1,2]
	Yes, it's required	7.0	36.4 [2,3]	12.8 ^[1,3]	3.2 ^[1,2]
No	Yes, it's optional	14.5	39.1 ^[2,3]	29.0 ^[1,3]	7.1 ^[1,2]
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	14.5	18.7 ^[2,3]	25.8 ^[1,3]	9.4 ^[1,2]
	Less frequently than once a year	7.1	14.2 [3]	9.2 [3]	5.9 ^[1,2]
	One time a year	17.1	51.9 ^[2,3]	25.2 ^[1,3]	12.2 ^[1,2]
	More than one time a year	0.3	1.2 [+]	0.6	0.1 [+]
	Does not apply. Firefighters are not required to receive CVD screenings	60.9	14.0 ^[2,3]	39.1 ^[1,3]	72.5 ^[1,2]
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	6.4	2.4 [3]	2.9 [3]	8.1 ^[1,2]
	Yes, they receive training required by the department	84.0	93.5 ^[3]	92.0 ^[3]	80.1 ^[1,2]
	Yes, they receive training required by the state	25.7	31.5 ^[3]	31.4 [3]	23.0 ^[1,2]
	Yes, they receive optional training	13.8	9.8 [3]	12.1	14.6 ^[1]
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	14.2	11.3	11.7	15.4
	Once every year	40.3	42.2	46.7 [3]	37.4 [2]
	Less frequently than once a year	24.8	33.5 ^[3]	28.3 [3]	22.8 ^[1,2]
	Does not apply. Firefighters are not required to receive continuing driver training.	20.7	12.9 ^[3]	13.3 ^[3]	24.4 [1,2]

		Population Protected			
	Question		50,000 +	5,000-49,999	0-4,999
	Question	Total	People	People	People
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		84.2	97.6 ^[2,3]	90.1 ^[1,3]	81.1 ^[1,2]
	No	15.8	2.4 [2,3,+]	9.9 ^[1,3]	18.9 ^[1,2]
17 5	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	6.9	5.3	6.2	7.2
	Disagree	18.0	18.3	16.8	18.5
	Neither agree nor disagree	30.8	13.2 ^[2,3]	26.6 ^[1,3]	33.5 ^[1,2]
	Agree	32.1	41.3 ^[3]	34.8	30.6 [1]
	Strongly agree	12.2	21.9 ^[3]	15.6 ^[3]	10.2 ^[1,2]
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		5.4	1.1 [3,+]	2.6 [3]	6.8 ^[1,2]
	Some of the time	22.7	10.6 [2,3]	21.7 ^[1]	23.7 ^[1]
Neve	rAbout half the time	17.0	8.8 [2,3]	15.1 ^[1]	18.1 ^[1]
	Most of the time	38.4	49.3 ^[2,3]	37.1 ^[1]	38.6 [1]
	Always	16.5	30.2 [3]	23.5 ^[3]	12.8 ^[1,2]
21.	How often is Incident Command established when responding to structure fires?				
		2.3	0.7 [3,+]	0.4 [3,+]	3.2 ^[1,2]
	Rarely	6.8	0.2 [2,3,+]	2.8 ^[1,3]	8.8 [1,2]
Neve	rAbout half the time	6.7	2.1 [3,+]	3.1 ^[3]	8.5 ^[1,2]
	Most of the time	27.6	9.5 [2,3]	21.6 ^[1,3]	31.0 ^[1,2]
	Always	56.6	87.5 [2,3]	72.1 ^[1,3]	48.5 ^[1,2]

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	22.5	6.3 [2,3]	12.8 ^[1,3]	27.5 ^[1,2]
	Not enough firefighters available at the scene of the fire	21.2	2.4 [2,3,+]	11.1 ^[1,3]	26.4 [1,2]
	Other	6.2	3.2 [3]	5.5	6.7 ^[1]
	Does not apply. My department always assigns an Incident Commander for structure fires.	3.6	2.3	3.6	3.7
	Legitimately Skipped Question	56.6	87.8 [2,3]	72.1 ^[1,3]	48.5 ^[1,2]
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.	01.0	00.2 [2]	OF 0 ^[1,3]	oo ɔ [2]
	entering the building	91.0	90.3	93.0**	09.2
	Develop and coordinate the fire attack strategy	93.1	99.2 ^[2,3]	94.7 ^[1]	92.1 ^[1]
	Develop and initiate a risk management plan	52.3	77.8 ^[2,3]	61.4 ^[1,3]	47.2 ^[1,2]
	Document all assessments, plans and events related to the fire	38.8	53.2 ^[2,3]	40.2 [1]	37.5 [1]
	Ensure that at least four (4) firefighters are on the scene before entering the building	68.6	81.1 ^[2,3]	69.0 ^[1]	67.8 ^[1]
	Establish a collapse zone around the building	49.1	62.2 ^[3]	55.1 ^[3]	45.8 ^[1,2]
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	48.5	92.2 ^[2,3]	67.3 ^[1,3]	38.3 ^[1,2]
	Identify and implement a communication strategy	64.7	71.8	64.4	64.6
	Monitor location of all firefighters at the scene	76.2	87.5 [2,3]	77.0 ^[1]	75.4 ^[1]
	Other	9.1	13.0 ^[3]	11.3	7.9 ^[1]

	Population Protected			
Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
<i>w</i> often does an Incident Commander assign an Safety Officer when responding to structure fires?				
	13.3	3.3 ^[2,3]	7.8 [1,3]	16.2 [1,2]
ne time	26.5	33.1 ^[2]	24.3 ^[1]	27.2
the time	8.1	6.6	8.6	7.9
e time	29.8	27.2 [2]	35.2 ^[1,3]	27.5 [2]
	22.3	29.8 [3]	24.1	21.2 [1]
the reasons why an Incident Commander does not sign an Incident Safety Officer? MARK ALL THAT				
ot big enough to require an Incident Safety Officer	32.3	27.4	28.9	34.0
n firefighters are available at the scene of the fire	51.7	25.0 ^[2,3]	47.9 ^[1,3]	54.5 ^[1,2]
	13.1	34.6 [2,3]	17.7 ^[1,3]	10.1 ^[1,2]
pply. Our Incident Commanders always assign an Safety Officer for structure fires.	2.1	2.6	2.1	2.0
ly Skipped Question	22.6	29.9 ^[3]	24.4	21.6 [1]
n are Rapid Intervention Teams (RITs) or Rapid ion Crews (RICs) available at structure fires?				
	29.4	3.0 ^[2,3]	12.7 ^[1,3]	37.8 [1,2]
ne time	21.8	5.5 ^[2,3]	20.7 [1]	23.0 ^[1]
the time	6.5	3.2 [2]	7.6 ^[1]	6.1
e time	22.5	27.7 [3]	28.2 [3]	19.8 ^[1,2]
	19.9	60.6 [2,3]	30.8 [1,3]	13.3 ^[1,2]
ituations are RITs/RICs established? MARK ALL PLY.				
ouilding has more than one story/floor	9.3	7.4	10.4	8.9
e are enough firefighters on and at the scene of the fire	32.3	20.0 [2,3]	35.6 [1]	31.3 ^[1]
firefighters enter a burning building	26.4	20.8	27.8	26.0
	4.9	6.9	7.5 [3]	3.7 [2]
ly Skipped Question	49.3	63.6 ^[2,3]	43.7 ^[1,3]	51.2 ^[1,2]
e are enough firefighters on and at the scene of the fire firefighters enter a burning building <i>ly Skipped Question</i>	32.3 26.4 4.9 49.3	20.0 ^[2,3] 20.8 6.9 63.6 ^[2,3]	35.6 ^[1] 27.8 7.5 ^[3] 43.7 ^[1,3]	

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		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	34.9	24.5 ^[3]	31.2 [3]	37.0 ^[1,2]
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	8.8	* * [2,3]	4.3 ^[1,3]	11.2 ^[1,2]
	We don't have enough firefighters available at the scene of the fire	53.5	18.2 ^[2,3]	45.7 ^[1,3]	58.5 ^[1,2]
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	20.7	3.7 ^[2,3]	12.0 ^[1,3]	25.3 ^[1,2]
	We have never established an RIT/RIC	17.7	1.5 ^[2,3]	8.3 [1,3]	22.5 ^[1,2]
	We use other fire departments in the area for RITs/RICs	29.2	4.1 ^[2,3]	28.8 [1]	30.5 [1]
	We use other safety practices and so we don't need them	4.2	2.4 [3]	1.3 [3]	5.6 ^[1,2]
	Other	4.1	8.2 [2]	3.6 [1]	4.1
	Legitimately Skipped Question	20.3	61.4 ^[2,3]	31.3 ^[1,3]	13.6 ^[1,2]
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		78.8	98 .6 ^[2,3]	92.2 ^[1,3]	72.0 ^[1,2]
	No	21.2	1.4 [2,3,+]	7.8 ^[1,3]	28.0 ^[1,2]
30 5	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		6.3	** [2,3]	1.4 ^[1,3]	8.7 ^[1,2]
	Some of the time	3.9	1.0 ^[3,+]	0.6 [3,+]	5.6 ^[1,2]
Neve	rAbout half the time	1.8	** [2,3]	1.5 ^[1]	2.1 ^[1]
	Most of the time	12.8	1.2 [2,3]	9 .5 ^[1,3]	14.8 ^[1,2]
	Always	75.2	97.8 [2,3]	87.0 ^[1,3]	68.9 ^[1,2]

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	13.1	1.0 [2,3,+]	3.3 ^[1,3]	17.9 ^[1,2]
	Situation doesn't require them	9.5	0.4 [2,3,+]	5.7 ^[1,3]	11.6 ^[1,2]
	Firefighters think the devices do not always work reliably	0.3	* *	0.1 [+]	0.4 [+]
	Firefighters don't think they need them	4.6	1.0 [3,+]	2.7 ^[3]	5.6 ^[1,2]
	Devices go off while firefighters are resting	3.7	0.6 [2,3,+]	3.7 [1]	3.8 [1]
	Legitimately Skipped Question	75.5	97.8 [2,3]	88.0 ^[1,3]	69.1 ^[1,2]
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		99.2	99.7	99.7	99.0
		0.8	0.3 [+]	0.3 [+]	1.0
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		49.7	10.4 [2,3]	37.4 ^[1,3]	56.5 ^[1,2]
	No	49.5	89.2 [2,3]	62.3 ^[1,3]	42.5 [1,2]
Yes	Legitimately Skipped Question	0.8	0.3 [+]	0.3 [+]	1.0
33a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	4.8	* * [2,3]	3.7 ^[1]	5.4 ^[1]
	Firefighters don't like using the equipment	0.3	* *	* *	0.4 [+]
	Have never needed them (e.g., we don't do interior attacks)	0.7	** [3]	** [3]	1.0 ^[1,2]
	They cost too much, there is not enough money in the budget	31.8	5.7 [2,3]	23.0 ^[1,3]	36.5 [1,2]
	We don't have enough equipment for all of our firefighters	24.6	2.3 [2,3,+]	13.3 ^[1,3]	30.2 [1,2]
	Shared systems work fine for our needs	23.4	5.0 ^[2,3]	18.2 ^[1,3]	26.4 [1,2]
	Other	5.0	4.7	7.5 ^[3]	3.9 [2]
	Legitimately Skipped Question	50.3	89.8 [2,3]	62.5 ^[1,3]	43.6 [1,2]
		•	·		(continued)

Appendix B — Post-Data Collection Methodology and Analysis Tables

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		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People	
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?					
	Never	1.1	* * [3]	** [3]	1.7 ^[1,2]	
	Some of the time	4.7	** [2,3]	1.4 [1,3]	6.3 ^[1,2]	
	About half the time	2.7	0.8 [3,+]	0.9 [3,+]	3.5 ^[1,2]	
	Most of the time	24.5	13.8 [3]	15.5 ^[3]	28.8 [1,2]	
	Always	66.1	85.1 ^[3]	81.9 [3]	58.6 ^[1,2]	
	Legitimately Skipped Question	0.8	0.3 [+]	0.3 [+]	1.0	
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.					
	Situation doesn't require them	25.9	10.3 [3]	12.9 [3]	32.1 ^[1,2]	
	Firefighters do not trust that the SCBAs will work reliably	* *	* *	* *	0.1 [+]	
	Firefighters don't think they need them	10.3	6.3 [3]	6.9 [3]	12.0 ^[1,2]	
	Firefighters don't like sharing facepieces with others	1.0	* * [3]	0.9 [+]	1.0 ^[1]	
	Firefighters are concerned that the SCBA may be or become contaminated	* *	* *	0.3 [+]		
	Wearing SCBAs makes it more difficult to work	5.9	3.3 [3]	3.9 [3]	6.9 ^[1,2]	
	Firefighters don't have SCBAs to use	3.9	0.8 [3,+]	1.7 [3]	5.0 ^[1,2]	
	Legitimately Skipped Question	67.8	86.1 ^[3]	82.9 [3] **	60.5 [1,2]	
36.	How often is routine maintenance performed on your SCBAs?					
	After every time they are used	43.0	52.6 ^[3]	46.6	41.0 ^[1]	
	Once a month or more	19.0	10.3 [2,3]	20.0 [1]	18.9 ^[1]	
	Several times a year	15.0	13.8	15.6	14.8	
	Once a year	16.4	20.6	15.8	16.6	
	Less than once a year	4.3	1.1 ^[3,+]	1.2 [3]	5.8 ^[1,2]	
	Never. Maintenance has not been done on our SCBAs.	1.4	1.3 [+]	0.5 [+]	1.8	
	Does not apply. My department does not have SCBAs.	* *	* *	* *	* *	
	Legitimately Skipped Question	1.0	0.4 [+]	0.4 [+]	1.3	

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	17.5	47.1 ^[2,3]	27.1 ^[1,3]	12.2 ^[1,2]
	Zero	82.5	52.9 ^[2,3]	72.9 ^[1,3]	87.8 [1,2]
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	20.9	10.4 [3]	13.1 ^[3]	24.7 ^[1,2]
	We didn't know they were available	15.1	6.0 ^[2,3]	11.2 ^[1,3]	17.1 ^[1,2]
	We don't have adequate technical information to purchase them	19.7	7.8 [2,3]	15.7 ^[1,3]	21.9 ^[1,2]
	We don't have adequate funding to purchase them	60.3	33.4 [2,3]	55.1 ^[1,3]	63.6 [1,2]
	Other	4.9	16.0 ^[2,3]	5.3 ^[1]	4.3 [1]
	Legitimately Skipped Question	18.3	48.0 [2,3]	28.5 ^[1,3]	12.7 ^[1,2]
38.	Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	77.4	95.2 ^[2,3]	85.1 ^[1,3]	73.3 [1,2]
	No	22.6	4.8 [2,3]	14.9 ^[1,3]	26.7 ^[1,2]
38a.	At your fire department, where do you have AEDs?				
	At the fire station(s)	2.8	0.8 [3,+]	0.8 [3,+]	3.7 ^[1,2]
	On the emergency vehicles (or apparatus)	62.0	76.0 [3]	70.1 ^[3]	58.1 ^[1,2]
	Both at the fire station(s) and on the vehicles (or apparatus)	10.4	17.5 ^[3]	12.1	9.4 ^[1]
	Legitimately Skipped Question	24.9	5.7 ^[2,3]	17.1 ^[1,3]	28.8 [1,2]
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	13.9	33.4 ^[2,3]	15.1 ^[1]	12.4 [1]
	Once a month or more	25.4	26.6	27.0	24.6
	Several times a year	20.6	19.1	18.3	21.7
	Once a year	22.3	16.6 [2]	26.7 ^[1,3]	20.5 [2]
	Less frequently than once a year	7.4	3.2 [3]	6.7	8.0 ^[1]
	Never. Maintenance on our AEDs has not been done.	10.4	1.2 [2,3,+]	6.3 ^[1,3]	12.8 ^[1,2]
					(continued)

		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People	
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?		•		•	
		1.6	0.3 [3,+]	1.6	1.7 ^[1]	
	Some of the time	4.7	0.3 [2,3,+]	3.2 [1]	5.5 ^[1]	
Never	About half the time	2.6	0.7 [3,+]	1.4 [3]	3.2 [1,2]	
	Most of the time	20.6	3.9 ^[2,3]	15.1 ^[1,3]	23.8 ^[1,2]	
	Always	70.4	9 4.8 ^[2,3]	78.6 ^[1,3]	65.8 ^[1,2]	
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?					
		18.0	10.6 ^[2,3]	19.0 ^[1]	17.9 ^[1]	
	Some of the time	64.5	80.2 [2,3]	67.4 ^[1]	62.6 [1]	
Never	About half the time	10.3	4.4 ^[2,3]	8.9 ^[1]	11.1 ^[1]	
	Most of the time	5.4	4.0	4.1	6.0	
		1.8	0.8 [3,+]	0.5 [3,+]	2.4 ^[1,2]	
42. Alway	How would you rate your department's budget in the following areas?					
42a.	Equipment					
	Not adequate	48.6	31.7 ^[2,3]	40.3 ^[1,3]	53.0 ^[1,2]	
	Adequate	45.7	56.4 ^[3]	50.2 ^[3]	43.2 [1,2]	
	More than adequate	5.7	11.9 ^[3]	9.5 [3]	3.7 ^[1,2]	
42b.	Training					
	Not adequate	39.1	46.6 ^[2]	35.8 ^[1]	40.3	
	Adequate	55.6	47.6 [2,3]	56.3 ^[1]	55.7 ^[1]	
	More than adequate	5.2	5.8	8.0 ^[3]	4.0 [2]	

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
42c.	Personnel				
	Not adequate	51.5	59.9 ^[2,3]	51.0 ^[1]	51.4 ^[1]
	Adequate	44.3	35.3 ^[2,3]	44.2 [1]	44.7 ^[1]
	More than adequate	4.2	4.7	4.9	3.9
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		26.8	7.3 [2,3]	16.3 ^[1,3]	32.2 [1,2]
	One or two times per year	34.3	27.5	35.1	34.3
Neve	rSeveral times per year	33.2	49.3 ^[3]	41.9 ^[3]	28.7 ^[1,2]
	Once a month or more	5.7	15.9 ^[2,3]	6.7 ^[1]	4.8 [1]
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	56.0	55.1	56.7	55.7
	On the Internet	24.7	63.4 [2,3]	35.8 ^[1,3]	18.2 ^[1,2]
	From colleagues in other departments	10.0	18.6 ^[2,3]	11.4 [1]	8.9 ^[1]
	At conferences or other meetings	6.9	22.5 [2,3]	8.6 [1]	5.6 [1]
	Legitimately Skipped Question	26.8	7.3 ^[2,3]	16.3 ^[1,3]	32.2 [1,2]
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	53.3	83.7 ^[2,3]	65.5 ^[1,3]	46.8 ^[1,2]
	No	20.0	9.1 ^[2,3]	18.1 ^[1]	21.3 ^[1]
	Legitimately Skipped Question	26.6	7.3 [2,3]	16.4 ^[1,3]	31.9 ^[1,2]
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		60.7	79.8 [2,3]	71.1 ^[1,3]	55.2 ^[1,2]
	No	12.1	12.9	12.2	12.0
Yes	Legitimately Skipped Question	27.3	7.3 ^[2,3]	16.7 ^[1,3]	32.9 ^[1,2]

	Population Protected				
Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People	
50a. How is this information disseminated to firefighters? MARK ALL THAT APPLY.					
Regular staff meetings	23.5	27.0	23.9	23.2	
Training sessions	44.2	57.7 ^[2,3]	48.7 ^[1,3]	41.7 ^[1,2]	
Provide copies of NIOSH reports to firefighters	16.2	32.6 [2,3]	24.9 ^[1,3]	11.6 ^[1,2]	
Provide copies of NIOSH report summaries to firefighters	6.2	8.8 [3]	10.2 [3]	4.3 [1,2]	
Provide summaries prepared by department to firefighters	1.8	8.5 [2,3]	2.2 [1]	1.4 ^[1]	
Postings on bulletin boards	38.5	37.7 [2]	48.1 ^[1,3]	34.2 [2]	
Post report on the department website	1.1	7.0 ^[2,3]	1.8 ^[1]	0.6 [1]	
Send message to firefighters by email	5.3	34.7 [2,3]	9.2 ^[1,3]	2.4 [1,2]	
Other	1.3	8.6 [2,3]	1.7 ^[1]	0.8 [1]	
Legitimately Skipped Question	39.1	20.5 [2,3]	28.7 ^[1,3]	44.4 [1,2]	
51. The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?					
	34.2	78.4 [2,3]	47.8 [1,3]	26.4 ^[1,2]	
No	38.4	14.1 ^[2,3]	35.4 [1]	40.7 ^[1]	
Yes Legitimately Skipped Question	27.4	7.6 [2,3]	16.7 ^[1,3]	33.0 ^[1,2]	
	•	·	•	(continued	

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	0.5	1.5 [+]	0.5 [+]	0.4 [+]
	Disagree	3.6	3.6	4.2	3.3
	Neither Agree nor Disagree	18.7	18.4	17.8	19.1
	Agree	45.6	59.6 ^[3]	56.3 ^[3]	40.3 [1,2]
	Strongly Agree	3.7	9.4 [2,3]	4.0 [1]	3.3 ^[1]
	Legitimately Skipped Question	28.0	7.5 ^[2,3]	17.1 ^[1,3]	33.6 ^[1,2]
52b.	Recommendations are easy to understand				
	Strongly Disagree	0.4	2.2 [+]	0.3 [+]	0.4 [+]
	Disagree	1.7	2.1	3.3 [3]	1.0 [2]
	Neither Agree nor Disagree	19.8	13.2 ^[3]	18.0	20.9 [1]
	Agree	45.4	62.8 ^[3]	56.2 ^[3]	39.9 ^[1,2]
	Strongly Agree	4.6	12.1 ^[2,3]	5.0 ^[1]	4.1 ^[1]
	Legitimately Skipped Question	28.1	7.6 ^[2,3]	17.2 ^[1,3]	33.7 ^[1,2]
52c.	Recommendations are specific and concrete				
	Strongly Disagree	0.4	2.9	0.5 [+]	0.3 [+]
	Disagree	3.2	6.4 ^[3]	4.5	2.5 [1]
	Neither Agree nor Disagree	26.6	21.4 [2]	28.9 ^[1]	25.8
	Agree	37.9	52.4 ^[3]	44.9 ^[3]	34.2 [1,2]
	Strongly Agree	3.8	9.3 [2,3]	4.0 ^[1]	3.6 [1]
	Legitimately Skipped Question	28.0	7.6 ^[2,3]	17.2 ^[1,3]	33.6 [1,2]

		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People	
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.					
	Pocket guide to chemical hazards	57.4	85.2 [2,3]	64.8 ^[1,3]	52.9 ^[1,2]	
	Respirator maintenance program guide	13.8	26.3 [2,3]	18.0 ^[1,3]	11.3 ^[1,2]	
	CDs of firefighter program materials	28.0	41.2 ^[2,3]	30.1 [1]	26.5 ^[1]	
	Alerts	31.7	62.9 [2,3]	41.3 ^[1,3]	26.0 ^[1,2]	
	Hazard IDs	16.6	23.9 ^[3]	17.7	15.8 ^[1]	
	Workplace Solutions	12.5	17.1 ^[3]	15.7 ^[3]	10.8 [1,2]	
	Other	0.8	2.9	1.0	0.6 [+]	
	None. I have not seen any NIOSH materials.	25.2	5.5 ^[2,3]	15.9 ^[1,3]	30.3 [1,2]	
53a	How satisfied or dissatisfied are you with these NIOSH materials?					
	Very dissatisfied	1.3	3.5	1.4	1.2	
	Dissatisfied	0.2	* *	* * [+]	0.3 [+]	
	Neither satisfied nor dissatisfied	21.2	15.5	21.8	21.2	
	Satisfied	47.1	60.4 [3]	55.5 ^[3]	42.8 [1,2]	
	Very satisfied	5.2	14.9 ^[2,3]	5.8 ^[1]	4.5 ^[1]	
	Legitimately Skipped Question	24.9	5.6 [2,3]	15.7 ^[1,3]	29.9 ^[1,2]	
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?					
		59.4	14.4 [2,3]	48.6 [1,3]	66.1 ^[1,2]	
	Yes, in the last year	34.5	74.6 [2,3]	45.1 ^[1,3]	28.1 ^[1,2]	
No	Yes, longer than one year ago	6.1	11.0 ^[3]	6.4	5.8 ^[1]	

Note: The 0-4,999 column includes those records with a missing value for population protected.

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

 ** Estimate is less than 0.1 and therefore rounds to zero.

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		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
1.	Does your department have a Safety Officer?				
		(67.5, 72.9)	(81.3, 90.8)	(67.6, 76.0)	(65.1, 72.3)
		(27.1, 32.5)	(9.2, 18.7)	(24.0, 32.4)	(27.7, 34.9)
2 es	Does your department have a Training Officer?				
No		(86.4, 90.3)	(97.0, 99.7)	(88.6, 93.8)	(83.8, 89.1)
		(9.7, 13.6)	(0.3, 3.0)	(6.2, 11.4)	(10.9, 16.2)
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	(81.3, 85.8)	(94.5, 99.1)	(90.3, 95.1)	(75.7, 82.0)
	Maintenance of SCBAs	(66.9, 72.3)	(81.9, 91.5)	(72.8, 80.8)	(61.9, 69.2)
	Motor vehicle safety	(76.3, 81.2)	(88.1, 95.1)	(79.0, 86.1)	(73.1, 79.6)
	Participation in a personal physical fitness program	(9.6, 12.7)	(47.4, 60.6)	(16.3, 23.5)	(4.0, 7.5)
	Participation in regular health screenings for cardiovascular disease (CVD)	(14.9, 18.9)	(43.5, 56.7)	(22.9, 31.1)	(8.9, 13.7)
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	(37.7, 43.2)	(85.0, 92.6)	(56.3, 65.2)	(26.0, 33.1)
	Use of Personal Alert Safety System (PASS) devices	(72.7, 77.9)	(85.8, 93.6)	(81.1, 87.9)	(66.9, 74.0)
	Use of personal protective equipment and protective clothing	(87.1, 90.9)	(93.7, 98.4)	(90.2, 95.1)	(84.3, 89.4)
	Use of radio communications	(82.5, 86.8)	(91.3, 97.1)	(86.5, 92.0)	(79.2, 85.0)
		(7.2, 10.5)	(12.1, 22.8)	(10.5, 17.1)	(4.6, 8.5)
	Does not apply. Our fire department does not use SOPs/SOGs.	(3.8, 6.5)	(**, **)	(1.1, 4.0)	(4.8, 8.6)

Exhibit B-4b.	Results from the Fire De	partment Survey,	Confidence Interval	Estimates by	Jurisdiction Size

Other

		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People	
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?					
4a.	Fighting structure fires					
	No Training	(0.6, 2.0)	(0.1, 3.0)	(**, **)	(0.9, 2.9)	
	Optional Training	(14.6, 19.1)	(1.0, 6.2)	(5.4, 10.5)	(18.4, 24.7)	
	Required Training	(80.4, 85.0)	(93.3, 98.7)	(89.9, 94.8)	(74.4, 80.8)	
4b.	Driving safety					
	No Training	(2.9, 5.3)	(0.6, 3.5)	(0.5, 2.6)	(3.8, 7.3)	
	Optional Training	(16.3, 21.1)	(2.0, 8.2)	(9.0, 15.2)	(19.1, 25.7)	
	Required Training	(75.1, 80.1)	(90.4, 96.9)	(83.9, 90.2)	(69.0, 76.0)	
4c.	Incident Command systems					
	No Training	(2.0, 4.1)	(0.0, 0.9)	(0.4, 2.5)	(2.6, 5.7)	
	Optional Training	(24.8, 30.2)	(2.4, 9.2)	(11.2, 17.9)	(30.7, 38.1)	
	Required Training	(67.1, 72.6)	(90.7, 97.5)	(81.0, 87.9)	(58.2, 65.8)	
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)					
	No Training	(5.2, 8.3)	(1.4, 6.8)	(3.3, 7.4)	(5.5, 9.8)	
	Optional Training	(30.8, 36.5)	(6.9, 16.1)	(22.3, 30.6)	(34.1, 41.6)	
	Required Training	(57.3, 63.1)	(81.6, 91.4)	(64.5, 73.2)	(51.4, 59.1)	
4e.	Rapid Intervention Teams (RITs)					
	No Training	(25.8, 31.3)	(0.7, 3.9)	(9.6, 15.9)	(33.3, 41.1)	
	Optional Training	(33.3, 39.2)	(7.0, 16.6)	(30.2, 39.4)	(34.2, 41.9)	
	Required Training	(32.8, 38.3)	(81.7, 91.6)	(48.9, 58.2)	(21.5, 28.6)	

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	(0.9, 2.4)	(0.3, 4.7)	(0.4, 2.1)	(0.9, 3.0)
	Optional Training	(8.2, 11.8)	(1.6, 6.1)	(3.7, 7.9)	(9.8, 14.9)
	Required Training	(86.9, 90.7)	(92.1, 97.7)	(91.5, 95.8)	(83.5, 88.8)
4g.	Use of radio communication devices				
	No Training	(1.9, 3.8)	(0.9, 5.9)	(0.9, 3.0)	(2.1, 4.9)
	Optional Training	(19.0, 23.9)	(3.7, 10.8)	(11.1, 17.7)	(22.0, 28.7)
	Required Training	(73.6, 78.6)	(87.4, 95.2)	(80.7, 87.5)	(68.3, 75.2)
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	(82.6, 86.9)	(94.6, 99.0)	(86.1, 91.8)	(79.2, 85.2)
	Other officers within our department	(80.4, 85.0)	(93.9, 98.2)	(86.6, 92.5)	(75.8, 82.0)
	State fire training agency	(74.8, 79.8)	(69.4, 79.7)	(80.1, 87.0)	(71.2, 77.9)
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	(18.9, 23.1)	(61.5, 73.5)	(32.3, 40.9)	(9.9, 14.8)
	Conferences or regional meetings	(48.8, 54.6)	(71.9, 82.4)	(57.4, 66.3)	(42.3, 50.0)
	Other	(22.7, 27.8)	(22.1, 34.7)	(25.8, 34.3)	(19.9, 26.3)
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	(52.4, 58.2)	(51.4, 64.1)	(57.5, 66.5)	(48.4, 56.0)
	Scuba diving	(6.2, 9.1)	(16.5, 27.2)	(8.0, 13.6)	(4.1, 7.6)
	Swift water rescue	(9.6, 13.0)	(41.6, 54.9)	(14.0, 21.0)	(5.4, 9.2)
	Wildland fire fighting	(44.1, 49.9)	(32.4, 45.3)	(35.6, 44.5)	(46.7, 54.2)
	HAZMAT	(63.8, 69.4)	(88.1, 95.2)	(76.6, 84.0)	(55.7, 63.2)
	Other	(28.5, 33.9)	(37.1, 50.3)	(29.7, 38.6)	(26.0, 33.0)

			-		
			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	(6.8, 10.2)	(0.0, 2.2)	(2.2, 5.8)	(8.6, 13.4)
	Not very familiar	(21.8, 27.0)	(3.6, 9.9)	(13.0, 20.0)	(25.3, 32.3)
	Somewhat familiar	(55.2, 61.0)	(47.6, 60.9)	(60.3, 69.3)	(51.4, 59.1)
	Very familiar	(7.8, 10.9)	(33.1, 46.0)	(12.3, 19.0)	(3.9, 7.3)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	(18.4, 23.3)	(3.6, 9.2)	(10.1, 16.5)	(21.7, 28.3)
	Not very familiar	(30.8, 36.4)	(14.8, 25.7)	(24.4, 32.8)	(32.7, 40.1)
	Somewhat familiar	(35.1, 40.7)	(38.0, 51.4)	(41.3, 50.6)	(30.5, 37.8)
	Very familiar	(6.5, 9.4)	(24.3, 36.3)	(10.0, 16.1)	(3.3, 6.7)
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	(64.9, 70.5)	(68.4, 79.6)	(67.1, 75.7)	(62.0, 69.3)
	National conference presentations	(2.8, 4.7)	(18.7, 30.4)	(4.9, 9.4)	(0.7, 2.6)
	State-level conference presentations	(9.7, 13.5)	(19.1, 30.7)	(10.0, 16.1)	(8.1, 13.0)
	Other firefighters or departments	(20.5, 25.5)	(23.7, 35.3)	(18.3, 26.0)	(19.9, 26.5)
	At seminars or other training opportunities (not conferences)	(14.3, 18.6)	(23.6, 35.9)	(15.1, 22.4)	(12.4, 17.8)
	Trade publications (such as Firehouse and Fire Engineering)	(44.3, 50.1)	(60.1, 72.5)	(52.3, 61.5)	(38.2, 45.8)
	NIOSH website	(22.0, 26.7)	(65.9, 78.0)	(30.5, 39.4)	(14.9, 20.7)
	Links from other websites (such as NFPA and Firehouse)	(25.7, 30.9)	(46.7, 60.1)	(30.9, 39.9)	(20.9, 27.4)
	Media reports-newspaper, television, radio	(12.9, 17.1)	(13.2, 23.0)	(14.3, 21.5)	(11.1, 16.5)
		(0.7, 1.9)	(1.6, 6.1)	(0.8, 3.4)	(0.4, 1.8)
Othe	Does not apply. We have not received information about NIOSH are recommendations.	(9.3, 13.2)	(0.4, 3.1)	(2.8, 6.5)	(12.0, 17.6)

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		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	(37.3, 43.1)	(58.3, 71.1)	(45.4, 54.9)	(30.9, 38.4)
	Developed new SOPs/SOGs	(23.8, 29.0)	(40.6, 54.3)	(30.9, 40.0)	(18.3, 24.8)
	Made changes to SOPs/SOGs	(32.2, 37.7)	(60.6, 73.3)	(43.1, 52.5)	(24.3, 31.2)
	Justified current budget/staffing	(4.0, 6.3)	(12.1, 21.6)	(5.8, 10.6)	(2.1, 4.9)
	Made new budget/staffing requests	(4.4, 6.8)	(12.3, 22.0)	(7.3, 12.9)	(2.0, 4.7)
	Justified grant applications	(13.5, 17.8)	(22.1, 34.1)	(16.9, 24.7)	(10.3, 15.6)
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(9.6, 18.2)	(20.7, 29.0)	(29.6, 37.1)
	Legitimately Skipped Question	(9.8, 13.9)	(0.4, 3.2)	(2.9, 6.7)	(12.8, 18.7)
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	(26.7, 32.1)	(35.6, 49.0)	(29.6, 38.6)	(23.2, 30.2)
	Personal protective equipment and clothing	(38.7, 44.5)	(55.0, 68.2)	(46.4, 55.8)	(32.6, 40.2)
		(37.2, 43.0)	(56.9, 69.4)	(47.5, 56.9)	(29.8, 37.2)
	PASS systems	(29.9, 35.5)	(37.9, 51.3)	(38.3, 47.6)	(23.9, 31.0)
SCBA	A Incident Command systems	(29.4, 34.9)	(41.3, 55.0)	(36.5, 45.8)	(23.8, 30.9)
	Radio communications	(20.7, 25.6)	(31.2, 44.6)	(25.7, 34.3)	(16.3, 22.6)
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(21.8, 34.0)	(11.4, 18.0)	(3.6, 6.9)
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(9.1, 18.6)	(6.2, 11.2)	(4.3, 8.1)
		(1.6, 3.4)	(3.0, 9.9)	(2.2, 5.8)	(0.8, 3.1)
Othe	Does not apply. We have not used NIOSH recommendations for raining purposes.	(1.3, 2.9)	(0.4, 3.4)	(0.9, 3.6)	(1.2, 3.4)
1	Legitimately Skipped Question	(38.9, 44.8)	(10.8, 19.7)	(24.6, 33.2)	(45.2, 53.1)

Exhibit B-4b.	Results from the Fire I	Department Survey,	Confidence Interval	Estimates by J	Iurisdiction Size ((continued)
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		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		(76.4, 80.4)	(19.4, 30.6)	(53.8, 62.5)	(87.1, 91.7)
	Yes, it's required	(5.9, 8.3)	(30.3, 43.0)	(10.3, 15.8)	(2.1, 4.9)
No	Yes, it's optional	(12.8, 16.4)	(33.1, 45.4)	(25.0, 33.3)	(5.4, 9.3)
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	(12.7, 16.6)	(13.9, 24.7)	(22.0, 30.1)	(7.4, 11.8)
	Less frequently than once a year	(5.8, 8.6)	(10.2, 19.6)	(6.9, 12.2)	(4.4, 7.9)
	One time a year	(15.2, 19.3)	(45.0, 58.7)	(21.5, 29.4)	(9.9, 14.9)
	More than one time a year	(0.1, 0.7)	(0.3, 5.2)	(0.2, 1.4)	(0.0, 0.9)
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(10.2, 19.0)	(34.8, 43.7)	(69.0, 75.7)
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	(5.1, 8.0)	(0.9, 5.9)	(1.8, 4.8)	(6.2, 10.4)
	Yes, they receive training required by the department	(81.7, 86.0)	(89.7, 96.0)	(89.2, 94.1)	(76.9, 82.9)
	Yes, they receive training required by the state	(23.3, 28.3)	(25.7, 37.9)	(27.3, 35.9)	(19.9, 26.3)
	Yes, they receive optional training	(11.8, 15.9)	(6.5, 14.5)	(9.4, 15.5)	(12.1, 17.6)
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	(12.2, 16.4)	(7.8, 16.2)	(9.1, 15.0)	(12.8, 18.4)
	Once every year	(37.5, 43.2)	(35.7, 48.9)	(42.0, 51.5)	(33.8, 41.2)
	Less frequently than once a year	(22.3, 27.3)	(27.4, 40.3)	(24.2, 32.7)	(19.8, 26.2)
	Does not apply. Firefighters are not required to receive continuing driver training.	(18.4, 23.2)	(9.3, 17.8)	(10.4, 16.8)	(21.2, 27.8)

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		(81.9, 86.3)	(92.9, 99.2)	(86.9, 92.7)	(77.9, 83.9)
		(13.7, 18.1)	(0.8, 7.1)	(7.3, 13.1)	(16.1, 22.1)
177 5 No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	(5.5, 8.5)	(2.8, 9.7)	(4.2, 8.9)	(5.5, 9.4)
	Disagree	(15.8, 20.4)	(13.7, 24.1)	(13.5, 20.7)	(15.7, 21.7)
	Neither agree nor disagree	(28.2, 33.7)	(9.0, 18.8)	(22.6, 31.0)	(29.9, 37.2)
	Agree	(29.5, 34.9)	(34.9, 48.1)	(30.5, 39.4)	(27.2, 34.2)
	Strongly agree	(10.4, 14.2)	(17.0, 27.6)	(12.5, 19.3)	(8.1, 12.8)
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		(4.2, 6.9)	(0.2, 7.3)	(1.4, 4.6)	(5.2, 8.9)
	Some of the time	(20.3, 25.3)	(7.4, 14.8)	(18.0, 25.9)	(20.6, 27.1)
Neve	rAbout half the time	(14.8, 19.4)	(6.1, 12.7)	(12.0, 18.9)	(15.3, 21.3)
	Most of the time	(35.6, 41.3)	(42.6, 56.0)	(32.7, 41.7)	(34.9, 42.4)
	Always	(14.6, 18.7)	(24.5, 36.6)	(19.9, 27.5)	(10.5, 15.6)
21.	How often is Incident Command established when responding to structure fires?				
		(1.5, 3.5)	(0.1, 4.7)	(0.1, 1.9)	(2.1, 5.0)
	Rarely	(5.4, 8.5)	(0.0, 1.2)	(1.6, 4.7)	(6.9, 11.2)
Neve	NeverAbout half the time		(0.6, 6.8)	(1.9, 5.2)	(6.6, 10.9)
	Most of the time	(25.0, 30.4)	(6.0, 14.7)	(18.0, 25.8)	(27.6, 34.7)
	Always	(53.7, 59.4)	(81.7, 91.7)	(67.7, 76.1)	(44.6, 52.3)
		Population Protected			
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	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	(20.1, 25.1)	(3.5, 11.2)	(9.9, 16.3)	(24.2, 31.0)
	Not enough firefighters available at the scene of the fire	(18.8, 23.7)	(0.8, 7.2)	(8.5, 14.3)	(23.2, 30.0)
		(5.0, 7.8)	(1.4, 7.2)	(3.7, 8.1)	(5.0, 8.8)
Othe	Does not apply. My department always assigns an Incident r Commander for structure fires.	(2.7, 4.9)	(0.9, 5.6)	(2.2, 5.9)	(2.5, 5.4)
0	Legitimately Skipped Question	(53.7, 59.5)	(81.9, 91.9)	(67.7, 76.1)	(44.7, 52.4)
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	(89.1, 92.6)	(85.7, 93.5)	(92.7, 96.6)	(86.5, 91.4)
	Develop and coordinate the fire attack strategy	(91.4, 94.5)	(97.3, 99.7)	(92.0, 96.6)	(89.7, 93.9)
	Develop and initiate a risk management plan	(49.4, 55.3)	(71.9, 82.8)	(56.7, 65.9)	(43.3, 51.1)
	Document all assessments, plans and events related to the fire	(36.0, 41.7)	(46.7, 59.6)	(35.8, 44.9)	(33.9, 41.3)
	Ensure that at least four (4) firefighters are on the scene before entering the building	(65.7, 71.3)	(75.2, 85.8)	(64.5, 73.3)	(64.1, 71.3)
	Establish a collapse zone around the building	(46.1, 52.0)	(55.6, 68.4)	(50.4, 59.8)	(42.0, 49.7)
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	(45.7, 51.3)	(88.1, 95.0)	(62.9, 71.4)	(34.6, 42.1)
	Identify and implement a communication strategy	(61.9, 67.5)	(65.1, 77.5)	(59.7, 68.8)	(60.8, 68.2)
	Monitor location of all firefighters at the scene	(73.6, 78.7)	(81.7, 91.7)	(72.7, 80.8)	(71.9, 78.6)
		(7.6, 10.9)	(9.1, 18.2)	(8.6, 14.8)	(6.1, 10.3)
24. Othe	About how often does an Incident Commander assign an $_{\rm r}$ Incident Safety Officer when responding to structure fires?				
	Never	(11.4, 15.5)	(1.7, 6.5)	(5.7, 10.6)	(13.5, 19.2)
	Some of the time	(24.0, 29.2)	(26.9, 39.9)	(20.5, 28.5)	(24.0, 30.8)
	About half the time	(6.6, 9.9)	(3.8, 11.0)	(6.3, 11.6)	(6.1, 10.3)
	Most of the time	(27.2, 32.5)	(21.7, 33.5)	(30.8, 39.8)	(24.2, 31.0)
		(19.9, 24.9)	(24.4, 35.9)	(20.3, 28.4)	(18.2, 24.5)

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People	
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.					
	Fires are not big enough to require an Incident Safety Officer	(29.5, 35.1)	(22.0, 33.5)	(24.7, 33.4)	(30.4, 37.8)	
	Not enough firefighters are available at the scene of the fire	(48.7, 54.6)	(19.6, 31.3)	(43.3, 52.6)	(50.6, 58.3)	
	Other	(11.3, 15.1)	(28.7, 41.0)	(14.4, 21.6)	(8.0, 12.7)	
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	(1.4, 3.0)	(1.1, 6.1)	(1.1, 4.1)	(1.2, 3.3)	
	Legitimately Skipped Question	(20.3, 25.2)	(24.5, 36.0)	(20.5, 28.7)	(18.5, 25.0)	
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?					
	Never	(26.7, 32.1)	(1.5, 6.0)	(9.9, 16.2)	(34.2, 41.6)	
	Some of the time	(19.5, 24.3)	(3.4, 8.9)	(17.2, 24.7)	(19.9, 26.3)	
	About half the time	(5.2, 8.0)	(1.3, 7.5)	(5.5, 10.4)	(4.5, 8.2)	
	Most of the time	(20.2, 25.0)	(21.9, 34.3)	(24.2, 32.6)	(16.9, 23.0)	
	Always	(17.8, 22.1)	(53.8, 67.0)	(26.7, 35.2)	(10.9, 16.2)	
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.					
	When the building has more than one story/floor	(7.8, 11.2)	(4.6, 11.6)	(7.9, 13.6)	(7.0, 11.4)	
	When there are enough firefighters on and at the scene of the fire	(29.6, 35.1)	(15.0, 26.3)	(31.3, 40.2)	(27.9, 35.0)	
	Whenever firefighters enter a burning building	(23.9, 29.1)	(15.6, 27.1)	(23.8, 32.2)	(22.8, 29.5)	
		(3.8, 6.3)	(4.3, 11.0)	(5.4, 10.5)	(2.5, 5.4)	
	Legitimately Skipped Question	(46.4, 52.2)	(56.7, 69.9)	(39.1, 48.4)	(47.4, 55.0)	

Exhibit B-4b.	Results from the Fi	re Department Surve	y, Confidence	Interval Estimates l	by Jurisdiction Size	(continued)
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Other

			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	(32.1, 37.8)	(18.9, 31.1)	(27.0, 35.7)	(33.3, 40.9)
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	(7.2, 10.8)	(**, **)	(2.7, 6.9)	(9.0, 13.9)
	We don't have enough firefighters available at the scene of the fire	(50.6, 56.5)	(13.3, 24.5)	(41.1, 50.4)	(54.6, 62.3)
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	(18.3, 23.2)	(1.8, 7.4)	(9.2, 15.4)	(22.1, 28.8)
	We have never established an RIT/RIC	(15.5, 20.1)	(0.7, 3.6)	(6.0, 11.4)	(19.4, 25.9)
	We use other fire departments in the area for RITs/RICs	(26.6, 32.0)	(2.0, 8.3)	(24.6, 33.3)	(27.1, 34.2)
	We use other safety practices and so we don't need them	(3.1, 5.7)	(1.0, 5.7)	(0.6, 3.0)	(4.0, 7.7)
		(3.1, 5.4)	(4.9, 13.1)	(2.2, 5.9)	(2.8, 5.8)
	Legitimately Skipped Question	(18.1, 22.6)	(54.6, 67.9)	(27.2, 35.7)	(11.2, 16.5)
29 he	F Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		(76.2, 81.1)	(95.4, 99.6)	(89.3, 94.4)	(68.4, 75.3)
		(18.9, 23.8)	(0.4, 4.6)	(5.6, 10.7)	(24.7, 31.6)
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		(4.9, 8.0)	(**, **)	(0.6, 3.4)	(6.7, 11.2)
	Some of the time	(2.9, 5.3)	(0.2, 4.5)	(0.2, 1.9)	(4.0, 7.6)
Neve	erAbout half the time	(1.2, 2.8)	(**, **)	(0.7, 3.2)	(1.2, 3.5)
	Most of the time	(10.9, 15.0)	(0.5, 2.9)	(7.1, 12.6)	(12.3, 17.7)
	Always	(72.5, 77.6)	(94.9, 99.1)	(83.6, 89.7)	(65.3, 72.4)

			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	(11.2, 15.4)	(0.2, 4.5)	(2.0, 5.4)	(15.1, 21.2)
	Situation doesn't require them	(7.9, 11.4)	(0.1, 1.8)	(3.8, 8.3)	(9.4, 14.2)
	Firefighters think the devices do not always work reliably	(0.1, 1.0)	(**, **)	(0.0, 0.5)	(0.1, 1.4)
	Firefighters don't think they need them	(3.5, 5.9)	(0.2, 4.5)	(1.5, 4.8)	(4.1, 7.4)
	Devices go off while firefighters are resting	(2.7, 4.9)	(0.2, 2.0)	(2.3, 5.9)	(2.6, 5.4)
	Legitimately Skipped Question	(72.9, 78.0)	(94.9, 99.1)	(84.7, 90.7)	(65.4, 72.6)
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		(98.4, 99.6)	(97.8, 100.0)	(98.7, 99.9)	(97.8, 99.6)
		(0.4, 1.6)	(0.0, 2.2)	(0.1, 1.3)	(0.4, 2.2)
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		(46.7, 52.7)	(6.7, 15.9)	(32.8, 42.1)	(52.6, 60.3)
		(46.5, 52.5)	(83.7, 93.1)	(57.5, 66.9)	(38.7, 46.4)
Yes	Legitimately Skipped Question	(0.4, 1.6)	(0.0, 2.4)	(0.1, 1.4)	(0.5, 2.3)
B 3a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	(3.5, 6.3)	(**, **)	(2.2, 6.1)	(3.8, 7.6)
	Firefighters don't like using the equipment	(0.1, 0.9)	(**, **)	(**, **)	(0.1, 1.2)
	Have never needed them (e.g., we don't do interior attacks)	(0.3, 1.5)	(**, **)	(**, **)	(0.4, 2.1)
	They cost too much, there is not enough money in the budget	(29.0, 34.7)	(3.0, 10.5)	(19.1, 27.4)	(32.8, 40.4)
	We don't have enough equipment for all of our firefighters	(22.0, 27.3)	(0.8, 6.4)	(10.3, 17.1)	(26.8, 34.0)
	Shared systems work fine for our needs	(20.9, 26.2)	(2.5, 9.9)	(14.7, 22.2)	(23.0, 30.0)
		(3.8, 6.5)	(2.2, 9.6)	(5.3, 10.6)	(2.6, 5.8)
	Legitimately Skipped Question	(47.4, 53.3)	(84.2, 93.5)	(57.7, 67.0)	(39.8, 47.5)
Othe	r				(continued)

Other

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			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	(0.6, 2.2)	(**, **)	(**, **)	(0.9, 3.2)
	Some of the time	(3.6, 6.2)	(**, **)	(0.6, 3.2)	(4.7, 8.5)
	About half the time	(1.8, 3.9)	(0.1, 5.3)	(0.3, 2.4)	(2.4, 5.2)
	Most of the time	(22.0, 27.2)	(9.5, 19.5)	(12.3, 19.3)	(25.4, 32.5)
	Always	(63.3, 68.9)	(79.3, 89.5)	(77.9, 85.3)	(54.8, 62.4)
	Legitimately Skipped Question	(0.4, 1.6)	(0.0, 2.4)	(0.1, 1.3)	(0.5, 2.3)
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	(23.3, 28.6)	(6.7, 15.5)	(10.0, 16.5)	(28.5, 35.8)
	Firefighters do not trust that the SCBAs will work reliably	(**, **)	(**, **)	(**, **)	(0.0, 0.9)
	Firefighters don't think they need them	(8.6, 12.3)	(3.7, 10.5)	(4.8, 9.8)	(9.7, 14.7)
	Firefighters don't like sharing facepieces with others	(0.5, 1.8)	(**, **)	(0.3, 2.6)	(0.5, 2.2)
	Firefighters are concerned that the SCBA may be or become contaminated	(**, **)	(**, **)	(0.0, 1.9)	(**, **)
	Wearing SCBAs makes it more difficult to work	(4.6, 7.5)	(1.4, 7.5)	(2.4, 6.2)	(5.2, 9.0)
	Firefighters don't have SCBAs to use	(2.8, 5.4)	(0.1, 5.4)	(0.8, 3.8)	(3.5, 7.0)
	Legitimately Skipped Question	(64.9, 70.5)	(80.4, 90.4)	(79.0, 86.3)	(56.6, 64.3)
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	(39.7, 46.3)	(45.1, 60.0)	(41.3, 51.8)	(36.7, 45.3)
	Once a month or more	(16.5, 21.7)	(6.1, 16.9)	(16.0, 24.6)	(15.7, 22.5)
	Several times a year	(12.8, 17.5)	(9.4, 19.6)	(12.2, 19.8)	(11.9, 18.2)
	Once a year	(14.1, 19.1)	(15.1, 27.4)	(12.3, 20.0)	(13.6, 20.1)
	Less than once a year	(3.1, 5.9)	(0.3, 3.7)	(0.5, 2.9)	(4.1, 8.1)
	Never. Maintenance has not been done on our SCBAs.	(0.8, 2.5)	(0.3, 5.6)	(0.1, 2.1)	(0.9, 3.4)
	Does not apply. My department does not have SCBAs.	(**, **)	(**, **)	(**, **)	(**, **)
	Legitimately Skipped Question	(0.5, 2.0)	(0.1, 2.8)	(0.1, 1.6)	(0.6, 2.8)

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	(15.5, 19.8) (80.2, 84.5)	(40.2, 54.1) (45.9, 59.8)	(23.2, 31.5) (68.5, 76.8)	(9.8, 15.0) (85.0, 90.2)
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department We didn't know they were available	(18.5, 23.6) (12.9, 17.5)	(6.5, 16.0) (3.3, 10.8)	(10.1, 16.9) (8.4, 14.9)	(21.4, 28.4) (14.2, 20.3)
	We don't have adequate funding to purchase them	(17.3, 22.3) (57.2, 63.2) (3.7, 6.4)	(4.5, 13.2) (27.1, 40.3) (11.1, 22.3)	(12.3, 19.8) (50.2, 59.8) (3.5, 7.9)	(18.7, 25.4) (59.6, 67.4) (2.9, 6.3)
38 he	Legitimately Skipped Question r Does your fire department have Automated External Defibrillators (AEDs)?	(16.2, 20.6)	(41.0, 55.1)	(24.4, 33.0)	(10.2, 15.5)
	Yes	(74.8, 79.9) (20.1, 25.2)	(91.4, 97.4) (2.6, 8.6)	(81.4, 88.2) (11.8, 18.6)	(69.8, 76.6) (23.4, 30.2)
38a.	At your fire department, where do you have AEDs?				
No	At the fire station(s) On the emergency vehicles (or apparatus) Both at the fire station(s) and on the vehicles (or apparatus)	(1.9, 4.1) (58.9, 64.9) (8.7, 12.3)	(0.2, 3.0) (68.9, 81.9) (12.4, 24.3)	(0.2, 2.3) (65.3, 74.5) (9.2, 15.6)	(2.5, 5.6) (54.1, 61.9) (7.4, 12.0)
39.	Legitimately Skipped Question How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?	(22.2, 27.7)	(3.1, 10.2)	(13.6, 21.3)	(25.3, 32.6)
	After every time they are used	(11.7, 16.4)	(27.4, 40.0)	(11.7, 19.3)	(9.6, 15.7)
	Several times a year	(18.0, 23.4)	(14.0, 25.5)	(22.5, 32.0) (14.5, 22.7)	(20.9, 28.8) (18.3, 25.6)
	Once a year	(19.6, 25.3)	(12.1, 22.3)	(22.3, 31.6)	(17.1, 24.5)
	Less frequently than once a year Never. Maintenance on our AEDs has not been done.	(5.8, 9.5) (8.4, 12.8)	(1.4, 6.9) (0.4, 3.1)	(4.4, 9.9) (4.1, 9.7)	(5.9, 10.9) (10.0, 16.2)

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
		(1.0, 2.6)	(0.0, 2.2)	(0.7, 3.6)	(1.0, 3.0)
	Some of the time	(3.6, 6.1)	(0.0, 2.1)	(1.9, 5.5)	(4.1, 7.5)
Neve	rAbout half the time	(1.8, 3.8)	(0.2, 3.0)	(0.7, 3.1)	(2.1, 4.9)
	Most of the time	(18.3, 23.1)	(2.1, 7.3)	(12.0, 18.8)	(20.7, 27.1)
	Always	(67.7, 73.0)	(91.2, 96.9)	(74.5, 82.2)	(62.1, 69.3)
41.	have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
	Never	(15.9, 20.4)	(7.2, 15.4)	(15.5, 23.0)	(15.1, 21.0)
	Some of the time	(61.6, 67.3)	(74.4, 85.0)	(62.8, 71.7)	(58.8, 66.2)
	About half the time	(8.6, 12.2)	(2.3, 8.2)	(6.5, 12.1)	(8.9, 13.7)
	Most of the time	(4.2, 6.9)	(2.0, 8.0)	(2.6, 6.4)	(4.4, 8.1)
		(1.1, 2.9)	(0.2, 3.1)	(0.1, 2.1)	(1.5, 4.0)
42. Alwa	How would you rate your department's budget in the _y following areas?				
42a.	Equipment				
	Not adequate	(45.7, 51.6)	(25.8, 38.3)	(35.8, 45.0)	(49.2, 56.8)
	Adequate	(42.8, 48.6)	(49.6, 62.9)	(45.4, 54.9)	(39.5, 47.1)
	More than adequate	(4.5, 7.2)	(8.1, 17.3)	(7.0, 12.8)	(2.5, 5.6)

		Population Protected			
	Question	Total	50,000 + People	5,000–49,999 People	0-4,999 People
42b.	Training				
	Not adequate	(36.3, 42.0)	(40.1, 53.2)	(31.5, 40.3)	(36.6, 44.2)
	Adequate	(52.7, 58.6)	(41.0, 54.3)	(51.6, 60.8)	(51.8, 59.5)
	More than adequate	(4.0, 6.8)	(3.4, 9.8)	(5.7, 11.0)	(2.6, 5.9)
42c.	Personnel				
	Not adequate	(48.5, 54.5)	(53.8, 65.8)	(46.3, 55.6)	(47.5, 55.4)
	Adequate	(41.3, 47.3)	(29.6, 41.6)	(39.5, 48.9)	(40.8, 48.7)
	More than adequate	(3.1, 5.7)	(2.7, 8.1)	(3.1, 7.5)	(2.5, 5.9)
43.	recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
	Never	(24.2, 29.5)	(4.7, 11.2)	(13.1, 20.1)	(28.7, 36.0)
	One or two times per year	(31.6, 37.2)	(21.7, 34.0)	(30.7, 39.7)	(30.8, 38.0)
	Several times per year	(30.5, 35.9)	(42.6, 56.1)	(37.3, 46.5)	(25.3, 32.2)
	Once a month or more	(4.5, 7.2)	(11.6, 21.3)	(4.8, 9.4)	(3.3, 6.9)
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	(53.1, 58.9)	(48.6, 61.5)	(52.0, 61.4)	(51.9, 59.5)
	On the Internet	(22.4, 27.1)	(56.6, 69.8)	(31.5, 40.3)	(15.4, 21.3)
	From colleagues in other departments	(8.3, 11.8)	(13.9, 24.4)	(8.8, 14.7)	(6.9, 11.4)
	At conferences or other meetings	(5.7, 8.5)	(17.6, 28.4)	(6.4, 11.4)	(4.1, 7.6)
	Legitimately Skipped Question	(24.2, 29.5)	(4.7, 11.3)	(13.1, 20.1)	(28.7, 35.9)

			Populatio	n Protected	
	Question	Total	50,000 +	5,000-49,999	0-4,999 Beenle
45	Have you read part or all of a NIOSH Fire Fighter Fatality	lotai	People	Реоріе	Реоріе
-5.	Investigation report in the last 12 months?				
	Yes	(50.4, 56.2)	(78.5, 87.8)	(60.9, 69.8)	(43.0, 50.6)
		(17.8, 22.5)	(6.0, 13.6)	(14.8, 22.0)	(18.3, 24.6)
	Legitimately Skipped Question	(24.1, 29.4)	(4.6, 11.1)	(13.2, 20.2)	(28.4, 35.6)
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		(57.7, 63.5)	(74.1, 84.5)	(66.6, 75.3)	(51.3, 59.0)
		(10.2, 14.1)	(9.1, 18.0)	(9.4, 15.6)	(9.7, 14.7)
Yes	Legitimately Skipped Question	(24.7, 30.0)	(4.7, 11.2)	(13.4, 20.5)	(29.3, 36.6)
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	(21.1, 26.1)	(21.3, 33.6)	(20.1, 28.1)	(20.1, 26.7)
	Training sessions	(41.3, 47.2)	(51.0, 64.2)	(43.9, 53.4)	(37.9, 45.5)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(26.5, 39.3)	(21.2, 29.1)	(9.4, 14.3)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(5.7, 13.2)	(7.7, 13.4)	(3.0, 6.2)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(5.6, 12.6)	(1.1, 4.2)	(0.7, 2.6)
	Postings on bulletin boards	(35.6, 41.3)	(31.2, 44.6)	(43.4, 52.9)	(30.6, 37.9)
	Post report on the department website	(0.7, 1.8)	(4.3, 11.4)	(0.9, 3.6)	(0.2, 1.5)
	Send message to firefighters by email	(4.3, 6.5)	(28.5, 41.5)	(7.0, 12.1)	(1.5, 3.8)
		(0.8, 2.0)	(5.4, 13.5)	(0.8, 3.5)	(0.3, 1.8)
	Legitimately Skipped Question	(36.2, 42.0)	(15.7, 26.2)	(24.6, 33.2)	(40.6, 48.3)
51 he	r The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does				
	your fire department usually have access to documents that				
	are referenced in NIUSH reports?			(42.2.52.4)	
		(31.6, 36.9)	(12.5, 83.3)	(43.3, 52.4)	(23.2, 29.9)
	Legitimentaly, Chimned Question	(35.5, 41.3)	(10.1, 19.3)	(31.0, 40.1)	(36.9, 44.5)
Yes	Legitimately Skipped Question	(24.8, 30.2)	(4.8, 11.6)	(13.5, 20.6)	(29.4, 36.7)

			Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People	
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	(0.2, 1.1)	(0.4, 5.9)	(0.2, 1.7)	(0.1, 1.4)	
	Disagree	(2.6, 4.8)	(1.7, 7.4)	(2.7, 6.6)	(2.1, 4.9)	
	Neither Agree nor Disagree	(16.5, 21.2)	(13.5, 24.6)	(14.4, 21.7)	(16.2, 22.4)	
	Agree	(42.7, 48.6)	(52.7, 66.2)	(51.5, 61.0)	(36.5, 44.2)	
	Strongly Agree	(2.7, 5.0)	(6.0, 14.3)	(2.5, 6.5)	(2.1, 5.1)	
	Legitimately Skipped Question	(25.3, 30.8)	(4.8, 11.5)	(13.8, 21.1)	(30.0, 37.4)	
52b.	Recommendations are easy to understand					
	Strongly Disagree	(0.2, 1.0)	(0.7, 6.8)	(0.1, 1.7)	(0.1, 1.4)	
	Disagree	(1.1, 2.6)	(0.8, 5.2)	(1.9, 5.6)	(0.4, 2.2)	
	Neither Agree nor Disagree	(17.5, 22.3)	(9.1, 18.7)	(14.6, 22.0)	(17.9, 24.2)	
	Agree	(42.4, 48.4)	(55.9, 69.3)	(51.4, 60.9)	(36.1, 43.8)	
	Strongly Agree	(3.5, 6.1)	(8.2, 17.6)	(3.2, 7.7)	(2.8, 6.1)	
	Legitimately Skipped Question	(25.4, 30.9)	(4.9, 11.7)	(13.8, 21.1)	(30.1, 37.6)	
52c.	Recommendations are specific and concrete					
	Strongly Disagree	(0.2, 1.0)	(1.1, 7.7)	(0.2, 1.7)	(0.1, 1.4)	
	Disagree	(2.3, 4.4)	(3.7, 10.8)	(2.9, 7.0)	(1.5, 4.0)	
	Neither Agree nor Disagree	(24.0, 29.4)	(16.2, 27.7)	(24.7, 33.5)	(22.5, 29.4)	
	Agree	(35.0, 40.8)	(45.4, 59.2)	(40.1, 49.7)	(30.6, 38.0)	
	Strongly Agree	(2.8, 5.2)	(6.2, 13.8)	(2.4, 6.5)	(2.4, 5.4)	
	Legitimately Skipped Question	(25.4, 30.8)	(4.9, 11.7)	(13.9, 21.2)	(30.0, 37.4)	

		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People	
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.					
	Pocket guide to chemical hazards	(54.4, 60.4)	(79.6, 89.5)	(60.2, 69.2)	(48.9, 56.8)	
	Respirator maintenance program guide	(11.9, 15.9)	(20.6, 32.8)	(14.7, 21.9)	(9.1, 14.0)	
	CDs of firefighter program materials	(25.4, 30.7)	(34.7, 48.0)	(25.8, 34.7)	(23.2, 30.1)	
	Alerts	(29.1, 34.5)	(56.4, 69.0)	(36.7, 46.1)	(22.7, 29.6)	
	Hazard IDs	(14.5, 19.0)	(18.4, 30.4)	(14.3, 21.7)	(13.1, 18.9)	
	Workplace Solutions	(10.7, 14.6)	(12.5, 23.0)	(12.5, 19.6)	(8.6, 13.5)	
		(0.4, 1.4)	(1.3, 6.5)	(0.4, 2.6)	(0.2, 1.5)	
	None. I have not seen any NIOSH materials.	(22.6, 27.9)	(3.0, 9.6)	(12.7, 19.7)	(26.7, 34.0)	
53 a	r How satisfied or dissatisfied are you with these NIOSH materials?					
	Very dissatisfied	(0.8, 2.2)	(1.6, 7.7)	(0.6, 2.9)	(0.6, 2.5)	
	Dissatisfied	(0.0, 0.7)	(**, **)	(**, **)	(0.1, 1.1)	
	Neither satisfied nor dissatisfied	(18.8, 23.8)	(10.8, 21.7)	(18.0, 26.0)	(18.1, 24.5)	
	Satisfied	(44.1, 50.1)	(53.4, 67.0)	(50.7, 60.1)	(39.0, 46.8)	
	Very satisfied	(4.0, 6.7)	(10.6, 20.6)	(3.9, 8.4)	(3.2, 6.5)	
	Legitimately Skipped Question	(22.4, 27.7)	(3.1, 9.8)	(12.5, 19.5)	(26.4, 33.7)	
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?					
		(56.5, 62.2)	(10.1, 20.1)	(44.0, 53.2)	(62.4, 69.7)	
	Yes, in the last year	(31.9, 37.3)	(68.1, 80.2)	(40.5, 49.7)	(24.8, 31.7)	
No	Yes, longer than one year ago	(4.9, 7.6)	(7.2, 16.3)	(4.5, 9.0)	(4.3, 7.8)	

Note: The 0-4,999 column includes those records with a missing value for population protected.

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

B-158

			Populatio	n Protected	
			50,000 +	5,000-49,999	0-4,999
	Question	Total	People	People	People
1.	Does your department have a Safety Officer?				
		1,587	272	563	752
		1,587	272	563	752
2 es	Does your department have a Training Officer?				
No		1,600	277	568	755
		1,600	277	568	755
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	1,600	276	564	760
	Maintenance of SCBAs	1,600	276	564	760
	Motor vehicle safety	1,600	276	564	760
	Participation in a personal physical fitness program	1,600	276	564	760
	Participation in regular health screenings for cardiovascular disease (CVD)	1,600	276	564	760
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	1,600	276	564	760
	Use of Personal Alert Safety System (PASS) devices	1,600	276	564	760
	Use of personal protective equipment and protective clothing	1,600	276	564	760
	Use of radio communications	1,600	276	564	760
		1,600	276	564	760
	Does not apply. Our fire department does not use SOPs/SOGs.	1,600	276	564	760

Other

(continued)

B-159

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?				
4a.	Fighting structure fires				
	No Training	1,607	275	570	762
	Optional Training	1,607	275	570	762
	Required Training	1,607	275	570	762
4b.	Driving safety				
	No Training	1,598	276	569	753
	Optional Training	1,598	276	569	753
	Required Training	1,598	276	569	753
4c.	Incident Command systems				
	No Training	1,584	274	565	745
	Optional Training	1,584	274	565	745
	Required Training	1,584	274	565	745
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	1,581	271	558	752
	Optional Training	1,581	271	558	752
	Required Training	1,581	271	558	752
4e.	Rapid Intervention Teams (RITs)				
	No Training	1,511	271	544	696
	Optional Training	1,511	271	544	696
	Required Training	1,511	271	544	696

B-160

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1,611	275	571	765
	Optional Training	1,611	275	571	765
	Required Training	1,611	275	571	765
4g.	Use of radio communication devices				
	No Training	1,606	274	568	764
	Optional Training	1,606	274	568	764
	Required Training	1,606	274	568	764
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	1,611	275	569	767
	Other officers within our department	1,611	275	569	767
	State fire training agency	1,611	275	569	767
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	1,611	275	569	767
	Conferences or regional meetings	1,611	275	569	767
		1,611	275	569	767
6. Othe	What other trainings have your firefighters attended in the rlast 12 months? MARK ALL THAT APPLY.				
••	Roadside incidents/Motor Vehicle Accidents (MVA)	1,622	279	572	771
	Scuba diving	1,622	279	572	771
	Swift water rescue	1,622	279	572	771
	Wildland fire fighting	1,622	279	572	771
		1,622	279	572	771
		1,622	279	572	771

HAZMAT

Other

			Population Protected		
			50,000 +	5,000-49,999	0-4,999
	Question	Total	People	People	People
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	1,610	277	568	765
	Not very familiar	1,610	277	568	765
	Somewhat familiar	1,610	277	568	765
	Very familiar	1,610	277	568	765
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	1,611	275	570	766
	Not very familiar	1,611	275	570	766
	Somewhat familiar	1,611	275	570	766
	Very familiar	1,611	275	570	766
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	1,609	277	569	763
	National conference presentations	1,609	277	569	763
	State-level conference presentations	1,609	277	569	763
	Other firefighters or departments	1,609	277	569	763
	At seminars or other training opportunities (not conferences)	1,609	277	569	763
	Trade publications (such as Firehouse and Fire Engineering)	1,609	277	569	763
	NIOSH website	1,609	277	569	763
	Links from other websites (such as NFPA and Firehouse)	1,609	277	569	763
	Media reports-newspaper, television, radio	1,609	277	569	763
		1,609	277	569	763
Oth	Does not apply. We have not received information about NIOSH recommendations.	1,609	277	569	763

			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	1,536	268	554	714
	Developed new SOPs/SOGs	1,536	268	554	714
	Made changes to SOPs/SOGs	1,536	268	554	714
	Justified current budget/staffing	1,536	268	554	714
	Made new budget/staffing requests	1,536	268	554	714
	Justified grant applications	1,536	268	554	714
	Does not apply. We have not used NIOSH recommendations.	1,536	268	554	714
	Legitimately Skipped Question	1,536	268	554	714
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	1,530	265	557	708
	Personal protective equipment and clothing	1,530	265	557	708
		1,530	265	557	708
	PASS systems	1,530	265	557	708
SCBA	Incident Command systems	1,530	265	557	708
	Radio communications	1,530	265	557	708
	Physical fitness and cardiovascular disease (CVD)	1,530	265	557	708
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	265	557	708
		1,530	265	557	708
Othe	Does not apply. We have not used NIOSH recommendations for r training purposes.	1,530	265	557	708
	Legitimately Skipped Question	1,530	265	557	708

			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		1,596	270	567	759
	Yes, it's required	1,596	270	567	759
No	Yes, it's optional	1,596	270	567	759
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	1,582	269	557	756
	Less frequently than once a year	1,582	269	557	756
	One time a year	1,582	269	557	756
	More than one time a year	1,582	269	557	756
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	269	557	756
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	1,616	279	570	767
	Yes, they receive training required by the department	1,616	279	570	767
	Yes, they receive training required by the state	1,616	279	570	767
	Yes, they receive optional training	1,616	279	570	767
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	1,611	276	569	766
	Once every year	1,611	276	569	766
	Less frequently than once a year	1,611	276	569	766
	Does not apply. Firefighters are not required to receive continuing driver training.	1,611	276	569	766

Question 50,000 + Total 5,000-49,999 People 1 16. Does your fire department have a requirement regarding seat belt use in emergency vehicles? 1,613 277 569 1 17.613 277 569 1 569 1 1 17.613 277 569 1 5 1		Population Protected				
QuestionTotalPeoplePeople16. Does your fire department have a requirement regarding seat belt use in emergency vehicles?1,6132775691,6132775691,6132775691,6132775691,6132775691,6132775691,613277566Nowhile wearing turnout gear in your emergency vehicles? Strongly disagree1,603277566Disagree1,60327756666Neither agree nor disagree1,603277566Agree1,60327756666Strongly agree1,603277566Strongly agree1,603277566Strongly agree1,603277566Strongly agree1,616279570Some of the time1,616279570NeverAbout half the time1,616279570NeverAbout half the time1,61627957021. How often is Incident Command established when Alwaysesponding to structure fires?1,604276566Dencir1,6042765661566)-4,999	5,000-49,999	50,000 +			
16.Does your fire department have a requirement regarding seat belt use in emergency vehicles?II <th>People</th> <th>People</th> <th>People</th> <th>Total</th> <th>Question</th> <th></th>	People	People	People	Total	Question	
1,613 277 569 133 To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles? 1,603 277 566 Strongly disagree Disagree 1,603 277 566 1,603 277 566 No fitter agree nor disagree 1,603 277 566 1,603 277 566 Neither agree nor disagree 1,603 277 566 1,603 277 566 Agree 1,603 277 566 1,603 277 566 Strongly agree 1,603 277 566 1,603 277 566 18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles? 1,616 279 570 Never About half the time 1,616 279 570 1,616 279 570 Nost of the time 1,616 279 570 1,616 279 570 21. How often is Incident Command established when Alwaysesponding to structure fires? 1,604					Does your fire department have a requirement regarding seat belt use in emergency vehicles?	16.
1,613277569123To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles? Strongly disagree1,603277566Disagree1,6032775661NoNeither agree nor disagree1,603277566Agree1,6032775661Strongly agree1,603277566118.About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?1,616279570Some of the time1,61627957015701NeverAbout half the time1,6162795705701NeverAbout half the time1,6162795701570111.How often is Incident Command established when Alwaytesponding to structure fires?1,6042765661Derectiv1,6042765661566111.1.1.1.56611111.11.1.1.1.1.1112.How often is Incident Command established when Alwaytesponding to structure fires?1.1.566113.11.11.11.11.11.1.1.1.1.13.14.11.11.11.1.1.1.1.1.14.11.11.11. <t< td=""><td>767</td><td>569</td><td>277</td><td>1,613</td><td></td><td></td></t<>	767	569	277	1,613		
173 NoTo what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?Image: Composition of the seatbelts while wearing turnout gear in your emergency vehicles?Strongly disagree1,603277566Disagree1,603277566Neither agree nor disagree1,603277566Agree1,603277566Strongly agree1,6032775661.60327756611.60327756611.60327756611.60327756611.60327756611.6162795701Some of the time1,616279570Never About half the time1,616279570Most of the time1,61627957021. How often is Incident Command established when Alway§esponding to structure fires?1,604276566	767	569	277	1,613		
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Agree 1,603 277 566 Strongly agree 1,603 277 566 18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles? 1,616 279 570 Some of the time 1,616 279 570 570 NeverAbout half the time 1,616 279 570 Most of the time 1,616 279 570 Image: Alwaysesponding to structure fires? 1,604 276 566	760	566	277	1,603	Neither agree nor disagree	
Strongly agree 1,603 277 566 18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles? 1	760	566	277	1,603	Agree	
18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?111 <td>760</td> <td>566</td> <td>277</td> <td>1,603</td> <td>Strongly agree</td> <td></td>	760	566	277	1,603	Strongly agree	
Some of the time 1,616 279 570 Never About half the time 1,616 279 570 Most of the time 1,616 279 570 Most of the time 1,616 279 570 1,616 279 570 570 1,616 279 570 570 21. How often is Incident Command established when 1,604 276 566 1,604 276 566 1,604 276 566					About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?	18.
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1,616 279 570 21. How often is Incident Command established when Alwaysesponding to structure fires? 1,604 276 566 1,604 276 566 1,604 277 566	767	570	279	1,616	Most of the time	
21. How often is Incident Command established when Alwaysesponding to structure fires? 1,604 276 566 Details 1,604 276 566	767	570	279	1,616		
1,604 276 566					How often is Incident Command established when vsesponding to structure fires?	21. Alwa
	762	566	276	1,604	<u> </u>	
Rarely 1,604 276 566	762	566	276	1,604	Rarely	
NeverAbout half the time 1,604 276 566	762	566	276	1,604	rAbout half the time	Neve
Most of the time 1,604 276 566	762	566	276	1,604	Most of the time	
1,604 276 566	762	566	276	1,604		

Always

			Populatio	n Protected	
			50,000 +	5,000-49,999	0-4,999
	Question	Total	People	People	People
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	1,600	275	565	760
	Not enough firefighters available at the scene of the fire	1,600	275	565	760
		1,600	275	565	760
Othe	Does not apply. My department always assigns an Incident r Commander for structure fires.	1,600	275	565	760
	Legitimately Skipped Question	1,600	275	565	760
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	1,588	276	562	750
	Develop and coordinate the fire attack strategy	1,588	276	562	750
	Develop and initiate a risk management plan	1,588	276	562	750
	Document all assessments, plans and events related to the fire	1,588	276	562	750
	Ensure that at least four (4) firefighters are on the scene before entering the building	1,588	276	562	750
	Establish a collapse zone around the building	1,588	276	562	750
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	1,588	276	562	750
	Identify and implement a communication strategy	1,588	276	562	750
	Monitor location of all firefighters at the scene	1,588	276	562	750
		1,588	276	562	750
24. Othe	About how often does an Incident Commander assign an $_{\!$				
	Never	1,605	278	567	760
	Some of the time	1,605	278	567	760
	About half the time	1,605	278	567	760
	Most of the time	1,605	278	567	760
		1,605	278	567	760

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	1,588	277	563	748
	Not enough firefighters are available at the scene of the fire	1,588	277	563	748
		1,588	277	563	748
Othe	Does not apply. Our Incident Commanders always assign an r Incident Safety Officer for structure fires.	1,588	277	563	748
01110	Legitimately Skipped Question	1,588	277	563	748
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	1,602	277	565	760
	Some of the time	1,602	277	565	760
	About half the time	1,602	277	565	760
	Most of the time	1,602	277	565	760
		1,602	277	565	760
27. Alwa	In what situations are RITs/RICs established? MARK ALL $_{ m V}$ THAT APPLY.				
/	When the building has more than one story/floor	1,600	278	564	758
	When there are enough firefighters on and at the scene of the fire	1,600	278	564	758
	Whenever firefighters enter a burning building	1,600	278	564	758
		1,600	278	564	758
	Legitimately Skipped Question	1,600	278	564	758

Other

			Populatio	on Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	1,575	274	557	744
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	1,575	274	557	744
	We don't have enough firefighters available at the scene of the fire	1,575	274	557	744
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	1,575	274	557	744
	We have never established an RIT/RIC	1,575	274	557	744
	We use other fire departments in the area for RITs/RICs	1,575	274	557	744
	We use other safety practices and so we don't need them	1,575	274	557	744
		1,575	274	557	744
	Legitimately Skipped Question	1,575	274	557	744
29 ne	T Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		1,606	279	568	759
		1,606	279	568	759
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		1,600	278	567	755
	Some of the time	1,600	278	567	755
Neve	erAbout half the time	1,600	278	567	755
	Most of the time	1,600	278	567	755
		1,600	278	567	755

Always

			Populatio	n Protected	
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	1,590	278	560	752
	Situation doesn't require them	1,590	278	560	752
	Firefighters think the devices do not always work reliably	1,590	278	560	752
	Firefighters don't think they need them	1,590	278	560	752
	Devices go off while firefighters are resting	1,590	278	560	752
	Legitimately Skipped Question	1,590	278	560	752
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		1,606	278	567	761
		1,606	278	567	761
33 36 No	Do your firefighters ever have to share facepieces for SCBAs?				
		1,521	257	530	734
		1,521	257	530	734
Yes	Legitimately Skipped Question	1,521	257	530	734
₿3a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	1,517	256	530	731
	Firefighters don't like using the equipment	1,517	256	530	731
	Have never needed them (e.g., we don't do interior attacks)	1,517	256	530	731
	They cost too much, there is not enough money in the budget	1,517	256	530	731
	We don't have enough equipment for all of our firefighters	1,517	256	530	731
	Shared systems work fine for our needs	1,517	256	530	731
		1,517	256	530	731
	Legitimately Skipped Question	1,517	256	530	731

Other

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				-
	Never	1,536	260	535	741
	Some of the time	1,536	260	535	741
	About half the time	1,536	260	535	741
	Most of the time	1,536	260	535	741
		1,536	260	535	741
	Legitimately Skipped Question	1,536	260	535	741
8.5 va	y₩hy do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	1,525	259	532	734
	Firefighters do not trust that the SCBAs will work reliably	1,525	259	532	734
	Firefighters don't think they need them	1,525	259	532	734
	Firefighters don't like sharing facepieces with others	1,525	259	532	734
	Firefighters are concerned that the SCBA may be or become contaminated	1,525	259	532	734
	Wearing SCBAs makes it more difficult to work	1,525	259	532	734
	Firefighters don't have SCBAs to use	1,525	259	532	734
	Legitimately Skipped Question	1,525	259	532	734
86.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	1,270	222	453	595
	Once a month or more	1,270	222	453	595
	Several times a year	1,270	222	453	595
	Once a year	1,270	222	453	595
	Less than once a year	1,270	222	453	595
	Never. Maintenance has not been done on our SCBAs.	1,270	222	453	595
	Does not apply. My department does not have SCBAs.	1,270	222	453	595
	Legitimately Skipped Question	1.270	222	453	595

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	1,518	258	534	726
		1,518	258	534	726
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	1,454	249	511	694
37. (373. (373. (2000) (373. (We didn't know they were available	1,454	249	511	694
	We don't have adequate technical information to purchase them	1,454	249	511	694
	We don't have adequate funding to purchase them	1,454	249	511	694
		1,454	249	511	694
	Legitimately Skipped Question	1,454	249	511	694
68 ae	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	1,610	274	569	767
		1,610	274	569	767
38a.	At your fire department, where do you have AEDs?				
No	At the fire station(s)	1,424	225	493	706
37a. Zero 68aer 38a. No 39.	On the emergency vehicles (or apparatus)	1,424	225	493	706
	Both at the fire station(s) and on the vehicles (or apparatus)	1,424	225	493	706
	Legitimately Skipped Question	1,424	225	493	706
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	1,235	240	455	540
	Once a month or more	1,235	240	455	540
	Several times a year	1,235	240	455	540
	Once a year	1,235	240	455	540
	Less frequently than once a year	1,235	240	455	540
	Never. Maintenance on our AEDs has not been done.	1,235	240	455	540
•					(continued)

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	Population Protected			
Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People
40. About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
	1,610	279	569	762
Some of the time	1,610	279	569	762
NeverAbout half the time	1,610	279	569	762
Most of the time	1,610	279	569	762
	1,610	279	569	762
Alwayshave problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?	1,612	279	567	766
Some of the time	1,612	279	567	766
NeverAbout half the time	1,612	279	567	766
Most of the time	1,612	279	567	766
	1,612	279	567	766
42. How would you rate your department's budget in the Alway following areas ?				
42a. Equipment				
Not adequate	1,608	277	569	762
Adequate	1,608	277	569	762
More than adequate	1,608	277	569	762

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
42b.	Training				
	Not adequate	1,608	275	572	761
	Adequate	1,608	275	572	761
	More than adequate	1,608	275	572	761
42c.	Personnel				
	Not adequate	1,551	277	554	720
	Adequate	1,551	277	554	720
	More than adequate	1,551	277	554	720
43.	firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
	•	1,605	276	568	761
	One or two times per year	1,605	276	568	761
Neve	rSeveral times per year	1,605	276	568	761
	Once a month or more	1,605	276	568	761
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	1,605	275	567	763
	On the Internet	1,605	275	567	763
	From colleagues in other departments	1,605	275	567	763
	At conferences or other meetings	1,605	275	567	763
	Legitimately Skipped Question	1,605	275	567	763
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	1,611	277	566	768
		1,611	277	566	768
	Legitimately Skipped Question	1,611	277	566	768
No					(continue

			Population	Protected	
			50,000 +	5,000-49,999	0-4,999
	Question	Total	People	People	People
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		1,583	276	560	747
		1,583	276	560	747
Yes	Legitimately Skipped Question	1,583	276	560	747
5 0a	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	1,585	273	558	754
	Training sessions	1,585	273	558	754
	Provide copies of NIOSH reports to firefighters	1,585	273	558	754
	Provide copies of NIOSH report summaries to firefighters	1,585	273	558	754
	Provide summaries prepared by department to firefighters	1,585	273	558	754
	Postings on bulletin boards	1,585	273	558	754
	Post report on the department website	1,585	273	558	754
	Send message to firefighters by email	1,585	273	558	754
		1,585	273	558	754
	Legitimately Skipped Question	1,585	273	558	754
51 he	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		1,564	265	554	745
		1,564	265	554	745
Yes	Legitimately Skipped Question	1,564	265	554	745

No

		Population Protected			
	Question	Total	50,000 + People	5,000-49,999 People	0–4,999 People
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	1,547	268	547	732
	Disagree	1,547	268	547	732
	Neither Agree nor Disagree	1,547	268	547	732
	Agree	1,547	268	547	732
	Strongly Agree	1,547	268	547	732
	Legitimately Skipped Question	1,547	268	547	732
52b.	Recommendations are easy to understand				
	Strongly Disagree	1,537	265	545	727
	Disagree	1,537	265	545	727
	Neither Agree nor Disagree	1,537	265	545	727
	Agree	1,537	265	545	727
	Strongly Agree	1,537	265	545	727
	Legitimately Skipped Question	1,537	265	545	727
52c.	Recommendations are specific and concrete				
	Strongly Disagree	1,537	265	542	730
	Disagree	1,537	265	542	730
	Neither Agree nor Disagree	1,537	265	542	730
	Agree	1,537	265	542	730
	Strongly Agree	1,537	265	542	730
	Legitimately Skipped Question	1,537	265	542	730

		Population Protected				
	Question	Total	50,000 + People	5,000-49,999 People	0-4,999 People	
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.		-		-	
	Pocket guide to chemical hazards	1,537	269	549	719	
	Respirator maintenance program guide	1,537	269	549	719	
	CDs of firefighter program materials	1,537	269	549	719	
	Alerts	1,537	269	549	719	
	Hazard IDs	1,537	269	549	719	
	Workplace Solutions	1,537	269	549	719	
		1,537	269	549	719	
	None. I have not seen any NIOSH materials.	1,537	269	549	719	
53a 6	r How satisfied or dissatisfied are you with these NIOSH materials?					
	Very dissatisfied	1,536	265	546	725	
	Dissatisfied	1,536	265	546	725	
	Neither satisfied nor dissatisfied	1,536	265	546	725	
	Satisfied	1,536	265	546	725	
	Very satisfied	1,536	265	546	725	
	Legitimately Skipped Question	1,536	265	546	725	
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?					
		1,589	274	567	748	
	Yes, in the last year	1,589	274	567	748	
No	Yes, longer than one year ago	1,589	274	567	748	

Note: The 0-4,999 column includes those records with a missing value for population protected.

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

 ** Estimate is less than 0.1 and therefore rounds to zero.

			Departi	nent Type	
	Question	Total	All Career	All Volunteer	Combination
1.	Does your department have a Safety Officer?				
		70.3	67.9	68.9	71.2
		29.7	32.1	31.1	28.8
2 es	Does your department have a Training Officer?				
No		88.5	87.7	88.4	88.6
		11.5	12.3	11.6	11.4
S ∉s No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	83.7	91.5 ^[2,3]	84.8 [1]	82.5 ^[1]
	Maintenance of SCBAs	69.7	81.4 [2,3]	72.6 ^[1]	67.1 ^[1]
	Motor vehicle safety	78.8	83.3	79.3	78.2
	Participation in a personal physical fitness program	11.0	47.8 [2,3]	14.1 ^[1,3]	6.4 ^[1,2]
	Participation in regular health screenings for cardiovascular disease (CVD)	16.8	42.9 ^[2,3]	17.7 ^[1]	14.2 [1]
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	40.4	70.4 ^[2,3]	45.6 ^[1,3]	35.1 ^[1,2]
	Use of Personal Alert Safety System (PASS) devices	75.4	83.0 [2,3]	74.6 [1]	75.1 ^[1]
	Use of personal protective equipment and protective clothing	89.1	94.1 ^[2,3]	89.1 ^[1]	88.7 ^[1]
	Use of radio communications	84.8	88.1	85.0	84.4
		8.7	12.5 ^[3]	10.3	7.5 ^[1]
	Does not apply. Our fire department does not use SOPs/SOGs.	5.0	2.2 [+]	5.6	4.9
Othe	r				(continued)

		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.					
4a.	Fighting structure fires					
	No Training	1.1	3.0 [+]	1.2 [+]	1.0	
	Optional Training	16.7	5.0 ^[2,3]	15.6 ^[1]	18.3 ^[1]	
	Required Training	82.8	93.3 ^[2,3]	83.5 ^[1]	81.6 [1]	
4b.	Driving safety					
	No Training	3.9	2.5	4.1	4.0	
	Optional Training	18.6	7.1 ^[2,3]	17.4 [1]	20.1 ^[1]	
	Required Training	77.7	91.0 ^[2,3]	78.6 [1]	76.2 [1]	
4c.	Incident Command systems					
	No Training	2.9	* * [2,3,+]	2.8 [1]	3.2 [1]	
	Optional Training	27.4	5.7 ^[2,3]	27.6 [1]	29.0 [1]	
	Required Training	69.9	94.2 ^[2,3]	69.8 ^[1]	68.0 ^[1]	
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)					
	No Training	6.6	5.7	7.2	6.3	
	Optional Training	33.6	14.8 ^[2,3]	31.6 [1]	36.2 [1]	
	Required Training	60.3	79.7 ^[2,3]	61.2 [1]	58.2 ^[1]	
4e.	Rapid Intervention Teams (RITs)					
	No Training	28.5	11.1 ^[2,3]	26.8 [1]	31.0 ^[1]	
	Optional Training	36.2	14.7 ^[2,3]	30.0 [1,3]	41.4 [1,2]	
	Required Training	35.5	74.9 ^[2,3]	43.3 ^[1,3]	27.9 ^[1,2]	

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1.5	3.2	1.7	1.2
	Optional Training	9.9	4.3 [2,3]	10.9 [1]	9.7 ^[1]
	Required Training	88.9	93.1 ^[2]	87.4 ^[1]	89.4
4g.	Use of radio communication devices				
	No Training	2.7	2.8	3.2	2.4
	Optional Training	21.4	9.2 [2,3]	23.7 ^[1]	21.1 ^[1]
	Required Training	76.2	88.7 ^[2,3]	73.4 [1]	76.7 ^[1]
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	84.9	88.0	85.0	84.5
	Other officers within our department	82.8	94.6 ^[2,3]	80.6 [1]	83.1 ^[1]
	State fire training agency	77.4	78.9	75.7	78.2
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	20.9	58.2 ^[2,3]	25.5 ^[1,3]	15.4 ^[1,2]
	Conferences or regional meetings	51.7	70.6 [2,3]	54.2 ^[1]	48.8 [1]
	Other	25.2	23.7	22.5	26.7
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	55.3	49.5 ^[3]	51.3 ^[3]	58.0 ^[1,2]
	Scuba diving	7.5	19.8 [2,3]	7.1 ^[1]	6.7 ^[1]
	Swift water rescue	11.2	30.4 [2,3]	11.5 ^[1]	9.5 ^[1]
	Wildland fire fighting	47.0	28.7 ^[2,3]	48.8 [1]	47.5 ^[1]
	HAZMAT	66.7	86.8 [2,3]	65.5 ^[1]	65.7 ^[1]
	Other	31.2	41.1 ^[2,3]	30.3 [1]	30.8 [1]

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	8.3	3.4 [3]	6.6	9.6 [1]
	Not very familiar	24.3	10.3 [2,3]	24.0 ^[1]	25.6 ^[1]
	Somewhat familiar	58.1	65.3 ^[3]	57.8	57.7 ^[1]
	Very familiar	9.3	21.0 ^[2,3]	11.6 ^[1,3]	7.0 ^[1,2]
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	20.8	10.5 [2,3]	19.7 ^[1]	22.2 [1]
	Not very familiar	33.5	19.1 ^[2,3]	34.3 [1]	34.3 [1]
	Somewhat familiar	37.9	54.9 ^[2,3]	35.8 [1]	37.7 ^[1]
	Very familiar	7.8	15.6 ^[2,3]	10.1 ^[1,3]	5.9 ^[1,2]
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	67.8	72.4	64.5	69.2
	National conference presentations	3.6	14.3 [2,3]	5.3 ^[1,3]	1.9 ^[1,2]
	State-level conference presentations	11.5	17.0 ^[3]	13.6	9.8 ^[1]
	Other firefighters or departments	22.9	25.7	23.6	22.3
	At seminars or other training opportunities (not conferences)	16.4	23.5 ^[2,3]	15.2 ^[1]	16.4 ^[1]
	Trade publications (such as Firehouse and Fire Engineering)	47.2	60.3 [3]	52.6 ^[3]	43.1 ^[1,2]
	NIOSH website	24.3	55.2 ^[2,3]	26.2 ^[1,3]	20.7 ^[1,2]
	Links from other websites (such as NFPA and Firehouse)	28.2	43.2 [2,3]	26.5 ^[1]	27.9 ^[1]
	Media reports-newspaper, television, radio	14.9	16.5	14.6	14.9
		1.1	3.0	1.0	1.1
Oth	Does not apply. We have not received information about NIOSH are recommendations.	11.1	6.2 [2]	13.1 ^[1]	10.4

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	40.2	54.1 ^[2,3]	38.4 [1]	40.0 [1]
	Developed new SOPs/SOGs	26.3	38.2 [2,3]	28.2 ^[1]	24.3 ^[1]
	Made changes to SOPs/SOGs	34.9	51.4 [2,3]	33.7 [1]	34.2 [1]
	Justified current budget/staffing	5.0	14.8 ^[2,3]	6.2 ^[1]	3.6 [1]
	Made new budget/staffing requests	5.5	14.8 ^[2,3]	5.4 ^[1]	4.7 ^[1]
	Justified grant applications	15.5	22.8 ^[2,3]	13.1 ^[1]	16.3 ^[1]
	Does not apply. We have not used NIOSH recommendations.	30.1	18.1 ^[2,3]	32.3 ^[1]	29.8 ^[1]
	Legitimately Skipped Question	11.7	6.3 [2]	13.6 [1]	11.1
115	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	29.3	32.1	28.4	29.6
	Personal protective equipment and clothing	41.6	51.7 ^[2,3]	39.8 ^[1]	41.8 ^[1]
	SCBA	40.1	51.6 ^[2,3]	38.5 [1]	39.9 ^[1]
	PASS systems	32.6	37.6	33.1	31.9
	Incident Command systems	32.1	39.4	31.4	31.9
	Radio communications	23.0	26.7	23.3	22.6
	Physical fitness and cardiovascular disease (CVD)	8.5	23.1 ^[2,3]	7.8 ^[1]	7.7 [1]
	Building code compliance (e.g., warning against the use of wooden trusses)	6.9	15.2 ^[2,3]	6.5 ^[1]	6.5 ^[1]
	Other	2.3	4.0	2.6	2.0
	Does not apply. We have not used NIOSH recommendations for training purposes.	1.9	2.3	1.1	2.3
	Legitimately Skipped Question	41.9	24.8 ^[2,3]	45.4 [1]	41.2 [1]

Exhibit B-5a.	Results from t	he Fire Department	: Survey, Percent	Estimates by	Department Type	(continued)
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Exhibit B-5a.	Results from the Fire	Department Survey,	Percent Estimates by	Department Type	(continued)
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		Department Type			
	Question	Total	All Career	All Volunteer	Combination
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		78.5	27.6 ^[2,3]	69.9 ^[1,3]	87.3 ^[1,2]
	Yes, it's required	7.0	36.6 [2,3]	11.1 ^[1,3]	2.4 ^[1,2]
No	Yes, it's optional	14.5	35.8 [2,3]	19.0 ^[1,3]	10.4 ^[1,2]
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	14.5	23.0 ^[3]	17.6 [3]	12.2 ^[1,2]
	Less frequently than once a year	7.1	11.8 ^[3]	7.9	6.3 ^[1]
	One time a year	17.1	48.7 [2,3]	17.6 [1]	14.4 ^[1]
	More than one time a year	0.3	2.5 [3]	0.2 [+]	0.1 [1,+]
	Does not apply. Firefighters are not required to receive CVD screenings	60.9	13.9 ^[2,3]	56.7 ^[1,3]	67.0 ^[1,2]
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	6.4	4.4	5.9	6.8
	Yes, they receive training required by the department	84.0	88.6 [3]	86.9 ^[3]	82.0 ^[1,2]
	Yes, they receive training required by the state	25.7	30.4	26.9	24.7
	Yes, they receive optional training	13.8	9.2 [2]	15.0 ^[1]	13.4
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	14.2	14.8	15.3	13.5
	Once every year	40.3	39.0	41.5	39.8
	Less frequently than once a year	24.8	31.7 ^[3]	24.8	24.2 [1]
	Does not apply. Firefighters are not required to receive continuing driver training.	20.7	14.5 ^[3]	18.4	22.5 ^[1]

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

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		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?					
		84.2	94.3 ^[2,3]	86.9 ^[1,3]	82.0 ^[1,2]	
	No	15.8	5.7 ^[2,3]	13.1 ^[1,3]	18.0 ^[1,2]	
17 5	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?					
	Strongly disagree	6.9	4.0 [3]	4.9 ^[3]	8.2 [1,2]	
	Disagree	18.0	21.0	17.0	18.3	
	Neither agree nor disagree	30.8	14.2 [2,3]	32.0 [1]	31.6 ^[1]	
	Agree	32.1	41.2 [2,3]	32.5 ^[1]	31.2 ^[1]	
	Strongly agree	12.2	19.7 ^[3]	13.6	10.8 [1]	
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
		5.4	2.4 [3]	3.5 ^[3]	6.7 ^[1,2]	
	Some of the time	22.7	15.9 ^[3]	19.1 ^[3]	25.2 ^[1,2]	
Neve	rAbout half the time	17.0	10.6 ^[2,3]	17.0 ^[1]	17.5 ^[1]	
	Most of the time	38.4	38.3	39.6	37.8	
		16.5	32.8 ^[2,3]	20.9 [1,3]	12.8 ^[1,2]	
21. Alwa	How often is Incident Command established when v_{ξ} esponding to structure fires?					
	5	2.3	0.6 [2,+]	3.1 ^[1]	2.0	
	Rarely	6.8	3.4 [3]	6.6	7.2 [1]	
NeverAbout half the time		6.7	2.6 [3]	5.8	7.5 ^[1]	
	Most of the time	27.6	14.4 [2,3]	25.6 [1]	29.8 [1]	
	Always	56.6	79.0 ^[2,3]	58.9 ^[1]	53.5 ^[1]	
		Department Type				
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	Question	Total	All Career	All Volunteer	Combination	
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.					
	Fires are not usually big enough to require an Incident Commander	22.5	10.2 [2,3]	23.6 [1]	22.9 ^[1]	
	Not enough firefighters available at the scene of the fire	21.2	7.6 ^[2,3]	19.2 ^[1]	23.3 ^[1]	
	Other	6.2	6.7	5.2	6.8	
	Does not apply. My department always assigns an Incident Commander for structure fires.	3.6	1.1 ^[3,+]	2.5	4.5 [1]	
	Legitimately Skipped Question	56.6	79.1 ^[2,3]	59.0 ^[1]	53.5 ^[1]	
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.					
	Conduct an initial assessment before the other firefighters begin entering the building	91.0	87.0 ^[3]	88.5	92.6 [1]	
	Develop and coordinate the fire attack strategy	93.1	97.4 ^[3]	94.2	92.1 ^[1]	
	Develop and initiate a risk management plan	52.3	65.4 ^[2,3]	54.4 ^[1]	50.1 ^[1]	
	Document all assessments, plans and events related to the fire	38.8	40.3	36.5	39.9	
	Ensure that at least four (4) firefighters are on the scene before entering the building	68.6	78.3 ^[2,3]	70.7 ^[1]	66.6 ^[1]	
	Establish a collapse zone around the building	49.1	57.2 [2]	46.9 [1]	49.6	
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	48.5	79.9 ^[2,3]	51.8 ^[1,3]	44.2 ^[1,2]	
	Identify and implement a communication strategy	64.7	65.4	65.9	64.1	
	Monitor location of all firefighters at the scene	76.2	83.5 ^[3]	77.8	74.8 [1]	
	Other	9.1	11.9	7.2	9.9	
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?					
	Never	13.3	11.8	13.1	13.6	
	Some of the time	26.5	27.5	26.6	26.4	
	About half the time	8.1	6.3	8.3	8.1	
	Most of the time	29.8	27.6	30.8	29.4	
		22.3	26.7	21.2	22.5	

		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.					
	Fires are not big enough to require an Incident Safety Officer	32.3	26.2	33.1	32.3	
	Not enough firefighters are available at the scene of the fire	51.7	35.3 ^[2,3]	54.2 ^[1]	51.6 ^[1]	
	Other	13.1	29.8 [2,3]	14.6 ^[1]	10.9 ^[1]	
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	2.1	2.5	0.8 [3,+]	2.7 ^[2]	
	Legitimately Skipped Question	22.6	26.7	21.8	22.8	
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?					
	Never	29.4	10.1 ^[2,3]	29.4 ^[1]	30.9 [1]	
	Some of the time	21.8	12.4 ^[2,3]	19.6 ^[1]	23.8 [1]	
	About half the time	6.5	3.9	6.3	6.7	
	Most of the time	22.5	28.4 [3]	23.6	21.5 ^[1]	
	Always	19.9	45.3 [2,3]	21.0 ^[1]	17.2 [1]	
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.					
	When the building has more than one story/floor	9.3	8.9	10.2	8.9	
	When there are enough firefighters on and at the scene of the fire	32.3	26.9	33.5	32.1	
	Whenever firefighters enter a burning building	26.4	20.9 [3]	24.6	27.9 ^[1]	
	Other	4.9	8.6	4.7	4.8	
	Legitimately Skipped Question	49.3	55.0	50.9	47.9	

			Departr	nent Type	
	Question	Total	All Career	All Volunteer	Combination
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	34.9	29.3 [2]	38.0 [1]	33.6
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	8.8	0.1 ^[2,3,+]	8.2 ^[1]	9.9 ^[1]
	We don't have enough firefighters available at the scene of the fire	53.5	33.3 ^[2,3]	53.3 ^[1]	55.3 ^[1]
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	20.7	8.3 [2,3]	18.1 ^[1]	23.1 [1]
	We have never established an RIT/RIC	17.7	4.6 [2,3]	14.8 ^[1,3]	20.3 ^[1,2]
	We use other fire departments in the area for RITs/RICs	29.2	12.4 [2,3]	24.7 ^[1,3]	33.1 ^[1,2]
	We use other safety practices and so we don't need them	4.2	1.8 ^[2,+]	5.9 ^[1]	3.5
		4.1	6.4	2.8	4.6
	Legitimately Skipped Question	20.3	45.4 [2,3]	21.5 ^[1]	17.5 ^[1]
29 ne	F Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?		(0.0)		
		78.8	97.5 ^[2,3]	77.0 ^[1]	78.2 [1]
	No	21.2	2.5 [2,3,+]	23.0 [1]	21.8 [1]
30 5	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		6.3	1.5 ^[2,3,+]	8.8 [1]	5.2 ^[1]
	Some of the time	3.9	0.8 [3,+]	3.1	4.6 [1]
Neve	erAbout half the time	1.8	0.2 [3,+]	1.7	2.0 ^[1]
	Most of the time	12.8	5.8 ^[3]	10.5	14.7 ^[1]
	Always	75.2	91.8 ^[2,3]	75.9 ^[1]	73.4 ^[1]

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	13.1	1.7 [2,3,+]	16.0 ^[1]	12.5 ^[1]
	Situation doesn't require them	9.5	2.0 [2,3,+]	7.1 ^[1,3]	11.4 ^[1,2]
	Firefighters think the devices do not always work reliably	0.3	0.7 [+]	0.6 [+]	0.1 [+]
	Firefighters don't think they need them	4.6	1.4 [3,+]	2.3 ^[3]	6.1 ^[1,2]
	Devices go off while firefighters are resting	3.7	2.8	2.0 ^[3]	4.6 [2]
	Legitimately Skipped Question	75.5	92.8 ^[2,3]	76.2 ^[1]	73.8 ^[1]
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		99.2	97.7	99.2	99.4
		0.8	2.3 [+]	0.8 [+]	0.6
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		49.7	8.4 [2,3]	50.6 ^[1]	52.4 ^[1]
	No	49.5	89.1 ^[2,3]	48.5 ^[1]	47.0 [1]
Yes	Legitimately Skipped Question	0.8	2.5 [+]	0.9 [+]	0.7
33a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	4.8	** [2,3]	5.6 ^[1]	4.6 [1]
	Firefighters don't like using the equipment	0.3	* *	* *	0.4 [+]
	Have never needed them (e.g., we don't do interior attacks)	0.7	** [3]	0.7 [+]	0.7 ^[1]
	They cost too much, there is not enough money in the budget	31.8	5.7 ^[2,3]	31.8 ^[1]	33.7 ^[1]
	We don't have enough equipment for all of our firefighters	24.6	1.8 ^[2,3,+]	24.8 [1]	26.2 [1]
	Shared systems work fine for our needs	23.4	4.2 ^[2,3]	24.3 ^[1]	24.5 ^[1]
	Other	5.0	1.7 [2,3,+]	5.0 ^[1]	5.2 ^[1]
	Legitimately Skipped Question	50.3	91.6 ^[2,3]	49.3 ^[1]	47.7 [1]
					(continued)

Appendix B — Post-Data Collection Methodology and Analysis Tables

Exhibit B-5a.	Results from the F	ire Department Surve	y, Percent Estimates by	Department Type	(continued)
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		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?					
	Never	1.1	** [2]	2.5 ^[1,3]	0.5 [2,+]	
	Some of the time	4.7	** [2,3]	3.2 [1]	5.9 ^[1]	
	About half the time	2.7	1.5 [+]	1.9	3.2	
	Most of the time	24.5	12.7 ^[2,3]	23.1 ^[1]	26.2 ^[1]	
	Always	66.1	83.3 ^[2,3]	68.4 ^[1]	63.6 ^[1]	
	Legitimately Skipped Question	0.8	2.5 [+]	0.8 [+]	0.6	
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.					
	Situation doesn't require them	25.9	8.2 [2,3]	23.8 ^[1]	28.4 ^[1]	
	Firefighters do not trust that the SCBAs will work reliably	* *	* *	* *	0.1 [+]	
	Firefighters don't think they need them	10.3	7.6	7.4 [3]	12.1 ^[2]	
	Firefighters don't like sharing facepieces with others	1.0	* * [3]	0.5 [+]	1.3 ^[1]	
	Firefighters are concerned that the SCBA may be or become contaminated	* *	* *	* *	0.1 [+]	
	Wearing SCBAs makes it more difficult to work	5.9	4.6	4.2	6.9	
	Firefighters don't have SCBAs to use	3.9	** [2,3]	3.1 ^[1]	4.6 [1]	
	Legitimately Skipped Question	67.8	85.8 [2,3]	70.7 ^[1]	64.8 ^[1]	
36.	How often is routine maintenance performed on your SCBAs?					
	After every time they are used	43.0	50.0 ^[3]	47.0	40.2 [1]	
	Once a month or more	19.0	12.0 ^[3]	16.7	20.8 [1]	
	Several times a year	15.0	17.3	15.1	14.8	
	Once a year	16.4	16.4	14.8	17.4	
	Less than once a year	4.3	1.3 ^[3,+]	3.7	4.9 ^[1]	
	Never. Maintenance has not been done on our SCBAs.	1.4	0.2 ^[3,+]	1.8	1.2 [1]	
	Does not apply. My department does not have SCBAs.	* *	* *	**	* *	
	Legitimately Skipped Question	1.0	2.8 [+]	1.0 [+]	0.8	

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	17.5	43.7 ^[2,3]	20.1 [1,3]	14.0 ^[1,2]
	Zero	82.5	56.3 [2,3]	79.9 ^[1,3]	86.0 ^[1,2]
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	20.9	10.5 ^[2,3]	18.1 ^[1]	23.4 ^[1]
	We didn't know they were available	15.1	9.6 [3]	15.0	15.5 ^[1]
	We don't have adequate technical information to purchase them	19.7	7.8 ^[2,3]	20.1 ^[1]	20.4 ^[1]
	We don't have adequate funding to purchase them	60.3	37.0 ^[2,3]	58.0 ^[1]	63.5 ^[1]
	Other	4.9	8.3	5.0	4.6
	Legitimately Skipped Question	18.3	44.7 ^[2,3]	20.5 ^[1,3]	14.8 [1,2]
38.	Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	77.4	92.2 ^[2,3]	76.9 ^[1]	76.6 [1]
	No	22.6	7.8 ^[2,3]	23.1 ^[1]	23.4 [1]
38a.	At your fire department, where do you have AEDs?				
	At the fire station(s)	2.8	0.4 [2,3,+]	3.1 ^[1]	2.8 [1]
	On the emergency vehicles (or apparatus)	62.0	77.0 ^[2,3]	60.5 ^[1]	61.7 ^[1]
	Both at the fire station(s) and on the vehicles (or apparatus)	10.4	13.2	11.0	9.8
	Legitimately Skipped Question	24.9	9.4 [2,3]	25.4 ^[1]	25.7 ^[1]
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	13.9	23.8 ^[2,3]	16.7 ^[1]	11.4 ^[1]
	Once a month or more	25.4	25.5	26.5	24.9
	Several times a year	20.6	17.3 ^[3]	14.6 [3]	24.1 ^[1,2]
	Once a year	22.3	24.9	26.7 [3]	19.7 ^[2]
	Less frequently than once a year	7.4	5.8	5.2	8.8
	Never. Maintenance on our AEDs has not been done.	10.4	2.7 ^[2,3]	10.3 ^[1]	11.1 ^[1]

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			Departm	ent Type	
	Question	Total	All Career	All Volunteer	Combination
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
		1.6	0.2 [3,+]	1.2 [+]	2.0 ^[1]
	Some of the time	4.7	0.2 [2,3,+]	2.2 ^[1,3]	6.4 [1,2]
Neve	rAbout half the time	2.6	1.5 [+]	1.7	3.2
	Most of the time	20.6	6.6 [2,3]	16.2 ^[1,3]	24.2 [1,2]
	Always	70.4	91.6 ^[2,3]	78.7 ^[1,3]	64.1 ^[1,2]
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		18.0	15.4	18.9	17.8
	Some of the time	64.5	74.4 ^[2,3]	65.4 ^[1]	63.2 ^[1]
Neve	rAbout half the time	10.3	5.6 ^[3]	9.3	11.2 [1]
	Most of the time	5.4	4.1	5.4	5.5
		1.8	0.4 [3,+]	1.1 [+]	2.3 [1]
42. Alwa	How would you rate your department's budget in the $y \mbox{\$ following areas?}$				
42a.	Equipment				
	Not adequate	48.6	35.3 [2,3]	46.4 ^[1]	50.9 ^[1]
	Adequate	45.7	58.2 ^[2,3]	46.8 ^[1]	44.1 ^[1]
	More than adequate	5.7	6.5	6.8	5.0

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
42b.	Training				
	Not adequate	39.1	43.6	40.2	38.2
	Adequate	55.6	50.8	53.6	57.1
	More than adequate	5.2	5.6	6.3	4.6
42c.	Personnel				
	Not adequate	51.5	58.5 ^[3]	53.6	49.8 ^[1]
	Adequate	44.3	38.0 [3]	42.1	46.0 ^[1]
	More than adequate	4.2	3.6	4.3	4.2
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		26.8	15.9 ^[2,3]	23.5 ^[1,3]	29 .4 ^[1,2]
	One or two times per year	34.3	33.1	34.8	34.2
Neve	rSeveral times per year	33.2	39.9 ^[3]	34.9	31.7 ^[1]
	Once a month or more	5.7	11.2 [3]	6.9	4.6 [1]
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	56.0	52.1	54.8	57.0
	On the Internet	24.7	48.4 [2,3]	27.8 ^[1,3]	21.0 ^[1,2]
	From colleagues in other departments	10.0	13.1 ^[3]	13.0 ^[3]	8.0 ^[1,2]
	At conferences or other meetings	6.9	17.8 ^[2,3]	8.4 [1,3]	5.2 ^[1,2]
	Legitimately Skipped Question	26.8	15.8 ^[2,3]	23.4 ^[1,3]	29.5 ^[1,2]
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	53.3	69.2 [2,3]	56.5 ^[1]	50.3 ^[1]
	No	20.0	14.9	20.4	20.2
	Leaitimately Skinned Ouestion	26.6	15 8 ^[2,3]	23 1 ^[1,3]	29 5 ^[1,2]

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			Dementer		
			Departm	пепт Туре	1
	Question	Total	All Career	All Volunteer	Combination
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		60.7	72.0 ^[2,3]	63.2 ^[1]	58.4 ^[1]
	No	12.1	12.2	13.1	11.5
Yes	Legitimately Skipped Question	27.3	15.8 ^[2,3]	23.7 ^[1,3]	30.2 [1,2]
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	23.5	22.8	23.1	23.8
	Training sessions	44.2	48.2	46.3	42.7
	Provide copies of NIOSH reports to firefighters	16.2	31.8 ^[2,3]	20.8 [1,3]	12.4 ^[1,2]
	Provide copies of NIOSH report summaries to firefighters	6.2	11.4 ^[3]	7.9 ^[3]	4.8 [1,2]
	Provide summaries prepared by department to firefighters	1.8	4.4 [2,3]	1.5 ^[1]	1.8 ^[1]
	Postings on bulletin boards	38.5	39.1	37.4	39.0
	Post report on the department website	1.1	3.1 ^[3]	1.4	0.8 [1]
	Send message to firefighters by email	5.3	23.5 ^[2,3]	8.0 ^[1,3]	2.4 [1,2]
	Other	1.3	2.9 ^[2]	0.6 [1]	1.5
	Legitimately Skipped Question	39.1	28.8 [3]	36.6	41.3 [1]
51.	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		34.2	62.8 [2,3]	36.5 ^[1,3]	30.7 ^[1,2]
	No	38.4	20.9 [2,3]	39.6 [1]	39.1 ^[1]
Yes	Legitimately Skipped Question	27.4	16.3 ^[2,3]	23.9 ^[1,3]	30.2 [1,2]

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	0.5	1.5 [+]	0.9 [+]	0.2 [+]
	Disagree	3.6	2.5	3.2	3.8
	Neither Agree nor Disagree	18.7	14.6	17.4	19.7
	Agree	45.6	59.8 ^[2,3]	49.6 ^[1,3]	42.3 [1,2]
	Strongly Agree	3.7	5.6	4.3	3.2
	Legitimately Skipped Question	28.0	16.0 ^[2,3]	24.6 [1,3]	30.8 [1,2]
52b.	Recommendations are easy to understand				
	Strongly Disagree	0.4	0.2 [+]	1.0 [+]	0.1 [+]
	Disagree	1.7	1.4	1.5	1.8
	Neither Agree nor Disagree	19.8	11.7 ^[2,3]	18.3 ^[1]	21.3 [1]
	Agree	45.4	63.7 ^[2,3]	49.4 ^[1,3]	41.7 ^[1,2]
	Strongly Agree	4.6	6.9	5.0	4.2
	Legitimately Skipped Question	28.1	16.1 ^[2,3]	24.7 ^[1,3]	30.9 [1,2]
52c.	Recommendations are specific and concrete				
	Strongly Disagree	0.4	1.4 [+]	0.8 [+]	0.1 [+]
	Disagree	3.2	2.7	3.0	3.4
	Neither Agree nor Disagree	26.6	22.8	27.9	26.2
	Agree	37.9	50.3 [2,3]	40.3 [1]	35.6 [1]
	Strongly Agree	3.8	6.7	3.3	3.9
	Legitimately Skipped Question	28.0	16.1 ^[2,3]	24.7 ^[1,3]	30.8 [1,2]

			<u> </u>		
			Departn	nent Type	1
	Question	Total	All Career	All Volunteer	Combination
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	57.4	77.1 ^[2,3]	59.0 ^[1]	54.9 ^[1]
	Respirator maintenance program guide	13.8	20.1 [2]	11.3 ^[1]	14.6
	CDs of firefighter program materials	28.0	34.5	27.5	27.7
	Alerts	31.7	49.4 [2,3]	32.1 ^[1]	30.0 [1]
	Hazard IDs	16.6	18.5	15.4	17.1
	Workplace Solutions	12.5	13.6	13.0	12.1
		0.8	0.7	0.6 [+]	0.9
	None. I have not seen any NIOSH materials.	25.2	14.1 ^[2,3]	25.0 ^[1]	26.2 [1]
53 a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1.3	2.7	1.1 [+]	1.4
	Dissatisfied	0.2	* *	** [+]	0.3 [+]
	Neither satisfied nor dissatisfied	21.2	11.4 [2,3]	18.1 ^[1,3]	23.7 ^[1,2]
	Satisfied	47.1	59.0 ^[2,3]	50.2 ^[1]	44.4 ^[1]
	Very satisfied	5.2	12.4 [2,3]	6.0 ^[1]	4.2 [1]
	Legitimately Skipped Question	24.9	14.4 [2,3]	24.6 [1]	26.0 ^[1]
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		59.4	27.0 ^[2,3]	56.6 ^[1,3]	63.5 [1,2]
	Yes, in the last year	34.5	64.0 ^[2,3]	37.0 ^[1,3]	30.7 ^[1,2]
No	Yes, longer than one year ago	6.1	9.0	6.3	5.7

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
1.	Does your department have a Safety Officer?				
		(67.5, 72.9)	(61.0, 74.2)	(63.6, 73.7)	(67.7, 74.5)
		(27.1, 32.5)	(25.8, 39.0)	(26.3, 36.4)	(25.5, 32.3)
2 es	Does your department have a Training Officer?				
No		(86.4, 90.3)	(82.3, 91.7)	(84.2, 91.6)	(86.0, 90.8)
		(9.7, 13.6)	(8.3, 17.7)	(8.4, 15.8)	(9.2, 14.0)
S7€S	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to				
NO	describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	(81.3, 85.8)	(85.4, 95.2)	(80.2, 88.5)	(79.4, 85.2)
	Maintenance of SCBAs	(66.9, 72.3)	(75.2, 86.3)	(67.5, 77.1)	(63.5, 70.6)
	Motor vehicle safety	(76.3, 81.2)	(77.2, 88.0)	(74.5, 83.4)	(74.9, 81.1)
	Participation in a personal physical fitness program	(9.6, 12.7)	(41.0, 54.6)	(11.3, 17.6)	(4.8, 8.4)
	Participation in regular health screenings for cardiovascular disease (CVD)	(14.9, 18.9)	(36.3, 49.8)	(14.4, 21.6)	(11.8, 17.0)
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	(37.7, 43.2)	(63.5, 76.6)	(40.8, 50.5)	(31.7, 38.7)
	Use of Personal Alert Safety System (PASS) devices	(72.7, 77.9)	(76.5, 87.9)	(69.5, 79.2)	(71.7, 78.3)
	Use of personal protective equipment and protective clothing	(87.1, 90.9)	(89.5, 96.8)	(85.2, 92.1)	(86.1, 90.9)
	Use of radio communications	(82.5, 86.8)	(82.5, 92.0)	(80.8, 88.4)	(81.5, 87.0)
		(7.2, 10.5)	(8.8, 17.5)	(7.6, 14.0)	(5.8, 9.7)
	Does not apply. Our fire department does not use SOPs/SOGs.	(3.8, 6.5)	(0.7, 6.8)	(3.4, 8.9)	(3.5, 6.8)

Other

			Department Type					
	Question	Total	All Career	All Volunteer	Combination			
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?							
4a.	Fighting structure fires							
	No Training	(0.6, 2.0)	(1.0, 8.9)	(0.4, 3.4)	(0.4, 2.1)			
	Optional Training	(14.6, 19.1)	(2.6, 9.1)	(12.0, 20.1)	(15.6, 21.4)			
	Required Training	(80.4, 85.0)	(88.0, 96.3)	(78.9, 87.2)	(78.5, 84.3)			
4b.	Driving safety							
	No Training	(2.9, 5.3)	(1.1, 5.7)	(2.3, 7.2)	(2.7, 5.7)			
	Optional Training	(16.3, 21.1)	(4.3, 11.7)	(13.4, 22.3)	(17.3, 23.3)			
	Required Training	(75.1, 80.1)	(86.2, 94.2)	(73.5, 82.9)	(72.8, 79.2)			
4c.	Incident Command systems							
	No Training	(2.0, 4.1)	(**, **)	(1.4, 5.6)	(2.1, 4.8)			
	Optional Training	(24.8, 30.2)	(3.2, 10.0)	(23.0, 32.8)	(25.7, 32.6)			
	Required Training	(67.1, 72.6)	(89.9, 96.7)	(64.6, 74.5)	(64.3, 71.4)			
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)							
	No Training	(5.2, 8.3)	(3.2, 10.1)	(4.7, 11.0)	(4.7, 8.4)			
	Optional Training	(30.8, 36.5)	(10.3, 20.8)	(26.7, 36.9)	(32.7, 39.9)			
	Required Training	(57.3, 63.1)	(73.2, 84.9)	(55.8, 66.3)	(54.5, 61.8)			
4e.	Rapid Intervention Teams (RITs)							
	No Training	(25.8, 31.3)	(7.1, 16.8)	(22.1, 32.0)	(27.5, 34.7)			
	Optional Training	(33.3, 39.2)	(10.1, 20.8)	(25.1, 35.3)	(37.7, 45.3)			
	Required Training	(32.8, 38.3)	(68.0, 80.7)	(38.3, 48.3)	(24.5, 31.5)			

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	(0.9, 2.4)	(1.4, 7.0)	(0.7, 3.8)	(0.6, 2.4)
	Optional Training	(8.2, 11.8)	(2.3, 7.9)	(7.9, 15.0)	(7.7, 12.2)
	Required Training	(86.9, 90.7)	(88.7, 95.8)	(83.2, 90.7)	(86.8, 91.5)
4g.	Use of radio communication devices				
	No Training	(1.9, 3.8)	(1.2, 6.4)	(1.7, 5.7)	(1.5, 3.9)
	Optional Training	(19.0, 23.9)	(5.9, 13.9)	(19.4, 28.7)	(18.2, 24.3)
	Required Training	(73.6, 78.6)	(83.6, 92.3)	(68.3, 78.0)	(73.4, 79.7)
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	(82.6, 86.9)	(82.6, 91.9)	(80.5, 88.7)	(81.6, 87.1)
	Other officers within our department	(80.4, 85.0)	(90.7, 96.9)	(75.9, 84.6)	(80.0, 85.7)
	State fire training agency	(74.8, 79.8)	(73.5, 83.4)	(70.7, 80.1)	(75.0, 81.2)
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	(18.9, 23.1)	(51.4, 64.8)	(21.9, 29.5)	(12.9, 18.3)
	Conferences or regional meetings	(48.8, 54.6)	(63.8, 76.6)	(49.0, 59.3)	(45.1, 52.6)
	Other	(22.7, 27.8)	(18.4, 30.0)	(18.4, 27.3)	(23.6, 30.2)
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	(52.4, 58.2)	(42.7, 56.3)	(46.0, 56.5)	(54.3, 61.7)
	Scuba diving	(6.2, 9.1)	(15.0, 25.7)	(4.8, 10.2)	(5.1, 8.8)
	Swift water rescue	(9.6, 13.0)	(24.8, 36.6)	(9.0, 14.6)	(7.5, 11.9)
	Wildland fire fighting	(44.1, 49.9)	(23.2, 34.8)	(43.6, 54.0)	(43.8, 51.2)
	HAZMAT	(63.8, 69.4)	(81.4, 90.8)	(60.3, 70.5)	(62.1, 69.1)
	Other	(28.5, 33.9)	(34.8, 47.8)	(25.6, 35.5)	(27.5, 34.4)

Exhibit B-5b. Results from the Fire Department Survey, Confidence Interval Estimates by Department Type (continued)

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			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	(6.8, 10.2)	(1.5, 7.4)	(4.2, 10.2)	(7.6, 12.1)
	Not very familiar	(21.8, 27.0)	(6.4, 16.2)	(19.6, 29.1)	(22.5, 29.0)
	Somewhat familiar	(55.2, 61.0)	(58.8, 71.3)	(52.4, 63.0)	(54.0, 61.4)
	Very familiar	(7.8, 10.9)	(16.9, 25.9)	(8.9, 14.8)	(5.4, 9.2)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	(18.4, 23.3)	(6.8, 15.8)	(15.7, 24.6)	(19.2, 25.4)
	Not very familiar	(30.8, 36.4)	(14.3, 25.0)	(29.4, 39.6)	(30.8, 37.9)
	Somewhat familiar	(35.1, 40.7)	(48.2, 61.3)	(31.0, 41.0)	(34.1, 41.4)
	Very familiar	(6.5, 9.4)	(12.1, 19.7)	(7.6, 13.3)	(4.4, 7.9)
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	(64.9, 70.5)	(65.7, 78.1)	(59.2, 69.5)	(65.6, 72.6)
	National conference presentations	(2.8, 4.7)	(10.5, 19.1)	(3.7, 7.5)	(1.1, 3.2)
	State-level conference presentations	(9.7, 13.5)	(12.9, 22.1)	(10.3, 17.8)	(7.8, 12.3)
	Other firefighters or departments	(20.5, 25.5)	(20.6, 31.5)	(19.3, 28.5)	(19.3, 25.6)
	At seminars or other training opportunities (not conferences)	(14.3, 18.6)	(18.5, 29.3)	(11.9, 19.2)	(13.8, 19.4)
	Trade publications (such as Firehouse and Fire Engineering)	(44.3, 50.1)	(53.7, 66.6)	(47.3, 57.8)	(39.4, 46.9)
	NIOSH website	(22.0, 26.7)	(48.5, 61.7)	(22.2, 30.6)	(17.8, 23.9)
	Links from other websites (such as NFPA and Firehouse)	(25.7, 30.9)	(36.8, 50.0)	(22.2, 31.2)	(24.7, 31.4)
	Media reports—newspaper, television, radio	(12.9, 17.1)	(12.2, 21.8)	(11.2, 18.9)	(12.4, 17.8)
		(0.7, 1.9)	(1.2, 7.3)	(0.4, 2.2)	(0.5, 2.2)
Othe	Does not apply. We have not received information about NIOSH recommendations.	(9.3, 13.2)	(3.2, 11.9)	(9.6, 17.5)	(8.3, 13.0)

		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.					
	Made changes to training program	(37.3, 43.1)	(47.6, 60.6)	(33.6, 43.4)	(36.3, 43.9)	
	Developed new SOPs/SOGs	(23.8, 29.0)	(31.9, 44.9)	(23.8, 33.1)	(21.1, 27.8)	
	Made changes to SOPs/SOGs	(32.2, 37.7)	(44.6, 58.1)	(29.2, 38.4)	(30.7, 37.9)	
	Justified current budget/staffing	(4.0, 6.3)	(10.6, 20.2)	(4.3, 8.8)	(2.4, 5.3)	
	Made new budget/staffing requests	(4.4, 6.8)	(10.7, 20.1)	(3.7, 7.8)	(3.4, 6.6)	
	Justified grant applications	(13.5, 17.8)	(17.6, 28.8)	(10.0, 16.9)	(13.6, 19.4)	
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(13.6, 23.7)	(27.3, 37.6)	(26.4, 33.5)	
	Legitimately Skipped Question	(9.8, 13.9)	(3.2, 12.0)	(10.1, 18.2)	(8.9, 13.8)	
110.	have used for training purposes? If so, MARK ALL THAT APPLY.					
	Traffic hazards	(26.7, 32.1)	(26.1, 38.7)	(24.0, 33.4)	(26.1, 33.2)	
	Personal protective equipment and clothing	(38.7, 44.5) (37.2, 43.0)	(45.2, 58.2) (44.7, 58.4)	(34.9, 45.0) (33.7, 43.6)	(38.0, 45.6) (36.2, 43.8)	
	PASS systems	(29.9, 35.5)	(31.3, 44.2)	(28.4, 38.2)	(28.4, 35.6)	
SCBA	Incident Command systems	(29.4, 34.9)	(33.0, 46.3)	(26.8, 36.4)	(28.4, 35.6)	
	Radio communications	(20.7, 25.6)	(21.5, 32.7)	(19.3, 27.9)	(19.5, 26.0)	
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(17.9, 29.4)	(5.7, 10.6)	(5.9, 10.0)	
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(11.0, 20.6)	(4.4, 9.5)	(4.8, 8.6)	
		(1.6, 3.4)	(2.0, 7.8)	(1.4, 4.8)	(1.2, 3.5)	
Othe	Does not apply. We have not used NIOSH recommendations for r training purposes.	(1.3, 2.9)	(1.0, 5.3)	(0.5, 2.6)	(1.4, 3.9)	
	Legitimately Skipped Question	(38.9, 44.8)	(19.3, 31.3)	(40.3, 50.7)	(37.5, 45.1)	

Exhibit B-5b. Results from the Fire Department Survey, Confidence Interval Estimates by Dep	partment Type ((continued)
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		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?					
		(76.4, 80.4)	(21.9, 34.1)	(65.8, 73.7)	(84.7, 89.5)	
	Yes, it's required	(5.9, 8.3)	(30.1, 43.7)	(8.5, 14.3)	(1.5, 3.7)	
No	Yes, it's optional	(12.8, 16.4)	(29.9, 42.2)	(15.8, 22.7)	(8.3, 12.8)	
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?					
	One time, when they first join the department	(12.7, 16.6)	(17.7, 29.4)	(14.2, 21.5)	(10.0, 14.8)	
	Less frequently than once a year	(5.8, 8.6)	(8.2, 16.8)	(5.7, 10.9)	(4.7, 8.3)	
	One time a year	(15.2, 19.3)	(42.1, 55.3)	(14.2, 21.5)	(12.0, 17.2)	
	More than one time a year	(0.1, 0.7)	(1.0, 6.2)	(0.1, 1.1)	(0.0, 1.0)	
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(10.0, 19.0)	(52.1, 61.2)	(63.4, 70.3)	
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.					
	No	(5.1, 8.0)	(2.3, 8.4)	(3.8, 9.1)	(5.1, 8.9)	
	Yes, they receive training required by the department	(81.7, 86.0)	(83.2, 92.4)	(82.8, 90.2)	(79.0, 84.7)	
	Yes, they receive training required by the state	(23.3, 28.3)	(24.5, 36.9)	(22.7, 31.7)	(21.6, 28.1)	
	Yes, they receive optional training	(11.8, 15.9)	(6.2, 13.6)	(11.5, 19.4)	(11.1, 16.2)	
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?					
	Two or more times a year	(12.2, 16.4)	(10.7, 20.2)	(11.7, 19.7)	(11.1, 16.3)	
	Once every year	(37.5, 43.2)	(32.6, 45.8)	(36.4, 46.8)	(36.2, 43.5)	
	Less frequently than once a year	(22.3, 27.3)	(25.6, 38.4)	(20.6, 29.6)	(21.1, 27.5)	
	Does not apply. Firefighters are not required to receive continuing driver training.	(18.4, 23.2)	(10.4, 19.7)	(14.5, 23.1)	(19.5, 25.8)	

		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?					
		(81.9, 86.3)	(89.8, 96.9)	(82.7, 90.2)	(78.9, 84.7)	
		(13.7, 18.1)	(3.1, 10.2)	(9.8, 17.3)	(15.3, 21.1)	
177 5 No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?					
	Strongly disagree	(5.5, 8.5)	(2.1, 7.4)	(3.1, 7.7)	(6.3, 10.5)	
	Disagree	(15.8, 20.4)	(15.9, 27.1)	(13.3, 21.6)	(15.5, 21.4)	
	Neither agree nor disagree	(28.2, 33.7)	(10.2, 19.5)	(27.1, 37.3)	(28.2, 35.2)	
	Agree	(29.5, 34.9)	(34.7, 48.0)	(27.8, 37.7)	(27.8, 34.8)	
	Strongly agree	(10.4, 14.2)	(14.8, 25.6)	(10.4, 17.5)	(8.7, 13.3)	
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
		(4.2, 6.9)	(0.9, 6.2)	(1.9, 6.3)	(5.0, 8.8)	
	Some of the time	(20.3, 25.3)	(11.9, 21.0)	(15.1, 23.8)	(22.1, 28.6)	
Neve	rAbout half the time	(14.8, 19.4)	(7.3, 15.2)	(13.2, 21.6)	(14.8, 20.5)	
	Most of the time	(35.6, 41.3)	(32.3, 44.6)	(34.4, 44.9)	(34.2, 41.5)	
	Always	(14.6, 18.7)	(26.9, 39.4)	(17.1, 25.2)	(10.5, 15.5)	
21.	How often is Incident Command established when responding to structure fires?					
		(1.5, 3.5)	(0.1, 4.3)	(1.5, 6.1)	(1.2, 3.4)	
	Rarely	(5.4, 8.5)	(1.6, 7.2)	(4.2, 10.0)	(5.5, 9.4)	
Neve	rAbout half the time	(5.3, 8.4)	(1.0, 6.2)	(3.7, 9.1)	(5.7, 9.8)	
	Most of the time	(25.0, 30.4)	(10.1, 20.2)	(21.1, 30.7)	(26.5, 33.3)	
	Always	(53.7, 59.4)	(72.6, 84.2)	(53.7, 64.0)	(49.8, 57.2)	

Exhibit B-5b. Res	sults from the Fire De	partment Survey,	Confidence Interval	Estimates by De	partment Type	(continued)

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	(20.1, 25.1)	(6.6, 15.2)	(19.2, 28.6)	(20.0, 26.2)
	Not enough firefighters available at the scene of the fire	(18.8, 23.7)	(4.4, 12.9)	(15.2, 24.0)	(20.3, 26.7)
		(5.0, 7.8)	(4.0, 11.2)	(3.3, 8.2)	(5.1, 8.9)
Othe	Does not apply. My department always assigns an Incident r Commander for structure fires.	(2.7, 4.9)	(0.3, 3.7)	(1.3, 4.9)	(3.1, 6.3)
ouno	Legitimately Skipped Question	(53.7, 59.5)	(72.7, 84.3)	(53.8, 64.1)	(49.8, 57.2)
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	(89.1, 92.6)	(81.2, 91.2)	(84.3, 91.7)	(90.4, 94.3)
	Develop and coordinate the fire attack strategy	(91.4, 94.5)	(91.5, 99.2)	(90.8, 96.4)	(89.8, 93.9)
	Develop and initiate a risk management plan	(49.4, 55.3)	(58.5, 71.7)	(49.0, 59.7)	(46.4, 53.9)
	Document all assessments, plans and events related to the fire	(36.0, 41.7)	(34.0, 46.9)	(31.6, 41.7)	(36.3, 43.6)
	Ensure that at least four (4) firefighters are on the scene before entering the building	(65.7, 71.3)	(72.1, 83.5)	(65.5, 75.5)	(62.9, 70.1)
	Establish a collapse zone around the building	(46.1, 52.0)	(50.3, 63.9)	(41.6, 52.3)	(45.8, 53.3)
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	(45.7, 51.3)	(73.6, 85.0)	(46.7, 56.8)	(40.6, 47.9)
	Identify and implement a communication strategy	(61.9, 67.5)	(58.5, 71.7)	(60.6, 70.8)	(60.4, 67.6)
	Monitor location of all firefighters at the scene	(73.6, 78.7)	(77.1, 88.4)	(72.8, 82.1)	(71.4, 78.0)
		(7.6, 10.9)	(7.9, 17.5)	(4.8, 10.6)	(7.9, 12.3)
24. Othe	About how often does an Incident Commander assign an $_{\rm r}$ Incident Safety Officer when responding to structure fires?				
	Never	(11.4, 15.5)	(7.9, 17.3)	(9.7, 17.4)	(11.2, 16.3)
	Some of the time	(24.0, 29.2)	(22.3, 33.5)	(22.1, 31.6)	(23.2, 29.8)
	About half the time	(6.6, 9.9)	(3.8, 10.3)	(5.8, 11.7)	(6.3, 10.4)
	Most of the time	(27.2, 32.5)	(22.3, 33.7)	(26.2, 35.8)	(26.1, 32.9)
	Always	(19.9, 24.9)	(21.4, 32.7)	(17.1, 26.1)	(19.5, 25.8)

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	(29.5, 35.1)	(20.9, 32.2)	(28.1, 38.5)	(28.9, 36.0)
	Not enough firefighters are available at the scene of the fire	(48.7, 54.6)	(29.1, 42.0)	(48.8, 59.6)	(47.9, 55.4)
	Other	(11.3, 15.1)	(24.1, 36.2)	(11.4, 18.6)	(8.8, 13.5)
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	(1.4, 3.0)	(1.1, 5.9)	(0.3, 2.1)	(1.7, 4.2)
	Legitimately Skipped Question	(20.3, 25.2)	(21.5, 32.7)	(17.5, 26.7)	(19.8, 26.1)
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	(26.7, 32.1)	(6.4, 15.7)	(24.8, 34.5)	(27.5, 34.4)
	Some of the time	(19.5, 24.3)	(8.6, 17.5)	(15.7, 24.2)	(20.7, 27.1)
	About half the time	(5.2, 8.0)	(1.9, 7.9)	(4.3, 9.3)	(5.1, 8.9)
	Most of the time	(20.2, 25.0)	(22.9, 34.5)	(19.5, 28.3)	(18.5, 24.7)
	Always	(17.8, 22.1)	(39.2, 51.4)	(17.3, 25.3)	(14.6, 20.1)
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	(7.8, 11.2)	(5.8, 13.6)	(7.4, 13.7)	(7.0, 11.3)
	When there are enough firefighters on and at the scene of the fire	(29.6, 35.1)	(21.4, 33.2)	(28.7, 38.6)	(28.7, 35.7)
	Whenever firefighters enter a burning building	(23.9, 29.1)	(15.9, 26.8)	(20.2, 29.5)	(24.6, 31.4)
		(3.8, 6.3)	(5.5, 13.2)	(2.9, 7.4)	(3.4, 6.6)
	Legitimately Skipped Question	(46.4, 52.2)	(48.6, 61.3)	(45.6, 56.2)	(44.2, 51.7)

	Describe from the Circ De		C	Internal Catherates I		-	(h a
EXHIDIT B-5D.	Results from the Fire De	partment Survey, v	Confidence I	Interval Estimates d	y Department	уре	(continuea)

Other

			Departr	nent Type	
	Question	Total	All Career	All Volunteer	Combination
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	(32.1, 37.8)	(23.5, 35.8)	(32.9, 43.5)	(30.1, 37.3)
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	(7.2, 10.8)	(0.0, 0.8)	(5.5, 12.0)	(7.8, 12.4)
	We don't have enough firefighters available at the scene of the fire	(50.6, 56.5)	(27.4, 39.8)	(48.0, 58.6)	(51.5, 59.0)
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	(18.3, 23.2)	(5.3, 12.8)	(14.2, 22.9)	(20.1, 26.4)
	We have never established an RIT/RIC	(15.5, 20.1)	(2.5, 8.5)	(11.1, 19.3)	(17.4, 23.5)
	We use other fire departments in the area for RITs/RICs	(26.6, 32.0)	(8.4, 18.0)	(20.2, 29.7)	(29.6, 36.8)
	We use other safety practices and so we don't need them	(3.1, 5.7)	(0.6, 5.2)	(3.6, 9.5)	(2.3, 5.2)
		(3.1, 5.4)	(3.5, 11.7)	(1.6, 4.8)	(3.2, 6.5)
	Legitimately Skipped Question	(18.1, 22.6)	(39.4, 51.6)	(17.7, 25.9)	(14.9, 20.5)
29 he	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		(76.2, 81.1)	(92.3, 99.2)	(72.0, 81.3)	(75.0, 81.2)
		(18.9, 23.8)	(0.8, 7.7)	(18.7, 28.0)	(18.8, 25.0)
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		(4.9, 8.0)	(0.2, 9.6)	(5.9, 12.9)	(3.8, 7.3)
	Some of the time	(2.9, 5.3)	(0.2, 3.7)	(1.6, 6.1)	(3.3, 6.5)
Neve	rAbout half the time	(1.2, 2.8)	(0.0, 1.3)	(0.7, 4.2)	(1.2, 3.3)
	Most of the time	(10.9, 15.0)	(3.3, 10.0)	(7.5, 14.4)	(12.2, 17.5)
	Always	(72.5, 77.6)	(86.2, 95.2)	(70.9, 80.3)	(70.0, 76.6)
					(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

			Departr	nent Type	
	Question	Total	All Career	All Volunteer	Combination
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	(11.2, 15.4)	(0.3, 9.1)	(12.2, 20.7)	(10.2, 15.2)
	Situation doesn't require them	(7.9, 11.4)	(0.7, 5.4)	(4.8, 10.5)	(9.2, 14.0)
	Firefighters think the devices do not always work reliably	(0.1, 1.0)	(0.1, 3.1)	(0.1, 2.7)	(0.0, 0.9)
	Firefighters don't think they need them	(3.5, 5.9)	(0.4, 4.7)	(1.3, 4.1)	(4.5, 8.1)
	Devices go off while firefighters are resting	(2.7, 4.9)	(1.2, 6.4)	(0.9, 4.2)	(3.3, 6.4)
	Legitimately Skipped Question	(72.9, 78.0)	(87.3, 96.0)	(71.2, 80.6)	(70.3, 76.9)
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		(98.4, 99.6)	(91.4, 99.4)	(96.7, 99.8)	(98.4, 99.8)
		(0.4, 1.6)	(0.6, 8.6)	(0.2, 3.3)	(0.2, 1.6)
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		(46.7, 52.7)	(5.2, 13.2)	(45.2, 56.0)	(48.6, 56.2)
		(46.5, 52.5)	(83.1, 93.2)	(43.2, 53.9)	(43.2, 50.8)
Yes	Legitimately Skipped Question	(0.4, 1.6)	(0.6, 9.3)	(0.2, 3.4)	(0.3, 1.7)
\$ 3a	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	(3.5, 6.3)	(**, **)	(3.4, 9.2)	(3.2, 6.6)
	Firefighters don't like using the equipment	(0.1, 0.9)	(**, **)	(**, **)	(0.1, 1.4)
	Have never needed them (e.g., we don't do interior attacks)	(0.3, 1.5)	(**, **)	(0.2, 2.8)	(0.3, 1.8)
	They cost too much, there is not enough money in the budget	(29.0, 34.7)	(3.2, 9.9)	(26.8, 37.3)	(30.2, 37.4)
	We don't have enough equipment for all of our firefighters	(22.0, 27.3)	(0.6, 5.1)	(20.3, 30.0)	(22.9, 29.7)
	Shared systems work fine for our needs	(20.9, 26.2)	(2.2, 7.8)	(19.7, 29.5)	(21.3, 27.9)
		(3.8, 6.5)	(0.5, 5.0)	(3.1, 7.9)	(3.8, 7.2)
	Legitimately Skipped Question	(47.4, 53.3)	(86.8, 94.8)	(43.9, 54.7)	(43.9, 51.6)

Exhibit B-5b. Results from the Fire Department Survey, Confidence Interval Estimates by Department Type (continued)

Other

3.9, 51.6) (continued)

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	(0.6, 2.2)	(**, **)	(1.2, 5.5)	(0.2, 1.5)
	Some of the time	(3.6, 6.2)	(**, **)	(1.6, 6.2)	(4.3, 8.0)
	About half the time	(1.8, 3.9)	(0.4, 5.4)	(0.8, 4.6)	(2.1, 4.8)
	Most of the time	(22.0, 27.2)	(8.5, 18.6)	(18.7, 28.1)	(23.0, 29.7)
	Always	(63.3, 68.9)	(76.6, 88.4)	(63.1, 73.3)	(59.9, 67.2)
	Legitimately Skipped Question	(0.4, 1.6)	(0.6, 9.4)	(0.2, 3.4)	(0.2, 1.7)
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	(23.3, 28.6)	(5.1, 12.9)	(19.3, 28.9)	(25.0, 31.9)
	Firefighters do not trust that the SCBAs will work reliably	(**, **)	(**, **)	(**, **)	(0.0, 1.0)
	Firefighters don't think they need them	(8.6, 12.3)	(4.4, 12.8)	(4.9, 11.0)	(9.8, 14.9)
	Firefighters don't like sharing facepieces with others	(0.5, 1.8)	(**, **)	(0.1, 3.0)	(0.7, 2.4)
	Firefighters are concerned that the SCBA may be or become contaminated	(**, **)	(**, **)	(**, **)	(0.0, 0.9)
	Wearing SCBAs makes it more difficult to work	(4.6, 7.5)	(2.4, 8.7)	(2.5, 7.0)	(5.2, 9.1)
	Firefighters don't have SCBAs to use	(2.8, 5.4)	(**, **)	(1.5, 6.3)	(3.3, 6.5)
	Legitimately Skipped Question	(64.9, 70.5)	(79.6, 90.3)	(65.4, 75.5)	(61.1, 68.4)
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	(39.7, 46.3)	(43.0, 57.1)	(41.0, 53.0)	(36.1, 44.4)
	Once a month or more	(16.5, 21.7)	(7.9, 17.8)	(12.7, 21.7)	(17.6, 24.4)
	Several times a year	(12.8, 17.5)	(12.4, 23.5)	(11.3, 19.9)	(12.0, 18.1)
	Once a year	(14.1, 19.1)	(12.3, 21.5)	(10.9, 19.7)	(14.4, 20.9)
	Less than once a year	(3.1, 5.9)	(0.4, 4.1)	(2.0, 6.7)	(3.3, 7.1)
	Never. Maintenance has not been done on our SCBAs.	(0.8, 2.5)	(0.0, 1.3)	(0.7, 4.5)	(0.6, 2.6)
	Does not apply. My department does not have SCBAs.	(**, **)	(**, **)	(**, **)	(**, **)
	Legitimately Skipped Question	(0.5, 2.0)	(0.7, 10.5)	(0.2, 4.1)	(0.3, 2.1)

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	(15.5, 19.8)	(36.9, 50.7)	(16.4, 24.4)	(11.6, 16.9)
		(80.2, 84.5)	(49.3, 63.1)	(75.6, 83.6)	(83.1, 88.4)
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	(18.5, 23.6)	(6.7, 16.2)	(14.0, 23.1)	(20.2, 26.9)
	We didn't know they were available	(12.9, 17.5)	(6.0, 14.8)	(11.3, 19.6)	(12.8, 18.7)
	We don't have adequate technical information to purchase them	(17.3, 22.3)	(4.8, 12.5)	(15.8, 25.2)	(17.4, 23.8)
	We don't have adequate funding to purchase them	(57.2, 63.2)	(30.5, 44.0)	(52.4, 63.4)	(59.6, 67.2)
		(3.7, 6.4)	(5.4, 12.6)	(3.0, 8.1)	(3.2, 6.6)
	Legitimately Skipped Question	(16.2, 20.6)	(37.8, 51.8)	(16.7, 24.8)	(12.2, 17.8)
38 ae	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	(74.8, 79.9)	(87.0, 95.4)	(71.9, 81.2)	(73.2, 79.6)
		(20.1, 25.2)	(4.6, 13.0)	(18.8, 28.1)	(20.4, 26.8)
38a.	At your fire department, where do you have AEDs?				
No	At the fire station(s)	(1.9, 4.1)	(0.1, 1.7)	(1.6, 5.7)	(1.8, 4.6)
	On the emergency vehicles (or apparatus)	(58.9, 64.9)	(70.1, 82.7)	(54.9, 65.9)	(57.8, 65.4)
	Both at the fire station(s) and on the vehicles (or apparatus)	(8.7, 12.3)	(9.1, 18.8)	(8.1, 14.7)	(7.7, 12.4)
	Legitimately Skipped Question	(22.2, 27.7)	(5.5, 15.4)	(20.8, 30.8)	(22.4, 29.3)
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	(11.7, 16.4)	(19.0, 29.5)	(12.6, 21.9)	(8.9, 14.6)
	Once a month or more	(22.6, 28.5)	(19.8, 32.1)	(21.3, 32.4)	(21.2, 28.9)
	Several times a year	(18.0, 23.4)	(12.6, 23.2)	(10.8, 19.5)	(20.5, 28.0)
	Once a year	(19.6, 25.3)	(19.0, 31.9)	(21.6, 32.6)	(16.5, 23.5)
	Less frequently than once a year	(5.8, 9.5)	(3.0, 11.1)	(2.9, 9.1)	(6.6, 11.6)
	Never. Maintenance on our AEDs has not been done.	(8.4, 12.8)	(1.1, 6.5)	(6.8, 15.2)	(8.6, 14.3)
					(continued)

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			Departr	nent Type	
	Question	Total	All Career	All Volunteer	Combination
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
		(1.0, 2.6)	(0.0, 1.2)	(0.4, 3.4)	(1.2, 3.4)
	Some of the time	(3.6, 6.1)	(0.0, 1.2)	(1.0, 4.6)	(4.8, 8.5)
Neve	erAbout half the time	(1.8, 3.8)	(0.5, 4.4)	(0.7, 4.1)	(2.1, 4.9)
	Most of the time	(18.3, 23.1)	(3.8, 11.1)	(12.6, 20.7)	(21.1, 27.5)
	Always	(67.7, 73.0)	(86.9, 94.7)	(73.9, 82.8)	(60.5, 67.7)
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		(15.9, 20.4)	(11.0, 21.2)	(15.0, 23.5)	(15.1, 20.8)
	Some of the time	(61.6, 67.3)	(67.9, 80.0)	(60.1, 70.4)	(59.5, 66.8)
Neve	erAbout half the time	(8.6, 12.2)	(3.2, 9.9)	(6.5, 13.0)	(9.0, 13.8)
	Most of the time	(4.2, 6.9)	(2.2, 7.4)	(3.3, 8.6)	(4.0, 7.5)
		(1.1, 2.9)	(0.1, 1.7)	(0.3, 3.5)	(1.4, 3.9)
42. Alwa	How would you rate your department's budget in the $y \mbox{\$ o}$ ollowing areas?				
42a.	Equipment				
	Not adequate	(45.7, 51.6)	(29.1, 42.1)	(41.1, 51.8)	(47.2, 54.6)
	Adequate	(42.8, 48.6)	(51.4, 64.8)	(41.5, 52.1)	(40.4, 47.8)
	More than adequate	(4.5, 7.2)	(4.1, 10.1)	(4.7, 9.9)	(3.6, 6.9)
42b	. Training				
	Not adequate	(36.3, 42.0)	(37.3, 50.1)	(35.0, 45.5)	(34.6, 41.9)
	Adequate	(52.7, 58.6)	(44.2, 57.3)	(48.2, 58.9)	(53.4, 60.8)
	More than adequate	(4.0, 6.8)	(3.3, 9.5)	(4.0, 9.7)	(3.3, 6.5)

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
42c.	Personnel				
	Not adequate	(48.5, 54.5)	(51.9, 64.8)	(48.1, 59.0)	(45.9, 53.6)
	Adequate	(41.3, 47.3)	(31.8, 44.6)	(36.7, 47.6)	(42.2, 49.9)
	More than adequate	(3.1, 5.7)	(1.9, 6.6)	(2.4, 7.6)	(2.9, 6.0)
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		(24.2, 29.5)	(11.2, 22.0)	(19.1, 28.6)	(26.1, 33.0)
	One or two times per year	(31.6, 37.2)	(27.3, 39.5)	(29.9, 40.0)	(30.7, 37.8)
Neve	rSeveral times per year	(30.5, 35.9)	(33.5, 46.6)	(30.2, 39.9)	(28.4, 35.3)
	Once a month or more	(4.5, 7.2)	(7.9, 15.6)	(4.5, 10.3)	(3.3, 6.5)
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	(53.1, 58.9)	(45.6, 58.5)	(49.4, 60.1)	(53.2, 60.7)
	On the Internet	(22.4, 27.1)	(41.8, 55.0)	(23.8, 32.3)	(18.1, 24.2)
	From colleagues in other departments	(8.3, 11.8)	(9.4, 17.8)	(9.8, 17.0)	(6.2, 10.4)
	At conferences or other meetings	(5.7, 8.5)	(13.5, 23.1)	(6.1, 11.6)	(3.8, 7.2)
	Legitimately Skipped Question	(24.2, 29.5)	(11.2, 22.0)	(19.0, 28.4)	(26.2, 33.1)
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	(50.4, 56.2)	(62.4, 75.3)	(51.3, 61.6)	(46.6, 54.0)
		(17.8, 22.5)	(10.7, 20.5)	(16.4, 25.1)	(17.4, 23.4)
	Legitimately Skipped Question	(24.1, 29.4)	(11.2, 22.0)	(18.7, 28.1)	(26.2, 33.0)

Exhibit B-5b.	Results from the Fire De	partment Survey, Conf	idence Interval Estimate	s by Department T	vpe (continued)
				S by beput thene it	ype (continueu)

No

(continued)

B-209

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		(57.7, 63.5)	(65.3, 77.8)	(57.8, 68.2)	(54.6, 62.0)
		(10.2, 14.1)	(8.6, 17.1)	(9.9, 17.2)	(9.3, 14.1)
Yes	Legitimately Skipped Question	(24.7, 30.0)	(11.1, 21.9)	(19.3, 28.8)	(26.8, 33.8)
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	(21.1, 26.1)	(17.7, 28.7)	(18.9, 28.0)	(20.7, 27.2)
	Training sessions	(41.3, 47.2)	(41.4, 55.1)	(41.0, 51.7)	(39.0, 46.5)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(26.0, 38.2)	(17.2, 25.0)	(10.1, 15.0)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(7.7, 16.4)	(5.7, 11.0)	(3.5, 6.7)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(2.8, 6.8)	(0.7, 3.0)	(1.0, 3.1)
	Postings on bulletin boards	(35.6, 41.3)	(32.6, 46.1)	(32.4, 42.7)	(35.4, 42.7)
	Post report on the department website	(0.7, 1.8)	(1.6, 5.9)	(0.8, 2.8)	(0.3, 1.9)
	Send message to firefighters by email	(4.3, 6.5)	(18.3, 29.7)	(5.9, 10.7)	(1.5, 3.8)
		(0.8, 2.0)	(1.6, 5.3)	(0.3, 1.3)	(0.8, 2.8)
	Legitimately Skipped Question	(36.2, 42.0)	(22.9, 35.7)	(31.5, 41.9)	(37.6, 45.0)
51 he	r The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
	·	(31.6, 36.9)	(55.8, 69.3)	(32.1, 41.2)	(27.3, 34.2)
		(35.5, 41.3)	(15.9, 27.0)	(34.3, 45.0)	(35.5, 42.9)
Yes	Legitimately Skipped Question	(24.8, 30.2)	(11.5, 22.5)	(19.4, 29.0)	(26.8, 33.8)

No

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	(0.2, 1.1)	(0.4, 5.1)	(0.3, 2.8)	(0.0, 0.8)
	Disagree	(2.6, 4.8)	(1.2, 5.2)	(1.9, 5.4)	(2.6, 5.6)
	Neither Agree nor Disagree	(16.5, 21.2)	(10.6, 19.9)	(13.6, 22.0)	(16.8, 22.9)
	Agree	(42.7, 48.6)	(52.9, 66.4)	(44.2, 54.9)	(38.6, 46.1)
	Strongly Agree	(2.7, 5.0)	(3.4, 8.9)	(2.5, 7.2)	(2.1, 4.9)
	Legitimately Skipped Question	(25.3, 30.8)	(11.3, 22.2)	(20.0, 29.8)	(27.4, 34.4)
52b.	Recommendations are easy to understand				
	Strongly Disagree	(0.2, 1.0)	(0.0, 1.3)	(0.3, 2.8)	(0.0, 0.9)
	Disagree	(1.1, 2.6)	(0.5, 3.6)	(0.7, 3.4)	(1.0, 3.2)
	Neither Agree nor Disagree	(17.5, 22.3)	(8.2, 16.6)	(14.5, 22.9)	(18.3, 24.6)
	Agree	(42.4, 48.4)	(56.8, 70.0)	(44.0, 54.9)	(38.0, 45.5)
	Strongly Agree	(3.5, 6.1)	(4.5, 10.6)	(3.1, 8.1)	(2.9, 6.1)
	Legitimately Skipped Question	(25.4, 30.9)	(11.3, 22.3)	(20.1, 29.9)	(27.5, 34.5)
52c.	Recommendations are specific and concrete				
	Strongly Disagree	(0.2, 1.0)	(0.4, 4.6)	(0.3, 2.6)	(0.0, 0.9)
	Disagree	(2.3, 4.4)	(1.5, 4.8)	(1.7, 5.0)	(2.2, 5.0)
	Neither Agree nor Disagree	(24.0, 29.4)	(17.6, 28.9)	(23.2, 33.1)	(23.0, 29.7)
	Agree	(35.0, 40.8)	(43.5, 57.1)	(35.2, 45.6)	(32.0, 39.3)
	Strongly Agree	(2.8, 5.2)	(4.3, 10.3)	(1.8, 6.1)	(2.6, 5.7)
	Legitimately Skipped Question	(25.4, 30.8)	(11.4, 22.4)	(20.1, 29.9)	(27.4, 34.4)

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	(54.4, 60.4)	(70.8, 82.5)	(53.5, 64.3)	(51.0, 58.7)
	Respirator maintenance program guide	(11.9, 15.9)	(15.5, 25.6)	(8.7, 14.6)	(12.1, 17.6)
	CDs of firefighter program materials	(25.4, 30.7)	(28.3, 41.3)	(23.0, 32.5)	(24.4, 31.3)
	Alerts	(29.1, 34.5)	(43.0, 55.9)	(27.6, 37.0)	(26.6, 33.6)
	Hazard IDs	(14.5, 19.0)	(14.0, 24.0)	(11.9, 19.8)	(14.4, 20.2)
	Workplace Solutions	(10.7, 14.6)	(9.7, 18.7)	(9.9, 16.8)	(9.8, 14.9)
		(0.4, 1.4)	(0.3, 1.9)	(0.2, 1.6)	(0.4, 2.0)
	None. I have not seen any NIOSH materials.	(22.6, 27.9)	(9.7, 20.2)	(20.5, 30.1)	(22.9, 29.8)
53a :	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	(0.8, 2.2)	(1.3, 5.9)	(0.4, 3.0)	(0.7, 2.6)
	Dissatisfied	(0.0, 0.7)	(**, **)	(**, **)	(0.1, 1.2)
	Neither satisfied nor dissatisfied	(18.8, 23.8)	(7.8, 16.4)	(14.3, 22.7)	(20.6, 27.2)
	Satisfied	(44.1, 50.1)	(52.3, 65.4)	(44.8, 55.6)	(40.6, 48.3)
	Very satisfied	(4.0, 6.7)	(8.7, 17.4)	(3.9, 9.0)	(2.9, 6.1)
	Legitimately Skipped Question	(22.4, 27.7)	(9.9, 20.6)	(20.1, 29.7)	(22.7, 29.5)
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		(56.5, 62.2)	(21.3, 33.6)	(51.6, 61.6)	(59.8, 67.1)
	Yes, in the last year	(31.9, 37.3)	(57.1, 70.4)	(32.3, 42.0)	(27.3, 34.4)
No	Yes, longer than one year ago	(4.9, 7.6)	(5.7, 13.7)	(4.4, 9.0)	(4.2, 7.8)

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
1.	Does your department have a Safety Officer?				
		1,587	323	487	777
		1,587	323	487	777
2es	Does your department have a Training Officer?				
No		1,600	329	489	782
		1,600	329	489	782
Ses No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	1,600	329	489	782
	Maintenance of SCBAs	1,600	329	489	782
	Motor vehicle safety	1,600	329	489	782
	Participation in a personal physical fitness program	1,600	329	489	782
	Participation in regular health screenings for cardiovascular disease (CVD)	1,600	329	489	782
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	1,600	329	489	782
	Use of Personal Alert Safety System (PASS) devices	1,600	329	489	782
	Use of personal protective equipment and protective clothing	1,600	329	489	782
	Use of radio communications	1,600	329	489	782
		1,600	329	489	782
	Does not apply. Our fire department does not use SOPs/SOGs.	1,600	329	489	782
011-					(continued)

Other

(continued)

B-213

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?				
4a.	Fighting structure fires				
	No Training	1,607	331	486	790
	Optional Training	1,607	331	486	790
	Required Training	1,607	331	486	790
4b.	Driving safety				
	No Training	1,598	331	486	781
	Optional Training	1,598	331	486	781
	Required Training	1,598	331	486	781
4c.	Incident Command systems				
	No Training	1,584	327	488	769
	Optional Training	1,584	327	488	769
	Required Training	1,584	327	488	769
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	1,581	325	479	777
	Optional Training	1,581	325	479	777
	Required Training	1,581	325	479	777
4e.	Rapid Intervention Teams (RITs)				
	No Training	1,511	324	461	726
	Optional Training	1,511	324	461	726
	Required Training	1.511	324	461	726

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1,611	330	491	790
	Optional Training	1,611	330	491	790
	Required Training	1,611	330	491	790
4g.	Use of radio communication devices				
	No Training	1,606	329	488	789
	Optional Training	1,606	329	488	789
	Required Training	1,606	329	488	789
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	1,611	330	490	791
	Other officers within our department	1,611	330	490	791
	State fire training agency	1,611	330	490	791
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	1,611	330	490	791
	Conferences or regional meetings	1,611	330	490	791
		1,611	330	490	791
6. Othe	What other trainings have your firefighters attended in the r last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	1,622	332	496	794
	Scuba diving	1,622	332	496	794
	Swift water rescue	1,622	332	496	794
	Wildland fire fighting	1,622	332	496	794
		1,622	332	496	794
		1,622	332	496	794
HA7	HAZMAT (continued)				

HAZMAT Other

	Question	Department Type			
		Total	All Career	All Volunteer	Combination
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	1,610	329	492	789
	Not very familiar	1,610	329	492	789
	Somewhat familiar	1,610	329	492	789
	Very familiar	1,610	329	492	789
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	1,611	328	495	788
	Not very familiar	1,611	328	495	788
	Somewhat familiar	1,611	328	495	788
	Very familiar	1,611	328	495	788
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	1,609	330	494	785
	National conference presentations	1,609	330	494	785
9.	State-level conference presentations	1,609	330	494	785
	Other firefighters or departments	1,609	330	494	785
	At seminars or other training opportunities (not conferences)	1,609	330	494	785
	Trade publications (such as Firehouse and Fire Engineering)	1,609	330	494	785
	NIOSH website	1,609	330	494	785
	Links from other websites (such as NFPA and Firehouse)	1,609	330	494	785
	Media reports-newspaper, television, radio	1,609	330	494	785
		1,609	330	494	785
Othe	Does not apply. We have not received information about NIOSH are recommendations.	1,609	330	494	785

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	1,536	321	474	741
	Developed new SOPs/SOGs	1,536	321	474	741
	Made changes to SOPs/SOGs	1,536	321	474	741
	Justified current budget/staffing	1,536	321	474	741
	Made new budget/staffing requests	1,536	321	474	741
	Justified grant applications	1,536	321	474	741
	Does not apply. We have not used NIOSH recommendations.	1,536	321	474	741
	Legitimately Skipped Question	1,536	321	474	741
110.	have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	1,530	317	476	737
	Personal protective equipment and clothing	1,530	317	476	737
		1,530	317	476	737
	PASS systems	1,530	317	476	737
SCBA	Incident Command systems	1,530	317	476	737
	Radio communications	1,530	317	476	737
	Physical fitness and cardiovascular disease (CVD)	1,530	317	476	737
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	317	476	737
		1,530	317	476	737
Othe	Does not apply. We have not used NIOSH recommendations for training purposes.	1,530	317	476	737
	Legitimately Skipped Question	1,530	317	476	737

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		1,596	324	489	783
	Yes, it's required	1,596	324	489	783
No	Yes, it's optional	1,596	324	489	783
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	1,582	321	479	782
	Less frequently than once a year	1,582	321	479	782
	One time a year	1,582	321	479	782
	More than one time a year	1,582	321	479	782
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	321	479	782
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	1,616	332	494	790
	Yes, they receive training required by the department	1,616	332	494	790
	Yes, they receive training required by the state	1,616	332	494	790
	Yes, they receive optional training	1,616	332	494	790
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	1,611	329	494	788
	Once every year	1,611	329	494	788
	Less frequently than once a year	1,611	329	494	788
	Does not apply. Firefighters are not required to receive continuing driver training.	1,611	329	494	788

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		1,613	330	495	788
		1,613	330	495	788
17 5 No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	1,603	330	489	784
	Disagree	1,603	330	489	784
	Neither agree nor disagree	1,603	330	489	784
	Agree	1,603	330	489	784
	Strongly agree	1,603	330	489	784
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		1,616	332	493	791
	Some of the time	1,616	332	493	791
NeverAbout half the time		1,616	332	493	791
	Most of the time	1,616	332	493	791
		1,616	332	493	791
21. Alwa	How often is Incident Command established when $_{ m NVS}$ esponding to structure fires?				
		1,604	328	491	785
	Rarely	1,604	328	491	785
Neve	erAbout half the time	1,604	328	491	785
	Most of the time	1,604	328	491	785
		1,604	328	491	785
					(continued)

Always
			Departr	nent Type		
	Question	Total	All Career	All Volunteer	Combination	
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.					
	Fires are not usually big enough to require an Incident Commander	1,600	327	490	783	
	Not enough firefighters available at the scene of the fire	1,600	327	490	783	
		1,600	327	490	783	
Othe	Does not apply. My department always assigns an Incident Commander for structure fires.	1,600	327	490	783	
	Legitimately Skipped Question	1,600	327	490	783	
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.					
	Conduct an initial assessment before the other firefighters begin entering the building	1,588	327	480	781	
	Develop and coordinate the fire attack strategy	1,588	327	480	781	
	Develop and initiate a risk management plan	1,588	327	480	781	
	Document all assessments, plans and events related to the fire	1,588	327	480	781	
	Ensure that at least four (4) firefighters are on the scene before entering the building	1,588	327	480	781	
	Establish a collapse zone around the building	1,588	327	480	781	
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	1,588	327	480	781	
	Identify and implement a communication strategy	1,588	327	480	781	
	Monitor location of all firefighters at the scene	1,588	327	480	781	
		1,588	327	480	781	
24. Othe	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?					
	Never	1,605	330	488	787	
	Some of the time	1,605	330	488	787	
	About half the time	1,605	330	488	787	
	Most of the time	1,605	330	488	787	
		1,605	330	488	787	

Always

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	1,588	329	481	778
	Not enough firefighters are available at the scene of the fire	1,588	329	481	778
		1,588	329	481	778
Othe	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	1,588	329	481	778
00	Legitimately Skipped Question	1,588	329	481	778
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	1,602	328	491	783
	Some of the time	1,602	328	491	783
	About half the time	1,602	328	491	783
	Most of the time	1,602	328	491	783
		1,602	328	491	783
27. Alwa	In what situations are RITs/RICs established? MARK ALL /JHAT APPLY.				
	When the building has more than one story/floor	1,600	330	487	783
	When there are enough firefighters on and at the scene of the fire	1,600	330	487	783
	Whenever firefighters enter a burning building	1,600	330	487	783
		1,600	330	487	783
	Legitimately Skipped Question	1,600	330	487	783

Other

				_		
		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.					
	The structure fire may not be large enough to need an RIT/RIC	1,575	326	481	768	
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	1,575	326	481	768	
	We don't have enough firefighters available at the scene of the fire	1,575	326	481	768	
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	1,575	326	481	768	
	We have never established an RIT/RIC	1,575	326	481	768	
	We use other fire departments in the area for RITs/RICs	1,575	326	481	768	
	We use other safety practices and so we don't need them	1,575	326	481	768	
		1,575	326	481	768	
	Legitimately Skipped Question	1,575	326	481	768	
29 he	T Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?					
		1,606	332	488	786	
		1,606	332	488	786	
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?					
		1,600	330	486	784	
	Some of the time	1,600	330	486	784	
Neve	erAbout half the time	1,600	330	486	784	
	Most of the time	1,600	330	486	784	
		1,600	330	486	784	

Always

			Departn	nent Type	
	Question	Total	All Career	All Volunteer	Combination
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	1,590	328	483	779
	Situation doesn't require them	1,590	328	483	779
	Firefighters think the devices do not always work reliably	1,590	328	483	779
	Firefighters don't think they need them	1,590	328	483	779
	Devices go off while firefighters are resting	1,590	328	483	779
	Legitimately Skipped Question	1,590	328	483	779
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		1,606	331	487	788
		1,606	331	487	788
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		1,521	302	465	754
		1,521	302	465	754
Yes	Legitimately Skipped Question	1,521	302	465	754
₿3a	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	1,517	302	463	752
	Firefighters don't like using the equipment	1,517	302	463	752
	Have never needed them (e.g., we don't do interior attacks)	1,517	302	463	752
	They cost too much, there is not enough money in the budget	1,517	302	463	752
	We don't have enough equipment for all of our firefighters	1,517	302	463	752
	Shared systems work fine for our needs	1,517	302	463	752
		1,517	302	463	752
	Legitimately Skipped Question	1,517	302	463	752

Other

Exhibit B-5c.	Results from	the Fire [Department Si	urvey, Samp	le Sizes by	Department	Type ((continued)
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		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?					
	Never	1,536	305	469	762	
	Some of the time	1,536	305	469	762	
	About half the time	1,536	305	469	762	
	Most of the time	1,536	305	469	762	
		1,536	305	469	762	
	Legitimately Skipped Question	1,536	305	469	762	
35 va	yWhy do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.					
	Situation doesn't require them	1,525	305	463	757	
	Firefighters do not trust that the SCBAs will work reliably	1,525	305	463	757	
	Firefighters don't think they need them	1,525	305	463	757	
	Firefighters don't like sharing facepieces with others	1,525	305	463	757	
	Firefighters are concerned that the SCBA may be or become contaminated	1,525	305	463	757	
	Wearing SCBAs makes it more difficult to work	1,525	305	463	757	
	Firefighters don't have SCBAs to use	1,525	305	463	757	
	Legitimately Skipped Question	1,525	305	463	757	
36.	How often is routine maintenance performed on your SCBAs?					
	After every time they are used	1,270	270	389	611	
	Once a month or more	1,270	270	389	611	
	Several times a year	1,270	270	389	611	
	Once a year	1,270	270	389	611	
	Less than once a year	1,270	270	389	611	
	Never. Maintenance has not been done on our SCBAs.	1,270	270	389	611	
	Does not apply. My department does not have SCBAs.	1,270	270	389	611	
	Legitimately Skipped Question	1,270	270	389	611	

		Department Type			
	Question	Total	All Career	All Volunteer	Combination
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	1,518	311	461	746
		1,518	311	461	746
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	1,454	302	449	703
	We didn't know they were available	1,454	302	449	703
	We don't have adequate technical information to purchase them	1,454	302	449	703
	We don't have adequate funding to purchase them	1,454	302	449	703
		1,454	302	449	703
	Legitimately Skipped Question	1,454	302	449	703
38 he	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	1,610	326	495	789
		1,610	326	495	789
38a.	At your fire department, where do you have AEDs?				
No	At the fire station(s)	1,424	270	441	713
	On the emergency vehicles (or apparatus)	1,424	270	441	713
	Both at the fire station(s) and on the vehicles (or apparatus)	1,424	270	441	713
	Legitimately Skipped Question	1,424	270	441	713
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	1,235	289	368	578
	Once a month or more	1,235	289	368	578
	Several times a year	1,235	289	368	578
	Once a year	1,235	289	368	578
	Less frequently than once a year	1,235	289	368	578
	Never. Maintenance on our AEDs has not been done.	1,235	289	368	578
			· ·	•	(continued)

			-		
	Department Type				
Question	Total	All Career	All Volunteer	Combination	
40. About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?					
	1,610	332	492	786	
Some of the time	1,610	332	492	786	
NeverAbout half the time	1,610	332	492	786	
Most of the time	1,610	332	492	786	
	1,610	332	492	786	
Alway have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?					
	1,612	332	493	787	
Some of the time	1,612	332	493	787	
NeverAbout half the time	1,612	332	493	787	
Most of the time	1,612	332	493	787	
	1,612	332	493	787	
42. How would you rate your department's budget in the Alway §ollowing areas?					
42a. Equipment					
Not adequate	1,608	328	493	787	
Adequate	1,608	328	493	787	
More than adequate	1,608	328	493	787	

		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
42b.	Training					
	Not adequate	1,608	329	491	788	
	Adequate	1,608	329	491	788	
	More than adequate	1,608	329	491	788	
42c.	Personnel					
	Not adequate	1,551	330	476	745	
	Adequate	1,551	330	476	745	
	More than adequate	1,551	330	476	745	
	recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.					
		1,605	329	489	787	
	One or two times per year	1,605	329	489	787	
Neve	rSeveral times per year	1,605	329	489	787	
	Once a month or more	1,605	329	489	787	
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.					
	By mail	1,605	328	492	785	
	On the Internet	1,605	328	492	785	
	From colleagues in other departments	1,605	328	492	785	
	At conferences or other meetings	1,605	328	492	785	
	Legitimately Skipped Question	1,605	328	492	785	

			Depart	ment Type	
	Question	Total	All Career	All Volunteer	Combination
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	1,611	329	495	787
		1,611	329	495	787
	Legitimately Skipped Question	1,611	329	495	787
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		1,583	329	487	767
		1,583	329	487	767
Yes	Legitimately Skipped Question	1,583	329	487	767
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	1,585	323	489	773
	Training sessions	1,585	323	489	773
	Provide copies of NIOSH reports to firefighters	1,585	323	489	773
	Provide copies of NIOSH report summaries to firefighters	1,585	323	489	773
	Provide summaries prepared by department to firefighters	1,585	323	489	773
	Postings on bulletin boards	1,585	323	489	773
	Post report on the department website	1,585	323	489	773
	Send message to firefighters by email	1,585	323	489	773
		1,585	323	489	773
	Legitimately Skipped Question	1,585	323	489	773
51 he	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		1,564	318	479	767
		1,564	318	479	767
Yes	Legitimately Skipped Question	1,564	318	479	767

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(continued)

No

		Department Type				
	Question	Total	All Career	All Volunteer	Combination	
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	1,547	324	472	751	
	Disagree	1,547	324	472	751	
	Neither Agree nor Disagree	1,547	324	472	751	
	Agree	1,547	324	472	751	
	Strongly Agree	1,547	324	472	751	
	Legitimately Skipped Question	1,547	324	472	751	
52b.	Recommendations are easy to understand					
	Strongly Disagree	1,537	321	469	747	
	Disagree	1,537	321	469	747	
	Neither Agree nor Disagree	1,537	321	469	747	
	Agree	1,537	321	469	747	
	Strongly Agree	1,537	321	469	747	
	Legitimately Skipped Question	1,537	321	469	747	
52c.	Recommendations are specific and concrete					
	Strongly Disagree	1,537	321	467	749	
	Disagree	1,537	321	467	749	
	Neither Agree nor Disagree	1,537	321	467	749	
	Agree	1,537	321	467	749	
	Strongly Agree	1,537	321	467	749	
	Legitimately Skipped Question	1,537	321	467	749	

			D		
			Departm	ent Type	1
	Question	Total	All Career	All Volunteer	Combination
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	1,537	322	472	743
	Respirator maintenance program guide	1,537	322	472	743
	CDs of firefighter program materials	1,537	322	472	743
	Alerts	1,537	322	472	743
	Hazard IDs	1,537	322	472	743
	Workplace Solutions	1,537	322	472	743
		1,537	322	472	743
	None. I have not seen any NIOSH materials.	1,537	322	472	743
53a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1,536	317	473	746
	Dissatisfied	1,536	317	473	746
	Neither satisfied nor dissatisfied	1,536	317	473	746
	Satisfied	1,536	317	473	746
	Very satisfied	1,536	317	473	746
	Legitimately Skipped Question	1,536	317	473	746
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		1,589	328	489	772
	Yes, in the last year	1,589	328	489	772
No	Yes, longer than one year ago	1,589	328	489	772

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
1.	Does your department have a Safety Officer?				
		70.3	78.6 [3]	73.3	70.2 [1]
		29.7	21.4 [3]	26.7	29.8 ^[1]
2es	Does your department have a Training Officer?				
No		88.5	93.8 ^[3]	90.4	88.4 [1]
		11.5	6.2 [3]	9.6	11.6 ^[1]
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	83.7	92.0 ^[3]	92.7 ^[3]	83.6 ^[1,2]
	Maintenance of SCBAs	69.7	80.8 [2,3]	68.7 ^[1]	69.6 ^[1]
	Motor vehicle safety	78.8	90.3 [3]	82.7	78.7 ^[1]
	Participation in a personal physical fitness program	11.0	24.3 ^[3]	18.1	10.9 ^[1]
	Participation in regular health screenings for cardiovascular disease (CVD)	16.8	32.0 ^[3]	24.5	16.6 ^[1]
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	40.4	64.0 ^[3]	55.5 ^[3]	40.1 ^[1,2]
	Use of Personal Alert Safety System (PASS) devices	75.4	83.2 [2,3]	71.7 [1]	75.3 ^[1]
	Use of personal protective equipment and protective clothing	89.1	96.3 [3]	90.2	89.1 ^[1]
	Use of radio communications	84.8	91.2 ^[3]	88.9	84.7 ^[1]
	Other	8.7	9.5	9.5	8.7
	Does not apply. Our fire department does not use SOPs/SOGs.	5.0	** [3]	1.0 ^[3,+]	5.1 ^[1,2]

(continued)

Appendix B — Post-Data Collection Methodology and Analysis Tables

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires				
	No Training	1.1	1.9 [+]	3.5 [+]	1.1
	Optional Training	16.7	7.7 ^[2,3]	20.2 [1]	16.8 ^[1]
	Required Training	82.8	90.4 ^[2,3]	76.3 ^[1]	82.8 ^[1]
4b.	Driving safety				
	No Training	3.9	2.2 [+]	3.7 [+]	3.9
	Optional Training	18.6	5.8 [2,3]	16.0 ^[1]	18.7 ^[1]
	Required Training	77.7	92.0 ^[2,3]	80.3 [1]	77.6 ^[1]
4c.	Incident Command systems				
	No Training	2.9	1.4 [+]	3.3 [+]	2.9
	Optional Training	27.4	12.3 [2,3]	23.1 ^[1]	27.5 ^[1]
	Required Training	69.9	86.3 ^[2,3]	73.6 ^[1]	69.7 ^[1]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	6.6	5.3	6.0	6.6
	Optional Training	33.6	21.4 [3]	32.9	33.7 ^[1]
	Required Training	60.3	73.4 ^[3]	61.1	60.2 ^[1]
4e.	Rapid Intervention Teams (RITs)				
	No Training	28.5	9.9 ^[3]	17.7 ^[3]	28.8 [1,2]
	Optional Training	36.2	29.6 [2]	46.1 ^[1]	36.1
	Required Training	35.5	60.5 [2,3]	36.1 [1]	35.4 [1]

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1.5	0.8 [+]	* * [3]	1.5 [2]
	Optional Training	9.9	6.5	11.9	9.9
	Required Training	88.9	92.7	88.7	88.9
4g.	Use of radio communication devices				
	No Training	2.7	2.0 [+]	0.4 [3,+]	2.7 [2]
	Optional Training	21.4	13.4 ^[3]	21.1	21.4 ^[1]
	Required Training	76.2	84.7 ^[3]	78.5	76.1 ^[1]
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	84.9	91.3 ^[3]	88.1	84.8 [1]
	Other officers within our department	82.8	91.8 ^[3]	89.1 ^[3]	82.7 [1,2]
	State fire training agency	77.4	82.2	85.3 [3]	77.3 [2]
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	20.9	42.9 [3]	32.4 ^[3]	20.7 ^[1,2]
	Conferences or regional meetings	51.7	66.5 ^[3]	63.6 ^[3]	51.5 ^[1,2]
	Other	25.2	24.8	27.0	25.2
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	55.3	60.0	52.7	55.3
	Scuba diving	7.5	14.4 ^[3]	6.8	7.4 [1]
	Swift water rescue	11.2	29.8 ^[2,3]	9 .8 ^[1]	11.1 ^[1]
	Wildland fire fighting	47.0	40.3	41.3	47.1
	HAZMAT	66.7	82.6 [3]	78.3 ^[3]	66.4 ^[1,2]
	Other	31.2	36.6	28.4	31.2

	·	-	-		-
			Fatality and FF	FIPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	8.3	2.5 [3,+]	2.5 [3,+]	8.4 [1,2]
	Not very familiar	24.3	6.8 [2,3]	18.1 ^[1]	24.5 ^[1]
	Somewhat familiar	58.1	48.5 [3]	60.7	58.2 ^[1]
	Very familiar	9.3	42.2 [2,3]	18.7 ^[1,3]	8.9 ^[1,2]
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	20.8	6.8 [3]	9.5 [3]	21.0 ^[1,2]
	Not very familiar	33.5	11.7 ^[2,3]	22.9 ^[1,3]	33.8 ^[1,2]
	Somewhat familiar	37.9	38.7	51.0 ^[3]	37.8 [2]
	Very familiar	7.8	42.9 [2,3]	16.5 ^[1,3]	7.5 ^[1,2]
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	67.8	84.7 [3]	74.0	67.6 ^[1]
	National conference presentations	3.6	9.1 ^[3]	6.5	3.6 [1]
	State-level conference presentations	11.5	15.1	9.1	11.5
	Other firefighters or departments	22.9	24.6	26.2	22.8
	At seminars or other training opportunities (not conferences)	16.4	23.0	25.9 ^[3]	16.2 ^[2]
	Trade publications (such as Firehouse and Fire Engineering)	47.2	60.7 [3]	57.9 ^[3]	47.0 ^[1,2]
	NIOSH website	24.3	56.7 ^[2,3]	33.6 [1,3]	23.9 ^[1,2]
	Links from other websites (such as NFPA and Firehouse)	28.2	47.5 [3]	35.1	28.0 [1]
	Media reports—newspaper, television, radio	14.9	19.2	17.3	14.8
		1.1	1.9 [+]	5.1	1.1
Othe	Does not apply. We have not received information about NIOSH recommendations.	11.1	2.9 ^[3]	4.0 ^[3,+]	11.3 ^[1,2]

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	40.2	68.0 ^[3]	56.3 ^[3]	39.8 ^[1,2]
	Developed new SOPs/SOGs	26.3	50.1 ^[3]	37.4 [3]	26.1 ^[1,2]
	Made changes to SOPs/SOGs	34.9	66.2 [2,3]	51.3 ^[1,3]	34.5 ^[1,2]
	Justified current budget/staffing	5.0	15.3 ^[3]	9.1	4.9 ^[1]
	Made new budget/staffing requests	5.5	20.2 [3]	11.4	5.3 ^[1]
	Justified grant applications	15.5	30.1 [3]	22.0	15.4 ^[1]
	Does not apply. We have not used NIOSH recommendations.	30.1	10.0 [3]	17.1 ^[3]	30.3 ^[1,2]
	Legitimately Skipped Question	11.7	3.0 [3]	4.2 [3,+]	11.9 ^[1,2]
110	you have used for training purposes? If so, MARK ALL				
	Traffic hazards	29.3	49.9 ^[3]	45.8 ^[3]	29.0 ^[1,2]
	Personal protective equipment and clothing	41.6	59.8 ^[3]	51.0	41.4 ^[1]
	SCBA	40.1	56.6 ^[3]	50.0	39.8 ^[1]
	PASS systems	32.6	46.1 ^[3]	39.4	32.5 ^[1]
	Incident Command systems	32.1	46.1 ^[3]	50.0 ^[3]	31.8 ^[1,2]
	Radio communications	23.0	40.3 [3]	38.9 [3]	22.8 ^[1,2]
	Physical fitness and cardiovascular disease (CVD)	8.5	28.8 [2,3]	16.3 ^[1,3]	8.3 [1,2]
	Building code compliance (e.g., warning against the use of wooden trusses)	6.9	15.2 ^[3]	7.4	6.8 ^[1]
	Other	2.3	6.5	2.2 [+]	2.3
	Does not apply. We have not used NIOSH recommendations for training purposes.	1.9	2.4 [+]	6.2	1.9
	Legitimately Skipped Question	41.9	13.1 ^[3]	21.6 [3]	42.3 ^[1,2]

Exhibit B-6a.	Results from the Fire Department Survey,	Percent Estimates by Fatality a	and FFFIPP Investigation (continued)
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		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		78.5	59.6 ^[3]	71.5	78.7 ^[1]
	Yes, it's required	7.0	18.5 ^[3]	11.9	6.9 ^[1]
No	Yes, it's optional	14.5	21.8 ^[3]	16.7	14.5 ^[1]
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	14.5	13.8	15.6	14.5
	Less frequently than once a year	7.1	10.0	8.6	7.1
	One time a year	17.1	32.6 ^[3]	24.4	17.0 ^[1]
	More than one time a year	0.3	** [3]	** [3]	0.3 ^[1,2]
	Does not apply. Firefighters are not required to receive CVD screenings	60.9	43.6 ^[3]	51.4	61.2 [1]
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	6.4	2.2 [3,+]	5.2	6.4 ^[1]
	Yes, they receive training required by the department	84.0	92.2 ^[3]	84.7	83.9 ^[1]
	Yes, they receive training required by the state	25.7	28.3	20.5	25.8
	Yes, they receive optional training	13.8	8.0 ^[3]	15.0	13.8 ^[1]
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	14.2	14.3	13.1	14.2
	Once every year	40.3	43.8	36.5	40.4
	Less frequently than once a year	24.8	26.7	28.7	24.7
	Does not apply. Firefighters are not required to receive continuing driver training.	20.7	15.2	21.7	20.8

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		84.2	92.1 ^[3]	88.0	84.1 ^[1]
	No	15.8	7.9 ^[3]	12.0	15.9 ^[1]
\$ 75	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	6.9	9.1	4.1 [+]	6.9
	Disagree	18.0	20.5	13.7	18.0
	Neither agree nor disagree	30.8	21.7 ^[2,3]	34.9 [1]	30.9 ^[1]
	Agree	32.1	37.0 [2]	23.9 [1]	32.2
	Strongly agree	12.2	11.7 ^[2]	23.4 ^[1,3]	12.0 [2]
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		5.4	3.8	1.1 [3,+]	5.4 [2]
	Some of the time	22.7	18.9 ^[2]	31.9 ^[1]	22.6
Neve	erAbout half the time	17.0	13.4	14.9	17.0
	Most of the time	38.4	38.4	31.5	38.5
		16.5	25.6 ^[3]	20.5	16.4 ^[1]
21.	How often is Incident Command established when vesponding to structure fires?				
/	<i>j</i>	2.3	** [3]	1.9 [+]	2.3 ^[1]
	Rarely	6.8	3.6	3.7	6.8
Neve	PrAbout half the time	6.7	2.6 [3,+]	1.0 ^[3,+]	6.8 ^[1,2]
	Most of the time	27.6	17.6 [3]	19.0 [3]	27.8 ^[1,2]
	Always	56.6	76.1 ^[3]	74.4 [3]	56.3 ^[1,2]

Exhibit B-6a. Results from the Fire Department Survey, Percent Estimates by Fatality and FFFIPP Investigation (continued)

			Fatality and FF	FIPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	22.5	8.0 ^[3]	10.4 [3]	22.7 ^[1,2]
	Not enough firefighters available at the scene of the fire	21.2	10.8 [3]	13.8 ^[3]	21.3 ^[1,2]
	Other	6.2	6.2	5.5	6.2
	Does not apply. My department always assigns an Incident Commander for structure fires.	3.6	2.9	1.2 [3,+]	3.7 ^[2]
	Legitimately Skipped Question	56.6	76.7 [3]	75.7 ^[3]	56.3 [1,2]
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	91.0	91.0	91.9	91.0
	Develop and coordinate the fire attack strategy	93.1	95.5	92.6	93.1
	Develop and initiate a risk management plan	52.3	65.4 ^[3]	63.3 ^[3]	52.1 ^[1,2]
	Document all assessments, plans and events related to the fire	38.8	47.1	40.2	38.7
	Ensure that at least four (4) firefighters are on the scene before entering the building	68.6	74.2	67.0	68.5
	Establish a collapse zone around the building	49.1	55.9	53.7	49.0
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	48.5	69.1 ^[3]	60.0 [3]	48.2 ^[1,2]
	Identify and implement a communication strategy	64.7	65.2	64.9	64.7
	Monitor location of all firefighters at the scene	76.2	83.9 [3]	82.3	76.1 ^[1]
	Other	9.1	9.9	11.4	9.1

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	13.3	5.0 ^[3]	8.4	13.4 ^[1]
	Some of the time	26.5	28.6	28.1	26.5
	About half the time	8.1	11.9	7.0	8.1
	Most of the time	29.8	25.4	26.8	29.8
		22.3	29.1	29.7	22.2
25. Alwa	What are the reasons why an Incident Commander does ynot always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	32.3	20.5 [3]	15.9 ^[3]	32.5 ^[1,2]
	Not enough firefighters are available at the scene of the fire	51.7	43.0	51.6	51.7
		13.1	20.0 [3]	16.2	13.0 ^[1]
Othe	Does not apply. Our Incident Commanders always assign an r Incident Safety Officer for structure fires.	2.1	2.9	0.8 [+]	2.1
	Legitimately Skipped Question	22.6	29.1	30.1	22.5
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	29.4	13.4 [3]	18.0 [3]	29.6 [1,2]
	Some of the time	21.8	13.8 ^[3]	18.2	21.9 [1]
	About half the time	6.5	8.4	4.7	6.5
	Most of the time	22.5	27.5	19.5	22.5
		19.9	36.9 [3]	39.6 [3]	19.5 ^[1,2]

Always

(continued)

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			Fatality and FF	FIPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	9.3	7.6	5.9	9.4
	When there are enough firefighters on and at the scene of the fire	32.3	28.7	28.2	32.4
	Whenever firefighters enter a burning building	26.4	28.2	19.5	26.5
		4.9	5.9	3.2	4.9
	Legitimately Skipped Question	49.3	50.8	58.1	49.2
28 ne	r What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	34.9	25.4 [3]	23.4 [3]	35.1 ^[1,2]
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	8.8	2.3 ^[3,+]	3.8 ^[3,+]	8.9 [1,2]
	We don't have enough firefighters available at the scene of the fire	53.5	41.5 ^[3]	38.5 ^[3]	53.8 ^[1,2]
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	20.7	10.8 [3]	15.3	20.8 [1]
	We have never established an RIT/RIC	17.7	7.0 ^[3]	11.5	17.8 ^[1]
	We use other fire departments in the area for RITs/RICs	29.2	21.8	19.3 ^[3]	29.4 [2]
	We use other safety practices and so we don't need them	4.2	1.8 [+]	1.1 ^[3,+]	4.2 [2]
	Other	4.1	7.8	5.7	4.0
	Legitimately Skipped Question	20.3	37.4 [3]	39.8 [3]	19.9 ^[1,2]
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		78.8	93.4 [2,3]	81.3 [1]	78.6 [1]
	No	21.2	6.6 [2,3]	18.7 ^[1]	21.4 [1]

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Yes

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		6.3	2.7 [2,3,+]	11.4 [1]	6.2 ^[1]
	Some of the time	3.9	1.0 ^[3,+]	** [3]	4.0 ^[1,2]
Neve	rAbout half the time	1.8	0.7 [+]	1.6 [+]	1.8
	Most of the time	12.8	4.6 [2,3]	12.6 [1]	12.9 ^[1]
	Always	75.2	91.0 ^[2,3]	74.4 [1]	75.1 ^[1]
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	13.1	3.4 [2,3]	16.1 ^[1]	13.2 ^[1]
	Situation doesn't require them	9.5	3.0 ^[3,+]	9.9	9 .5 ^[1]
	Firefighters think the devices do not always work reliably	0.3	0.6 [+]	0.9 [+]	0.3 [+]
	Firefighters don't think they need them	4.6	0.8 [3,+]	2.6 [+]	4.6 [1]
	Devices go off while firefighters are resting	3.7	1.9 [+]	2.6 [+]	3.7
	Legitimately Skipped Question	75.5	91.6 ^[2,3]	75.4 [1]	75.4 [1]
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		99.2	98.6	97.3	99.3
		0.8	1.4 [+]	2.7 [+]	0.7
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		49.7	34.5 [2,3]	52.8 ^[1]	49.8 ^[1]
	No	49.5	64.1 ^[2,3]	44.2 [1]	49.4 ^[1]
Yes	Legitimately Skipped Question	0.8	1.4 [+]	3.0 [+]	0.8

Exhibit B-6a.	Results from the Fire	e Department Survey,	Percent Estimates by	Fatality and FFFI	PP Investigation (continued	d)
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		Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
33a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.					
	Didn't know it was recommended	4.8	1.4 [3,+]	2.1 [+]	4.8 [1]	
	Firefighters don't like using the equipment	0.3	* *	* *	0.3 [+]	
	Have never needed them (e.g., we don't do interior attacks)	0.7	** [3]	1.6 [+]	0.7 [1]	
	They cost too much, there is not enough money in the budget	31.8	20.4 [3]	30.1	31.9 ^[1]	
	We don't have enough equipment for all of our firefighters	24.6	19.4	25.8	24.6	
	Shared systems work fine for our needs	23.4	14.5 ^[2,3]	27.1 ^[1]	23.5 ^[1]	
	Other	5.0	4.7	9.0	5.0	
	Legitimately Skipped Question	50.3	67.5 ^[2,3]	47.3 [1]	50.3 ^[1]	
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?					
	Never	1.1	** [3]	** [3]	1.2 ^[1,2]	
	Some of the time	4.7	3.0 [+]	5.2 [+]	4.7	
	About half the time	2.7	* * [3]	* * [3]	2.7 ^[1,2]	
	Most of the time	24.5	15.8 ^[3]	20.3	24.6 ^[1]	
	Always	66.1	79.8 ^[3]	71.6	66.0 ^[1]	
	Legitimately Skipped Question	0.8	1.5 [+]	2.9 [+]	0.8	
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.					
	Situation doesn't require them	25.9	18.1 ^[3]	17.1 ^[3]	26.0 ^[1,2]	
	Firefighters do not trust that the SCBAs will work reliably	* *	* *	* *	* * [+]	
	Firefighters don't think they need them	10.3	6.6	11.4	10.4	
	Firefighters don't like sharing facepieces with others	1.0	** [3]	1.0 [+]	1.0 ^[1]	
	Firefighters are concerned that the SCBA may be or become contaminated	* *	**	**	** [+]	
	Wearing SCBAs makes it more difficult to work	5.9	4.6	9.6	5.9	
	Firefighters don't have SCBAs to use	3.9	* * [3]	[3]	4.0 ^[1,2]	
	Legitimately Skipped Question	67.8	80.6 [3]	74.5	67.6 ^[1]	

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	43.0	59.7 ^[3]	54.7 ^[3]	42.7 [1,2]
	Once a month or more	19.0	16.0	14.8	19.0
	Several times a year	15.0	8.1 ^[3]	9.8	15.1 ^[1]
	Once a year	16.4	13.3	13.4	16.5
	Less than once a year	4.3	** [3]	2.8 [+]	4.3 ^[1]
	Never. Maintenance has not been done on our SCBAs.	1.4	1.3 [+]	1.0 [+]	1.4
	Does not apply. My department does not have SCBAs.	* *	* *	* *	* *
	Legitimately Skipped Question	1.0	1.7 [+]	3.6 [+]	0.9
57.	(CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	17.5	35.9 [3]	24.4	17.3 ^[1]
	Zero	82.5	64.1 ^[3]	75.6	82.7 [1]
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	20.9	8.9 [3]	17.6	21.1 ^[1]
	We didn't know they were available	15.1	7.1 ^[3]	7.9 ^[3]	15.2 ^[1,2]
	We don't have adequate technical information to purchase them	19.7	11.3 [3]	12.6 [3]	19.8 ^[1,2]
	We don't have adequate funding to purchase them	60.3	46.5 [3]	54.0	60.4 [1]
	Other	4.9	8.9	12.3 ^[3]	4.8 [2]
	Legitimately Skipped Question	18.3	37.0 ^[3]	26.7	18.1 ^[1]
38.	Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	77.4	88.8 [3]	85.9 ^[3]	77.3 ^[1,2]
	No	22.6	11.2 [3]	14.1 ^[3]	22.7 ^[1,2]
					(continued)

Appendix B — Post-Data Collection Methodology and Analysis Tables

		Fatality and FF	FIPP Investigation	
Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
38a. At your fire department, where do you have AEDs?				
At the fire station(s)	2.8	1.3 [+]	5.2	2.8
On the emergency vehicles (or apparatus)	62.0	74.7 [3]	68.6	61.8 ^[1]
Both at the fire station(s) and on the vehicles (or apparatus)	10.4	11.2	9.2	10.4
Legitimately Skipped Question	24.9	12.8 [3]	17.1	25.0 ^[1]
39. How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
After every time they are used	13.9	23.9 ^[3]	17.5	13.8 ^[1]
Once a month or more	25.4	22.5	19.6	25.5
Several times a year	20.6	20.5	17.4	20.6
Once a year	22.3	24.5	36.0 [3]	22.2 [2]
Less frequently than once a year	7.4	3.2 [3,+]	3.8	7.5 ^[1]
Never. Maintenance on our AEDs has not been done.	10.4	5.5 [3]	5.6	10.5 ^[1]
40. About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
	1.6	1.1 [+]	* * [3]	1.7 ^[2]
Some of the time	4.7	** [2,3]	5.8 ^[1]	4.7 ^[1]
NeverAbout half the time	2.6	0.6 [3,+]	** [3]	2.7 ^[1,2]
Most of the time	20.6	15.8 [2]	27.5 ^[1]	20.6
	70.4	82.5 [2,3]	66.6 ^[1]	70.4 [1]
				(continued

Always

		Fatality and FF	FIPP Investigation	
Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
41. Some radios and other two-way communication devices can have problems under field conditions, such as bleed-over, interference, or loss of communication. About how often do your communication devices have these or other problems?	r			
	18.0	10.5 [3]	16.2	18.1 ^[1]
Some of the time	64.5	75.0 ^[3]	68.7	64.4 ^[1]
NeverAbout half the time	10.3	9.3	9.0	10.3
Most of the time	5.4	5.2	5.7	5.4
	1.8	** [3]	0.4 [3,+]	1.9 ^[1,2]
42. How would you rate your department's budget in the Alway following areas?				
42a. Equipment				
Not adequate	48.6	52.0	49.5	48.6
Adequate	45.7	42.6	45.9	45.7
More than adequate	5.7	5.5	4.6	5.7
42b. Training				
Not adequate	39.1	40.1	41.4	39.1
Adequate	55.6	53.7	54.9	55.7
More than adequate	5.2	6.2	3.6	5.2
42c. Personnel				
Not adequate	51.5	56.7	55.9	51.4
Adequate	44.3	39.0	42.5	44.3
More than adequate	4.2	4.3	1.6 [3,+]	4.2 [2]

Exhibit B-6a.	Results from the Fire	Department Survey,	Percent Estimates by	y Fatality and FFFI	PP Investigation (continued)
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		Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.					
		26.8	8.2 [3]	11.1 ^[3]	27.1 ^[1,2]	
	One or two times per year	34.3	22.9 ^[2,3]	42.4 [1]	34.3 ^[1]	
Neve	erSeveral times per year	33.2	52.0 ^[3]	40.5	33.0 [1]	
	Once a month or more	5.7	16.9 [2,3]	6.0 ^[1]	5.6 ^[1]	
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.					
	By mail	56.0	65.7 ^[3]	66.4 ^[3]	55.8 ^[1,2]	
	On the Internet	24.7	51.6 [2,3]	35.5 ^[1,3]	24.4 ^[1,2]	
	From colleagues in other departments	10.0	15.5	11.6	9.9	
	At conferences or other meetings	6.9	13.5 ^[3]	11.5	6.8 ^[1]	
	Legitimately Skipped Question	26.8	8.2 [3]	11.0 [3]	27.1 ^[1,2]	
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?					
	Yes	53.3	83.1 ^[2,3]	68.6 ^[1,3]	53.0 ^[1,2]	
	No	20.0	8.6 [2,3]	20.5 [1]	20.1 ^[1]	
	Legitimately Skipped Question	26.6	8.3 [3]	10.9 [3]	26.9 ^[1,2]	
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?					
		60.7	82.4 [3]	79.8 [3]	60.3 [1,2]	
	No	12.1	9.3	8.9	12.1	
Yes	Legitimately Skipped Question	27.3	8.3 [3]	11.3 ^[3]	27.6 [1,2]	

			Fatality and FF	IPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	23.5	26.6	23.4	23.5
	Training sessions	44.2	56.1 ^[3]	58.4 ^[3]	44.0 ^[1,2]
	Provide copies of NIOSH reports to firefighters	16.2	33.8 ^[2,3]	21.0 [1]	16.0 ^[1]
	Provide copies of NIOSH report summaries to firefighters	6.2	12.9 ^[3]	12.1	6.1 ^[1]
	Provide summaries prepared by department to firefighters	1.8	5.6 [3]	3.1 [+]	1.8 ^[1]
	Postings on bulletin boards	38.5	51.2 ^[3]	47.6	38.3 [1]
	Post report on the department website	1.1	4.4 [3]	1.2 [+]	1.1 ^[1]
	Send message to firefighters by email	5.3	14.6 ^[3]	11.9 ^[3]	5.2 ^[1,2]
	Other	1.3	3.2	3.4 [+]	1.2
	Legitimately Skipped Question	39.1	17.7 ^[3]	20.0 [3]	39.4 ^[1,2]
51.	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		34.2	54.3 ^[3]	49.8 [3]	33.9 ^[1,2]
	No	38.4	37.2	38.9	38.4
Yes	Legitimately Skipped Question	27.4	8.5 [3]	11.3 [3]	27.7 ^[1,2]

		Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	0.5	3.4 [2]	* * [1,3]	0.5 [2]	
	Disagree	3.6	5.2	4.0	3.5	
	Neither Agree nor Disagree	18.7	17.1	25.2	18.6	
	Agree	45.6	61.3 [3]	55.1	45.4 ^[1]	
	Strongly Agree	3.7	4.6	4.1	3.7	
	Legitimately Skipped Question	28.0	8.4 [3]	11.5 ^[3]	28.3 ^[1,2]	
52b.	Recommendations are easy to understand					
	Strongly Disagree	0.4	1.9 [+]	** [3]	0.4 [2]	
	Disagree	1.7	1.4 [+]	3.0 [+]	1.7	
	Neither Agree nor Disagree	19.8	16.9	18.7	19.8	
	Agree	45.4	63.4 [3]	63.1 ^[3]	45.1 ^[1,2]	
	Strongly Agree	4.6	7.6	3.6	4.6	
	Legitimately Skipped Question	28.1	8.7 ^[3]	11.5 ^[3]	28.4 ^[1,2]	
52c.	Recommendations are specific and concrete					
	Strongly Disagree	0.4	1.9 [+]	* * [3]	0.4 [2]	
	Disagree	3.2	8.8 [2,3]	2.0 ^[1,+]	3.2 [1]	
	Neither Agree nor Disagree	26.6	20.3	31.1	26.6	

53.2 ^[3]

8.6 [3]

7.1

37.9

28.0

3.8

49.9 ^[3]

11.5 ^[3]

5.5

Exhibit B-6a. Results from the Fire Department Survey, Percent Estimates by Fatality and FFFIPP Investigation (continued)

37.7 [1,2]

3.8

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

Agree

Strongly Agree

Legitimately Skipped Question

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	57.4	68.3 ^[3]	67.4 ^[3]	57.2 ^[1,2]
	Respirator maintenance program guide	13.8	21.1 ^[3]	19.1	13.7 ^[1]
	CDs of firefighter program materials	28.0	47.9 ^[2,3]	32.8 [1]	27.8 ^[1]
	Alerts	31.7	48.4 [3]	41.7 ^[3]	31.5 ^[1,2]
	Hazard IDs	16.6	22.9	19.6	16.5
	Workplace Solutions	12.5	17.1	17.0	12.4
		0.8	* * [3]	0.8 [+]	0.8 [1]
	None. I have not seen any NIOSH materials.	25.2	10.2 [3]	14.0 [3]	25.4 ^[1,2]
53a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1.3	0.7 [+]	2.0 [+]	1.3
	Dissatisfied	0.2	0.7 [+]	* *	0.2 [+]
	Neither satisfied nor dissatisfied	21.2	7.9 ^[2,3]	22.5 ^[1]	21.3 ^[1]
	Satisfied	47.1	70.0 ^[2,3]	54.6 [1]	46.9 [1]
	Very satisfied	5.2	10.4	7.5	5.1
	Legitimately Skipped Question	24.9	10.4 [3]	13.3 ^[3]	25.2 ^[1,2]
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		59.4	24.2 [2,3]	44.7 ^[1,3]	59.8 ^[1,2]
	Yes, in the last year	34.5	66.6 ^[2,3]	46.1 ^[1,3]	34.2 [1,2]
No	Yes, longer than one year ago	6.1	9.2	9.2	6.0

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

			Fatality and FFF	[PP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
1.	Does your department have a Safety Officer?				
	Yes	(67.5.72.9)	(70.9.84.7)	(63.2, 81.4)	(67.3.72.9)
	No	(27.1, 32.5)	(15,3,29,1)	(18, 6, 36, 8)	(27.1, 32.7)
2.	Does your department have a Training Officer?	(27.17, 02.0)	(10.07 27.1)	(10.07 00.0)	(27.17 02.7)
	Yes	(86 4 90 3)	(88 4 96 8)	(81 8 95 2)	(86.3.90.3)
		(9 7 13 6)	(3, 2, 11, 6)	(4 8 18 2)	(97 137)
3. No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	(81.3, 85.8)	(85.8, 95.6)	(86.5, 96.2)	(81.1, 85.7)
	Maintenance of SCBAs	(66.9, 72.3)	(73.0, 86.8)	(58.4, 77.4)	(66.7, 72.3)
	Motor vehicle safety	(76.3, 81.2)	(84.1, 94.2)	(73.8, 89.1)	(76.1, 81.1)
	Participation in a personal physical fitness program	(9.6, 12.7)	(18.0, 32.1)	(11.8, 26.7)	(9.4, 12.6)
	Participation in regular health screenings for cardiovascular disease (CVD)	(14.9, 18.9)	(24.7, 40.3)	(17.0, 34.1)	(14.6, 18.8)
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	(37.7, 43.2)	(55.3, 71.8)	(45.3, 65.2)	(37.4, 42.9)
	Use of Personal Alert Safety System (PASS) devices	(72.7, 77.9)	(75.7, 88.7)	(61.9, 79.8)	(72.6, 77.9)
	Use of personal protective equipment and protective clothing	(87.1, 90.9)	(91.2, 98.5)	(82.4, 94.8)	(87.0, 90.8)
	Use of radio communications	(82.5, 86.8)	(84.9, 95.1)	(82.2, 93.3)	(82.4, 86.7)
	Other	(7.2, 10.5)	(5.6, 15.7)	(5.1, 16.9)	(7.2, 10.5)
	Does not apply. Our fire department does not use SOPs/SOGs.	(3.8, 6.5)	(**, **)	(0.3, 4.0)	(3.9, 6.6)

		Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?					
4a.	Fighting structure fires					
	No Training	(0.6, 2.0)	(0.5, 7.4)	(1.1, 10.3)	(0.6, 2.0)	
	Optional Training	(14.6, 19.1)	(4.1, 13.8)	(12.9, 30.1)	(14.6, 19.2)	
	Required Training	(80.4, 85.0)	(83.8, 94.6)	(66.1, 84.2)	(80.4, 85.0)	
4b.	Driving safety					
	No Training	(2.9, 5.3)	(0.7, 6.8)	(1.3, 10.2)	(2.9, 5.4)	
	Optional Training	(16.3, 21.1)	(2.9, 11.3)	(9.8, 25.0)	(16.4, 21.2)	
	Required Training	(75.1, 80.1)	(86.0, 95.5)	(70.9, 87.2)	(74.9, 80.0)	
4c.	Incident Command systems					
	No Training	(2.0, 4.1)	(0.4, 5.7)	(1.1, 9.5)	(2.0, 4.2)	
	Optional Training	(24.8, 30.2)	(7.5, 19.5)	(15.5, 32.9)	(24.9, 30.4)	
	Required Training	(67.1, 72.6)	(78.9, 91.4)	(63.7, 81.7)	(66.9, 72.4)	
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)					
	No Training	(5.2, 8.3)	(2.2, 12.1)	(2.7, 12.9)	(5.2, 8.3)	
	Optional Training	(30.8, 36.5)	(15.0, 29.4)	(24.3, 42.8)	(30.9, 36.6)	
	Required Training	(57.3, 63.1)	(64.8, 80.5)	(51.0, 70.2)	(57.2, 63.1)	
4e.	Rapid Intervention Teams (RITs)					
	No Training	(25.8, 31.3)	(5.6, 16.8)	(11.0, 27.2)	(26.0, 31.6)	
	Optional Training	(33.3, 39.2)	(22.1, 38.4)	(36.3, 56.3)	(33.2, 39.1)	
	Required Training	(32.8, 38.3)	(51.6, 68.8)	(27.3, 46.0)	(32.6, 38.2)	

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	(0.9, 2.4)	(0.1, 5.3)	(**, **)	(0.9, 2.4)
	Optional Training	(8.2, 11.8)	(3.3, 12.2)	(6.7, 20.1)	(8.2, 11.9)
	Required Training	(86.9, 90.7)	(86.8, 96.1)	(80.6, 93.8)	(86.8, 90.7)
4g.	Use of radio communication devices				
	No Training	(1.9, 3.8)	(0.6, 5.9)	(0.1, 2.7)	(1.9, 3.9)
	Optional Training	(19.0, 23.9)	(8.5, 20.4)	(14.1, 30.4)	(19.0, 24.0)
	Required Training	(73.6, 78.6)	(77.4, 89.9)	(69.2, 85.5)	(73.4, 78.6)
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	(82.6, 86.9)	(85.4, 94.9)	(79.4, 93.4)	(82.5, 86.9)
	Other officers within our department	(80.4, 85.0)	(85.6, 95.5)	(81.6, 93.8)	(80.2, 84.9)
	State fire training agency	(74.8, 79.8)	(74.8, 87.8)	(76.7, 91.1)	(74.7, 79.7)
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	(18.9, 23.1)	(34.9, 51.4)	(24.0, 42.1)	(18.6, 22.9)
	Conferences or regional meetings	(48.8, 54.6)	(58.0, 74.1)	(53.5, 72.7)	(48.5, 54.4)
	Other	(22.7, 27.8)	(18.0, 33.1)	(19.1, 36.6)	(22.7, 27.8)
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	(52.4, 58.2)	(51.6, 67.8)	(42.9, 62.4)	(52.4, 58.3)
	Scuba diving	(6.2, 9.1)	(9.5, 21.4)	(3.2, 13.9)	(6.1, 9.1)
	Swift water rescue	(9.6, 13.0)	(22.7, 38.0)	(5.6, 16.4)	(9.5, 12.9)
	Wildland fire fighting	(44.1, 49.9)	(32.4, 48.7)	(32.0, 51.4)	(44.2, 50.1)
	HAZMAT	(63.8, 69.4)	(75.0, 88.3)	(69.4, 85.2)	(63.6, 69.2)
	Other	(28.5, 33.9)	(28.8, 45.0)	(20.6, 37.8)	(28.5, 34.0)

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	(6.8, 10.2)	(0.8, 7.8)	(0.8, 7.9)	(6.8, 10.3)
	Not very familiar	(21.8, 27.0)	(3.7, 12.1)	(11.6, 27.2)	(22.0, 27.2)
	Somewhat familiar	(55.2, 61.0)	(40.0, 57.1)	(50.7, 69.8)	(55.2, 61.1)
	Very familiar	(7.8, 10.9)	(34.0, 50.7)	(12.3, 27.3)	(7.5, 10.6)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	(18.4, 23.3)	(3.5, 12.6)	(4.9, 17.5)	(18.6, 23.6)
	Not very familiar	(30.8, 36.4)	(7.1, 18.7)	(16.0, 31.8)	(31.0, 36.7)
	Somewhat familiar	(35.1, 40.7)	(30.8, 47.3)	(41.2, 60.7)	(34.9, 40.6)
	Very familiar	(6.5, 9.4)	(34.8, 51.4)	(10.4, 25.3)	(6.1, 9.1)
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	(64.9, 70.5)	(77.8, 89.8)	(64.0, 82.0)	(64.7, 70.3)
	National conference presentations	(2.8, 4.7)	(5.4, 14.9)	(3.3, 12.2)	(2.8, 4.6)
	State-level conference presentations	(9.7, 13.5)	(10.1, 21.9)	(5.1, 15.7)	(9.7, 13.5)
	Other firefighters or departments	(20.5, 25.5)	(18.0, 32.5)	(18.4, 35.8)	(20.4, 25.5)
	At seminars or other training opportunities (not conferences)	(14.3, 18.6)	(16.7, 30.8)	(18.3, 35.3)	(14.2, 18.5)
	Trade publications (such as Firehouse and Fire Engineering)	(44.3, 50.1)	(52.1, 68.7)	(48.0, 67.2)	(44.0, 49.9)
	NIOSH website	(22.0, 26.7)	(48.0, 65.0)	(25.1, 43.3)	(21.6, 26.4)
	Links from other websites (such as NFPA and Firehouse)	(25.7, 30.9)	(39.2, 56.0)	(26.4, 44.9)	(25.4, 30.7)
	Media reports-newspaper, television, radio	(12.9, 17.1)	(13.3, 26.8)	(11.0, 26.2)	(12.8, 17.1)
	Other	(0.7, 1.9)	(0.6, 5.9)	(2.1, 12.0)	(0.6, 1.8)
	Does not apply. We have not received information about NIOSH recommendations.	(9.3, 13.2)	(1.1, 7.5)	(1.2, 12.1)	(9.4, 13.4)
					(continued)

Appendix B — Post-Data Collection Methodology and Analysis Tables

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	(37.3, 43.1)	(59.4, 75.5)	(46.2, 65.9)	(36.9, 42.8)
	Developed new SOPs/SOGs	(23.8, 29.0)	(41.5, 58.8)	(28.3, 47.5)	(23.5, 28.8)
	Made changes to SOPs/SOGs	(32.2, 37.7)	(57.5, 74.0)	(41.2, 61.3)	(31.8, 37.4)
	Justified current budget/staffing	(4.0, 6.3)	(10.1, 22.5)	(4.8, 16.6)	(3.8, 6.3)
	Made new budget/staffing requests	(4.4, 6.8)	(14.3, 27.7)	(6.4, 19.7)	(4.2, 6.7)
	Justified grant applications	(13.5, 17.8)	(22.7, 38.7)	(14.6, 31.8)	(13.3, 17.6)
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(5.8, 16.6)	(11.1, 25.5)	(27.6, 33.3)
	Legitimately Skipped Question	(9.8, 13.9)	(1.1, 7.8)	(1.3, 12.8)	(9.9, 14.1)
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	(26.7, 32.1)	(41.3, 58.5)	(36.0, 56.0)	(26.3, 31.8)
	Personal protective equipment and clothing	(38.7, 44.5)	(51.0, 68.0)	(41.0, 60.9)	(38.4, 44.4)
	SCBA	(37.2, 43.0)	(47.8, 65.1)	(40.2, 59.9)	(36.9, 42.8)
	PASS systems	(29.9, 35.5)	(37.6, 54.8)	(30.1, 49.5)	(29.7, 35.3)
	Incident Command systems	(29.4, 34.9)	(37.7, 54.8)	(39.9, 60.0)	(29.1, 34.7)
	Radio communications	(20.7, 25.6)	(32.2, 49.1)	(29.6, 49.2)	(20.3, 25.4)
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(21.9, 36.9)	(10.0, 25.6)	(6.9, 10.0)
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(10.1, 22.3)	(3.4, 15.5)	(5.5, 8.5)
	Other	(1.6, 3.4)	(3.4, 12.2)	(0.6, 7.4)	(1.5, 3.4)
	Does not apply. We have not used NIOSH recommendations for training purposes.	(1.3, 2.9)	(0.7, 7.7)	(2.9, 12.8)	(1.2, 2.9)
	Legitimately Skipped Question	(38.9, 44.8)	(8.2, 20.2)	(14.4, 31.0)	(39.3, 45.3)

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	Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
	No	(76.4, 80.4)	(51.2, 67.5)	(62.2, 79.2)	(76.5, 80.6)
	Yes, it's required	(5.9, 8.3)	(12.9, 25.8)	(6.9, 19.7)	(5.7, 8.2)
	Yes, it's optional	(12.8, 16.4)	(15.8, 29.4)	(10.9, 24.6)	(12.7, 16.4)
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	(12.7, 16.6)	(9.0, 20.6)	(9.9, 23.7)	(12.7, 16.6)
	Less frequently than once a year	(5.8, 8.6)	(6.0, 16.2)	(4.7, 15.4)	(5.8, 8.6)
	One time a year	(15.2, 19.3)	(25.2, 41.0)	(16.7, 34.2)	(15.0, 19.2)
	More than one time a year	(0.1, 0.7)	(**, **)	(* * , * *)	(0.1, 0.7)
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(35.3, 52.3)	(41.5, 61.1)	(58.4, 63.8)
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
		(5.1, 8.0)	(0.7, 6.7)	(2.3, 11.5)	(5.1, 8.1)
	Yes, they receive training required by the department	(81.7, 86.0)	(86.3, 95.6)	(76.5, 90.3)	(81.6, 86.0)
No	Yes, they receive training required by the state	(23.3, 28.3)	(21.3, 36.5)	(13.6, 29.7)	(23.3, 28.4)
	Yes, they receive optional training	(11.8, 15.9)	(4.6, 13.8)	(9.2, 23.5)	(11.8, 16.0)
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	(12.2, 16.4)	(9.1, 21.7)	(7.8, 21.1)	(12.2, 16.4)
	Once every year	(37.5, 43.2)	(35.5, 52.5)	(27.6, 46.4)	(37.5, 43.3)
	Less frequently than once a year	(22.3, 27.3)	(19.9, 34.8)	(20.6, 38.4)	(22.2, 27.3)
	Does not apply. Firefighters are not required to receive continuing driver training.	(18.4, 23.2)	(9.9, 22.6)	(14.5, 31.1)	(18.4, 23.3)
					(continued)
		Fatality and FFFIPP Investigation			
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	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
	Yes	(81.9, 86.3)	(86.2, 95.7)	(79.6, 93.3)	(81.8, 86.2)
	No	(13.7, 18.1)	(4.3, 13.8)	(6.7, 20.4)	(13.8, 18.2)
17.	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	(5.5, 8.5)	(5.3, 15.1)	(1.4, 11.1)	(5.5, 8.5)
	Disagree	(15.8, 20.4)	(14.5, 28.2)	(8.5, 21.4)	(15.8, 20.5)
	Neither agree nor disagree	(28.2, 33.7)	(15.3, 29.7)	(25.9, 45.2)	(28.1, 33.7)
	Agree	(29.5, 34.9)	(29.2, 45.5)	(16.5, 33.2)	(29.5, 35.0)
	Strongly agree	(10.4, 14.2)	(7.4, 18.0)	(15.9, 33.2)	(10.3, 14.1)
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
	Never	(4.2, 6.9)	(1.5, 9.0)	(0.2, 7.6)	(4.2, 7.0)
	Some of the time	(20.3, 25.3)	(13.1, 26.4)	(23.4, 41.8)	(20.2, 25.3)
	About half the time	(14.8, 19.4)	(8.5, 20.4)	(9.1, 23.4)	(14.8, 19.4)
	Most of the time	(35.6, 41.3)	(30.5, 46.9)	(23.0, 41.4)	(35.6, 41.4)
	Always	(14.6, 18.7)	(18.9, 33.7)	(13.9, 29.3)	(14.4, 18.6)
21.	How often is Incident Command established when responding to structure fires?				
	Never	(1.5, 3.5)	(**, **)	(0.4, 7.8)	(1.5, 3.6)
	Rarely	(5.4, 8.5)	(1.5, 8.5)	(1.5, 9.1)	(5.4, 8.6)
	About half the time	(5.3, 8.4)	(0.8, 8.1)	(0.3, 4.1)	(5.4, 8.5)
	Most of the time	(25.0, 30.4)	(12.0, 25.1)	(12.2, 28.3)	(25.2, 30.6)
	Always	(53.7, 59.4)	(68.0, 82.7)	(64.7, 82.1)	(53.3, 59.2)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	(20.1, 25.1)	(4.4, 14.1)	(5.7, 18.1)	(20.3, 25.4)
	Not enough firefighters available at the scene of the fire	(18.8, 23.7)	(6.4, 17.6)	(8.2, 22.1)	(18.9, 23.9)
	Other	(5.0, 7.8)	(3.1, 12.1)	(2.1, 13.4)	(4.9, 7.9)
	Does not apply. My department always assigns an Incident Commander for structure fires.	(2.7, 4.9)	(1.1, 7.5)	(0.3, 5.1)	(2.7, 5.0)
	Legitimately Skipped Question	(53.7, 59.5)	(68.6, 83.2)	(66.1, 83.3)	(53.4, 59.2)
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	(89.1, 92.6)	(85.0, 94.8)	(84.5, 95.9)	(89.0, 92.6)
	Develop and coordinate the fire attack strategy	(91.4, 94.5)	(90.2, 98.0)	(85.3, 96.4)	(91.3, 94.5)
	Develop and initiate a risk management plan	(49.4, 55.3)	(56.8, 73.1)	(53.2, 72.4)	(49.1, 55.1)
	Document all assessments, plans and events related to the fire	(36.0, 41.7)	(38.7, 55.7)	(30.9, 50.1)	(35.8, 41.7)
	Ensure that at least four (4) firefighters are on the scene before entering the building	(65.7, 71.3)	(65.9, 81.1)	(57.0, 75.6)	(65.6, 71.3)
	Establish a collapse zone around the building	(46.1, 52.0)	(47.2, 64.2)	(43.7, 63.4)	(46.0, 52.0)
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	(45.7, 51.3)	(60.5, 76.5)	(49.8, 69.4)	(45.3, 51.1)
	Identify and implement a communication strategy	(61.9, 67.5)	(56.7, 72.9)	(54.9, 73.8)	(61.8, 67.6)
	Monitor location of all firefighters at the scene	(73.6, 78.7)	(76.5, 89.3)	(73.7, 88.5)	(73.4, 78.6)
	Other	(7.6, 10.9)	(5.7, 16.9)	(6.5, 19.4)	(7.5, 10.9)

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	(11.4, 15.5)	(2.4, 10.2)	(3.9, 17.1)	(11.5, 15.6)
	Some of the time	(24.0, 29.2)	(21.8, 36.6)	(20.2, 37.5)	(23.9, 29.2)
	About half the time	(6.6, 9.9)	(7.1, 19.2)	(3.3, 14.3)	(6.6, 9.9)
	Most of the time	(27.2, 32.5)	(18.8, 33.5)	(18.7, 36.8)	(27.2, 32.6)
	Always	(19.9, 24.9)	(22.0, 37.3)	(21.6, 39.3)	(19.8, 24.8)
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	(29.5, 35.1)	(14.5, 28.0)	(10.1, 24.2)	(29.7, 35.4)
	Not enough firefighters are available at the scene of the fire	(48.7, 54.6)	(34.8, 51.6)	(41.7, 61.4)	(48.7, 54.7)
	Other	(11.3, 15.1)	(14.1, 27.6)	(10.3, 24.7)	(11.2, 15.1)
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	(1.4, 3.0)	(1.1, 7.6)	(0.1, 5.4)	(1.4, 3.1)
	Legitimately Skipped Question	(20.3, 25.2)	(22.0, 37.3)	(21.9, 39.8)	(20.1, 25.2)
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	(26.7, 32.1)	(8.4, 20.7)	(11.3, 27.4)	(26.9, 32.4)
	Some of the time	(19.5, 24.3)	(8.9, 20.8)	(11.7, 27.3)	(19.5, 24.5)
	About half the time	(5.2, 8.0)	(4.8, 14.5)	(1.8, 12.2)	(5.2, 8.1)
	Most of the time	(20.2, 25.0)	(20.4, 36.0)	(13.0, 28.1)	(20.2, 25.1)
	Always	(17.8, 22.1)	(29.2, 45.4)	(30.3, 49.7)	(17.4, 21.8)

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	(7.8, 11.2)	(4.1, 13.8)	(2.8, 11.8)	(7.8, 11.3)
	When there are enough firefighters on and at the scene of the fire	(29.6, 35.1)	(21.6, 37.1)	(20.2, 37.8)	(29.6, 35.2)
	Whenever firefighters enter a burning building	(23.9, 29.1)	(21.0, 36.7)	(12.8, 28.4)	(23.9, 29.2)
	Other	(3.8, 6.3)	(3.0, 11.4)	(1.2, 8.2)	(3.8, 6.3)
	Legitimately Skipped Question	(46.4, 52.2)	(42.2, 59.3)	(48.0, 67.5)	(46.2, 52.2)
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	(32.1, 37.8)	(18.6, 33.6)	(16.0, 32.9)	(32.2, 38.1)
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	(7.2, 10.8)	(0.7, 6.8)	(1.4, 9.9)	(7.3, 10.9)
	We don't have enough firefighters available at the scene of the fire	(50.6, 56.5)	(33.3, 50.3)	(29.4, 48.5)	(50.8, 56.7)
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	(18.3, 23.2)	(6.4, 17.7)	(9.0, 24.7)	(18.4, 23.4)
	We have never established an RIT/RIC	(15.5, 20.1)	(3.6, 13.1)	(6.2, 20.5)	(15.6, 20.3)
	We use other fire departments in the area for RITs/RICs	(26.6, 32.0)	(15.4, 29.8)	(12.7, 28.2)	(26.7, 32.3)
	We use other safety practices and so we don't need them	(3.1, 5.7)	(0.6, 5.6)	(0.2, 7.7)	(3.1, 5.8)
	Other	(3.1, 5.4)	(4.2, 14.2)	(2.5, 12.5)	(3.0, 5.3)
	Legitimately Skipped Question	(18.1, 22.6)	(29.6, 46.0)	(30.5, 49.9)	(17.8, 22.3)
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
	Yes	(76.2, 81.1)	(87.3, 96.7)	(71.3, 88.4)	(76.0, 81.0)
	No	(18.9, 23.8)	(3.3, 12.7)	(11.6, 28.7)	(19.0, 24.0)
					(continued)

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
	Never	(4.9, 8.0)	(0.9, 8.1)	(5.8, 20.9)	(4.8, 8.0)
	Some of the time	(2.9, 5.3)	(0.1, 6.7)	(**, **)	(2.9, 5.4)
	About half the time	(1.2, 2.8)	(0.1, 4.8)	(0.4, 6.3)	(1.2, 2.9)
	Most of the time	(10.9, 15.0)	(2.2, 9.5)	(7.1, 21.5)	(11.0, 15.1)
	Always	(72.5, 77.6)	(84.7, 94.9)	(64.0, 82.6)	(72.4, 77.6)
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	(11.2, 15.4)	(1.3, 8.8)	(9.4, 26.1)	(11.2, 15.4)
	Situation doesn't require them	(7.9, 11.4)	(1.1, 7.9)	(5.1, 18.2)	(7.9, 11.5)
	Firefighters think the devices do not always work reliably	(0.1, 1.0)	(0.1, 4.4)	(0.1, 6.3)	(0.1, 1.0)
	Firefighters don't think they need them	(3.5, 5.9)	(0.1, 5.4)	(0.6, 11.3)	(3.5, 6.0)
	Devices go off while firefighters are resting	(2.7, 4.9)	(0.6, 5.7)	(0.6, 11.3)	(2.7, 4.9)
	Legitimately Skipped Question	(72.9, 78.0)	(85.3, 95.3)	(65.0, 83.5)	(72.7, 77.9)
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
	Yes	(98.4, 99.6)	(94.5, 99.7)	(90.1, 99.3)	(98.4, 99.6)
		(0.4, 1.6)	(0.3, 5.5)	(0.7, 9.9)	(0.4, 1.6)
33. No	Do your firefighters ever have to share facepieces for SCBAs?				
	Yes	(46.7, 52.7)	(26.8, 43.1)	(42.3, 63.2)	(46.8, 52.8)
	No	(46.5, 52.5)	(55.5, 71.8)	(34.1, 54.7)	(46.4, 52.5)
	Legitimately Skipped Question	(0.4, 1.6)	(0.4, 5.7)	(0.8, 11.1)	(0.4, 1.7)

Exhibit B-6b.	. Results from the Fire Department Survey, Confidence Interval Estimates by Fatality a	nd FFFIPP Investigation
	(continued)	_

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
33a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	(3.5, 6.3)	(0.4, 5.6)	(0.5, 8.3)	(3.6, 6.4)
	Firefighters don't like using the equipment	(0.1, 0.9)	(**, **)	(**, **)	(0.1, 0.9)
	Have never needed them (e.g., we don't do interior attacks)	(0.3, 1.5)	(**, **)	(0.2, 10.3)	(0.3, 1.5)
	They cost too much, there is not enough money in the budget	(29.0, 34.7)	(14.2, 28.3)	(21.5, 40.3)	(29.0, 34.8)
	We don't have enough equipment for all of our firefighters	(22.0, 27.3)	(13.2, 27.6)	(17.6, 36.3)	(22.0, 27.4)
	Shared systems work fine for our needs	(20.9, 26.2)	(9.3, 21.7)	(18.5, 37.9)	(20.9, 26.2)
	Other	(3.8, 6.5)	(2.2, 9.6)	(4.8, 16.2)	(3.8, 6.5)
	Legitimately Skipped Question	(47.4, 53.3)	(58.9, 75.1)	(37.0, 57.9)	(47.2, 53.3)
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	(0.6, 2.2)	(**, **)	(**, **)	(0.6, 2.2)
	Some of the time	(3.6, 6.2)	(0.9, 8.9)	(1.8, 14.0)	(3.5, 6.3)
	About half the time	(1.8, 3.9)	(**, **)	(**, **)	(1.9, 3.9)
	Most of the time	(22.0, 27.2)	(10.5, 23.1)	(13.4, 29.6)	(22.0, 27.4)
	Always	(63.3, 68.9)	(71.9, 85.9)	(61.3, 80.1)	(63.1, 68.8)
	Legitimately Skipped Question	(0.4, 1.6)	(0.4, 5.7)	(0.7, 10.6)	(0.4, 1.6)

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	(23.3, 28.6)	(12.3, 25.8)	(10.7, 26.4)	(23.4, 28.8)
	Firefighters do not trust that the SCBAs will work reliably	(**, **)	(**, **)	(**, **)	(**, **)
	Firefighters don't think they need them	(8.6, 12.3)	(3.4, 12.3)	(6.4, 19.5)	(8.6, 12.4)
	Firefighters don't like sharing facepieces with others	(0.5, 1.8)	(**, **)	(0.1, 6.9)	(0.5, 1.8)
	Firefighters are concerned that the SCBA may be or become contaminated	(**, **)	(**, **)	(**, **)	(**, **)
	Wearing SCBAs makes it more difficult to work	(4.6, 7.5)	(2.0, 10.1)	(4.9, 17.8)	(4.6, 7.5)
	Firefighters don't have SCBAs to use	(2.8, 5.4)	(**, **)	(**, **)	(2.9, 5.4)
	Legitimately Skipped Question	(64.9, 70.5)	(72.8, 86.6)	(64.4, 82.5)	(64.7, 70.4)
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	(39.7, 46.3)	(50.3, 68.4)	(43.2, 65.6)	(39.4, 46.1)
	Once a month or more	(16.5, 21.7)	(10.1, 24.3)	(8.6, 24.2)	(16.5, 21.8)
	Several times a year	(12.8, 17.5)	(4.5, 14.1)	(4.8, 19.0)	(12.8, 17.7)
	Once a year	(14.1, 19.1)	(8.1, 20.9)	(7.3, 23.3)	(14.1, 19.2)
	Less than once a year	(3.1, 5.9)	(**, **)	(0.8, 9.5)	(3.1, 6.0)
	Never. Maintenance has not been done on our SCBAs.	(0.8, 2.5)	(0.2, 8.7)	(0.1, 6.8)	(0.8, 2.5)
	Does not apply. My department does not have SCBAs.	(**, **)	(**, **)	(**, **)	(**, **)
	Legitimately Skipped Question	(0.5, 2.0)	(0.4, 6.5)	(0.9, 13.2)	(0.4, 2.0)
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	(15.5, 19.8)	(28.1, 44.5)	(17.0, 33.7)	(15.3, 19.6)
	Zero	(80.2, 84.5)	(55.5, 71.9)	(66.3, 83.0)	(80.4, 84.7)

			Fatality and FFF	IPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	(18.5, 23.6)	(4.9, 15.5)	(10.6, 27.6)	(18.6, 23.8)
	We didn't know they were available	(12.9, 17.5)	(3.5, 13.7)	(3.9, 15.3)	(13.0, 17.7)
	We don't have adequate technical information to purchase them	(17.3, 22.3)	(6.6, 18.8)	(7.3, 20.8)	(17.4, 22.5)
	We don't have adequate funding to purchase them	(57.2, 63.2)	(37.8, 55.4)	(43.4, 64.3)	(57.3, 63.4)
	Other	(3.7, 6.4)	(5.1, 15.3)	(6.9, 21.0)	(3.6, 6.3)
	Legitimately Skipped Question	(16.2, 20.6)	(29.0, 45.8)	(18.6, 36.7)	(15.9, 20.4)
38.	Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	(74.8, 79.9)	(81.7, 93.3)	(77.0, 91.7)	(74.6, 79.7)
	No	(20.1, 25.2)	(6.7, 18.3)	(8.3, 23.0)	(20.3, 25.4)
38a.	At your fire department, where do you have AEDs?				
	At the fire station(s)	(1.9, 4.1)	(0.2, 8.5)	(1.9, 13.3)	(1.9, 4.1)
	On the emergency vehicles (or apparatus)	(58.9, 64.9)	(65.8, 81.9)	(57.7, 77.7)	(58.7, 64.8)
	Both at the fire station(s) and on the vehicles (or apparatus)	(8.7, 12.3)	(6.8, 18.0)	(4.9, 16.6)	(8.7, 12.4)
	Legitimately Skipped Question	(22.2, 27.7)	(7.7, 20.7)	(10.1, 27.4)	(22.4, 27.9)
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
	After every time they are used	(11.7, 16.4)	(16.9, 32.7)	(10.6, 27.4)	(11.6, 16.3)
	Once a month or more	(22.6, 28.5)	(15.5, 31.4)	(12.7, 29.0)	(22.6, 28.7)
	Several times a year	(18.0, 23.4)	(13.8, 29.2)	(10.6, 27.4)	(17.9, 23.5)
	Once a year	(19.6, 25.3)	(17.1, 33.8)	(26.2, 47.2)	(19.4, 25.2)
	Less frequently than once a year	(5.8, 9.5)	(1.2, 8.3)	(1.5, 9.6)	(5.8, 9.6)
	Never. Maintenance on our AEDs has not been done.	(8.4, 12.8)	(2.5, 11.7)	(2.2, 13.5)	(8.4, 12.9)

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
	Never	(1.0, 2.6)	(0.2, 7.4)	(**, **)	(1.0, 2.7)
	Some of the time	(3.6, 6.1)	(**, **)	(2.6, 12.3)	(3.6, 6.2)
	About half the time	(1.8, 3.8)	(0.1, 4.4)	(**, **)	(1.8, 3.9)
	Most of the time	(18.3, 23.1)	(10.3, 23.4)	(19.4, 37.5)	(18.2, 23.1)
	Always	(67.7, 73.0)	(74.6, 88.3)	(56.5, 75.4)	(67.6, 73.0)
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed- over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
	Never	(15.9, 20.4)	(6.5, 16.7)	(10.1, 24.9)	(15.9, 20.5)
	Some of the time	(61.6, 67.3)	(67.0, 81.6)	(58.8, 77.1)	(61.5, 67.2)
	About half the time	(8.6, 12.2)	(5.5, 15.2)	(4.5, 17.1)	(8.6, 12.3)
	Most of the time	(4.2, 6.9)	(2.3, 11.3)	(2.7, 11.9)	(4.1, 6.9)
	Always	(1.1, 2.9)	(**, **)	(0.1, 2.9)	(1.2, 2.9)
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	(45.7, 51.6)	(43.5, 60.4)	(39.8, 59.2)	(45.6, 51.6)
	Adequate	(42.8, 48.6)	(34.4, 51.1)	(36.5, 55.7)	(42.7, 48.7)
	More than adequate	(4.5, 7.2)	(2.7, 10.8)	(1.8, 11.3)	(4.5, 7.2)
42b.	Training				
	Not adequate	(36.3, 42.0)	(32.1, 48.7)	(32.1, 51.4)	(36.2, 42.1)
	Adequate	(52.7, 58.6)	(45.2, 62.0)	(45.1, 64.5)	(52.7, 58.6)
	More than adequate	(4.0, 6.8)	(3.2, 11.8)	(1.6, 7.9)	(4.0, 6.8)

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			Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
42c.	Personnel					
	Not adequate	(48.5, 54.5)	(48.0, 64.9)	(45.9, 65.5)	(48.4, 54.5)	
	Adequate	(41.3, 47.3)	(31.0, 47.7)	(33.0, 52.6)	(41.3, 47.4)	
	More than adequate	(3.1, 5.7)	(1.9, 9.6)	(0.5, 5.1)	(3.1, 5.7)	
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.					
	Never	(24.2, 29.5)	(4.6, 14.4)	(6.4, 18.5)	(24.5, 29.9)	
	One or two times per year	(31.6, 37.2)	(16.7, 30.5)	(33.0, 52.4)	(31.5, 37.2)	
	Several times per year	(30.5, 35.9)	(43.6, 60.3)	(31.1, 50.7)	(30.3, 35.8)	
	Once a month or more	(4.5, 7.2)	(11.6, 24.0)	(2.7, 13.0)	(4.4, 7.2)	
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.					
	By mail	(53.1, 58.9)	(57.3, 73.2)	(56.6, 75.0)	(52.8, 58.8)	
	On the Internet	(22.4, 27.1)	(43.1, 60.0)	(26.6, 45.6)	(22.0, 26.9)	
	From colleagues in other departments	(8.3, 11.8)	(10.3, 22.6)	(6.5, 20.0)	(8.2, 11.8)	
	At conferences or other meetings	(5.7, 8.5)	(8.7, 20.2)	(6.6, 19.2)	(5.6, 8.4)	
	Legitimately Skipped Question	(24.2, 29.5)	(4.6, 14.4)	(6.4, 18.3)	(24.5, 29.9)	
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?					
	Yes	(50.4, 56.2)	(75.4, 88.8)	(59.0, 76.8)	(50.0, 55.9)	
	No	(17.8, 22.5)	(4.6, 15.4)	(13.7, 29.6)	(17.8, 22.6)	
	Legitimately Skipped Question	(24.1, 29.4)	(4.6, 14.5)	(6.3, 18.2)	(24.3, 29.7)	

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
	Yes	(57.7, 63.5)	(74.9, 88.1)	(71.0, 86.4)	(57.3, 63.2)
	No	(10.2, 14.1)	(5.4, 15.5)	(4.7, 16.1)	(10.3, 14.2)
	Legitimately Skipped Question	(24.7, 30.0)	(4.6, 14.5)	(6.5, 18.8)	(24.9, 30.4)
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	(21.1, 26.1)	(19.7, 34.9)	(15.9, 33.1)	(21.0, 26.2)
	Training sessions	(41.3, 47.2)	(47.5, 64.3)	(48.4, 67.7)	(41.0, 47.0)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(26.2, 42.3)	(14.1, 30.1)	(14.0, 18.2)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(8.1, 20.1)	(6.9, 20.5)	(4.9, 7.6)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(2.8, 10.9)	(0.8, 10.8)	(1.1, 2.7)
	Postings on bulletin boards	(35.6, 41.3)	(42.7, 59.7)	(37.8, 57.6)	(35.4, 41.2)
	Post report on the department website	(0.7, 1.8)	(2.1, 9.1)	(0.2, 8.2)	(0.7, 1.8)
	Send message to firefighters by email	(4.3, 6.5)	(9.7, 21.4)	(6.8, 20.1)	(4.2, 6.4)
	Other	(0.8, 2.0)	(1.3, 7.6)	(1.2, 9.1)	(0.7, 2.0)
	Legitimately Skipped Question	(36.2, 42.0)	(12.0, 25.2)	(13.4, 28.7)	(36.5, 42.4)
51.	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
	Yes	(31.6, 36.9)	(45.6, 62.8)	(39.9, 59.8)	(31.3, 36.7)
	No	(35.5, 41.3)	(29.1, 46.0)	(29.6, 49.1)	(35.5, 41.4)
	Legitimately Skipped Question	(24.8, 30.2)	(4.7, 14.9)	(6.5, 18.7)	(25.1, 30.5)

QuestionTotalFatality with InvestigationFatality without InvestigationNo52. NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:	
52. NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations: 52a. Recommendations are practical Strongly Disagree Disagree nor Disagree Strongly Agree Strongly Agree Disagree Commendations are easy to understand Strongly Disagree Strongly Agree Strongly Agree Strongly Disagree Strongly Agree Strongly Agree Strongly Disagree Strongly Agree Strongly Agree Strongly Disagree Strongly Agree Strongly Disagree Strongly Agree Strongly Disagree <l< th=""><th>atality</th></l<>	atality
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52b. Recommendations are easy to understand (0.2, 1.0) (0.6, 5.9) (**, **) (0. Strongly Disagree (1.1, 2.6) (0.4, 5.6) (1.0, 8.4) (1. Neither Agree nor Disagree (17.5, 22.3) (11.1, 24.8) (11.9, 28.2) (17. Agree (42.4, 48.4) (54.6, 71.4) (53.1, 72.2) (42. Strongly Agree (3.5, 6.1) (4.2, 13.4) (1.5, 8.5) (3. Legitimately Skipped Question (25.4, 30.9) (4.8, 15.2) (6.7, 19.2) (25.4)	5, 31.1)
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52c. Recommendations are specific and concrete	7, 31.2)
Strongly Disagree (0.2, 1.0) (0.6, 5.9) (**, **) (0.	2, 1.0)
Disagree (2.3, 4.4) (5.0, 14.9) (0.5, 6.9) (2.	3, 4.4)
Neither Agree nor Disagree (24.0, 29.4) (14.1, 28.4) (22.6, 41.2) (24.0, 29.4)), 29.4)
Agree (35.0, 40.8) (44.5, 61.7) (39.8, 59.9) (34	3, 40.6)
Strongly Agree (2.8, 5.2) (3.8, 12.9) (2.5, 11.9) (2.	3, 5.2)
Legitimately Skipped Question (25.4, 30.8) (4.8, 15.1) (6.7, 19.1) (25.4)	5, 31.2)

Appendix B — Post-Data Collection Methodology and Analysis Tables

Exhibit B-6b.	Results from the Fire Department Survey,	Confidence Interval Esti	imates by Fatality and	FFFIPP Investigation
	(continued)			

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	(54.4, 60.4)	(59.7, 75.9)	(57.2, 76.2)	(54.2, 60.2)
	Respirator maintenance program guide	(11.9, 15.9)	(14.9, 28.9)	(12.6, 27.9)	(11.8, 15.8)
	CDs of firefighter program materials	(25.4, 30.7)	(39.3, 56.5)	(24.1, 42.7)	(25.2, 30.6)
	Alerts	(29.1, 34.5)	(39.9, 57.1)	(32.4, 51.8)	(28.8, 34.3)
	Hazard IDs	(14.5, 19.0)	(16.5, 30.8)	(12.7, 28.9)	(14.4, 18.9)
	Workplace Solutions	(10.7, 14.6)	(11.7, 24.3)	(10.7, 25.8)	(10.6, 14.5)
	Other	(0.4, 1.4)	(* * , * *)	(0.2, 3.3)	(0.4, 1.4)
	None. I have not seen any NIOSH materials.	(22.6, 27.9)	(6.0, 17.0)	(8.1, 23.2)	(22.8, 28.2)
53a.	How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	(0.8, 2.2)	(0.1, 4.7)	(0.6, 6.3)	(0.8, 2.2)
	Dissatisfied	(0.0, 0.7)	(0.1, 4.6)	(**, **)	(0.0, 0.8)
	Neither satisfied nor dissatisfied	(18.8, 23.8)	(4.2, 14.2)	(15.1, 32.2)	(18.9, 23.9)
	Satisfied	(44.1, 50.1)	(61.3, 77.5)	(44.6, 64.3)	(43.9, 49.9)
	Very satisfied	(4.0, 6.7)	(6.0, 17.3)	(3.7, 15.0)	(4.0, 6.6)
	Legitimately Skipped Question	(22.4, 27.7)	(6.1, 17.3)	(7.6, 22.3)	(22.6, 28.0)
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
	No	(56.5, 62.2)	(17.5, 32.4)	(35.1, 54.7)	(56.9, 62.6)
	Yes, in the last year	(31.9, 37.3)	(58.0, 74.2)	(36.5, 56.0)	(31.5, 37.0)
	Yes, longer than one year ago	(4.9, 7.6)	(5.3, 15.4)	(4.5, 17.8)	(4.8, 7.6)

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
1.	Does your department have a Safety Officer?					
		1,587	139	119	1,329	
		1,587	139	119	1,329	
2es	Does your department have a Training Officer?					
No		1,600	139	118	1,343	
		1,600	139	118	1,343	
Ses No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.					
	Incident Command Systems	1,600	140	117	1,343	
	Maintenance of SCBAs	1,600	140	117	1,343	
	Motor vehicle safety	1,600	140	117	1,343	
	Participation in a personal physical fitness program	1,600	140	117	1,343	
	Participation in regular health screenings for cardiovascular disease (CVD)	1,600	140	117	1,343	
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	1,600	140	117	1,343	
	Use of Personal Alert Safety System (PASS) devices	1,600	140	117	1,343	
	Use of personal protective equipment and protective clothing	1,600	140	117	1,343	
	Use of radio communications	1,600	140	117	1,343	
		1,600	140	117	1,343	
	Does not apply. Our fire department does not use SOPs/SOGs.	1,600	140	117	1,343	
Othe	۰. ۲		·		(continued)	

Other

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?				
4a.	Fighting structure fires				
	No Training	1,607	139	119	1,349
	Optional Training	1,607	139	119	1,349
	Required Training	1,607	139	119	1,349
4b.	Driving safety				
	No Training	1,598	138	119	1,341
	Optional Training	1,598	138	119	1,341
	Required Training	1,598	138	119	1,341
4c.	Incident Command systems				
	No Training	1,584	137	118	1,329
	Optional Training	1,584	137	118	1,329
	Required Training	1,584	137	118	1,329
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	1,581	135	119	1,327
	Optional Training	1,581	135	119	1,327
	Required Training	1,581	135	119	1,327
4e.	Rapid Intervention Teams (RITs)				
	No Training	1,511	131	114	1,266
	Optional Training	1,511	131	114	1,266
	Required Training	1,511	131	114	1,266

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	1,611	140	119	1,352
	Optional Training	1,611	140	119	1,352
	Required Training	1,611	140	119	1,352
4g.	Use of radio communication devices				
	No Training	1,606	139	119	1,348
	Optional Training	1,606	139	119	1,348
	Required Training	1,606	139	119	1,348
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	1,611	140	118	1,353
	Other officers within our department	1,611	140	118	1,353
	State fire training agency	1,611	140	118	1,353
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	1,611	140	118	1,353
	Conferences or regional meetings	1,611	140	118	1,353
		1,611	140	118	1,353
6. Othe	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	1,622	141	121	1,360
	Scuba diving	1,622	141	121	1,360
	Swift water rescue	1,622	141	121	1,360
	Wildland fire fighting	1,622	141	121	1,360
	HAZMAT	1,622	141	121	1,360
		1,622	141	121	1,360

Other

(continued)

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			Estality and EE	ETDD Investigation	
					T
	Question	T	Fatality with	Fatality without	
	Question	lotal	Investigation	Investigation	No Fatality
8.	How familiar are you with the National Institute for				
	Occupational Safety and Health (NIOSH)?				
	Not at all familiar	1,610	138	121	1,351
	Not very familiar	1,610	138	121	1,351
	Somewhat familiar	1,610	138	121	1,351
	Very familiar	1,610	138	121	1,351
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	1,611	138	121	1,352
	Not very familiar	1,611	138	121	1,352
	Somewhat familiar	1,611	138	121	1,352
	Very familiar	1,611	138	121	1,352
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	1,609	139	121	1,349
	National conference presentations	1,609	139	121	1,349
	State-level conference presentations	1,609	139	121	1,349
	Other firefighters or departments	1,609	139	121	1,349
	At seminars or other training opportunities (not conferences)	1,609	139	121	1,349
	Trade publications (such as Firehouse and Fire Engineering)	1,609	139	121	1,349
	NIOSH website	1,609	139	121	1,349
	Links from other websites (such as NFPA and Firehouse)	1,609	139	121	1,349
	Media reports-newspaper, television, radio	1.609	139	121	1.349
	······································	1.609	139	121	1.349
Othe	Does not apply. We have not received information about NIOSH recommendations.	1,609	139	121	1,349

			Fatality and FF	FIPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	1,536	134	114	1,288
	Developed new SOPs/SOGs	1,536	134	114	1,288
	Made changes to SOPs/SOGs	1,536	134	114	1,288
	Justified current budget/staffing	1,536	134	114	1,288
	Made new budget/staffing requests	1,536	134	114	1,288
	Justified grant applications	1,536	134	114	1,288
	Does not apply. We have not used NIOSH recommendations.	1,536	134	114	1,288
	Legitimately Skipped Question	1,536	134	114	1,288
110.	you have used for training purposes? If so, MARK ALL				
	Traffic hazards	1,530	133	113	1,284
	Personal protective equipment and clothing	1,530	133	113	1,284
		1,530	133	113	1,284
	PASS systems	1,530	133	113	1,284
SCBA	A Incident Command systems	1,530	133	113	1,284
	Radio communications	1,530	133	113	1,284
	Physical fitness and cardiovascular disease (CVD)	1,530	133	113	1,284
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	133	113	1,284
		1,530	133	113	1,284
Othe	Does not apply. We have not used NIOSH recommendations for raining purposes.	1,530	133	113	1,284
	Legitimately Skipped Question	1,530	133	113	1,284

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		1,596	137	118	1,341
	Yes, it's required	1,596	137	118	1,341
No	Yes, it's optional	1,596	137	118	1,341
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	1,582	134	121	1,327
	Less frequently than once a year	1,582	134	121	1,327
	One time a year	1,582	134	121	1,327
	More than one time a year	1,582	134	121	1,327
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	134	121	1,327
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	1,616	139	121	1,356
	Yes, they receive training required by the department	1,616	139	121	1,356
	Yes, they receive training required by the state	1,616	139	121	1,356
	Yes, they receive optional training	1,616	139	121	1,356
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	1,611	137	121	1,353
	Once every year	1,611	137	121	1,353
	Less frequently than once a year	1,611	137	121	1,353
	Does not apply. Firefighters are not required to receive continuing driver training.	1,611	137	121	1,353

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		1,613	140	119	1,354
		1,613	140	119	1,354
177 5 No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	1,603	139	117	1,347
	Disagree	1,603	139	117	1,347
	Neither agree nor disagree	1,603	139	117	1,347
	Agree	1,603	139	117	1,347
	Strongly agree	1,603	139	117	1,347
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		1,616	140	121	1,355
	Some of the time	1,616	140	121	1,355
Neve	erAbout half the time	1,616	140	121	1,355
	Most of the time	1,616	140	121	1,355
	Always	1,616	140	121	1,355
21.	How often is Incident Command established when responding to structure fires?				
		1,604	139	120	1,345
	Rarely	1,604	139	120	1,345
Neve	erAbout half the time	1,604	139	120	1,345
	Most of the time	1,604	139	120	1,345
	Always	1,604	139	120	1,345

Exhibit B-6c.	Results from the Fire De	partment Survey, Sam	ple Sizes by Fatality	y and FFFIPP Investigat	ion (continued)
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		1			
			Fatality and FF	FIPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	1,600	138	118	1,344
	Not enough firefighters available at the scene of the fire	1,600	138	118	1,344
		1,600	138	118	1,344
Othe	Does not apply. My department always assigns an Incident r Commander for structure fires.	1,600	138	118	1,344
	Legitimately Skipped Question	1,600	138	118	1,344
23.	When Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.				
	Conduct an initial assessment before the other firefighters begin entering the building	1,588	138	119	1,331
	Develop and coordinate the fire attack strategy	1,588	138	119	1,331
	Develop and initiate a risk management plan	1,588	138	119	1,331
	Document all assessments, plans and events related to the fire	1,588	138	119	1,331
	Ensure that at least four (4) firefighters are on the scene before entering the building	1,588	138	119	1,331
	Establish a collapse zone around the building	1,588	138	119	1,331
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	1,588	138	119	1,331
	Identify and implement a communication strategy	1,588	138	119	1,331
	Monitor location of all firefighters at the scene	1,588	138	119	1,331
		1,588	138	119	1,331

Other

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	1,605	139	119	1,347
	Some of the time	1,605	139	119	1,347
	About half the time	1,605	139	119	1,347
	Most of the time	1,605	139	119	1,347
	Always	1,605	139	119	1,347
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	1,588	139	117	1,332
	Not enough firefighters are available at the scene of the fire	1,588	139	117	1,332
		1,588	139	117	1,332
Othe	Does not apply. Our Incident Commanders always assign an r Incident Safety Officer for structure fires.	1,588	139	117	1,332
	Legitimately Skipped Question	1,588	139	117	1,332
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	1,602	138	117	1,347
	Some of the time	1,602	138	117	1,347
	About half the time	1,602	138	117	1,347
	Most of the time	1,602	138	117	1,347
	Always	1,602	138	117	1,347

			Fatality and FF	FIPP Investigation	
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	1,600	137	117	1,346
	When there are enough firefighters on and at the scene of the fire	1,600	137	117	1,346
	Whenever firefighters enter a burning building	1,600	137	117	1,346
		1,600	137	117	1,346
	Legitimately Skipped Question	1,600	137	117	1,346
28 16	r What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	1,575	136	117	1,322
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	1,575	136	117	1,322
	We don't have enough firefighters available at the scene of the fire	1,575	136	117	1,322
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	1,575	136	117	1,322
	We have never established an RIT/RIC	1,575	136	117	1,322
	We use other fire departments in the area for RITs/RICs	1,575	136	117	1,322
	We use other safety practices and so we don't need them	1,575	136	117	1,322
		1,575	136	117	1,322
	Legitimately Skipped Question	1,575	136	117	1,322
29 he	r Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		1,606	140	117	1,349
		1,606	140	117	1,349

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

Yes

No

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		1,600	139	116	1,345
	Some of the time	1,600	139	116	1,345
Neve	erAbout half the time	1,600	139	116	1,345
	Most of the time	1,600	139	116	1,345
	Always	1,600	139	116	1,345
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	1,590	138	115	1,337
	Situation doesn't require them	1,590	138	115	1,337
	Firefighters think the devices do not always work reliably	1,590	138	115	1,337
	Firefighters don't think they need them	1,590	138	115	1,337
	Devices go off while firefighters are resting	1,590	138	115	1,337
	Legitimately Skipped Question	1,590	138	115	1,337
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		1,606	140	117	1,349
		1,606	140	117	1,349
33 56 No	Do your firefighters ever have to share facepieces for SCBAs?				
		1,521	135	105	1,281
		1,521	135	105	1,281
Yes	Legitimately Skipped Question	1,521	135	105	1,281

No

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
33a. What are the have persona firefighters?	reasons why your fire department does not lly-fitted SCBA facepieces for all of your MARK ALL THAT APPLY.				
Didn't know it	was recommended	1,517	132	105	1,280
Firefighters do	n't like using the equipment	1,517	132	105	1,280
Have never nee	eded them (e.g., we don't do interior attacks)	1,517	132	105	1,280
They cost too r	nuch, there is not enough money in the budget	1,517	132	105	1,280
We don't have	enough equipment for all of our firefighters	1,517	132	105	1,280
Shared system	s work fine for our needs	1,517	132	105	1,280
		1,517	132	105	1,280
Legitimately Si	kipped Question	1,517	132	105	1,280
Ba her About how of while fighting	ten do you think your firefighters use SCBAs J structure fires?				
Never		1,536	135	110	1,291
Some of the tir	ne	1,536	135	110	1,291
About half the	time	1,536	135	110	1,291
Most of the tim	e	1,536	135	110	1,291
Always		1,536	135	110	1,291
Legitimately Si	kipped Question	1,536	135	110	1,291
35. Why do you t often when fi APPLY.	hink your firefighters do not use SCBAs more ghting structure fires? MARK ALL THAT				
Situation does	n't require them	1,525	136	110	1,279
Firefighters do	not trust that the SCBAs will work reliably	1,525	136	110	1,279
Firefighters do	n't think they need them	1,525	136	110	1,279
Firefighters dor	n't like sharing facepieces with others	1,525	136	110	1,279
Firefighters are contaminated	concerned that the SCBA may be or become	1,525	136	110	1,279
Wearing SCBAs	s makes it more difficult to work	1,525	136	110	1,279
Firefighters do	n't have SCBAs to use	1,525	136	110	1,279
Legitimately Si	kipped Question	1,525	136	110	1,279

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	1,270	119	88	1,063
	Once a month or more	1,270	119	88	1,063
	Several times a year	1,270	119	88	1,063
	Once a year	1,270	119	88	1,063
	Less than once a year	1,270	119	88	1,063
	Never. Maintenance has not been done on our SCBAs.	1,270	119	88	1,063
	Does not apply. My department does not have SCBAs.	1,270	119	88	1,063
	Legitimately Skipped Question	1,270	119	88	1,063
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	1,518	131	116	1,271
		1,518	131	116	1,271
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	1,454	128	105	1,221
	We didn't know they were available	1,454	128	105	1,221
	We don't have adequate technical information to purchase them	1,454	128	105	1,221
	We don't have adequate funding to purchase them	1,454	128	105	1,221
		1,454	128	105	1,221
	Legitimately Skipped Question	1,454	128	105	1,221
38 he	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	1,610	139	121	1,350
		1,610	139	121	1,350

(continued)

No

		Fatality and FFFIPP Investigation				
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality	
38a.	At your fire department, where do you have AEDs?					
	At the fire station(s)	1,424	121	102	1,201	
	On the emergency vehicles (or apparatus)	1,424	121	102	1,201	
	Both at the fire station(s) and on the vehicles (or apparatus)	1,424	121	102	1,201	
	Legitimately Skipped Question	1,424	121	102	1,201	
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?					
	After every time they are used	1,235	112	100	1,023	
	Once a month or more	1,235	112	100	1,023	
	Several times a year	1,235	112	100	1,023	
	Once a year	1,235	112	100	1,023	
	Less frequently than once a year	1,235	112	100	1,023	
	Never. Maintenance on our AEDs has not been done.	1,235	112	100	1,023	
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?					
		1,610	140	118	1,352	
	Some of the time	1,610	140	118	1,352	
Neve	rAbout half the time	1,610	140	118	1,352	
	Most of the time	1,610	140	118	1,352	
	Always	1,610	140	118	1,352	

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
41.	Some radios and other two-way communication devices can have problems under field conditions, such as bleed- over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		1,612	141	121	1,350
	Some of the time	1,612	141	121	1,350
Neve	rAbout half the time	1,612	141	121	1,350
	Most of the time	1,612	141	121	1,350
	Always	1,612	141	121	1,350
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	1,608	139	121	1,348
	Adequate	1,608	139	121	1,348
	More than adequate	1,608	139	121	1,348
42b.	Training				
	Not adequate	1,608	139	121	1,348
	Adequate	1,608	139	121	1,348
	More than adequate	1,608	139	121	1,348
42c.	Personnel				
	Not adequate	1,551	137	117	1,297
	Adequate	1,551	137	117	1,297
	More than adequate	1,551	137	117	1,297

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		1,605	140	119	1,346
	One or two times per year	1,605	140	119	1,346
Neve	erSeveral times per year	1,605	140	119	1,346
	Once a month or more	1,605	140	119	1,346
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	1,605	140	120	1,345
	On the Internet	1,605	140	120	1,345
	From colleagues in other departments	1,605	140	120	1,345
	At conferences or other meetings	1,605	140	120	1,345
	Legitimately Skipped Question	1,605	140	120	1,345
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	1,611	139	121	1,351
		1,611	139	121	1,351
	Legitimately Skipped Question	1,611	139	121	1,351
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		1,583	139	117	1,327
		1,583	139	117	1,327
Yes	Legitimately Skipped Question	1,583	139	117	1,327
No			•		(continued)

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No

	Fatality and FFFIPP Investigation			
Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
50a. How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
Regular staff meetings	1,585	138	118	1,329
Training sessions	1,585	138	118	1,329
Provide copies of NIOSH reports to firefighters	1,585	138	118	1,329
Provide copies of NIOSH report summaries to firefighters	1,585	138	118	1,329
Provide summaries prepared by department to firefighters	1,585	138	118	1,329
Postings on bulletin boards	1,585	138	118	1,329
Post report on the department website	1,585	138	118	1,329
Send message to firefighters by email	1,585	138	118	1,329
	1,585	138	118	1,329
Legitimately Skipped Question	1,585	138	118	1,329
5 ther The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
	1,564	135	117	1,312
	1,564	135	117	1,312
Yes Legitimately Skipped Question	1,564	135	117	1,312

No

(continued)

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		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	1,547	138	115	1,294
	Disagree	1,547	138	115	1,294
	Neither Agree nor Disagree	1,547	138	115	1,294
	Agree	1,547	138	115	1,294
	Strongly Agree	1,547	138	115	1,294
	Legitimately Skipped Question	1,547	138	115	1,294
52b.	Recommendations are easy to understand				
	Strongly Disagree	1,537	133	115	1,289
	Disagree	1,537	133	115	1,289
	Neither Agree nor Disagree	1,537	133	115	1,289
	Agree	1,537	133	115	1,289
	Strongly Agree	1,537	133	115	1,289
	Legitimately Skipped Question	1,537	133	115	1,289
52c.	Recommendations are specific and concrete				
	Strongly Disagree	1,537	134	114	1,289
	Disagree	1,537	134	114	1,289
	Neither Agree nor Disagree	1,537	134	114	1,289
	Agree	1,537	134	114	1,289
	Strongly Agree	1,537	134	114	1,289
	Legitimately Skipped Question	1,537	134	114	1,289

		Fatality and FFFIPP Investigation			
	Question	Total	Fatality with Investigation	Fatality without Investigation	No Fatality
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	1,537	134	117	1,286
	Respirator maintenance program guide	1,537	134	117	1,286
	CDs of firefighter program materials	1,537	134	117	1,286
	Alerts	1,537	134	117	1,286
	Hazard IDs	1,537	134	117	1,286
	Workplace Solutions	1,537	134	117	1,286
		1,537	134	117	1,286
	None. I have not seen any NIOSH materials.	1,537	134	117	1,286
53a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1,536	132	119	1,285
	Dissatisfied	1,536	132	119	1,285
	Neither satisfied nor dissatisfied	1,536	132	119	1,285
	Satisfied	1,536	132	119	1,285
	Very satisfied	1,536	132	119	1,285
	Legitimately Skipped Question	1,536	132	119	1,285
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		1,589	139	119	1,331
	Yes, in the last year	1,589	139	119	1,331
No	Yes, longer than one year ago	1,589	139	119	1,331

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
1.	Does your department have a Safety Officer?				
		70.3	77.4	73.7	70.2
		29.7	22.6	26.3	29.8
2es	Does your department have a Training Officer?				
No		88.5	92.4	91.2	88.4
		11.5	7.6	8.8	11.6
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	83.7	91.0 ^[3]	93.5 ^[3]	83.6 [1,2]
	Maintenance of SCBAs	69.7	72.2	74.8	69.6
	Motor vehicle safety	78.8	89.3 [3]	82.8	78.7 ^[1]
	Participation in a personal physical fitness program	11.0	25.7 ^[3]	16.2	10.9 ^[1]
	Participation in regular health screenings for cardiovascular disease (CVD)	16.8	31.2 ^[3]	24.5	16.6 ^[1]
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	40.4	56.6 ^[3]	60.9 [3]	40.1 ^[1,2]
	Use of Personal Alert Safety System (PASS) devices	75.4	71.2	80.8	75.3
	Use of personal protective equipment and protective clothing	89.1	91.4	93.8	89.1
	Use of radio communications	84.8	87.0	92.3 ^[3]	84.7 [2]
	Other	8.7	9.2	9.8	8.7
	Does not apply. Our fire department does not use SOPs/SOGs.	5.0	1.3 ^[3,+]	** [3]	5.1 ^[1,2]

Exhibit B-7a. Results from the Fire Department Survey, Percent Estimates by Type of Fatality

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires				
	No Training	1.1	5.5	0.6 [+]	1.1
	Optional Training	16.7	11.7	18.2	16.8
	Required Training	82.8	82.9	81.2	82.8
4b.	Driving safety				
	No Training	3.9	3.0 [+]	3.2 [+]	3.9
	Optional Training	18.6	7.0 [3]	16.1	18.7 ^[1]
	Required Training	77.7	89.9 ^[3]	80.7	77.6 ^[1]
4c.	Incident Command systems				
	No Training	2.9	1.7 [+]	3.2 [+]	2.9
	Optional Training	27.4	17.8 [3]	19.7	27.5 [1]
	Required Training	69.9	80.5 ^[3]	77.1	69.7 ^[1]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	6.6	11.8 [2]	0.5 [1,3,+]	6.6 [2]
	Optional Training	33.6	26.1	30.3	33.7
	Required Training	60.3	62.1	69.2	60.2
4e.	Rapid Intervention Teams (RITs)				
	No Training	28.5	16.2 ^[3]	13.1 ^[3]	28.8 [1,2]
	Optional Training	36.2	35.4	43.3	36.1
	Required Training	35.5	48.4 [3]	43.6	35.4 [1]

Exhibit B-7a. Results from the Fire Department Survey, Percent Estimates by Type of Fatality (continued)

	Question	Type of Fatality					
		Total	Traumatic	Cardiovascular	No Fatality		
4f.	Use of personal protective equipment and/or protective clothing						
	No Training	1.5	** [3]	0.6 [+]	1.5 ^[1]		
	Optional Training	9.9	6.9	12.1	9.9		
	Required Training	88.9	93.9 ^[3]	87.3	88.9 [1]		
4g.	Use of radio communication devices						
	No Training	2.7	0.5 ^[3,+]	1.5 [+]	2.7 [1]		
	Optional Training	21.4	16.1	19.7	21.4		
	Required Training	76.2	83.4 [3]	78.8	76.1 ^[1]		
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.						
	Our department's Training Officer	84.9	88.6	90.1	84.8		
	Other officers within our department	82.8	86.1	93.8 [3]	82.7 [2]		
	State fire training agency	77.4	82.6	85.2 [3]	77.3 [2]		
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	20.9	35.6 [3]	37.5 ^[3]	20.7 ^[1,2]		
	Conferences or regional meetings	51.7	64.7 ^[3]	64.9 ^[3]	51.5 ^[1,2]		
	Other	25.2	29.7	23.0	25.2		
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.						
	Roadside incidents/Motor Vehicle Accidents (MVA)	55.3	57.9	53.7	55.3		
	Scuba diving	7.5	11.9	8.1	7.4		
	Swift water rescue	11.2	21.7 ^[3]	14.5	11.1 ^[1]		
	Wildland fire fighting	47.0	46.9	35.8 [3]	47.1 [2]		
	HAZMAT	66.7	74.7	84.6 [3]	66.4 [2]		
	Other	31.2	33.7	30.0	31.2		

Exhibit B-7a. Results from the Fire Department Survey, Percent Estimates by Type of Fatality (continued)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	8.3	3.5 ^[3,+]	1.7 ^[3,+]	8.4 [1,2]
	Not very familiar	24.3	10.0 [3]	16.8	24.5 ^[1]
	Somewhat familiar	58.1	52.7	58.5	58.2
	Very familiar	9.3	33.7 ^[3]	23.1 ^[3]	8.9 ^[1,2]
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	20.8	8.5 ^[3]	8.3 [3]	21.0 ^[1,2]
	Not very familiar	33.5	19.3 ^[3]	17.8 [3]	33.8 ^[1,2]
	Somewhat familiar	37.9	40.6	50.9 ^[3]	37.8 [2]
	Very familiar	7.8	31.5 ^[3]	23.1 ^[3]	7.5 ^[1,2]
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	67.8	82.7 [3]	74.5	67.6 ^[1]
	National conference presentations	3.6	9.4 [3]	5.9	3.6 [1]
	State-level conference presentations	11.5	10.8	12.0	11.5
	Other firefighters or departments	22.9	22.9	27.8	22.8
	At seminars or other training opportunities (not conferences)	16.4	21.6	27.5 [3]	16.2 ^[2]
	Trade publications (such as Firehouse and Fire Engineering)	47.2	57.8 ^[3]	60.0 ^[3]	47.0 ^[1,2]
	NIOSH website	24.3	45.8 [3]	40.2 [3]	23.9 ^[1,2]
	Links from other websites (such as NFPA and Firehouse)	28.2	36.0	43.5 [3]	28.0 [2]
	Media reports-newspaper, television, radio	14.9	15.2	20.5	14.8
		1.1	4.5	3.2 [+]	1.1
Othe	Does not apply. We have not received information about NIOSH ar recommendations.	11.1	2.9 ^[3,+]	4.0 [3,+]	11.3 ^[1,2]

Exhibit B-7a. Results from the Fire Department Survey, Percent Estimates by Type of Fatality (continued)
			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	40.2	59.3 ^[3]	62.4 [3]	39.8 ^[1,2]
	Developed new SOPs/SOGs	26.3	41.4 ^[3]	43.5 [3]	26.1 ^[1,2]
	Made changes to SOPs/SOGs	34.9	59.8 ^[3]	55.2 ^[3]	34.5 ^[1,2]
	Justified current budget/staffing	5.0	10.2 [3]	12.8 [3]	4.9 ^[1,2]
	Made new budget/staffing requests	5.5	10.5 ^[3]	18.8 ^[3]	5.3 ^[1,2]
	Justified grant applications	15.5	22.6	27.6 [3]	15.4 [2]
	Does not apply. We have not used NIOSH recommendations.	30.1	18.0 ^[3]	11.1 ^[3]	30.3 ^[1,2]
	Legitimately Skipped Question	11.7	3.1 ^[3,+]	4.3 [3,+]	11.9 ^[1,2]
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	29.3	45.2 ^[3]	49.5 ^[3]	29.0 ^[1,2]
	Personal protective equipment and clothing	41.6	51.8 ^[3]	56.9 ^[3]	41.4 ^[1,2]
	SCBA	40.1	46.2	58.3 ^[3]	39.8 [2]
	PASS systems	32.6	40.9	43.2	32.5
	Incident Command systems	32.1	47.4 [3]	49.3 [3]	31.8 ^[1,2]
	Radio communications	23.0	36.0 ^[3]	42.5 ^[3]	22.8 ^[1,2]
	Physical fitness and cardiovascular disease (CVD)	8.5	18.4 ^[3]	23.9 [3]	8.3 [1,2]
	Building code compliance (e.g., warning against the use of wooden trusses)	6.9	9.1	11.8	6.8
		2.3	6.4 ^[3]	1.8 [+]	2.3 [1]
Othe	Does not apply. We have not used NIOSH recommendations for training purposes.	1.9	4.7	4.6	1.9
0.110	Legitimately Skipped Question	41.9	21.1 ^[3]	15.6 [3]	42.3 [1,2]

(continued)

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		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		78.5	63.5 ^[3]	69.5 ^[3]	78.7 ^[1,2]
	Yes, it's required	7.0	16.2 ^[3]	13.1	6.9 ^[1]
No	Yes, it's optional	14.5	20.3	17.4	14.5
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	14.5	12.9	16.6	14.5
	Less frequently than once a year	7.1	9.0	9.3	7.1
	One time a year	17.1	26.0 [3]	29.0 [3]	17.0 ^[1,2]
	More than one time a year	0.3	* * [3]	* * [3]	0.3 ^[1,2]
	Does not apply. Firefighters are not required to receive CVD screenings	60.9	52.1	45.2 ^[3]	61.2 ^[2]
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	6.4	3.5	4.4 [+]	6.4
	Yes, they receive training required by the department	84.0	88.6	86.8	83.9
	Yes, they receive training required by the state	25.7	25.4	22.0	25.8
	Yes, they receive optional training	13.8	9.8	14.3	13.8
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	14.2	13.9	13.2	14.2
	Once every year	40.3	43.0	36.3	40.4
	Less frequently than once a year	24.8	24.2	31.1	24.7
	Does not apply. Firefighters are not required to receive continuing driver training.	20.7	18.8	19.4	20.8
					(continued)

		Type of Fatality				
	Question	Total	Traumatic	Cardiovascular	No Fatality	
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?					
		84.2	93.4 ^[3]	86.4	84.1 ^[1]	
	No	15.8	6.6 [3]	13.6	15.9 ^[1]	
17 5	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?					
	Strongly disagree	6.9	5.5	6.6	6.9	
	Disagree	18.0	20.7	12.9	18.0	
	Neither agree nor disagree	30.8	28.4	30.5	30.9	
	Agree	32.1	29.7	28.8	32.2	
	Strongly agree	12.2	15.7	21.2	12.0	
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?					
		5.4	1.6 [3,+]	2.7 [+]	5.4 [1]	
	Some of the time	22.7	22.3	30.5	22.6	
Neve	erAbout half the time	17.0	12.1	16.2	17.0	
	Most of the time	38.4	34.1	34.4	38.5	
		16.5	29.8 [2,3]	16.3 ^[1]	16.4 ^[1]	
21. Alwa	How often is Incident Command established when vesponding to structure fires?					
/	50	2.3	2.5 [+]	** [3]	2.3 [2]	
	Rarely	6.8	2.6 [3]	4.6	6.8 [1]	
Neve	erAbout half the time	6.7	2.8 [3,+]	0.7 [3,+]	6.8 ^[1,2]	
	Most of the time	27.6	17.4 ^[3]	19.4	27.8 [1]	
	Always	56.6	74.8 [3]	75.3 [3]	56.3 [1,2]	

		Type of Fatality				
	Question	Total	Traumatic	Cardiovascular	No Fatality	
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.					
	Fires are not usually big enough to require an Incident Commander	22.5	9.7 ^[3]	9.2 ^[3]	22.7 ^[1,2]	
	Not enough firefighters available at the scene of the fire	21.2	13.9 ^[3]	11.4 [3]	21.3 [1,2]	
	Other	6.2	5.0	6.4	6.2	
	Does not apply. My department always assigns an Incident Commander for structure fires.	3.6	2.4	1.4 [+]	3.7	
	Legitimately Skipped Question	56.6	75.3 ^[3]	76.8 [3]	56.3 ^[1,2]	
23.	fire, what are the Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY. Conduct an initial assessment before the other firefighters begin entering the building	91.0	89.5	93.2	91.0	
	Develop and coordinate the fire attack strategy	93.1	91.6	95.6	93.1	
	Develop and initiate a risk management plan	52.3	63.1 ^[3]	65.0 ^[3]	52.1 ^[1,2]	
	Document all assessments, plans and events related to the fire	38.8	43.4	42.5	38.7	
	Ensure that at least four (4) firefighters are on the scene before entering the building	68.6	70.7	69.1	68.5	
	Establish a collapse zone around the building	49.1	55.8	53.5	49.0	
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	48.5	64.8 [3]	62.7 ^[3]	48.2 ^[1,2]	
	Identify and implement a communication strategy	64.7	66.2	64.0	64.7	
	Monitor location of all firefighters at the scene	76.2	80.5	85.0 ^[3]	76.1 [2]	
	Other	9.1	14.7	7.6	9.1	

		-			
			Туре	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	13.3	6.5 [3]	7.5	13.4 ^[1]
	Some of the time	26.5	25.6	30.5	26.5
	About half the time	8.1	11.4	7.0	8.1
	Most of the time	29.8	26.5	26.1	29.8
		22.3	30.0	29.0	22.2
25. Alwa	What are the reasons why an Incident Commander does ynot always assign an Incident Safety Officer? MARK ALL THAT APPLY.	30.3	20 Q ^[3]	15 2 [3]	30 5 ^[1,2]
	Not onough firefighters are available at the scope of the fire	52.5	20.7 42.6 ^[3]	52.7	52.5 51 7 ^[1]
	Other	12.1	42.0	16.0	13.0
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	2.1	2.0 [+]	1.4 [+]	2.1
	Legitimately Skipped Question	22.6	30.3	29.2	22.5
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	29.4	17.2 [3]	15.3 ^[3]	29.6 [1,2]
	Some of the time	21.8	14.7 ^[3]	17.9	21.9 ^[1]
	About half the time	6.5	6.0	6.4	6.5
	Most of the time	22.5	27.0	19.2	22.5
1		19.9	35.1 ^[3]	41.3 ^[3]	19.5 ^[1,2]

Always

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	9.3	7.3	5.9	9.4
	When there are enough firefighters on and at the scene of the fire	32.3	31.8	25.6	32.4
	Whenever firefighters enter a burning building	26.4	23.4	22.6	26.5
		4.9	5.8	3.1 [+]	4.9
	Legitimately Skipped Question	49.3	52.1	57.7	49.2
28 ne	r What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	34.9	23.6 [3]	24.7 ^[3]	35.1 ^[1,2]
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	8.8	2.6 ^[3,+]	3.6 ^[3,+]	8.9 ^[1,2]
	We don't have enough firefighters available at the scene of the fire	53.5	45.0	35.4 [3]	53.8 [2]
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	20.7	12.2 ^[3]	14.6	20.8 [1]
	We have never established an RIT/RIC	17.7	8.1 ^[3]	11.0	17.8 ^[1]
	We use other fire departments in the area for RITs/RICs	29.2	24.1	17.2 [3]	29.4 [2]
	We use other safety practices and so we don't need them	4.2	1.0 ^[3,+]	1.7 [+]	4.2 [1]
	Other	4.1	8.2	5.2	4.0
	Legitimately Skipped Question	20.3	35.6 [3]	41.5 [3]	19.9 ^[1,2]
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		78.8	84.4	87.8 [3]	78.6 [2]
	No	21.2	15.6	12.2 [3]	21.4 [2]

Yes

			Туре с	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
30.	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		6.3	8.9	6.9	6.2
	Some of the time	3.9	0.9 [3,+]	* * [3]	4.0 ^[1,2]
Neve	erAbout half the time	1.8	1.5 [+]	1.0 [+]	1.8
	Most of the time	12.8	7.5 [3]	10.9	12.9 ^[1]
	Always	75.2	81.2	81.2	75.1
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.				
	They don't have a PASS device to use	13.1	10.5	11.2	13.2
	Situation doesn't require them	9.5	6.9	7.2	9.5
	Firefighters think the devices do not always work reliably	0.3	* *	1.4 [+]	0.3 [+]
	Firefighters don't think they need them	4.6	1.7 ^[3,+]	2.1 [+]	4.6 [1]
	Devices go off while firefighters are resting	3.7	2.1 [+]	2.5 [+]	3.7
	Legitimately Skipped Question	75.5	83.1 ^[3]	81.2	75.4 [1]
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		99.2	95.3	100.0 [3]	99.3 ^[2]
	No	0.8	4.7 [+]	* * [3]	0.7 [2]
33 5	Do your firefighters ever have to share facepieces for SCBAs?				
		49.7	46.8	43.3	49.8
		49.5	48.3	56.7	49.4
Yes	Legitimately Skipped Question	0.8	4.9 [+]	** [3]	0.8 [2]
No					(continued)

No

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

B-298

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
33a.	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.				
	Didn't know it was recommended	4.8	2.2 [+]	1.4 [3,+]	4.8 [2]
	Firefighters don't like using the equipment	0.3	* *	* *	0.3 [+]
	Have never needed them (e.g., we don't do interior attacks)	0.7	** [3]	1.7 [+]	0.7 ^[1]
	They cost too much, there is not enough money in the budget	31.8	32.4	20.1 ^[3]	31.9 [2]
	We don't have enough equipment for all of our firefighters	24.6	22.5	23.6	24.6
	Shared systems work fine for our needs	23.4	19.7	23.7	23.5
		5.0	9.1	5.4	5.0
	Legitimately Skipped Question	50.3	53.7	57.9	50.3
84 ne	r About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	1.1	** [3]	** [3]	1.2 ^[1,2]
	Some of the time	4.7	4.0	4.5 [+]	4.7
	About half the time	2.7	** [3]	** [3]	2.7 ^[1,2]
	Most of the time	24.5	17.7	19.1	24.6
		66.1	73.5	76.4 [3]	66.0 ^[2]
	Legitimately Skipped Question	0.8	4.9 [+]	* * [3]	0.8 [2]
A5 va	yWhy do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	25.9	18.1 ^[3]	17.0 [3]	26.0 ^[1,2]
	Firefighters do not trust that the SCBAs will work reliably	* *	* *	* *	**[+]
	Firefighters don't think they need them	10.3	6.6	11.8	10.4
	Firefighters don't like sharing facepieces with others	1.0	1.3 [+]	[3]	1.0 [2]
	Firefighters are concerned that the SCBA may be or become contaminated	* *	* *	**	** [+]
	Wearing SCBAs makes it more difficult to work	5.9	6.3	8.5	5.9
	Firefighters don't have SCBAs to use	3.9	** [3]	[3]	4.0 ^[1,2]
	Legitimately Skipped Question	67.8	78.4 [3]	75.9	67.6 [1]

		-	// / /	-	
			Туре с	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	43.0	54.3 ^[3]	59.4 [3]	42.7 [1,2]
	Once a month or more	19.0	18.9	11.9	19.0
	Several times a year	15.0	7.0 [3]	11.0	15.1 ^[1]
	Once a year	16.4	11.6	15.0	16.5
	Less than once a year	4.3	1.4 ^[3,+]	1.7 [+]	4.3 [1]
	Never. Maintenance has not been done on our SCBAs.	1.4	1.2 [+]	1.1 [+]	1.4
	Does not apply. My department does not have SCBAs.	* *	* *	* *	* *
	Legitimately Skipped Question	1.0	5.6 [+]	* * [3]	0.9 ^[2]
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?				
	Greater than zero	17.5	27.5 ^[3]	30.1 ^[3]	17.3 ^[1,2]
	Zero	82.5	72.5 ^[3]	69.9 ^[3]	82.7 [1,2]
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our department	20.9	14.0	14.1	21.1
	We didn't know they were available	15.1	8.5 [3]	6.8 [3]	15.2 ^[1,2]
	We don't have adequate technical information to purchase them	19.7	16.2	8.9 ^[3]	19.8 [2]
	We don't have adequate funding to purchase them	60.3	51.6	50.4	60.4
		4.9	10.1	11.6 [3]	4.8 [2]
	Legitimately Skipped Question	18.3	30.2 [3]	31.5 [3]	18.1 ^[1,2]
38 he	r Does your fire department have Automated External Defibrillators (AEDs)?				
	Yes	77.4	84.9 [3]	88.9 [3]	77.3 [1,2]
	No	22.6	15.1 ^[3]	11.1 ^[3]	22.7 ^[1,2]

	Type of Fatality			
Question	Total	Traumatic	Cardiovascular	No Fatality
38a. At your fire department, where do you have AEDs?				
At the fire station(s)	2.8	5.8	1.5 [+]	2.8
On the emergency vehicles (or apparatus)	62.0	66.7	75.2 [3]	61.8 ^[2]
Both at the fire station(s) and on the vehicles (or apparatus)	10.4	10.5	9.6	10.4
Legitimately Skipped Question	24.9	17.1	13.7 ^[3]	25.0 ^[2]
39. How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?				
After every time they are used	13.9	16.7	22.8	13.8
Once a month or more	25.4	25.3	17.0	25.5
Several times a year	20.6	22.4	15.6	20.6
Once a year	22.3	24.5	37.1 ^[3]	22.2 [2]
Less frequently than once a year	7.4	4.8	2.6 [3,+]	7.5 ^[2]
Never. Maintenance on our AEDs has not been done.	10.4	6.3	5.0 ^[+]	10.5
40. About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
	1.6	1.0 [+]	** [3]	1.7 [2]
Some of the time	4.7	3.0	3.8 [+]	4.7
NeverAbout half the time	2.6	** [3]	0.5 [3,+]	2.7 ^[1,2]
Most of the time	20.6	17.1	27.5	20.6
	70.4	78.9 ^[3]	68.2	70.4 [1]
41. Some radios and other two-way communication devices Alwaysan have problems under field conditions, such as bleed- over, interference, or loss of communication. About how often do your communication devices have these or other problems?		[2]		[1]
	18.0	9.7 ^[3]	17.6	18.1
Some of the time	64.5	72.3	70.3	64.4
NeverAbout half the time	10.3	10.1	8.2	10.3
Most of the time	5.4	7.4	3.9 ^[+]	5.4
	1.8	0.5 [+]	**[2]	1.9

B-301

Always

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	48.6	54.1	47.4	48.6
	Adequate	45.7	40.7	47.9	45.7
	More than adequate	5.7	5.2	4.7	5.7
42b.	Training				
	Not adequate	39.1	38.5	43.0	39.1
	Adequate	55.6	55.3	53.7	55.7
	More than adequate	5.2	6.2	3.3	5.2
42c.	Personnel				
	Not adequate	51.5	60.2	52.9	51.4
	Adequate	44.3	36.6	44.8	44.3
	More than adequate	4.2	3.1	2.3 [+]	4.2
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
		26.8	10.7 ^[3]	9.3 [3]	27.1 ^[1,2]
	One or two times per year	34.3	27.9	40.2	34.3
Neve	erSeveral times per year	33.2	49.0 [3]	41.9	33.0 [1]
	Once a month or more	5.7	12.5 [3]	8.7	5.6 ^[1]
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.			101	
	By mail	56.0	66.2 ^[3]	66.1 ^[3]	55.8 ^[1,2]
	On the Internet	24.7	42.5 ^[3]	41.5 ^[3]	24.4 ^[1,2]
	From colleagues in other departments	10.0	8.4	17.2	9.9
	At conferences or other meetings	6.9	14.4 ^[3]	10.4	6.8 ^[1]
	Legitimately Skipped Question	26.8	10.5 ^[3]	9.3 ^[3]	27.1 ^[1,2]

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	53.3	70.2 [3]	77.9 [3]	53.0 ^[1,2]
	No	20.0	19.3	12.7	20.1
	Legitimately Skipped Question	26.6	10.4 [3]	9.4 [3]	26.9 ^[1,2]
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		60.7	78.6 ^[3]	82.8 [3]	60.3 ^[1,2]
	No	12.1	10.6	7.8	12.1
Yes	Legitimately Skipped Question	27.3	10.8 ^[3]	9.5 ^[3]	27.6 ^[1,2]
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	23.5	18.2 [2]	30.2 [1]	23.5
	Training sessions	44.2	55.2 ^[3]	59.4 ^[3]	44.0 ^[1,2]
	Provide copies of NIOSH reports to firefighters	16.2	27.0 [3]	25.4 ^[3]	16.0 ^[1,2]
	Provide copies of NIOSH report summaries to firefighters	6.2	11.0	13.7 ^[3]	6.1 ^[2]
	Provide summaries prepared by department to firefighters	1.8	1.8 [+]	6.1	1.8
	Postings on bulletin boards	38.5	46.5	51.2 ^[3]	38.3 [2]
	Post report on the department website	1.1	1.1 [+]	3.7	1.1
	Send message to firefighters by email	5.3	15.1 ^[3]	11.1	5.2 ^[1]
	Other	1.3	3.7	3.0 [+]	1.2
	Legitimately Skipped Question	39.1	21.2 [3]	17.3 ^[3]	39.4 ^[1,2]
51.	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to				
	documents that are referenced in NIOSH reports?		 - [3]	= 0 0 [3]	
		34.2	50.8	52.3	33.9 [1,2]
	No	38.4	38.4	38.1	38.4
Yes	Legitimately Skipped Question	27.4	10.8 [3]	9.6 ^[3]	27.7 [1,2]

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	Exhibit B-7a.	Results from the Fire	Department Survey,	Percent Estimates by	Type of Fatality	(continued)
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			Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality	
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:					
52a.	Recommendations are practical					
	Strongly Disagree	0.5	1.2 [+]	1.6 [+]	0.5	
	Disagree	3.6	4.5	4.5	3.5	
	Neither Agree nor Disagree	18.7	24.2	20.0	18.6	
	Agree	45.6	54.4	60.4 [3]	45.4 [2]	
	Strongly Agree	3.7	4.9	3.9	3.7	
	Legitimately Skipped Question	28.0	10.8 [3]	9.7 [3]	28.3 ^[1,2]	
52b.	Recommendations are easy to understand					
	Strongly Disagree	0.4	0.5 [+]	1.0 [+]	0.4	
	Disagree	1.7	1.8 [+]	2.8 [+]	1.7	
	Neither Agree nor Disagree	19.8	18.0	18.0	19.8	
	Agree	45.4	60.8 [3]	65.4 ^[3]	45.1 ^[1,2]	
	Strongly Agree	4.6	7.8	3.0	4.6	
	Legitimately Skipped Question	28.1	11.1 ^[3]	9.8 [3]	28.4 ^[1,2]	
52c.	Recommendations are specific and concrete					
	Strongly Disagree	0.4	0.5 [+]	1.0 [+]	0.4	
	Disagree	3.2	6.8	2.9 [+]	3.2	
	Neither Agree nor Disagree	26.6	26.2	27.3	26.6	
	Agree	37.9	47.8 [3]	54.1 ^[3]	37.7 ^[1,2]	
	Strongly Agree	3.8	7.7	4.8	3.8	
	Legitimately Skipped Question	28.0	11.0 [3]	9.8 [3]	28.3 [1,2]	

			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	57.4	65.6	69.7 ^[3]	57.2 ^[2]
	Respirator maintenance program guide	13.8	24.2 [3]	16.2	13.7 ^[1]
	CDs of firefighter program materials	28.0	39.0 [3]	38.6 [3]	27.8 ^[1,2]
	Alerts	31.7	48.6 [3]	40.8	31.5 ^[1]
	Hazard IDs	16.6	17.9	23.5	16.5
	Workplace Solutions	12.5	14.7	19.0	12.4
		0.8	1.1 [+]	** [3]	0.8 [2]
	None. I have not seen any NIOSH materials.	25.2	12.3 [3]	12.7 ^[3]	25.4 ^[1,2]
53a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1.3	1.5 [+]	1.5 [+]	1.3
	Dissatisfied	0.2	0.6 [+]	* *	0.2 [+]
	Neither satisfied nor dissatisfied	21.2	17.2	16.5	21.3
	Satisfied	47.1	59.8 ^[3]	61.4 [3]	46.9 ^[1,2]
	Very satisfied	5.2	9.5	7.9	5.1
	Legitimately Skipped Question	24.9	11.5 ^[3]	12.8 ^[3]	25.2 ^[1,2]
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		59.4	29.6 [3]	42.3 [3]	59.8 ^[1,2]
	Yes, in the last year	34.5	58.9 ^[3]	50.5 ^[3]	34.2 [1,2]
No	Yes, longer than one year ago	6.1	11.5	7.2	6.0

Note: Traumatic includes those fatalities considered both "Traumatic" and "Cardiovascular."

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

			Type o	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Estality
-		Total	Haumatic	Carulovasculai	NO Fatality
1.	Does your department have a Safety Officer?				
		(67.5, 72.9)	(69.4, 83.8)	(63.0, 82.1)	(67.3, 72.9)
_		(27.1, 32.5)	(16.2, 30.6)	(17.9, 37.0)	(27.1, 32.7)
Z es	Does your department have a Training Officer?				
No		(86.4, 90.3)	(86.7, 95.8)	(81.7, 96.0)	(86.3, 90.3)
		(9.7, 13.6)	(4.2, 13.3)	(4.0, 18.3)	(9.7, 13.7)
S €s No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	(81.3, 85.8)	(85.2, 94.7)	(86.7, 97.0)	(81.1, 85.7)
	Maintenance of SCBAs	(66.9, 72.3)	(63.4, 79.6)	(64.2, 83.1)	(66.7, 72.3)
	Motor vehicle safety	(76.3, 81.2)	(83.2, 93.3)	(73.2, 89.5)	(76.1, 81.1)
	Participation in a personal physical fitness program	(9.6, 12.7)	(18.7, 34.3)	(10.4, 24.5)	(9.4, 12.6)
	Participation in regular health screenings for cardiovascular disease (CVD)	(14.9, 18.9)	(23.6, 39.9)	(17.0, 34.1)	(14.6, 18.8)
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	(37.7, 43.2)	(47.8, 65.0)	(50.2, 70.7)	(37.4, 42.9)
	Use of Personal Alert Safety System (PASS) devices	(72.7, 77.9)	(62.5, 78.5)	(70.5, 88.1)	(72.6, 77.9)
	Use of personal protective equipment and protective clothing	(87.1, 90.9)	(84.5, 95.4)	(85.6, 97.5)	(87.0, 90.8)
	Use of radio communications	(82.5, 86.8)	(80.2, 91.7)	(85.4, 96.1)	(82.4, 86.7)
	Other	(7.2, 10.5)	(5.4, 15.2)	(5.2, 17.7)	(7.2, 10.5)
	Does not apply. Our fire department does not use SOPs/SOGs.	(3.8, 6.5)	(0.3, 5.1)	(**, **)	(3.9, 6.6)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?				
4a.	Fighting structure fires				
	No Training	(0.6, 2.0)	(2.1, 13.9)	(0.1, 4.0)	(0.6, 2.0)
	Optional Training	(14.6, 19.1)	(6.8, 19.2)	(11.0, 28.7)	(14.6, 19.2)
	Required Training	(80.4, 85.0)	(74.1, 89.1)	(70.7, 88.5)	(80.4, 85.0)
4b.	Driving safety				
	No Training	(2.9, 5.3)	(1.1, 8.3)	(0.9, 10.3)	(2.9, 5.4)
	Optional Training	(16.3, 21.1)	(3.6, 13.1)	(9.6, 25.8)	(16.4, 21.2)
	Required Training	(75.1, 80.1)	(83.2, 94.2)	(70.7, 87.9)	(74.9, 80.0)
4c.	Incident Command systems				
	No Training	(2.0, 4.1)	(0.5, 5.3)	(0.9, 10.5)	(2.0, 4.2)
	Optional Training	(24.8, 30.2)	(12.0, 25.5)	(12.1, 30.3)	(24.9, 30.4)
	Required Training	(67.1, 72.6)	(72.7, 86.5)	(66.4, 85.2)	(66.9, 72.4)
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	(5.2, 8.3)	(6.4, 20.7)	(0.1, 3.7)	(5.2, 8.3)
	Optional Training	(30.8, 36.5)	(19.3, 34.3)	(21.5, 40.8)	(30.9, 36.6)
	Required Training	(57.3, 63.1)	(53.1, 70.3)	(58.7, 78.1)	(57.2, 63.1)
4e.	Rapid Intervention Teams (RITs)				
	No Training	(25.8, 31.3)	(10.2, 24.9)	(7.1, 22.9)	(26.0, 31.6)
	Optional Training	(33.3, 39.2)	(27.5, 44.3)	(33.0, 54.1)	(33.2, 39.1)
	Required Training	(32.8, 38.3)	(39.9, 56.9)	(33.7, 54.0)	(32.6, 38.2)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
4f.	Use of personal protective equipment and/or protective clothing				
	No Training	(0.9, 2.4)	(**, **)	(0.1, 4.0)	(0.9, 2.4)
	Optional Training	(8.2, 11.8)	(3.5, 12.9)	(6.7, 20.9)	(8.2, 11.9)
	Required Training	(86.9, 90.7)	(88.0, 97.0)	(78.5, 92.8)	(86.8, 90.7)
4g.	Use of radio communication devices				
	No Training	(1.9, 3.8)	(0.1, 3.4)	(0.5, 4.5)	(1.9, 3.9)
	Optional Training	(19.0, 23.9)	(10.7, 23.5)	(12.6, 29.5)	(19.0, 24.0)
	Required Training	(73.6, 78.6)	(76.0, 88.9)	(69.0, 86.2)	(73.4, 78.6)
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.				
	Our department's Training Officer	(82.6, 86.9)	(81.5, 93.2)	(81.0, 95.1)	(82.5, 86.9)
	Other officers within our department	(80.4, 85.0)	(78.6, 91.2)	(86.0, 97.4)	(80.2, 84.9)
	State fire training agency	(74.8, 79.8)	(75.0, 88.3)	(76.4, 91.1)	(74.7, 79.7)
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	(18.9, 23.1)	(28.1, 43.9)	(28.4, 47.7)	(18.6, 22.9)
	Conferences or regional meetings	(48.8, 54.6)	(56.1, 72.4)	(54.2, 74.2)	(48.5, 54.4)
	Other	(22.7, 27.8)	(22.3, 38.2)	(15.3, 33.2)	(22.7, 27.8)
6.	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents (MVA)	(52.4, 58.2)	(49.3, 66.0)	(43.3, 63.8)	(52.4, 58.3)
	Scuba diving	(6.2, 9.1)	(7.5, 18.4)	(4.1, 15.5)	(6.1, 9.1)
	Swift water rescue	(9.6, 13.0)	(15.9, 28.9)	(9.4, 21.5)	(9.5, 12.9)
	Wildland fire fighting	(44.1, 49.9)	(38.5, 55.5)	(26.4, 46.3)	(44.2, 50.1)
	HAZMAT	(63.8, 69.4)	(66.0, 81.8)	(75.7, 90.7)	(63.6, 69.2)
	Other	(28.5, 33.9)	(26.3, 42.0)	(21.6, 39.9)	(28.5, 34.0)

			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	(6.8, 10.2)	(1.3, 9.2)	(0.4, 7.4)	(6.8, 10.3)
	Not very familiar	(21.8, 27.0)	(5.7, 16.8)	(10.2, 26.3)	(22.0, 27.2)
	Somewhat familiar	(55.2, 61.0)	(44.2, 61.2)	(48.1, 68.1)	(55.2, 61.1)
	Very familiar	(7.8, 10.9)	(26.5, 41.8)	(16.0, 32.2)	(7.5, 10.6)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	(18.4, 23.3)	(4.6, 15.4)	(3.9, 16.6)	(18.6, 23.6)
	Not very familiar	(30.8, 36.4)	(13.6, 26.7)	(11.1, 27.2)	(31.0, 36.7)
	Somewhat familiar	(35.1, 40.7)	(32.5, 49.3)	(40.6, 61.1)	(34.9, 40.6)
	Very familiar	(6.5, 9.4)	(24.9, 39.0)	(15.7, 32.5)	(6.1, 9.1)
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	(64.9, 70.5)	(74.4, 88.8)	(64.2, 82.6)	(64.7, 70.3)
	National conference presentations	(2.8, 4.7)	(5.6, 15.3)	(2.9, 11.7)	(2.8, 4.6)
	State-level conference presentations	(9.7, 13.5)	(6.9, 16.5)	(7.2, 19.4)	(9.7, 13.5)
	Other firefighters or departments	(20.5, 25.5)	(16.3, 31.1)	(19.6, 37.8)	(20.4, 25.5)
	At seminars or other training opportunities (not conferences)	(14.3, 18.6)	(15.5, 29.3)	(19.4, 37.4)	(14.2, 18.5)
	Trade publications (such as Firehouse and Fire Engineering)	(44.3, 50.1)	(49.1, 66.1)	(49.6, 69.6)	(44.0, 49.9)
	NIOSH website	(22.0, 26.7)	(37.6, 54.2)	(31.0, 50.2)	(21.6, 26.4)
	Links from other websites (such as NFPA and Firehouse)	(25.7, 30.9)	(28.4, 44.3)	(33.7, 53.7)	(25.4, 30.7)
	Media reports-newspaper, television, radio	(12.9, 17.1)	(10.2, 21.9)	(13.3, 30.3)	(12.8, 17.1)
	Other	(0.7, 1.9)	(1.8, 10.7)	(0.9, 10.7)	(0.6, 1.8)
	Does not apply. We have not received information about NIOSH recommendations.	(9.3, 13.2)	(0.8, 9.9)	(1.3, 12.1)	(9.4, 13.4)

Exhibit B-7b. Results from the Fire Department Survey, Confidence Interval Estimates by Type of Fatality (continued)

		Type of Fatality			
	Question	Total	Traumatic	, Cardiovascular	No Fatality
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	(37.3, 43.1)	(50.6, 67.5)	(51.7, 72.1)	(36.9, 42.8)
	Developed new SOPs/SOGs	(23.8, 29.0)	(33.3, 49.9)	(33.5, 54.1)	(23.5, 28.8)
	Made changes to SOPs/SOGs	(32.2, 37.7)	(51.1, 68.0)	(44.4, 65.5)	(31.8, 37.4)
	Justified current budget/staffing	(4.0, 6.3)	(6.2, 16.3)	(7.5, 20.9)	(3.8, 6.3)
	Made new budget/staffing requests	(4.4, 6.8)	(6.7, 16.1)	(12.2, 27.8)	(4.2, 6.7)
	Justified grant applications	(13.5, 17.8)	(16.3, 30.3)	(19.1, 38.1)	(13.3, 17.6)
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(12.1, 25.9)	(6.0, 19.6)	(27.6, 33.3)
	Legitimately Skipped Question	(9.8, 13.9)	(0.9, 10.4)	(1.3, 12.6)	(9.9, 14.1)
11b	. Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	(26.7, 32.1)	(36.8, 53.8)	(39.0, 60.0)	(26.3, 31.8)
	Personal protective equipment and clothing	(38.7, 44.5)	(43.2, 60.2)	(46.1, 67.1)	(38.4, 44.4)
	SCBA	(37.2, 43.0)	(37.8, 54.7)	(47.5, 68.5)	(36.9, 42.8)
	PASS systems	(29.9, 35.5)	(32.9, 49.3)	(33.1, 53.9)	(29.7, 35.3)
	Incident Command systems	(29.4, 34.9)	(38.8, 56.2)	(38.8, 59.8)	(29.1, 34.7)
	Radio communications	(20.7, 25.6)	(28.3, 44.5)	(32.3, 53.3)	(20.3, 25.4)
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(12.6, 26.1)	(16.5, 33.4)	(6.9, 10.0)
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(5.6, 14.6)	(6.5, 20.4)	(5.5, 8.5)
	Other	(1.6, 3.4)	(3.4, 11.6)	(0.4, 8.1)	(1.5, 3.4)
	Does not apply. We have not used NIOSH recommendations for training purposes.	(1.3, 2.9)	(2.0, 10.6)	(1.7, 11.8)	(1.2, 2.9)
	Legitimately Skipped Question	(38.9, 44.8)	(14.6, 29.6)	(9.1, 25.3)	(39.3, 45.3)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		(76.4, 80.4)	(54.9, 71.2)	(60.1, 77.6)	(76.5, 80.6)
	Yes, it's required	(5.9, 8.3)	(10.5, 24.1)	(8.1, 20.6)	(5.7, 8.2)
No	Yes, it's optional	(12.8, 16.4)	(14.6, 27.6)	(11.2, 25.9)	(12.7, 16.4)
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	(12.7, 16.6)	(8.5, 19.2)	(10.3, 25.4)	(12.7, 16.6)
	Less frequently than once a year	(5.8, 8.6)	(4.8, 16.1)	(5.3, 15.7)	(5.8, 8.6)
	One time a year	(15.2, 19.3)	(19.1, 34.2)	(20.5, 39.2)	(15.0, 19.2)
	More than one time a year	(0.1, 0.7)	(**, **)	(**, **)	(0.1, 0.7)
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(43.4, 60.6)	(35.1, 55.7)	(58.4, 63.8)
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	(5.1, 8.0)	(1.6, 7.8)	(1.6, 11.8)	(5.1, 8.1)
	Yes, they receive training required by the department	(81.7, 86.0)	(82.0, 92.9)	(78.2, 92.4)	(81.6, 86.0)
	Yes, they receive training required by the state	(23.3, 28.3)	(18.9, 33.3)	(14.6, 31.9)	(23.3, 28.4)
	Yes, they receive optional training	(11.8, 15.9)	(5.9, 15.8)	(8.3, 23.6)	(11.8, 16.0)
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	(12.2, 16.4)	(9.0, 21.0)	(7.6, 21.9)	(12.2, 16.4)
	Once every year	(37.5, 43.2)	(34.9, 51.5)	(26.8, 46.8)	(37.5, 43.3)
	Less frequently than once a year	(22.3, 27.3)	(17.5, 32.5)	(22.5, 41.4)	(22.2, 27.3)
	Does not apply. Firefighters are not required to receive continuing driver training.	(18.4, 23.2)	(13.0, 26.6)	(12.2, 29.6)	(18.4, 23.3)
					(continued)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		(81.9, 86.3)	(87.5, 96.6)	(77.3, 92.2)	(81.8, 86.2)
		(13.7, 18.1)	(3.4, 12.5)	(7.8, 22.7)	(13.8, 18.2)
177 5 No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	(5.5, 8.5)	(2.7, 10.9)	(3.1, 13.5)	(5.5, 8.5)
	Disagree	(15.8, 20.4)	(14.5, 28.5)	(7.8, 20.6)	(15.8, 20.5)
	Neither agree nor disagree	(28.2, 33.7)	(21.2, 37.0)	(21.5, 41.2)	(28.1, 33.7)
	Agree	(29.5, 34.9)	(22.6, 37.8)	(20.7, 38.6)	(29.5, 35.0)
	Strongly agree	(10.4, 14.2)	(10.6, 22.7)	(13.6, 31.5)	(10.3, 14.1)
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
	Never	(4.2, 6.9)	(0.4, 6.3)	(0.9, 7.8)	(4.2, 7.0)
	Some of the time	(20.3, 25.3)	(16.2, 30.0)	(21.7, 41.0)	(20.2, 25.3)
	About half the time	(14.8, 19.4)	(7.5, 19.1)	(9.9, 25.2)	(14.8, 19.4)
	Most of the time	(35.6, 41.3)	(26.6, 42.6)	(25.3, 44.7)	(35.6, 41.4)
	Always	(14.6, 18.7)	(22.5, 38.3)	(10.1, 25.3)	(14.4, 18.6)
21.	How often is Incident Command established when responding to structure fires?				
	Never	(1.5, 3.5)	(0.6, 10.1)	(**, **)	(1.5, 3.6)
	Rarely	(5.4, 8.5)	(1.0, 6.7)	(2.0, 10.5)	(5.4, 8.6)
	About half the time	(5.3, 8.4)	(1.0, 7.5)	(0.1, 4.9)	(5.4, 8.5)
	Most of the time	(25.0, 30.4)	(11.8, 24.9)	(12.3, 29.2)	(25.2, 30.6)
	Always	(53.7, 59.4)	(66.4, 81.7)	(65.3, 83.2)	(53.3, 59.2)

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		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
22.	What are the reasons why Incident Command is not always established by your fire department? MARK ALL THAT APPLY.				
	Fires are not usually big enough to require an Incident Commander	(20.1, 25.1)	(5.6, 16.2)	(4.6, 17.4)	(20.3, 25.4)
	Not enough firefighters available at the scene of the fire	(18.8, 23.7)	(8.8, 21.3)	(6.2, 20.2)	(18.9, 23.9)
	Other	(5.0, 7.8)	(2.1, 11.6)	(2.7, 14.3)	(4.9, 7.9)
	Does not apply. My department always assigns an Incident Commander for structure fires.	(2.7, 4.9)	(0.9, 6.3)	(0.3, 5.8)	(2.7, 5.0)
	Legitimately Skipped Question	(53.7, 59.5)	(66.9, 82.1)	(66.8, 84.5)	(53.4, 59.2)
23.	fire, what are the Incident Command is established for a structure fire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY. Conduct an initial assessment before the other firefighters begin	(89.1, 92.6)	(81.1, 94.4)	(87.5, 96.4)	(89.0, 92.6)
	entering the building				
	Develop and coordinate the fire attack strategy	(91.4, 94.5)	(83.9, 95.8)	(88.9, 98.3)	(91.3, 94.5)
	Develop and initiate a risk management plan	(49.4, 55.3)	(54.3, 71.1)	(54.4, 74.3)	(49.1, 55.1)
	Document all assessments, plans and events related to the fire	(36.0, 41.7)	(35.2, 52.1)	(32.8, 52.9)	(35.8, 41.7)
	Ensure that at least four (4) firefighters are on the scene before entering the building	(65.7, 71.3)	(61.9, 78.3)	(58.8, 77.8)	(65.6, 71.3)
	Establish a collapse zone around the building	(46.1, 52.0)	(47.0, 64.3)	(43.0, 63.6)	(46.0, 52.0)
	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	(45.7, 51.3)	(55.7, 72.8)	(52.0, 72.3)	(45.3, 51.1)
	Identify and implement a communication strategy	(61.9, 67.5)	(57.4, 74.0)	(53.7, 73.2)	(61.8, 67.6)
	Monitor location of all firefighters at the scene	(73.6, 78.7)	(72.1, 86.9)	(76.6, 90.8)	(73.4, 78.6)
	Other	(7.6, 10.9)	(9.0, 22.9)	(3.6, 15.3)	(7.5, 10.9)

			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	(11.4, 15.5)	(3.1, 13.2)	(3.2, 16.6)	(11.5, 15.6)
	Some of the time	(24.0, 29.2)	(19.0, 33.6)	(22.1, 40.3)	(23.9, 29.2)
	About half the time	(6.6, 9.9)	(6.9, 18.2)	(3.1, 14.9)	(6.6, 9.9)
	Most of the time	(27.2, 32.5)	(19.5, 34.9)	(17.8, 36.4)	(27.2, 32.6)
	Always	(19.9, 24.9)	(22.9, 38.2)	(20.6, 39.0)	(19.8, 24.8)
25.	What are the reasons why an Incident Commander does not always assign an Incident Safety Officer? MARK ALL THAT APPLY.				
	Fires are not big enough to require an Incident Safety Officer	(29.5, 35.1)	(14.9, 28.5)	(9.3, 23.8)	(29.7, 35.4)
	Not enough firefighters are available at the scene of the fire	(48.7, 54.6)	(34.3, 51.3)	(42.4, 62.8)	(48.7, 54.7)
	Other	(11.3, 15.1)	(13.7, 28.0)	(10.1, 24.4)	(11.2, 15.1)
	Does not apply. Our Incident Commanders always assign an Incident Safety Officer for structure fires.	(1.4, 3.0)	(0.6, 5.9)	(0.3, 5.7)	(1.4, 3.1)
	Legitimately Skipped Question	(20.3, 25.2)	(23.1, 38.5)	(20.8, 39.3)	(20.1, 25.2)
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?				
	Never	(26.7, 32.1)	(11.2, 25.5)	(8.9, 24.9)	(26.9, 32.4)
	Some of the time	(19.5, 24.3)	(9.4, 22.2)	(11.3, 27.2)	(19.5, 24.5)
	About half the time	(5.2, 8.0)	(3.1, 11.3)	(2.8, 13.9)	(5.2, 8.1)
	Most of the time	(20.2, 25.0)	(20.0, 35.3)	(12.6, 28.2)	(20.2, 25.1)
	Always	(17.8, 22.1)	(27.6, 43.5)	(31.5, 51.8)	(17.4, 21.8)
27.	In what situations are RITs/RICs established? MARK ALL THAT APPLY.				
	When the building has more than one story/floor	(7.8, 11.2)	(3.9, 13.2)	(2.8, 12.2)	(7.8, 11.3)
	When there are enough firefighters on and at the scene of the fire	(29.6, 35.1)	(24.3, 40.3)	(17.6, 35.6)	(29.6, 35.2)
	Whenever firefighters enter a burning building	(23.9, 29.1)	(16.9, 31.5)	(15.4, 32.0)	(23.9, 29.2)
	Other	(3.8, 6.3)	(3.0, 10.8)	(1.1, 8.6)	(3.8, 6.3)
	Legitimately Skipped Question	(46.4, 52.2)	(43.4, 60.6)	(47.3, 67.6)	(46.2, 52.2)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	(32.1, 37.8)	(17.0, 31.7)	(16.9, 34.7)	(32.2, 38.1)
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	(7.2, 10.8)	(0.8, 8.0)	(1.3, 9.9)	(7.3, 10.9)
	We don't have enough firefighters available at the scene of the fire	(50.6, 56.5)	(36.6, 53.7)	(26.2, 45.9)	(50.8, 56.7)
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	(18.3, 23.2)	(7.4, 19.5)	(8.2, 24.4)	(18.4, 23.4)
	We have never established an RIT/RIC	(15.5, 20.1)	(4.3, 14.8)	(5.6, 20.4)	(15.6, 20.3)
	We use other fire departments in the area for RITs/RICs	(26.6, 32.0)	(17.5, 32.3)	(10.7, 26.5)	(26.7, 32.3)
	We use other safety practices and so we don't need them	(3.1, 5.7)	(0.2, 3.9)	(0.4, 7.6)	(3.1, 5.8)
	Other	(3.1, 5.4)	(3.9, 16.4)	(2.5, 10.4)	(3.0, 5.3)
	Legitimately Skipped Question	(18.1, 22.6)	(28.0, 44.0)	(31.6, 52.0)	(17.8, 22.3)
29.	Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		(76.2, 81.1)	(75.9, 90.2)	(77.5, 93.8)	(76.0, 81.0)
		(18.9, 23.8)	(9.8, 24.1)	(6.2, 22.5)	(19.0, 24.0)
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
	Never	(4.9, 8.0)	(4.4, 17.2)	(2.6, 17.1)	(4.8, 8.0)
	Some of the time	(2.9, 5.3)	(0.1, 6.1)	(**, **)	(2.9, 5.4)
	About half the time	(1.2, 2.8)	(0.4, 6.2)	(0.1, 6.7)	(1.2, 2.9)
	Most of the time	(10.9, 15.0)	(4.1, 13.2)	(5.5, 20.5)	(11.0, 15.1)
	Always	(72.5, 77.6)	(72.7, 87.5)	(70.3, 88.7)	(72.4, 77.6)

Exhibit B-7b. Results from the Fire I	epartment Survey, Co	onfidence Interval Estimates b	у Тур	e of Fatality	(continued)
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		Type of Fatality				
	Question	Total	Traumatic	Cardiovascular	No Fatality	
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.					
	They don't have a PASS device to use	(11.2, 15.4)	(5.8, 18.2)	(5.4, 21.7)	(11.2, 15.4)	
	Situation doesn't require them	(7.9, 11.4)	(3.3, 13.9)	(3.1, 15.6)	(7.9, 11.5)	
	Firefighters think the devices do not always work reliably	(0.1, 1.0)	(**, **)	(0.3, 6.2)	(0.1, 1.0)	
	Firefighters don't think they need them	(3.5, 5.9)	(0.4, 6.5)	(0.3, 13.3)	(3.5, 6.0)	
	Devices go off while firefighters are resting	(2.7, 4.9)	(0.6, 6.5)	(0.5, 12.0)	(2.7, 4.9)	
	Legitimately Skipped Question	(72.9, 78.0)	(75.0, 89.0)	(70.3, 88.7)	(72.7, 77.9)	
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?					
		(98.4, 99.6)	(87.1, 98.4)	(0.0, 100.0)	(98.4, 99.6)	
		(0.4, 1.6)	(1.6, 12.9)	(**, **)	(0.4, 1.6)	
33 5	Do your firefighters ever have to share facepieces for SCBAs?					
110		(46.7, 52.7)	(38.2, 55.6)	(32.9, 54.2)	(46.8, 52.8)	
		(46.5, 52.5)	(39.7, 56.9)	(45.8, 67.1)	(46.4, 52.5)	
Yes	Legitimately Skipped Question	(0.4, 1.6)	(1.7, 13.5)	(**, **)	(0.4, 1.7)	
₿3a	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.					
	Didn't know it was recommended	(3.5, 6.3)	(0.7, 6.9)	(0.2, 9.5)	(3.6, 6.4)	
	Firefighters don't like using the equipment	(0.1, 0.9)	(**, **)	(**, **)	(0.1, 0.9)	
	Have never needed them (e.g., we don't do interior attacks)	(0.3, 1.5)	(**, **)	(0.2, 11.3)	(0.3, 1.5)	
	They cost too much, there is not enough money in the budget	(29.0, 34.7)	(24.7, 41.2)	(12.4, 30.8)	(29.0, 34.8)	
	We don't have enough equipment for all of our firefighters	(22.0, 27.3)	(15.8, 31.1)	(15.3, 34.6)	(22.0, 27.4)	
	Shared systems work fine for our needs	(20.9, 26.2)	(13.5, 27.8)	(15.1, 35.0)	(20.9, 26.2)	
	Other	(3.8, 6.5)	(5.3, 15.2)	(2.1, 13.2)	(3.8, 6.5)	
	Legitimately Skipped Question	(47.4, 53.3)	(44.9, 62.3)	(46.7, 68.3)	(47.2, 53.3)	

			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	(0.6, 2.2)	(**, **)	(**, **)	(0.6, 2.2)
	Some of the time	(3.6, 6.2)	(1.5, 10.3)	(1.3, 14.4)	(3.5, 6.3)
	About half the time	(1.8, 3.9)	(**, **)	(**, **)	(1.9, 3.9)
	Most of the time	(22.0, 27.2)	(12.0, 25.2)	(12.1, 28.8)	(22.0, 27.4)
	Always	(63.3, 68.9)	(64.7, 80.8)	(65.8, 84.4)	(63.1, 68.8)
	Legitimately Skipped Question	(0.4, 1.6)	(1.7, 13.3)	(**, **)	(0.4, 1.6)
35.	Why do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	(23.3, 28.6)	(12.3, 26.0)	(10.4, 26.6)	(23.4, 28.8)
	Firefighters do not trust that the SCBAs will work reliably	(**, **)	(**, **)	(**, **)	(**, **)
	Firefighters don't think they need them	(8.6, 12.3)	(3.5, 12.1)	(6.5, 20.5)	(8.6, 12.4)
	Firefighters don't like sharing facepieces with others	(0.5, 1.8)	(0.2, 8.4)	(**, **)	(0.5, 1.8)
	Firefighters are concerned that the SCBA may be or become contaminated	(**, **)	(**, **)	(**, **)	(**, **)
	Wearing SCBAs makes it more difficult to work	(4.6, 7.5)	(3.1, 12.5)	(4.0, 17.2)	(4.6, 7.5)
	Firefighters don't have SCBAs to use	(2.8, 5.4)	(**, **)	(**, **)	(2.9, 5.4)
	Legitimately Skipped Question	(64.9, 70.5)	(70.3, 84.7)	(65.4, 84.0)	(64.7, 70.4)
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	(39.7, 46.3)	(44.8, 63.4)	(47.5, 70.3)	(39.4, 46.1)
	Once a month or more	(16.5, 21.7)	(12.6, 27.3)	(6.1, 21.9)	(16.5, 21.8)
	Several times a year	(12.8, 17.5)	(3.3, 14.0)	(5.7, 20.2)	(12.8, 17.7)
	Once a year	(14.1, 19.1)	(6.8, 19.3)	(8.4, 25.2)	(14.1, 19.2)
	Less than once a year	(3.1, 5.9)	(0.3, 5.8)	(0.2, 11.2)	(3.1, 6.0)
	Never. Maintenance has not been done on our SCBAs.	(0.8, 2.5)	(0.2, 7.9)	(0.1, 7.4)	(0.8, 2.5)
	Does not apply. My department does not have SCBAs.	(**, **)	(**, **)	(**, **)	(**, **)
	Legitimately Skipped Question	(0.5, 2.0)	(1.9, 15.2)	(**, **)	(0.4, 2.0)
					(continued)

		Type of Fatality				
	Question	Total	Traumatic	Cardiovascular	No Fatality	
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?					
	Greater than zero	(15.5, 19.8)	(20.7, 35.6)	(21.7, 40.0)	(15.3, 19.6)	
	Zero	(80.2, 84.5)	(64.4, 79.3)	(60.0, 78.3)	(80.4, 84.7)	
37a.	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.					
	CBRN SCBA devices are not needed in our department	(18.5, 23.6)	(8.1, 23.1)	(7.9, 23.8)	(18.6, 23.8)	
	We didn't know they were available	(12.9, 17.5)	(4.6, 15.3)	(3.1, 14.5)	(13.0, 17.7)	
	We don't have adequate technical information to purchase them	(17.3, 22.3)	(10.1, 24.9)	(4.5, 16.6)	(17.4, 22.5)	
	We don't have adequate funding to purchase them	(57.2, 63.2)	(42.4, 60.7)	(39.9, 60.9)	(57.3, 63.4)	
	Other	(3.7, 6.4)	(5.5, 17.7)	(6.4, 20.1)	(3.6, 6.3)	
	Legitimately Skipped Question	(16.2, 20.6)	(22.7, 38.9)	(22.8, 41.7)	(15.9, 20.4)	
38.	Does your fire department have Automated External Defibrillators (AEDs)?					
	Yes	(74.8, 79.9)	(76.9, 90.5)	(79.6, 94.2)	(74.6, 79.7)	
		(20.1, 25.2)	(9.5, 23.1)	(5.8, 20.4)	(20.3, 25.4)	
38a.	At your fire department, where do you have AEDs?					
No	At the fire station(s)	(1.9, 4.1)	(2.1, 14.8)	(0.2, 10.1)	(1.9, 4.1)	
	On the emergency vehicles (or apparatus)	(58.9, 64.9)	(57.1, 75.0)	(63.9, 83.9)	(58.7, 64.8)	
	Both at the fire station(s) and on the vehicles (or apparatus)	(8.7, 12.3)	(6.2, 17.1)	(5.0, 17.6)	(8.7, 12.4)	
	Legitimately Skipped Question	(22.2, 27.7)	(10.8, 25.9)	(7.1, 24.6)	(22.4, 27.9)	
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?					
	After every time they are used	(11.7, 16.4)	(11.0, 24.5)	(14.9, 33.3)	(11.6, 16.3)	
	Once a month or more	(22.6, 28.5)	(18.0, 34.4)	(10.2, 26.9)	(22.6, 28.7)	
	Several times a year	(18.0, 23.4)	(15.2, 31.7)	(9.0, 25.6)	(17.9, 23.5)	
	Once a year	(19.6, 25.3)	(16.9, 34.2)	(26.9, 48.6)	(19.4, 25.2)	
	Less frequently than once a year	(5.8, 9.5)	(2.1, 10.4)	(0.7, 8.9)	(5.8, 9.6)	
	Never. Maintenance on our AEDs has not been done.	(8.4, 12.8)	(2.9, 13.1)	(1.7, 13.3)	(8.4, 12.9)	

			Туре о	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
	Never	(1.0, 2.6)	(0.1, 6.7)	(**, **)	(1.0, 2.7)
	Some of the time	(3.6, 6.1)	(1.1, 7.9)	(1.2, 11.1)	(3.6, 6.2)
	About half the time	(1.8, 3.8)	(**, **)	(0.1, 3.3)	(1.8, 3.9)
	Most of the time	(18.3, 23.1)	(11.4, 24.9)	(19.0, 38.0)	(18.2, 23.1)
	Always	(67.7, 73.0)	(70.7, 85.2)	(57.7, 77.2)	(67.6, 73.0)
41.	can have problems under field conditions, such as bleed- over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
	Never	(15.9, 20.4)	(5.9, 15.5)	(10.9, 27.1)	(15.9, 20.5)
	Some of the time	(61.6, 67.3)	(64.1, 79.3)	(59.8, 78.9)	(61.5, 67.2)
	About half the time	(8.6, 12.2)	(5.8, 16.9)	(3.9, 16.6)	(8.6, 12.3)
	Most of the time	(4.2, 6.9)	(4.0, 13.4)	(1.3, 11.0)	(4.1, 6.9)
	Always	(1.1, 2.9)	(0.1, 3.8)	(**, **)	(1.2, 2.9)
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment				
	Not adequate	(45.7, 51.6)	(45.6, 62.4)	(37.3, 57.7)	(45.6, 51.6)
	Adequate	(42.8, 48.6)	(32.8, 49.2)	(37.8, 58.1)	(42.7, 48.7)
	More than adequate	(4.5, 7.2)	(2.5, 10.4)	(1.8, 12.0)	(4.5, 7.2)

			Туре о	f Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
42b.	Training				
	Not adequate	(36.3, 42.0)	(30.4, 47.2)	(33.2, 53.4)	(36.2, 42.1)
	Adequate	(52.7, 58.6)	(46.6, 63.7)	(43.4, 63.7)	(52.7, 58.6)
	More than adequate	(4.0, 6.8)	(3.2, 11.8)	(1.5, 7.4)	(4.0, 6.8)
42c.	Personnel				
	Not adequate	(48.5, 54.5)	(51.5, 68.3)	(42.6, 63.0)	(48.4, 54.5)
	Adequate	(41.3, 47.3)	(28.7, 45.3)	(34.8, 55.2)	(41.3, 47.4)
	More than adequate	(3.1, 5.7)	(1.3, 7.7)	(0.8, 6.2)	(3.1, 5.7)
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
	Never	(24.2, 29.5)	(6.3, 17.4)	(5.0, 16.9)	(24.5, 29.9)
	One or two times per year	(31.6, 37.2)	(20.9, 36.1)	(30.6, 50.6)	(31.5, 37.2)
	Several times per year	(30.5, 35.9)	(40.6, 57.4)	(32.0, 52.4)	(30.3, 35.8)
	Once a month or more	(4.5, 7.2)	(8.2, 18.4)	(4.5, 16.1)	(4.4, 7.2)
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	(53.1, 58.9)	(57.4, 74.0)	(56.0, 74.8)	(52.8, 58.8)
	On the Internet	(22.4, 27.1)	(34.4, 51.1)	(31.9, 51.8)	(22.0, 26.9)
	From colleagues in other departments	(8.3, 11.8)	(5.0, 13.8)	(10.8, 26.4)	(8.2, 11.8)
	At conferences or other meetings	(5.7, 8.5)	(9.0, 22.1)	(5.9, 17.9)	(5.6, 8.4)
	Legitimately Skipped Question	(24.2, 29.5)	(6.2, 17.2)	(5.0, 16.9)	(24.5, 29.9)
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	(50.4, 56.2)	(61.7, 77.5)	(67.9, 85.5)	(50.0, 55.9)
		(17.8, 22.5)	(13.2, 27.4)	(6.9, 22.3)	(17.8, 22.6)
	Legitimately Skipped Question	(24.1, 29.4)	(6.2, 17.1)	(5.0, 17.0)	(24.3, 29.7)

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

No

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		(57.7, 63.5)	(70.8, 84.8)	(73.6, 89.2)	(57.3, 63.2)
		(10.2, 14.1)	(6.6, 16.7)	(3.7, 15.7)	(10.3, 14.2)
Yes	Legitimately Skipped Question	(24.7, 30.0)	(6.4, 17.7)	(5.0, 17.1)	(24.9, 30.4)
5 0 a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	(21.1, 26.1)	(12.7, 25.4)	(21.5, 40.7)	(21.0, 26.2)
	Training sessions	(41.3, 47.2)	(46.5, 63.6)	(49.0, 69.0)	(41.0, 47.0)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(20.2, 34.9)	(17.7, 35.1)	(14.0, 18.2)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(6.2, 18.8)	(8.2, 22.0)	(4.9, 7.6)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(0.6, 5.4)	(2.7, 13.4)	(1.1, 2.7)
	Postings on bulletin boards	(35.6, 41.3)	(38.0, 55.1)	(40.9, 61.5)	(35.4, 41.2)
	Post report on the department website	(0.7, 1.8)	(0.3, 4.5)	(1.5, 8.9)	(0.7, 1.8)
	Send message to firefighters by email	(4.3, 6.5)	(9.8, 22.6)	(6.1, 19.3)	(4.2, 6.4)
	Other	(0.8, 2.0)	(1.7, 7.7)	(0.9, 9.8)	(0.7, 2.0)
	Legitimately Skipped Question	(36.2, 42.0)	(15.1, 28.9)	(10.8, 26.5)	(36.5, 42.4)
51.	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		(31.6, 36.9)	(42.1, 59.4)	(41.8, 62.6)	(31.3, 36.7)
		(35.5, 41.3)	(30.2, 47.2)	(28.3, 48.9)	(35.5, 41.4)
Yes	Legitimately Skipped Question	(24.8, 30.2)	(6.4, 17.7)	(5.1, 17.4)	(25.1, 30.5)

Exhibit B-7b. Results from the Fire Department Survey	Confidence Interval Estimates by Type of Fatality (continued)
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No

(continued)

B-321

Exhibit B-7b.	Results from the Fire De	partment Survey,	Confidence Interval	Estimates by 1	Evpe of Fatality	(continued)
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		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	(0.2, 1.1)	(0.3, 4.7)	(0.5, 4.7)	(0.2, 1.1)
	Disagree	(2.6, 4.8)	(2.2, 9.3)	(1.8, 10.7)	(2.6, 4.8)
	Neither Agree nor Disagree	(16.5, 21.2)	(17.3, 32.7)	(12.7, 30.0)	(16.4, 21.1)
	Agree	(42.7, 48.6)	(45.8, 62.8)	(49.9, 70.1)	(42.4, 48.4)
	Strongly Agree	(2.7, 5.0)	(2.3, 10.1)	(1.5, 9.7)	(2.7, 5.0)
	Legitimately Skipped Question	(25.3, 30.8)	(6.4, 17.6)	(5.2, 17.5)	(25.6, 31.1)
52b.	Recommendations are easy to understand				
	Strongly Disagree	(0.2, 1.0)	(0.1, 3.6)	(0.2, 3.9)	(0.2, 1.1)
	Disagree	(1.1, 2.6)	(0.6, 5.6)	(0.8, 8.9)	(1.1, 2.7)
	Neither Agree nor Disagree	(17.5, 22.3)	(12.0, 26.0)	(11.0, 28.1)	(17.5, 22.4)
	Agree	(42.4, 48.4)	(51.9, 69.0)	(54.8, 74.6)	(42.1, 48.1)
	Strongly Agree	(3.5, 6.1)	(4.3, 13.7)	(1.2, 7.6)	(3.5, 6.1)
	Legitimately Skipped Question	(25.4, 30.9)	(6.6, 18.2)	(5.2, 17.7)	(25.7, 31.2)
52c.	Recommendations are specific and concrete				
	Strongly Disagree	(0.2, 1.0)	(0.1, 3.5)	(0.2, 3.9)	(0.2, 1.0)
	Disagree	(2.3, 4.4)	(3.8, 11.8)	(1.0, 8.3)	(2.3, 4.4)
	Neither Agree nor Disagree	(24.0, 29.4)	(19.2, 34.7)	(18.8, 37.9)	(24.0, 29.4)
	Agree	(35.0, 40.8)	(39.1, 56.6)	(43.5, 64.4)	(34.8, 40.6)
	Strongly Agree	(2.8, 5.2)	(4.3, 13.7)	(1.9, 11.6)	(2.8, 5.2)
	Legitimately Skipped Question	(25.4, 30.8)	(6.5, 17.9)	(5.2, 17.8)	(25.6, 31.2)

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	(54.4, 60.4)	(56.8, 73.3)	(58.8, 78.8)	(54.2, 60.2)
	Respirator maintenance program guide	(11.9, 15.9)	(17.5, 32.4)	(9.9, 25.4)	(11.8, 15.8)
	CDs of firefighter program materials	(25.4, 30.7)	(31.3, 47.3)	(28.9, 49.2)	(25.2, 30.6)
	Alerts	(29.1, 34.5)	(40.0, 57.2)	(31.1, 51.3)	(28.8, 34.3)
	Hazard IDs	(14.5, 19.0)	(12.4, 25.1)	(15.7, 33.5)	(14.4, 18.9)
	Workplace Solutions	(10.7, 14.6)	(9.7, 21.7)	(12.2, 28.4)	(10.6, 14.5)
	Other	(0.4, 1.4)	(0.3, 4.3)	(**, **)	(0.4, 1.4)
	None. I have not seen any NIOSH materials.	(22.6, 27.9)	(7.6, 19.2)	(6.7, 22.7)	(22.8, 28.2)
53a.	How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	(0.8, 2.2)	(0.4, 5.9)	(0.3, 6.2)	(0.8, 2.2)
	Dissatisfied	(0.0, 0.7)	(0.1, 3.8)	(**, **)	(0.0, 0.8)
	Neither satisfied nor dissatisfied	(18.8, 23.8)	(11.4, 25.1)	(9.5, 27.0)	(18.9, 23.9)
	Satisfied	(44.1, 50.1)	(51.1, 67.8)	(50.3, 71.4)	(43.9, 49.9)
	Very satisfied	(4.0, 6.7)	(5.6, 15.7)	(3.7, 16.3)	(4.0, 6.6)
	Legitimately Skipped Question	(22.4, 27.7)	(7.0, 18.3)	(6.8, 22.8)	(22.6, 28.0)
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		(56.5, 62.2)	(22.4, 37.9)	(32.5, 52.9)	(56.9, 62.6)
	Yes, in the last year	(31.9, 37.3)	(50.2, 67.0)	(40.4, 60.6)	(31.5, 37.0)
No	Yes, longer than one year ago	(4.9, 7.6)	(7.0, 18.5)	(2.9, 16.6)	(4.8, 7.6)

Note: Traumatic includes those fatalities considered both "Traumatic" and "Cardiovascular."

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
1.	Does your department have a Safety Officer?				
		1,587	146	112	1,329
		1,587	146	112	1,329
2 es	Does your department have a Training Officer?				
No		1,600	146	111	1,343
		1,600	146	111	1,343
S es No	Some fire departments use Standard Operating Procedures (SOPs) or Standard Operating Guidelines (SOGs) to describe how certain situations should be approached. For which of the following does your department have SOPs/SOGs in place? MARK ALL THAT APPLY.				
	Incident Command Systems	1,600	144	113	1,343
	Maintenance of SCBAs	1,600	144	113	1,343
	Motor vehicle safety	1,600	144	113	1,343
	Participation in a personal physical fitness program	1,600	144	113	1,343
	Participation in regular health screenings for cardiovascular disease (CVD)	1,600	144	113	1,343
	Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)	1,600	144	113	1,343
	Use of Personal Alert Safety System (PASS) devices	1,600	144	113	1,343
	Use of personal protective equipment and protective clothing	1,600	144	113	1,343
	Use of radio communications	1,600	144	113	1,343
		1,600	144	113	1,343
	Does not apply. Our fire department does not use SOPs/SOGs.	1,600	144	113	1,343

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality

Other

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required?				
4a.	Fighting structure fires				
	No Training	1,607	145	113	1,349
	Optional Training	1,607	145	113	1,349
	Required Training	1,607	145	113	1,349
4b.	Driving safety				
	No Training	1,598	144	113	1,341
	Optional Training	1,598	144	113	1,341
	Required Training	1,598	144	113	1,341
4c.	Incident Command systems				
	No Training	1,584	144	111	1,329
	Optional Training	1,584	144	111	1,329
	Required Training	1,584	144	111	1,329
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs)				
	No Training	1,581	143	111	1,327
	Optional Training	1,581	143	111	1,327
	Required Training	1,581	143	111	1,327
4e.	Rapid Intervention Teams (RITs)				
	No Training	1,511	141	104	1,266
	Optional Training	1,511	141	104	1,266
	Required Training	1,511	141	104	1,266

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality (continued)

	·	, ,,		2		
		Type of Fatality				
	Question	Total	Traumatic	Cardiovascular	No Fatality	
4f.	Use of personal protective equipment and/or protective clothing					
	No Training	1,611	146	113	1,352	
	Optional Training	1,611	146	113	1,352	
	Required Training	1,611	146	113	1,352	
4g.	Use of radio communication devices					
	No Training	1,606	146	112	1,348	
	Optional Training	1,606	146	112	1,348	
	Required Training	1,606	146	112	1,348	
5.	Who provides training to your firefighters? MARK ALL THAT APPLY.					
	Our department's Training Officer	1,611	145	113	1,353	
	Other officers within our department	1,611	145	113	1,353	
	State fire training agency	1,611	145	113	1,353	
	United States Fire Administration's (USFA) National Fire Academy in Emmitsburg, MD	1,611	145	113	1,353	
	Conferences or regional meetings	1,611	145	113	1,353	
		1,611	145	113	1,353	
6. Othe	What other trainings have your firefighters attended in the last 12 months? MARK ALL THAT APPLY.					
	Roadside incidents/Motor Vehicle Accidents (MVA)	1,622	147	115	1,360	
	Scuba diving	1,622	147	115	1,360	
	Swift water rescue	1,622	147	115	1,360	
	Wildland fire fighting	1,622	147	115	1,360	
	HAZMAT	1,622	147	115	1,360	
		1,622	147	115	1,360	

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality (continued)

(continued)

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
8.	How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)?				
	Not at all familiar	1,610	145	114	1,351
	Not very familiar	1,610	145	114	1,351
	Somewhat familiar	1,610	145	114	1,351
	Very familiar	1,610	145	114	1,351
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	1,611	146	113	1,352
	Not very familiar	1,611	146	113	1,352
	Somewhat familiar	1,611	146	113	1,352
	Very familiar	1,611	146	113	1,352
10.	How does your department receive information about NIOSH's firefighter safety and health recommendations? MARK ALL THAT APPLY.				
	NIOSH mailings	1,609	146	114	1,349
	National conference presentations	1,609	146	114	1,349
	State-level conference presentations	1,609	146	114	1,349
	Other firefighters or departments	1,609	146	114	1,349
	At seminars or other training opportunities (not conferences)	1,609	146	114	1,349
	Trade publications (such as Firehouse and Fire Engineering)	1,609	146	114	1,349
	NIOSH website	1,609	146	114	1,349
	Links from other websites (such as NFPA and Firehouse)	1,609	146	114	1,349
	Media reports-newspaper, television, radio	1,609	146	114	1,349
		1,609	146	114	1,349
Othe	Does not apply. We have not received information about NIOSH er recommendations.	1,609	146	114	1,349

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality (continued)
			Туре о	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	1,536	140	108	1,288
	Developed new SOPs/SOGs	1,536	140	108	1,288
	Made changes to SOPs/SOGs	1,536	140	108	1,288
	Justified current budget/staffing	1,536	140	108	1,288
	Made new budget/staffing requests	1,536	140	108	1,288
	Justified grant applications	1,536	140	108	1,288
	Does not apply. We have not used NIOSH recommendations.	1,536	140	108	1,288
	Legitimately Skipped Question	1,536	140	108	1,288
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	1,530	139	107	1,284
	Personal protective equipment and clothing	1,530	139	107	1,284
		1,530	139	107	1,284
	PASS systems	1,530	139	107	1,284
SCB	A Incident Command systems	1,530	139	107	1,284
	Radio communications	1,530	139	107	1,284
	Physical fitness and cardiovascular disease (CVD)	1,530	139	107	1,284
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	139	107	1,284
		1,530	139	107	1,284
Othe	Does not apply. We have not used NIOSH recommendations for r training purposes.	1,530	139	107	1,284
	Legitimately Skipped Question	1,530	139	107	1,284

			Туре о	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
12.	Does your department have a fitness training that involves physical exercise and/or other health promotion activities (for example a cardiovascular fitness program, physical training program, wellness program, or other fitness program)?				
		1,596	144	111	1,341
	Yes, it's required	1,596	144	111	1,341
No	Yes, it's optional	1,596	144	111	1,341
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	1,582	143	112	1,327
	Less frequently than once a year	1,582	143	112	1,327
	One time a year	1,582	143	112	1,327
	More than one time a year	1,582	143	112	1,327
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	143	112	1,327
14.	Do all drivers of vehicles responding to emergency calls receive driver training before being allowed to operate the vehicles? MARK ALL THAT APPLY.				
	No	1,616	147	113	1,356
	Yes, they receive training required by the department	1,616	147	113	1,356
	Yes, they receive training required by the state	1,616	147	113	1,356
	Yes, they receive optional training	1,616	147	113	1,356
15.	How often do drivers of your fire department vehicles receive refresher driver training to continue being allowed to drive the vehicles?				
	Two or more times a year	1,611	147	111	1,353
	Once every year	1,611	147	111	1,353
	Less frequently than once a year	1,611	147	111	1,353
	Does not apply. Firefighters are not required to receive continuing driver training.	1,611	147	111	1,353
					(continued)

			Type of Fatality		
	Question	Total	Traumatic	Cardiovascular	No Fatality
16.	Does your fire department have a requirement regarding seat belt use in emergency vehicles?				
		1,613	147	112	1,354
		1,613	147	112	1,354
17 5 No	To what extent do you agree or disagree that your firefighters are able to fit comfortably in their seatbelts while wearing turnout gear in your emergency vehicles?				
	Strongly disagree	1,603	145	111	1,347
	Disagree	1,603	145	111	1,347
	Neither agree nor disagree	1,603	145	111	1,347
	Agree	1,603	145	111	1,347
	Strongly agree	1,603	145	111	1,347
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		1,616	147	114	1,355
	Some of the time	1,616	147	114	1,355
Neve	erAbout half the time	1,616	147	114	1,355
	Most of the time	1,616	147	114	1,355
		1,616	147	114	1,355
21. Alwa	How often is Incident Command established when $_{V\xi}$ esponding to structure fires?				
	<i>,</i>	1,604	145	114	1,345
	Rarely	1,604	145	114	1,345
Neve	erAbout half the time	1,604	145	114	1,345
	Most of the time	1,604	145	114	1,345
		1,604	145	114	1,345

Always

22. \	Question	Total	_		
22.		iotai	Traumatic	Cardiovascular	No Fatality
L L	What are the reasons why Incident Command is not always established by your fire department? MARK ALL FHAT APPLY.				
F	Fires are not usually big enough to require an Incident Commander	1,600	144	112	1,344
Ν	Not enough firefighters available at the scene of the fire	1,600	144	112	1,344
		1,600	144	112	1,344
C Other	Does not apply. My department always assigns an Incident Commander for structure fires.	1,600	144	112	1,344
	Legitimately Skipped Question	1,600	144	112	1,344
23. \ f	When Incident Command is established for a structure ire, what are the Incident Commander's responsibilities? MARK ALL THAT APPLY.	1 500	144	110	1 221
	entering the building	1,588	144	113	1,331
C	Develop and coordinate the fire attack strategy	1,588	144	113	1,331
E	Develop and initiate a risk management plan	1,588	144	113	1,331
C	Document all assessments, plans and events related to the fire	1,588	144	113	1,331
E	Ensure that at least four (4) firefighters are on the scene before entering the building	1,588	144	113	1,331
E	stablish a collapse zone around the building	1,588	144	113	1,331
E	Establish Rapid Intervention Team (RIT) or Rapid Intervention Crew (RIC)	1,588	144	113	1,331
I	dentify and implement a communication strategy	1,588	144	113	1,331
Ν	Nonitor location of all firefighters at the scene	1,588	144	113	1,331
		1,588	144	113	1,331

Other

			Туре о	of Fatality		
	Question	Total	Traumatic	Cardiovascular	No Fatality	
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?					
	Never	1,605	144	114	1,347	
	Some of the time	1,605	144	114	1,347	
	About half the time	1,605	144	114	1,347	
	Most of the time	1,605	144	114	1,347	
		1,605	144	114	1,347	
25. Alwa	What are the reasons why an Incident Commander does ynot always assign an Incident Safety Officer? MARK ALL THAT APPLY.					
	Fires are not big enough to require an Incident Safety Officer	1,588	143	113	1,332	
	Not enough firefighters are available at the scene of the fire	1,588	143	113	1,332	
		1,588	143	113	1,332	
Othe	Does not apply. Our Incident Commanders always assign an r Incident Safety Officer for structure fires.	1,588	143	113	1,332	
ound	Legitimately Skipped Question	1,588	143	113	1,332	
26.	How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires?					
	Never	1,602	142	113	1,347	
	Some of the time	1,602	142	113	1,347	
	About half the time	1,602	142	113	1,347	
	Most of the time	1,602	142	113	1,347	
		1,602	142	113	1,347	
27. Alwa	In what situations are RITs/RICs established? MARK ALL					
	When the building has more than one story/floor	1,600	143	111	1,346	
	When there are enough firefighters on and at the scene of the fire	1,600	143	111	1,346	
	Whenever firefighters enter a burning building	1,600	143	111	1,346	
		1,600	143	111	1,346	
	Legitimately Skipped Question	1,600	143	111	1,346	

Other

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
28.	What are the reasons why your fire department does not use RITs/RICs in every structure fire? MARK ALL THAT APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	1,575	141	112	1,322
	We don't have enough equipment, SCBAs, or turnout gear to establish an RIT/RIC	1,575	141	112	1,322
	We don't have enough firefighters available at the scene of the fire	1,575	141	112	1,322
	We don't have enough training or trained personnel at the scene to establish an RIT/RIC	1,575	141	112	1,322
	We have never established an RIT/RIC	1,575	141	112	1,322
	We use other fire departments in the area for RITs/RICs	1,575	141	112	1,322
	We use other safety practices and so we don't need them	1,575	141	112	1,322
		1,575	141	112	1,322
	Legitimately Skipped Question	1,575	141	112	1,322
29 ne	r Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting structure fires?				
		1,606	144	113	1,349
		1,606	144	113	1,349
30 5 No	About how often do you think your firefighters wear their PASS devices when fighting structure fires?				
		1,600	143	112	1,345
	Some of the time	1,600	143	112	1,345
Neve	rAbout half the time	1,600	143	112	1,345
	Most of the time	1,600	143	112	1,345
		1,600	143	112	1,345
					(continued)

Always

		Type of Fatality				
	Question	Total	Traumatic	Cardiovascular	No Fatality	
31.	Why do you think your firefighters do not use their PASS devices more often? MARK ALL THAT APPLY.					
	They don't have a PASS device to use	1,590	141	112	1,337	
	Situation doesn't require them	1,590	141	112	1,337	
	Firefighters think the devices do not always work reliably	1,590	141	112	1,337	
	Firefighters don't think they need them	1,590	141	112	1,337	
	Devices go off while firefighters are resting	1,590	141	112	1,337	
	Legitimately Skipped Question	1,590	141	112	1,337	
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?					
		1,606	144	113	1,349	
		1,606	144	113	1,349	
33 5	Do your firefighters ever have to share facepieces for SCBAs?					
NO		1.521	137	103	1.281	
		1,521	137	103	1,281	
Yes	Legitimately Skipped Question	1,521	137	103	1,281	
Biða	What are the reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters? MARK ALL THAT APPLY.					
	Didn't know it was recommended	1,517	136	101	1,280	
	Firefighters don't like using the equipment	1,517	136	101	1,280	
	Have never needed them (e.g., we don't do interior attacks)	1,517	136	101	1,280	
	They cost too much, there is not enough money in the budget	1,517	136	101	1,280	
	We don't have enough equipment for all of our firefighters	1,517	136	101	1,280	
	Shared systems work fine for our needs	1,517	136	101	1,280	
	-	1,517	136	101	1,280	
	Leaitimately Skipped Question	1.517	136	101	1.280	

Other

			Туре с	of Fatality	
	Question	Total	Traumatic	Cardiovascular	No Fatality
34.	About how often do you think your firefighters use SCBAs while fighting structure fires?				
	Never	1,536	140	105	1,291
	Some of the time	1,536	140	105	1,291
	About half the time	1,536	140	105	1,291
	Most of the time	1,536	140	105	1,291
		1,536	140	105	1,291
	Legitimately Skipped Question	1,536	140	105	1,291
85 va	yWhy do you think your firefighters do not use SCBAs more often when fighting structure fires? MARK ALL THAT APPLY.				
	Situation doesn't require them	1,525	140	106	1,279
	Firefighters do not trust that the SCBAs will work reliably	1,525	140	106	1,279
	Firefighters don't think they need them	1,525	140	106	1,279
	Firefighters don't like sharing facepieces with others	1,525	140	106	1,279
	Firefighters are concerned that the SCBA may be or become contaminated	1,525	140	106	1,279
	Wearing SCBAs makes it more difficult to work	1,525	140	106	1,279
	Firefighters don't have SCBAs to use	1,525	140	106	1,279
	Legitimately Skipped Question	1,525	140	106	1,279
36.	How often is routine maintenance performed on your SCBAs?				
	After every time they are used	1,270	120	87	1,063
	Once a month or more	1,270	120	87	1,063
	Several times a year	1,270	120	87	1,063
	Once a year	1,270	120	87	1,063
	Less than once a year	1,270	120	87	1,063
	Never. Maintenance has not been done on our SCBAs.	1,270	120	87	1,063
	Does not apply. My department does not have SCBAs.	1,270	120	87	1,063
	Legitimately Skipped Question	1,270	120	87	1,063
					(continued)

B-335

			Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality	
37.	How many Chemical/Biological/Radiological/Nuclear (CBRN) SCBAs are available (or on order) for use by firefighters within your department at this time?					
	Greater than zero	1,518	137	110	1,271	
		1,518	137	110	1,2/1	
37a. Zero	What are the reasons why your fire department does not have CBRN SCBAs? MARK ALL THAT APPLY.					
	CBRN SCBA devices are not needed in our department	1,454	125	108	1,221	
	We didn't know they were available	1,454	125	108	1,221	
	We don't have adequate technical information to purchase them	1,454	125	108	1,221	
	We don't have adequate funding to purchase them	1,454	125	108	1,221	
		1,454	125	108	1,221	
	Legitimately Skipped Question	1,454	125	108	1,221	
38 he	r Does your fire department have Automated External Defibrillators (AEDs)?					
	Yes	1,610	147	113	1,350	
		1,610	147	113	1,350	
38a.	At your fire department, where do you have AEDs?					
No	At the fire station(s)	1,424	129	94	1,201	
	On the emergency vehicles (or apparatus)	1,424	129	94	1,201	
	Both at the fire station(s) and on the vehicles (or apparatus)	1,424	129	94	1,201	
	Legitimately Skipped Question	1,424	129	94	1,201	
39.	How often has routine maintenance, including replacement of battery packs, been performed on your AEDs?					
	After every time they are used	1,235	115	97	1,023	
	Once a month or more	1,235	115	97	1,023	
	Several times a year	1,235	115	97	1,023	
	Once a year	1,235	115	97	1,023	
	Less frequently than once a year	1,235	115	97	1,023	

1,235

115

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality (continued)

Never. Maintenance on our AEDs has not been done.

(continued)

1,023

97

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
40.	About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires?				
		1,610	144	114	1,352
	Some of the time	1,610	144	114	1,352
Neve	erAbout half the time	1,610	144	114	1,352
	Most of the time	1,610	144	114	1,352
		1,610	144	114	1,352
Alwa	over, interference, or loss of communication. About how often do your communication devices have these or other problems?				
		1,612	147	115	1,350
	Some of the time	1,612	147	115	1,350
Neve	erAbout half the time	1,612	147	115	1,350
	Most of the time	1,612	147	115	1,350
		1,612	147	115	1,350
42. Alwa	How would you rate your department's budget in the $_y \mbox{solution}$ of the generation of the second se				
42a.	. Equipment				
	Not adequate	1,608	145	115	1,348
	Adequate	1,608	145	115	1,348
	More than adequate	1,608	145	115	1,348

	·		7 3	-	
		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
42b.	Training				
	Not adequate	1,608	145	115	1,348
	Adequate	1,608	145	115	1,348
	More than adequate	1,608	145	115	1,348
42c.	Personnel				
	Not adequate	1,551	140	114	1,297
	Adequate	1,551	140	114	1,297
	More than adequate	1,551	140	114	1,297
	for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports. One or two times per year	1,605 1,605	145 145	114 114	1,346 1,346
Neve	erSeveral times per year	1,605	145	114	1,346
	Once a month or more	1,605	145	114	1,346
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail	1,605	146	114	1,345
	On the Internet	1,605	146	114	1,345
	From colleagues in other departments	1,605	146	114	1,345
	At conferences or other meetings	1,605	146	114	1,345
	Legitimately Skipped Question	1,605	146	114	1,345
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	1,611	147	113	1,351
		1,611	147	113	1,351

1,611

147

113

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality (continued)

B-338

No

Legitimately Skipped Question

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

(continued)

1,351

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		1,583	143	113	1,327
		1,583	143	113	1,327
Yes	Legitimately Skipped Question	1,583	143	113	1,327
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	1,585	144	112	1,329
	Training sessions	1,585	144	112	1,329
	Provide copies of NIOSH reports to firefighters	1,585	144	112	1,329
	Provide copies of NIOSH report summaries to firefighters	1,585	144	112	1,329
	Provide summaries prepared by department to firefighters	1,585	144	112	1,329
	Postings on bulletin boards	1,585	144	112	1,329
	Post report on the department website	1,585	144	112	1,329
	Send message to firefighters by email	1,585	144	112	1,329
		1,585	144	112	1,329
	Legitimately Skipped Question	1,585	144	112	1,329
51 he	The NIOSH reports sometimes reference other documents, such as guidelines or more detailed technical reports. Does your fire department usually have access to documents that are referenced in NIOSH reports?				
		1,564	142	110	1,312
		1,564	142	110	1,312
Yes	Legitimately Skipped Question	1,564	142	110	1,312

No

		Type of Fatality					
	Question	Total	Traumatic	Cardiovascular	No Fatality		
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:						
52a.	Recommendations are practical						
	Strongly Disagree	1,547	142	111	1,294		
	Disagree	1,547	142	111	1,294		
	Neither Agree nor Disagree	1,547	142	111	1,294		

1,547

1,547

1,547

1,537

142

142

142

138

111

111

111

110

Exhibit B-7c. Results from the Fire Department Survey, Sample Sizes by Type of Fatality (continued)

Disagree 1,537 138 110 1,289 Neither Agree nor Disagree 1,537 138 110 1,289 Agree 1,537 138 110 1,289 Strongly Agree 1,537 138 110 1,289 Legitimately Skipped Question 1,537 138 110 1,289 52c. Recommendations are specific and concrete Strongly Disagree 1,537 139 109 1,289 Disagree 1,537 139 109 1,289 Neither Agree nor Disagree 1,537 139 109 1,289 Agree 1,537 139 109 1,289 Strongly Agree 1,537 139 109 1,289 Legitimately Skipped Question 1,537 139 109 1,289

(continued)

1,294

1,294

1,294

1,289

Agree

Strongly Agree

Strongly Disagree

Legitimately Skipped Question

52b. Recommendations are easy to understand

		Type of Fatality			
	Question	Total	Traumatic	Cardiovascular	No Fatality
53.	What other NIOSH materials have you seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	1,537	142	109	1,286
	Respirator maintenance program guide	1,537	142	109	1,286
	CDs of firefighter program materials	1,537	142	109	1,286
	Alerts	1,537	142	109	1,286
	Hazard IDs	1,537	142	109	1,286
	Workplace Solutions	1,537	142	109	1,286
		1,537	142	109	1,286
	None. I have not seen any NIOSH materials.	1,537	142	109	1,286
53a	r How satisfied or dissatisfied are you with these NIOSH materials?				
	Very dissatisfied	1,536	144	107	1,285
	Dissatisfied	1,536	144	107	1,285
	Neither satisfied nor dissatisfied	1,536	144	107	1,285
	Satisfied	1,536	144	107	1,285
	Very satisfied	1,536	144	107	1,285
	Legitimately Skipped Question	1,536	144	107	1,285
54.	Have you ever visited the NIOSH website at www.cdc.gov/niosh/firehome.html?				
		1,589	145	113	1,331
	Yes, in the last year	1,589	145	113	1,331
No	Yes, longer than one year ago	1,589	145	113	1,331

Note: Traumatic includes those fatalities considered both "Traumatic" and "Cardiovascular."

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

	Question	Main Study	Nonresponse Follow-up Study	Total	Bias
1.	Does your department have a Safety Officer?				
		70.3	80.2	71.0	0.8
		29.7	19.8	29.0	-0.8
12a s No	What kind of a position does your Safety Officer have within your department?				
	Full-time paid position	8.3	11.4 [+]	8.6	0.2
	Part-time paid position	2.1	1.3 [+]	2.0	-0.1
	Volunteer position	56.6	62.3	57.1	0.4
		3.0	5.2	3.2	0.2
	Legitimate Skip	29.9	19.8	29.1	-0.8
9 the	r How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	20.8	16.5	20.5	-0.3
	Not very familiar	33.5	24.1	32.8	-0.7
	Somewhat familiar	37.9 [2]	56.3 ^[1,3]	39.3 [2]	1.4
	Very familiar	7.8 [2,3]	3.2 ^[1,3]	7.5 ^[1,2]	-0.3
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	40.2	46.0	40.6	0.4
	Developed new SOPs/SOGs	26.3	36.3	27.1	0.8
	Made changes to SOPs/SOGs	34.9	43.1	35.5	0.6
	Justified current budget/staffing	5.0	10.8	5.5	0.4
	Made new budget/staffing requests	5.5 [2,3]	31.6 ^[1,3]	7.5 ^[1,2]	2.0
	Justified grant applications	15.5 ^[2,3]	37.2 [1,3]	17.2 ^[1,2]	1.7
	Does not apply. We have not used NIOSH recommendations.	30.1	35.6	30.5	0.4

			Nonresponse		
	Question	Main Study	Follow-up Study	Total	Bias
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.				
	Traffic hazards	29.3	31.5	29.5	0.2
	Personal protective equipment and clothing	41.6	30.5	40.7	-0.9
	SCBA	40.1	39.2	40.0	-0.1
	PASS systems	32.6	47.6	33.8	1.1
	Incident Command systems	32.1	30.9	32.0	-0.1
	Radio communications	23.0	26.7	23.3	0.3
	Physical fitness and cardiovascular disease (CVD)	8.5	12.5	8.8	0.3
	Building code compliance (e.g., warning against the use of wooden trusses)	6.9 [2]	27.0 ^[1,3]	8.5 ^[2]	1.5
		2.3	5.3 [+]	2.6	0.2
Othe	Does not apply. We have not used NIOSH recommendations for r training purposes.	1.9	4.9 [+]	2.1	0.2
othe	Legitimate Skip	41.9	36.0	41.4	-0.4
13.	How often do your firefighters receive screenings for				
	cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	14.5	20.3	15.0	0.4
	Less frequently than once a year	7.1 ^[2,3]	20.5 ^[1,3]	8.1 ^[1,2]	1.0
	One time a year	17.1	27.2	17.9	0.8
	More than one time a year	0.3	7.6 [+]	0.8 [+]	0.6
	Does not apply. Firefighters are not required to receive CVD screenings	60.9 ^[2,3]	24.4 [1,3]	58.2 ^[1,2]	-2.8
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
		5.4	6.0 [+]	5.4	0.0
	Some of the time	22.7	16.4	22.3	-0.5
Neve	rAbout half the time	17.0	11.2 [+]	16.6	-0.4
	Most of the time	38.4 [2,3]	18.1 ^[1,3]	36.9 ^[1,2]	-1.5
		16.5 ^[2,3]	48.4 ^[1,3]	18.8 ^[1,2]	2.3

			Nonresponse		
	Question	Main Study	Follow-up Study	Total	Bias
21.	How often is Incident Command established when responding to structure fires?				
		2.3 ^[2,3]	0.5 [1,3,+]	2.2 [1,2]	-0.1
	Rarely	6.8	3.6 [+]	6.5	-0.2
Neve	PrAbout half the time	6.7	9.1 [+]	6.9	0.2
	Most of the time	27.6 [2,3]	9.4 [1,3]	26.3 ^[1,2]	-1.3
		56.6 ^[2,3]	77.5 ^[1,3]	58.1 ^[1,2]	1.5
24.	About how often does an Incident Commander assign an vIncident Safety Officer when responding to structure fires?				
/	Never	13.3	9.3	13.0	-0.3
	Some of the time	26.5 ^[2,3]	11.4 ^[1,3]	25.4 ^[1,2]	-1.1
	About half the time	8.1 ^[2,3]	3.0 ^[1,3,+]	7.7 ^[1,2]	-0.4
	Most of the time	29.8	29.7	29.8	-0.0
	Always	22.3 ^[2,3]	46.6 [1,3]	24.1 ^[1,2]	1.8
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		99.2	97.2	99.1	-0.2
	No	0.8	2.8 [+]	0.9	0.2
33 6	Do your firefighters ever have to share facepieces for SCBAs?				
		49.7	37.7	48.8	-0.9
	No	49.5	59.5	50.3	0.8
Yes	Legitimate Skip	0.8	2.8 [+]	1.0	0.2
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	53.3	51.1	53.2	-0.2
	No	20.0 [2,3]	48.9 [1,3]	22.2 [1,2]	2.1
	Legitimate Skip	26.6 [2,3]	* * [1,3]	24.7 ^[1,2]	-2.0

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation

	Question	Main Study	Nonresponse Follow-up Study	Total	Bias
47.	Overall, how would you rate the amount of detail in the NIOSH reports?				
	Tool little detail	2.2	4.5 [+]	2.3	0.2
	About the right amount of detail	67.5 ^[2,3]	42.9 ^[1,3]	65.7 ^[1,2]	-1.8
	Too much detail	2.8	2.5 [+]	2.8	-0.0
	Legitimate Skip	27.5 ^[2,3]	50.0 ^[1,3]	29.2 ^[1,2]	1.7
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		60.7	45.4	59.5	-1.1
	No	12.1 ^[2]	4.5 [1,3,+]	11.5 ^[2]	-0.6
Yes	Legitimate Skip	27.3 ^[2,3]	50.0 ^[1,3]	29.0 ^[1,2]	1.7
50a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	23.5	16.5	23.0	-0.5
	Training sessions	44.2	30.3	43.2	-1.0
	Provide copies of NIOSH reports to firefighters	16.2	13.6 [+]	16.0	-0.2
	Provide copies of NIOSH report summaries to firefighters	6.2	11.5 [+]	6.6	0.4
	Provide summaries prepared by department to firefighters	1.8	9.5 [+]	2.4	0.6
	Postings on bulletin boards	38.5	32.7	38.0	-0.4
	Post report on the department website	1.1	0.8 [+]	1.1	-0.0
	Send message to firefighters by email	5.3	4.3	5.2	-0.1
	Other	1.3	15.7	2.3	1.1
	Legitimate Skip	39.1	54.6	40.2	1.1

	Question	Main Study	Nonresponse Follow-up Study	Total	Bias
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	0.5 ^[2,3]	* * [1,3]	0.4 [1,2]	-0.0
	Disagree	3.6	3.7 [+]	3.6	0.0
	Neither Agree nor Disagree	18.7 ^[2,3]	4.0 ^[1,3,+]	17.6 ^[1,2]	-1.1
	Agree	45.6 [2,3]	26.0 ^[1,3]	44.1 ^[1,2]	-1.5
	Strongly Agree	3.7	16.3	4.6	1.0
	Legitimate Skip	28.0 ^[2,3]	50.0 ^[1,3]	29.6 ^[1,2]	1.7
52b.	Recommendations are easy to understand				
	Strongly Disagree	0.4 [2,3]	* * [1,3]	0.4 [1,2]	-0.0
	Disagree	1.7 ^[2,3]	* * [1,3]	1.6 ^[1,2]	-0.1
	Neither Agree nor Disagree	19.8 ^[2,3]	7.5 [1,3,+]	18.9 ^[1,2]	-0.9
	Agree	45.4 [2,3]	28.3 ^[1,3]	44.1 ^[1,2]	-1.3
	Strongly Agree	4.6	14.1 [+]	5.4	0.7
	Legitimate Skip	28.1 ^[2,3]	50.0 ^[1,3]	29.7 ^[1,2]	1.7
52c.	Recommendations are specific and concrete				
	Strongly Disagree	0.4 [2,3]	* * [1,3]	0.4 [1,2]	-0.0
	Disagree	3.2	12.8 [+]	3.9	0.7
	Neither Agree nor Disagree	26.6 [2]	14.0 ^[1,3]	25.7 ^[2]	-1.0
	Agree	37.9 ^[2,3]	14.2 ^[1,3]	36.1 ^[1,2]	-1.8
	Strongly Agree	3.8	8.9 [+]	4.2	0.4
	Legitimate Skip	28.0 ^[2,3]	50.0 ^[1,3]	29.7 ^[1,2]	1.7

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

-			Nonrosponso		
	Question	Main Study	Follow-up Study	Total	Bias
1.	Does your department have a Safety Officer?				
		(67.5, 72.9)	(65.0, 89.9)	(68.2, 73.7)	(-0.3, 1.8)
		(27.1, 32.5)	(10.1, 35.0)	(26.3, 31.8)	(-1.8, 0.3)
12.as No	What kind of a position does your Safety Officer have within your department?				
	Full-time paid position	(7.3, 9.5)	(3.9, 28.8)	(7.3, 10.0)	(-0.7, 1.1)
	Part-time paid position	(1.5, 3.0)	(0.4, 3.6)	(1.4, 2.9)	(-0.2, 0.1)
	Volunteer position	(53.8, 59.4)	(45.4, 76.6)	(54.2, 59.9)	(-0.8, 1.7)
	Other	(2.3, 4.0)	(2.2, 11.8)	(2.5, 4.2)	(-0.2, 0.5)
	Legitimate Skip	(27.2, 32.7)	(10.1, 35.0)	(26.5, 31.9)	(-1.8, 0.3)
9.	How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)?				
	Not at all familiar	(18.4, 23.3)	(8.1, 30.5)	(18.1, 23.0)	(-1.2, 0.5)
	Not very familiar	(30.8, 36.4)	(13.2, 39.8)	(30.1, 35.7)	(-1.8, 0.4)
	Somewhat familiar	(35.1, 40.7)	(39.5, 71.7)	(36.3, 42.3)	(-0.1, 2.8)
	Very familiar	(6.5, 9.4)	(1.5, 6.8)	(6.2, 8.9)	(-0.6, -0.1)
11.	In what ways has your department used NIOSH recommendations? MARK ALL THAT APPLY.				
	Made changes to training program	(37.3, 43.1)	(29.4, 63.4)	(37.7, 43.6)	(-1.0, 1.8)
	Developed new SOPs/SOGs	(23.8, 29.0)	(21.1, 54.7)	(24.4, 29.9)	(-0.6, 2.2)
	Made changes to SOPs/SOGs	(32.2, 37.7)	(26.8, 61.0)	(32.7, 38.5)	(-0.8, 2.1)
	Justified current budget/staffing	(4.0, 6.3)	(4.9, 21.9)	(4.4, 6.9)	(-0.2, 1.1)
	Made new budget/staffing requests	(4.4, 6.8)	(16.9, 51.2)	(5.7, 9.7)	(0.4, 3.6)
	Justified grant applications	(13.5, 17.8)	(21.7, 55.9)	(14.9, 19.9)	(0.1, 3.2)
	Does not apply. We have not used NIOSH recommendations.	(27.3, 32.9)	(21.0, 53.6)	(27.7, 33.5)	(-0.9, 1.8)

Exhibit B-8b. Results from the Fire Department Survey, Confidence Interval Estimates from Main Study and Nonresponse Follow-up Study

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	Question	Main Study	Nonresponse Follow-up Study	Total	Bias
116	Can you identify tonics of NIOSH recommendations that	Ham Study		Total	Dias
110.	you have used for training purposes? If so, MARK ALL				
	THAT APPLY.				
	Traffic hazards	(26.7, 32.1)	(17.2, 50.4)	(26.7, 32.4)	(-1.2, 1.5)
	Personal protective equipment and clothing	(38.7, 44.5)	(17.0, 48.3)	(37.8, 43.7)	(-2.1, 0.4)
	SCBA	(37.2, 43.0)	(23.8, 57.2)	(37.1, 43.0)	(-1.4, 1.3)
	PASS systems	(29.9, 35.5)	(30.7, 65.0)	(30.9, 36.8)	(-0.3, 2.6)
	Incident Command systems	(29.4, 34.9)	(17.3, 49.0)	(29.2, 34.9)	(-1.4, 1.2)
	Radio communications	(20.7, 25.6)	(14.2, 44.6)	(20.9, 26.0)	(-0.9, 1.5)
	Physical fitness and cardiovascular disease (CVD)	(7.1, 10.2)	(4.6, 29.9)	(7.3, 10.7)	(-0.6, 1.2)
	Building code compliance (e.g., warning against the use of wooden trusses)	(5.6, 8.5)	(13.0, 47.9)	(6.6, 10.8)	(-0.0, 3.1)
	Other	(1.6, 3.4)	(1.3, 19.0)	(1.7, 3.7)	(-0.3, 0.8)
	Does not apply. We have not used NIOSH recommendations for training purposes.	(1.3, 2.9)	(1.1, 19.4)	(1.4, 3.3)	(-0.3, 0.8)
	Legitimate Skip	(38.9, 44.8)	(21.2, 54.1)	(38.4, 44.4)	(-1.8, 0.9)
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?				
	One time, when they first join the department	(12.7, 16.6)	(9.3, 38.7)	(13.0, 17.2)	(-0.7, 1.6)
	Less frequently than once a year	(5.8, 8.6)	(10.5, 36.2)	(6.6, 9.9)	(0.0, 2.0)
	One time a year	(15.2, 19.3)	(15.1, 44.0)	(15.8, 20.2)	(-0.4, 1.9)
	More than one time a year	(0.1, 0.7)	(1.6, 30.0)	(0.3, 2.6)	(-0.4, 1.5)
	Does not apply. Firefighters are not required to receive CVD screenings	(58.3, 63.5)	(12.2, 42.8)	(55.3, 61.0)	(-4.2, -1.3)
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?				
	Never	(4.2, 6.9)	(1.5, 21.3)	(4.2, 7.0)	(-0.6, 0.6)
	Some of the time	(20.3, 25.3)	(7.9, 31.0)	(19.9, 24.8)	(-1.3, 0.4)
	About half the time	(14.8, 19.4)	(3.8, 28.7)	(14.4, 18.9)	(-1.3, 0.4)
	Most of the time	(35.6, 41.3)	(9.8, 30.9)	(34.1, 39.8)	(-2.5, -0.4)
	Always	(14.6, 18.7)	(31.4, 65.8)	(16.4, 21.5)	(0.6, 4.0)

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			Nonresponse		
	Question	Main Study	Follow-up Study	Total	Bias
21.	How often is Incident Command established when responding to structure fires?				
	Never	(1.5, 3.5)	(0.1, 3.5)	(1.4, 3.3)	(-0.2, -0.0)
	Rarely	(5.4, 8.5)	(0.8, 14.3)	(5.2, 8.2)	(-0.6, 0.2)
	About half the time	(5.3, 8.4)	(3.3, 23.0)	(5.5, 8.6)	(-0.5, 0.8)
	Most of the time	(25.0, 30.4)	(3.5, 22.7)	(23.8, 29.0)	(-2.2, -0.5)
	Always	(53.7, 59.4)	(61.8, 88.0)	(55.1, 61.0)	(0.3, 2.7)
24.	About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires?				
	Never	(11.4, 15.5)	(3.4, 23.0)	(11.1, 15.2)	(-1.0, 0.4)
	Some of the time	(24.0, 29.2)	(4.9, 24.2)	(22.9, 28.0)	(-2.0, -0.3)
	About half the time	(6.6, 9.9)	(0.9, 9.2)	(6.3, 9.4)	(-0.7, -0.0)
	Most of the time	(27.2, 32.5)	(15.9, 48.6)	(27.1, 32.6)	(-1.3, 1.3)
	Always	(19.9, 24.9)	(30.1, 63.8)	(21.5, 26.9)	(0.3, 3.3)
32.	Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?				
		(98.4, 99.6)	(87.1, 99.4)	(98.2, 99.5)	(-0.5, 0.2)
		(0.4, 1.6)	(0.6, 12.9)	(0.5, 1.8)	(-0.2, 0.5)
33 5 No	Do your firefighters ever have to share facepieces for SCBAs?				
		(46.7, 52.7)	(22.6, 55.6)	(45.7, 51.9)	(-2.3, 0.4)
		(46.5, 52.5)	(41.8, 75.0)	(47.2, 53.3)	(-0.6, 2.1)
Yes	Legitimate Skip	(0.4, 1.6)	(0.6, 12.9)	(0.5, 1.9)	(-0.2, 0.5)
415.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?				
	Yes	(50.4, 56.2)	(34.1, 67.7)	(50.2, 56.1)	(-1.5, 1.1)
		(17.8, 22.5)	(32.3, 65.9)	(19.7, 24.9)	(0.7, 3.6)
	Legitimate Skip	(24.1, 29.4)	(**, **)	(22.2, 27.3)	(-2.7, -1.3)
No					(continued)

No

	Question	Main Study	Nonresponse Follow-up Study	Total	Bias
47		Ham Study	Tonow-up Study	Total	Dias
47.	Overall, how would you rate the amount of detail in the NIOSH reports?				
	Tool little detail	(1.5, 3.2)	(0.9, 19.9)	(1.6, 3.5)	(-0.4, 0.7)
	About the right amount of detail	(64.6, 70.3)	(26.6, 61.0)	(62.7, 68.6)	(-3.3, -0.4)
	Too much detail	(2.0, 3.9)	(0.8, 8.1)	(2.0, 3.8)	(-0.3, 0.2)
	Legitimate Skip	(24.9, 30.3)	(33.0, 67.1)	(26.4, 32.2)	(0.3, 3.1)
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?				
		(57.7, 63.5)	(28.8, 63.1)	(56.5, 62.5)	(-2.5, 0.2)
		(10.2, 14.1)	(0.9, 19.6)	(9.7, 13.5)	(-1.1, 0.0)
Yes	Legitimate Skip	(24.7, 30.1)	(33.0, 67.1)	(26.2, 31.9)	(0.3, 3.1)
5 0a	How is this information disseminated to firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	(21.1, 26.1)	(6.4, 36.5)	(20.5, 25.7)	(-1.6, 0.6)
	Training sessions	(41.3, 47.2)	(16.6, 48.8)	(40.2, 46.2)	(-2.3, 0.3)
	Provide copies of NIOSH reports to firefighters	(14.2, 18.3)	(4.6, 34.0)	(14.0, 18.2)	(-1.2, 0.8)
	Provide copies of NIOSH report summaries to firefighters	(5.0, 7.7)	(3.2, 33.8)	(5.1, 8.4)	(-0.7, 1.5)
	Provide summaries prepared by department to firefighters	(1.2, 2.7)	(2.0, 34.7)	(1.4, 4.0)	(-0.5, 1.7)
	Postings on bulletin boards	(35.6, 41.3)	(17.7, 52.2)	(35.1, 41.0)	(-1.7, 0.9)
	Post report on the department website	(0.7, 1.8)	(0.1, 5.0)	(0.7, 1.8)	(-0.1, 0.1)
	Send message to firefighters by email	(4.3, 6.5)	(2.1, 8.3)	(4.3, 6.4)	(-0.3, 0.2)
	Other	(0.8, 2.0)	(5.7, 36.5)	(1.3, 4.1)	(-0.1, 2.3)
	Legitimate Skip	(36.2, 42.0)	(36.9, 71.2)	(37.3, 43.3)	(-0.2, 2.5)

	Question	Main Study	Nonresponse Follow-up Study	Total	Bias
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	(0.2, 1.1)	(**, **)	(0.2, 1.0)	(-0.1, -0.0)
	Disagree	(2.6, 4.8)	(0.5, 21.4)	(2.6, 4.9)	(-0.5, 0.5)
	Neither Agree nor Disagree	(16.5, 21.2)	(0.7, 20.6)	(15.4, 20.0)	(-1.8, -0.4)
	Agree	(42.7, 48.6)	(13.9, 43.3)	(41.2, 47.2)	(-2.8, -0.2)
	Strongly Agree	(2.7, 5.0)	(6.0, 37.2)	(3.3, 6.6)	(-0.3, 2.2)
	Legitimate Skip	(25.3, 30.8)	(33.0, 67.1)	(26.8, 32.6)	(0.2, 3.1)
52b.	Recommendations are easy to understand				
	Strongly Disagree	(0.2, 1.0)	(**, **)	(0.2, 1.0)	(-0.1, -0.0)
	Disagree	(1.1, 2.6)	(**, **)	(1.0, 2.4)	(-0.2, -0.1)
	Neither Agree nor Disagree	(17.5, 22.3)	(1.9, 24.8)	(16.6, 21.3)	(-1.8, -0.1)
	Agree	(42.4, 48.4)	(15.7, 45.5)	(41.1, 47.1)	(-2.6, -0.0)
	Strongly Agree	(3.5, 6.1)	(4.6, 36.2)	(3.9, 7.3)	(-0.5, 1.9)
	Legitimate Skip	(25.4, 30.9)	(33.0, 67.1)	(26.9, 32.7)	(0.2, 3.1)
52c.	Recommendations are specific and concrete				
	Strongly Disagree	(0.2, 1.0)	(**, **)	(0.2, 0.9)	(-0.1, -0.0)
	Disagree	(2.3, 4.4)	(4.1, 33.5)	(2.7, 5.7)	(-0.4, 1.8)
	Neither Agree nor Disagree	(24.0, 29.4)	(5.7, 30.4)	(23.1, 28.4)	(-2.0, 0.0)
	Agree	(35.0, 40.8)	(7.5, 25.2)	(33.3, 39.0)	(-2.9, -0.7)
	Strongly Agree	(2.8, 5.2)	(1.7, 35.2)	(2.9, 6.1)	(-0.7, 1.5)
1	Legitimate Skip	(25.4, 30.8)	(33.0, 67.1)	(26.9, 32.7)	(0.2, 3.1)

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

	Question	Main Study	Nonresponse Follow-up Study	Total
1.	Does your department have a Safety Officer?			
		1,587	129	1,716
		1,587	129	1,716
1a s	What kind of a position does your Safety Officer have within your			
No	department?			
	Full-time paid position	1,572	127	1,699
	Part-time paid position	1,572	127	1,699
	Volunteer position	1,572	127	1,699
		1,572	127	1,699
	Legitimate Skip	1,572	127	1,699
9the	$_{ m r}$ How familiar are you with NIOSH's Fire Fighter Fatality Investigation			
	and Prevention Program (FFFIPP)?			
	Not at all familiar	1,611	129	1,740
	Not very familiar	1,611	129	1,740
	Somewhat familiar	1,611	129	1,740
	Very familiar	1,611	129	1,740
11.	In what ways has your department used NIOSH recommendations?			
	MARK ALL THAT APPLY.			
	Made changes to training program	1,536	127	1,663
	Developed new SOPs/SOGs	1,536	127	1,663
	Made changes to SOPs/SOGs	1,536	127	1,663
	Justified current budget/staffing	1,536	127	1,663
	Made new budget/staffing requests	1,536	127	1,663
	Justified grant applications	1,536	127	1,663
	Does not apply. We have not used NIOSH recommendations.	1,536	127	1,663

Exhibit B-8c. Results from the Fire Department Survey, Sample Sizes from Main Study and Nonresponse Follow-up Study

	Question	Main Study	Nonresponse Follow-up Study	Total
11b.	Can you identify topics of NIOSH recommendations that you have used for training purposes? If so, MARK ALL THAT APPLY.			
	Traffic hazards	1,530	126	1,656
	Personal protective equipment and clothing	1,530	126	1,656
		1,530	126	1,656
	PASS systems	1,530	126	1,656
SCBA	A Incident Command systems	1,530	126	1,656
	Radio communications	1,530	126	1,656
	Physical fitness and cardiovascular disease (CVD)	1,530	126	1,656
	Building code compliance (e.g., warning against the use of wooden trusses)	1,530	126	1,656
		1,530	126	1,656
	Does not apply. We have not used NIOSH recommendations for training	1,530	126	1,656
Othe	r purposes.			
	Legitimate Skip	1,530	126	1,656
13.	How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors?			
	One time, when they first join the department	1,582	129	1,711
	Less frequently than once a year	1,582	129	1,711
	One time a year	1,582	129	1,711
	More than one time a year	1,582	129	1,711
	Does not apply. Firefighters are not required to receive CVD screenings	1,582	129	1,711
18.	About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles?			
		1,616	128	1,744
	Some of the time	1,616	128	1,744
Neve	rAbout half the time	1,616	128	1,744
	Most of the time	1,616	128	1,744
		1,616	128	1,744
				(continued)

Always

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Exhibit B-8c.	Results from the Fire Department Survey, Sample Sizes from Main Study and Nonresponse Follow-up Study
	(continued)

	Question	Main Study	Nonresponse	Total
24	Question	Main Study	Follow-up Study	TOLAI
21.	structure fires?			
		1,604	128	1,732
	Rarely	1,604	128	1,732
Neve	rAbout half the time	1,604	128	1,732
	Most of the time	1,604	128	1,732
		1,604	128	1,732
24.	About how often does an Incident Commander assign an Incident			
Aiwa	ys	1,605	129	1,734
	Some of the time	1,605	129	1,734
Neve	rAbout half the time	1,605	129	1,734
	Most of the time	1,605	129	1,734
		1,605	129	1,734
32. Alwa	Does your department have Self Contained Breathing Apparatuses \sqrt{SCBA} for your firefighters to use when combating structure fires?			
/		1,606	129	1,735
		1,606	129	1,735
33 5	Do your firefighters ever have to share facepieces for SCBAs?			
No		1,521	129	1,650
		1,521	129	1,650
Yes	Legitimate Skip	1,521	129	1,650
45.	Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?			
	Yes	1,611	129	1,740
		1,611	129	1,740
	Legitimate Skip	1,611	129	1,740

No

	Question	Main Study	Nonresponse Follow-up Study	Total
47.	Overall, how would you rate the amount of detail in the NIOSH reports?			
	Tool little detail	1,566	128	1,694
	About the right amount of detail	1,566	128	1,694
	Too much detail	1,566	128	1,694
	Legitimate Skip	1,566	128	1,694
50.	Does the fire department disseminate the information it receives from NIOSH to the firefighters?			
	Yes	1,583	128	1,711
		1,583	128	1,711
	Legitimate Skip	1,583	128	1,711
5 0a.	How is this information disseminated to firefighters? MARK ALL THAT APPLY.			
	Regular staff meetings	1,585	128	1,713
	Training sessions	1,585	128	1,713
	Provide copies of NIOSH reports to firefighters	1,585	128	1,713
	Provide copies of NIOSH report summaries to firefighters	1,585	128	1,713
	Provide summaries prepared by department to firefighters	1,585	128	1,713
	Postings on bulletin boards	1,585	128	1,713
	Post report on the department website	1,585	128	1,713
	Send message to firefighters by email	1,585	128	1,713
		1,585	128	1,713
	Legitimate Skip	1,585	128	1,713

Other

	Question	Main Study	Nonresponse Follow-up Study	Total
52.	NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations:			
52a.	Recommendations are practical			
	Strongly Disagree	1,547	128	1,675
	Disagree	1,547	128	1,675
	Neither Agree nor Disagree	1,547	128	1,675
	Agree	1,547	128	1,675
	Strongly Agree	1,547	128	1,675
	Legitimate Skip	1,547	128	1,675
52b.	Recommendations are easy to understand			
	Strongly Disagree	1,537	128	1,665
	Disagree	1,537	128	1,665
	Neither Agree nor Disagree	1,537	128	1,665
	Agree	1,537	128	1,665
	Strongly Agree	1,537	128	1,665
	Legitimate Skip	1,537	128	1,665
52c.	Recommendations are specific and concrete			
	Strongly Disagree	1,537	128	1,665
	Disagree	1,537	128	1,665
	Neither Agree nor Disagree	1,537	128	1,665
	Agree	1,537	128	1,665
	Strongly Agree	1,537	128	1,665
	Legitimate Skip	1,537	128	1,665

Note: Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

C

Additional Analysis Tables: Firefighter-Level Analysis and Logistic Regression Models

Firefighter-Level Analysis

		Census Region				
Question	1	Total	Northeast	South	Midwest	West
1. Do	es your department have a Safety					
Off	ficer?					
		70.0	80 7 [3]	87 7 ^[3]	69 1 [1,2,4]	82 5 ^[3]
No		79.0	$10.2^{[3]}$	$17.3^{[3]}$	$210^{[1,2,4]}$	$165^{[3]}$
Yes Do	as your department have a Training	21.0	19.5	17.5	51.9	10.5
4.05 D00	ficer?					
		93 3	90 9 [2]	96 1 ^[1,3]	91 5 ^[2]	93.6
		67	9 1 ^[2]	$39^{[1,3]}$	8 5 ^[2]	64
Ses Sor	me fire departments use Standard	0.7	7.1	5.9	0.5	0.1
No On	perating Procedures (SOPs) or Standard					
Op	perating Guidelines (SOGs) to describe					
hov	w certain situations should be					
apr	proached. For which of the following					
doe	es your department have SOPs/SOGs in					
pla	nce? MARK ALL THAT APPLY.					
Înc	cident Command Systems	89.6	91.0 ^[3]	92.3 ^[3]	83.4 ^[1,2]	90.3
Ma	intenance of SCBAs	76.8	83.4 ^[2,3]	74.4 [1]	73.0 ^[1]	76.9
Мо	otor vehicle safety	83.9	85.3 ^[3]	84.6 ^[3,4]	76.4 ^[1,2,4]	91.6 ^[2,3]
Par	rticipation in a personal physical fitness					
р	program	24.3	13.3 [2,4]	29.6 ^[1,3,4]	$14.0^{[2,4]}$	46.6 ^[1,2,3]
Par	rticipation in regular health screenings for		[2]		[1,4]	[2]
C	ardiovascular disease (CVD)	33.5	39 .7 ^[3]	32.2	$22.3^{[1,4]}$	43.4 ^[3]
Rap	pid Intervention Teams (RITs), also known					
a	s Rapid Intervention Crews (RICs) or					
F	Firefighter Assistance and Search Teams		ca o [3]	5 6 6 1 3 4 1	[124]	- , [2 3]
	FAST)	58.8	63.9 ^[5]	58.6 ^[3,4]	45.7	71.1 ^[2,5]
Use	e of Personal Alert Safety System (PASS)		a = c [2 3]	= 0.0 ^[1]	- 0.0 ^[1]	
d	levices	81.5	87.6	/9.0	/8.8	81.2
Use	e of personal protective equipment and	02.1	05 4 [3]	02 0 [3]	n n n [1, 2, 4]	047[3]
p p	protective clothing	93.1	95.4 ^[3]	93.9 ^[3]	$88.2^{[1,2,4]}$	94./ ^[3]
	e of radio communications	88.9	92.5	89.8 ^[-]	80.9 ^[1]	92.7
Oth	ner	10.7	15.5	8.2	8.0	13.0
Doe	es not apply. Our fire department does not	26	0.7[3,+]	2 3 [3]	5 7 [1,2,4]	2 3 [3]
u	ise SUPS/SUUS.	2.6	$0.7^{10,11}$	2.3	5.2	2.3

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.					
4a.	Fighting structure fires No Training Optional Training Required Training	1.2 11.1 88.1	0.4 ^[+] 9.3 ^[3] 90.6 ^[3]	$\begin{array}{c} 0.9 \\ 9.4^{[3]} \\ 90.1^{[3]} \end{array}$	$\begin{array}{c} 0.3^{[+]} \\ 17.0^{[1,2,4]} \\ 83.2^{[1,2]} \end{array}$	4.6 ^[+] 9.3 ^[3] 86.6
4b.	Driving safety No Training Optional Training Required Training	2.3 12.9 85.0	$1.0^{[3,+]} \\ 14.9^{[4]} \\ 84.2^{[3]}$	0.9 ^[3] 10.0 ^[3] 89.2 ^[3]	5.5 ^[1,2] 18.9 ^[2,4] 75.8 ^[1,2,4]	2.8 7.1 ^[1,3] 90.1 ^[3]
4c.	Incident Command systems No Training Optional Training Required Training	1.5 19.2 79.4	$0.4^{[3,+]} \\ 22.6^{[4]} \\ 77.0^{[4]}$	1.5 15.7 ^[3] 82.8 ^[3]	$\begin{array}{c} 3.3^{[1,4]} \\ 24.9^{[2,4]} \\ 72.3^{[2,4]} \end{array}$	0.5 ^[3,+] 13.0 ^[1,3] 86.5 ^[1,3]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs) No Training Optional Training Required Training	5.1 27.6 67.7	$2.4^{[4]} \\ 25.1^{[3,4]} \\ 72.5^{[3]}$	5.7 29.1 ^[4] 65.3	$\begin{array}{c} 4.3\\ 35.7^{[1,4]}\\ 60.9^{[1,4]}\end{array}$	9.7 ^[1] 15.2 ^[1,2,3] 75.7 ^[3]
4e.	Rapid Intervention Teams (RITs) No Training Optional Training Required Training	17.3 32.7 50.3	$12.3^{[3]} \\ 48.6^{[2,3,4]} \\ 39.7^{[2,4]}$	$\frac{16.6^{[3]}}{29.6^{[1,4]}}\\53.8^{[1,4]}$	$26.2^{[1,2,4]} \\ 29.9^{[1,4]} \\ 44.2^{[4]}$	$14.6^{[3]} \\ 15.5^{[1,2,3]} \\ 69.9^{[1,2,3]}$
4f.	Use of personal protective equipment and/or protective clothing No Training Optional Training Required Training	1.1 6.9 92.2	0.6 ^[+] 3.8 ^[3] 96.0 ^[3]	1.3 7.8 90.9	$1.4\\11.2^{[1,4]}\\87.4^{[1,4]}$	0.8 ^[+] 3.0 ^[3] 96.1 ^[3]
4g.	Use of radio communication devices No Training Optional Training Required Training	2.3 15.6 82.4	$\begin{array}{c c} 2.8^{[+]} \\ 14.0^{[3,4]} \\ 83.4^{[3,4]} \end{array}$	$1.7\\16.8^{[4]}\\82.2^{[4]}$	$\begin{array}{c} 3.3\\21.4^{[1,4]}\\75.3^{[1,4]}\end{array}$	$\begin{array}{c} 1.1^{[+]} \\ 6.5^{[1,2,3]} \\ 92.4^{[1,2,3]} \end{array}$

		Census Region					
Que	stion	Total	Northeast	South	Midwest	West	
5.	Who provides training to your firefighters?						
	MARK ALL THAT APPLY.						
	Our department's Training Officer	90.4	87.8	92.4	88.9	92.4	
	Other officers within our department	88.2	92.2 ^[2,3]	83.5 ^[1,4]	$86.8^{[1,4]}$	94.9 ^[2,3]	
	State fire training agency	78.1	86.4 ^[3,4]	77.6	75.5 ^[1]	68.6 ^[1]	
	United States Fire Administration's (USFA)						
	National Fire Academy in Emmitsburg, MD	34.4	29.5 ^[2]	44.1 ^[1,3]	$21.9^{[2,4]}$	38.5 ^[3]	
	Conferences or regional meetings	60.7	54.3 [4]	59.9 ^[4]	$60.8^{[4]}$	74.3 [1,2,3]	
	Other	25.6	31.6 ^[3]	25.1 ^[3]	$17.1^{[1,2,4]}$	29.8 ^[3]	
6.	What other trainings have your firefighters						
	attended in the last 12 months? MARK						
	ALL THAT APPLY.						
	Roadside incidents/Motor Vehicle Accidents						
	(MVA)	57.7	64.4 ^[2]	51.8 ^[1,4]	55.2	64.4 ^[2]	
	Scuba diving	11.9	9.7	15.1	11.7	8.2	
	Swift water rescue	19.5	$12.7^{[2,4]}$	$23.9^{[1,3]}$	$12.7^{[2,4]}$	31.6 ^[1,3]	
	Wildland fire fighting	40.3	24.3 [2,3,4]	36.9 ^[1,4]	34.1 ^[1,4]	87.0 ^[1,2,3]	
	HAZMAT	74.3	73.9	75.0	$67.8^{[4]}$	83.1 ^[3]	
	Other	38.1	47.1 ^[3,4]	39.5 ^[3]	$28.2^{[1,2]}$	34.3 [1]	
8.	How familiar are you with the National						
	Institute for Occupational Safety and						
	Health (NIOSH)?						
	Not at all familiar	4.8	3.2 ^[3]	4.7	7.1 [1]	4.6	
	Not very familiar	17.1	14.1 [3]	14.1 ^[3]	$24.4^{[1,2]}$	18.3	
	Somewhat familiar	58.1	58.0	60.6	57.2	53.3	
	Very familiar	20.0	24.7 ^[3]	20.6	$11.3^{[1,4]}$	23.9 ^[3]	
9.	How familiar are you with NIOSH's Fire						
	Fighter Fatality Investigation and						
	Prevention Program (FFFIPP)?						
	Not at all familiar	14.6	11.7 ^[3]	12.4 ^[3]	22.4 ^[1,2,4]	12.8 ^[3]	
	Not very familiar	27.2	28.6	27.2	29.5	21.0	
	Somewhat familiar	41.3	42.5	43.1	38.4	38.9	
	Very familiar	16.9	17.2	17.3	9.8 ^[4]	27.3 ^[3]	
		Census Region					
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Que	stion	Total	Northeast	South	Midwest	West	
10.	How does your department receive						
	information about NIOSH's firefighter						
	safety and health recommendations?						
	MARK ALL THAT APPLY.						
	NIOSH mailings	71.5	71.6	74.5	68.9	68.2	
	National conference presentations	9.3	5.7 ^[2]	$13.2^{[1,3]}$	5.8 ^[2,4]	$11.5^{[3]}$	
	State-level conference presentations	15.5	13.3	18.2	14.1	15.0	
	Other firefighters or departments	25.8	27.7	24.9	20.7 ^[4]	33.1 ^[3]	
	At seminars or other training opportunities						
	(not conferences)	21.4	23.3	24.1	16.4	19.3	
	Trade publications (such as Firehouse and						
	Fire Engineering)	55.5	54.6	57.4	49.3 ^[4]	$62.3^{[3]}$	
	NIOSH website	40.9	41.0 ^[3]	43.0 ^[3]	30.1 [1,2,4]	53.2 ^[3]	
	Links from other websites (such as NFPA and						
	Firehouse)	36.8	41.1 ^[3]	33.8 ^[4]	30.4 ^[1,4]	$47.3^{[2,3]}$	
	Media reports - newspaper, television, radio	15.9	22.7 ^[2]	$12.1^{[1]}$	14.9	15.0	
		2.7	1.1 [+]	4.6 ^[+]	0.8	3.8 ^[+]	
	Does not apply. We have not received						
Othe	r information about NIOSH						
	recommendations.	7.0	2.6 ^[2,3,4]	7.7 ^[1]	9.4 ^[1]	9.7 ^[1]	
11.	In what ways has your department used						
	NIOSH recommendations? MARK ALL						
	THAT APPLY.					503	
	Made changes to training program	48.5	46.4	49.4	43.2 ^[4]	58.3 ^[3]	
	Developed new SOPs/SOGs	35.3	34.8	37.3	29.7	39.5	
	Made changes to SOPs/SOGs	45.6	46.5	44.8	40.7 ^[4]	53.7 ^[3]	
	Justified current budget/staffing	10.6	6.4	15.3	7.8	10.6	
	Made new budget/staffing requests	12.2	8.8	18.5 ^[3]	6.2 ^[2]	11.2	
	Justified grant applications	19.7	19.5	21.5	18.4	17.6	
	Does not apply. We have not used NIOSH						
	recommendations.	25.0	29.6	23.1	26.4	19.5	
	Legitimately Skipped Question	7.3	$2.8^{[2,3]}$	8.0 ^[1]	9.8 ^[1]	9.9	

	Census Region				
Question	Total	Northeast	South	Midwest	West
11b. Can you identify topics of NIOSH					
recommendations that you have used for					
training purposes? If so, MARK ALL					
THAT APPLY.					
Traffic hazards	35.3	31.4	36.8	31.9 ^[4]	44.0 ^[3]
Personal protective equipment and clothing	49.6	52.8	49.7	45.3	50.3
SCBA	49.7	50.6	50.6	46.0	51.4
PASS systems	40.4	42.8	42.3	35.5	39.0
Incident Command systems	40.8	40.4	44.6	36.3	39.2
Radio communications	27.1	30.6	22.7	26.0	34.0
Physical fitness and cardiovascular disease					
(CVD)	15.9	$10.4^{[4]}$	18.7	13.2	22.4 ^[1]
Building code compliance (e.g., warning					
against the use of wooden trusses)	9.9	8.3	11.9	8.5	10.1
	4.8	2.9	8.1 [+]	2.4	3.2
Does not apply. We have not used NIOSH					
Other recommendations for training purposes.	1.8	2.2	2.2	1.5	0.5 [+]
Legitimately Skipped Question	32.5	32.5	31.1	36.3	29.7
12. Does your department have a fitness					
training that involves physical exercise					
and/or other health promotion activities					
(for example a cardiovascular fitness					
program, physical training program,					
wellness program, or other fitness					
program)?					
	58.8	68.4 ^[2,4]	54.1 ^[1,3,4]	$71.4^{[2,4]}$	$32.5^{[1,2,3]}$
Yes, it's required	16.9	$2.0^{[2,3,4]}$	24.5 ^[1,3]	8.1 [1,2,4]	39.2 ^[1,3]
No Yes, it's optional	24.3	29.6	21.4	20.4	28.3
13. How often do your firefighters receive					
screenings for cardiovascular disease					
(CVD) and its risk factors?					
One time, when they first join the department	14.5	18.1 ^[2]	9.4 ^[1,3]	18.4 ^[2]	14.5
Less frequently than once a year	9.2	5.8 ^[3]	9.7	12.2 ^[1]	8.9
One time a year	32.8	42.2 ^[3]	29.9	20.6 ^[1,4]	43.2 ^[3]
More than one time a year	0.4	**	$0.7^{[+]}$	0.3 [+]	0.4 [+]
Does not apply. Firefighters are not required					
to receive CVD screenings	43.2	33.9 ^[2,3]	50.3 [1,4]	$48.4^{[1,4]}$	33.0 ^[2,3]

		Census Region					
Que	stion	Total	Northeast	South	Midwest	West	
14.	Do all drivers of vehicles responding to						
	emergency calls receive driver training						
	before being allowed to operate the						
	vehicles? MARK ALL THAT APPLY.						
		4.1	$0.6^{[2,3,4,+]}$	$2.2^{[1,3]}$	$10.4^{[1,2]}$	5.5 ^[1]	
	Yes, they receive training required by the						
No	department	88.9	94.3 ^[3,4]	91.7 ^[3]	80.1 [1,2]	86.4 ^[1]	
	Yes, they receive training required by the						
	state	28.3	19.0 ^[2,4]	34.2 ^[1]	24.6 ^[4]	36.0 ^[1,3]	
	Yes, they receive optional training	13.6	13.8	14.2	13.2	12.3	
15.	How often do drivers of your fire						
	department vehicles receive refresher						
	driver training to continue being allowed						
	to drive the vehicles?						
	Two or more times a year	12.1	13.6	12.2	9.9	12.7	
	Once every year	43.6	46.3	43.6	44.3	37.8	
	Less frequently than once a year	28.4	23.7	32.0	$23.2^{[4]}$	35.5 ^[3]	
	Does not apply. Firefighters are not required						
	to receive continuing driver training.	15.9	16.3	$12.3^{[3]}$	22.6 ^[2,4]	14.0 ^[3]	
16.	Does your fire department have a						
	requirement regarding seat belt use in						
	emergency vehicles?						
		89.2	87.0 ^[4]	92.0 ^[3,4]	$82.4^{[2,4]}$	96.5 ^[1,2,3]	
	No	10.8	13.0 ^[4]	8.0 ^[3,4]	17.6 ^[2,4]	$3.5^{[1,2,3]}$	
V es	To what extent do you agree or disagree						
	that your firefighters are able to fit						
	comfortably in their seatbelts while						
	wearing turnout gear in your emergency						
	vehicles?						
	Strongly disagree	6.8	4.8	8.2	8.5	4.2	
		19.5	25.9 ^[4]	19.0 ^[4]	19.2 ^[4]	9.7 ^[1,2,3]	
	Neither agree nor disagree	25.2	27.2	23.9	28.5 ^[4]	19.4 ^[3]	
Disa	grægree	34.8	33.2	36.6	30.3	40.5	
	Strongly agree	13.7	8.9 ^[4]	12.3 ^[4]	13.5 ^[4]	$26.2^{[1,2,3]}$	

		Census Region				
Question		Total	Northeast	South	Midwest	West
18. About how often do you	think your					
firefighters use their seat	tbelts when riding					
in the emergency vehicle	s?					
		3.6	4.9 ^[2]	$1.4^{[1,3]}$	6.5 ^[2,4]	2.0 ^[3]
Some of the time		22.3	32.8 ^[4]	$21.2^{[4]}$	24.6 ^[4]	$2.7^{[1,2,3]}$
NeverAbout half the time		16.5	$20.0^{[4]}$	$17.9^{[4]}$	16.3 ^[4]	7.5 ^[1,2,3]
Most of the time		38.1	31.8 ^[4]	37.9 ^[4]	37.6 ^[4]	50.3 [1,2,3]
Always		19.6	10.5 ^[2,4]	21.6 ^[1,4]	14.9 ^[4]	37.5 ^[1,2,3]
21. How often is Incident Co	ommand					
established when respon	ding to structure					
fires?			5.1			
		1.3	1.0 ^[+]	1.3	0.8	2.2
		3.6	1.7 ^[3]	$3.3^{[3]}$	$7.1^{[1,2,4]}$	$2.4^{[3]}$
NeverAbout half the time		4.0	$2.5^{[3]}$	$2.9^{[3]}$	$6.7^{[1,2]}$	4.9
RarelyMost of the time		20.3	19.8 ^[3,4]	$19.7^{[3,4]}$	$28.8^{[1,2,4]}$	$9.1^{[1,2,3]}$
Always		70.8	75.1 [3]	72.8 ^[3,4]	56.5 ^[1,2,4]	81.4 ^[2,3]
22. What are the reasons wh	y Incident					
Command is not always	established by					
your fire department? M	IARK ALL THAT					
APPLY.						
Fires are not usually big en	nough to require an		[2]	[2,4]	[1.0.4]	[0.2]
Incident Commander		15.1	11.2 ^[5]	15.6 ^[3,4]	$22.3^{[1,2,4]}$	8.9 ^[2,3]
Not enough firefighters av	ailable at the scene		[2]	[2]	[1 2 4]	[2]
of the fire		12.6	8.4 ^[3]	12.0 ^[3]	$20.0^{[1,2,4]}$	9.8 ^[3]
Other		4.7	5.7 ^[4]	3.9	6.6 ^[4]	$2.1^{[1,3]}$
Does not apply. My depar	tment always					
assigns an Incident Com	nmander for					
structure fires.		3.4	5.1	1.6	3.9	4.2
Legitimately Skipped Ques	stion	70.8	75.0 ^[3]	72.5 ^[3,4]	56.7 ^[1,2,4]	81.8 ^[2,3]

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
23.	When Incident Command is established for					
	a structure fire, what are the Incident					
	Commander's responsibilities? MARK					
	ALL THAT APPLY.					
	Conduct an initial assessment before the other					
	firefighters begin entering the building	91.2	95.3 ^[2]	89.3 [1]	91.8	87.8
	Develop and coordinate the fire attack					
	strategy	94.2	94.1	94.3	95.2	92.8
	Develop and initiate a risk management plan	63.6	64.3 ^[3]	66.9 ^[3]	54.3 ^[1,2,4]	68.4 ^[3]
	Document all assessments, plans and events					
	related to the fire	42.2	40.1 [4]	39.7 ^[4]	37.5 ^[4]	59.5 ^[1,2,3]
	Ensure that at least four (4) firefighters are on					
	the scene before entering the building	70.4	63.0 ^[3]	71.4	75.5	73.4
	Establish a collapse zone around the building	53.9	60.9 ^[3]	49.9	51.0 ^[1]	56.0
	Establish Rapid Intervention Team (RIT) or					
	Rapid Intervention Crew (RIC)	64.6	73.0 ^[2,3]	61.6 ^[1,3,4]	52.3 ^[1,2,4]	76.3 ^[2,3]
	Identify and implement a communication					
	strategy	67.5	69.1	63.9	67.6	73.6
	Monitor location of all firefighters at the					
	scene	77.2	65.1 ^[2,3,4]	82.7 ^[1]	79.4 ^[1]	81.0 ^[1]
	Other	10.4	11.4	7.8 ^[4]	9.1	17.5 ^[2]
24.	About how often does an Incident					
	Commander assign an Incident Safety					
	Officer when responding to structure fires?					
		8.2	5.5 ^[3]	7.3 ^[3]	$13.1^{[1,2]}$	7.4
	Some of the time	25.1	25.6	22.9	28.1	24.5
Neve	erAbout half the time	8.0	5.1	9.1	7.6	11.2
	Most of the time	31.6	29.0	34.7	29.9	31.4
	Always	27.2	34.8 ^[3]	26.0	21.3 ^[1]	25.6

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
25.	What are the reasons why an Incident					
	Commander does not always assign an					
	Incident Safety Officer? MARK ALL					
	THAT APPLY.					
	Fires are not big enough to require an Incident					
	Safety Officer	28.0	$18.6^{[2,3,4]}$	30.6 ^[1]	29.6 ^[1]	36.0 ^[1]
	Not enough firefighters are available at the					
	scene of the fire	42.4	36.5 [3]	40.8 ^[3]	54.1 [1,2,4]	38.3 ^[3]
	Other	20.4	19.3	23.2 ^[3]	13.0 ^[2,4]	27.1 ^[3]
	Does not apply. Our Incident Commanders					
	always assign an Incident Safety Officer for					
	structure fires.	2.0	3.1	1.9	1.5	1.4
	Legitimately Skipped Question	27.5	36.0 ^[3]	26.0	21.6 ^[1]	25.7
26.	How often are Rapid Intervention Teams					
	(RITs) or Rapid Intervention Crews					
	(RICs) available at structure fires?					
		17.6	7.0 ^[2,3]	19.5 ^[1,3]	$29.7^{[1,2,4]}$	13.0 ^[3]
	Some of the time	16.3	16.3	15.2	20.4 ^[4]	12.5 ^[3]
Nev	erAbout half the time	5.5	3.8	4.8	6.9	8.2
	Most of the time	26.6	23.8	29.6	23.6	28.8
	Always	34.0	49.2 ^[2,3]	$30.9^{[1,3]}$	19.5 ^[1,2,4]	37.5 ^[3]
27.	In what situations are RITs/RICs					
	established? MARK ALL THAT APPLY.					
	When the building has more than one					
	story/floor	8.6	9.0	7.8	9.8	8.1
	When there are enough firefighters on and at					
	the scene of the fire	28.7	$21.4^{[2,3]}$	31.2 ^[1]	32.3 ^[1]	29.4
	Whenever firefighters enter a burning					
	building	26.1	24.4	26.4	24.2	31.1
	Other	6.2	7.7	3.8	6.1	9.7
	Legitimately Skipped Question	51.7	56.6	50.5	49.1	50.1

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
28.	What are the reasons why your fire					
	department does not use RITs/RICs in					
	every structure fire? MARK ALL THAT					
	APPLY.					
	The structure fire may not be large enough to			1 01	F (A)	
	need an RIT/RIC	29.7	21.8 ^[3]	28.8 ^[3]	$38.2^{[1,2]}$	32.5
	We don't have enough equipment, SCBAs, or					
	turnout gear to establish an RIT/RIC	4.9	2.3 ^[2,3]	5.1 [1,3,4]	9.3 ^[1,2,4]	$2.1^{[2,3]}$
	We don't have enough firefighters available at					
	the scene of the fire	41.7	25.3 ^[2,3]	46.8 ^[1,3,4]	57.4 ^[1,2,4]	33.5 ^[2,3]
	We don't have enough training or trained					
	personnel at the scene to establish an					
	RIT/RIC	13.6	12.6 ^[3]	10.9 ^[3]	$21.3^{[1,2,4]}$	9.8 ^[3]
	We have never established an RIT/RIC	10.6	7.7 ^[3,4]	$10.2^{[3,4]}$	19.7 ^[1,2,4]	$2.6^{[1,2,3]}$
	We use other fire departments in the area for					
	RITs/RICs	22.6	34.9 ^[2,4]	14.9 ^[1,3]	29.1 [2,4]	$10.0^{[1,3]}$
	We use other safety practices and so we don't					
	need them	2.6	$1.2^{[3]}$	3.1	$4.1^{[1,4]}$	$1.3^{[3,+]}$
	Other	5.5	2.1 ^[4]	5.1 ^[4]	3.4 ^[4]	$16.1^{[1,2,3]}$
	Legitimately Skipped Question	34.4	49.8 ^[2,3]	$31.4^{[1,3]}$	19.9 ^[1,2,4]	37.5 ^[3]
29.	Does your fire department have enough					
	Personal Alert Safety System (PASS)					
	devices for all firefighters for use when					
	fighting structure fires?					
		86.4	91.8 ^[2,3]	84.8 ^[1]	82.6 ^[1]	86.9
		13.6	8.2 ^[2,3]	15.2 ^[1]	$17.4^{[1]}$	
30es	About how often do you think your					
No	firefighters wear their PASS devices when					
	fighting structure fires?					
		3.7	** ^[2,3,4,+]	4.2 ^[1]	$3.7^{[1]}_{-1}131$	9.0 ^[1]
	Some of the time	2.5	1.3 ^[3,+]	2.9	$4.9^{[1,4]}$	0.3 [3,+]
Neve	erAbout half the time	1.2	0.5 ^[3,+]	1.3	$2.3^{[1,4]}$	0.3 [3,+]
	Most of the time	8.5	5.1 ^[2,3]	9.6 ^[1,4]	12.9 ^[1,4]	4.7 ^[2,3]
	Always	84.1	93.0 ^[2,3]	82.1 [1]	76.2 ^[1,4]	85.8 ^[3]

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
31.	Why do you think your firefighters do not					
	use their PASS devices more often? MARK					
	ALL THAT APPLY.					
	They don't have a PASS device to use	8.3	$3.4^{[2,3]}$	9.5 ^[1]	10.9 ^[1]	10.1
	Situation doesn't require them	6.3	2.4 ^[2,3]	7.0 ^[1]	9.8 ^[1]	5.7
	Firefighters think the devices do not always		5 .1		5 .1	
	work reliably	0.2	0.3 [+]	**	0.8 [+]	**
	Firefighters don't think they need them	3.2	3.2	3.5	4.1 [4]	$1.3^{[3]}$
	Devices go off while firefighters are resting	2.6	1.5	$2.0^{[3]}$	$5.8^{[1,2,4]}$	$0.7^{[3,+]}$
	Legitimately Skipped Question	84.5	93 .1 ^[2,3]	82.4	76.9 ^[1,4]	86.1 ^[3]
32.	Does your department have Self Contained					
	Breathing Apparatuses (SCBA) for your					
	firefighters to use when combating					
	structure fires?					
	Yes	98.8	99.9	99.9	99.7	92.9
		1.2	0.1 ^[+]	[+]	[+]	[+]
33.	Do your firefighters ever have to share					
No	facepieces for SCBAs?		[4]	[4]	[4]	[1 2 2]
		40.2	45.6 ^[4] **	39.2 ^[4]	45.2^{4}	$25.3^{[1,2,3]}_{[2]}$
	No	58.6	54.2	60.7	$54.4^{[4]}$	67.4 ^[3]
Yes	Legitimately Skipped Question	1.2	0.1 ^[+]	**[+]	0.3 [+] / . 1	7.3 [+]
33a.	What are the reasons why your fire			0.3		
	department does not have personally-fitted					
	SCBA facepieces for all of your					
	firefighters? MARK ALL THAT APPLY.		. [1]			[1]
	Didn't know it was recommended	3.1	2.5	3.3	4.2	$2.0^{[+]}$
	Firefighters don't like using the equipment	0.1	**	**	0.4 [*]	0.3 [*]
	Have never needed them (e.g., we don't do		[+]	[+]	[+]	[+]
	interior attacks)	0.2	0.2	0.3	0.2	0.3
	They cost too much, there is not enough				[4]	[2]
	money in the budget	25.6	25.6	27.0	28.2 ^[4]	18.1 ^[3]
	We don't have enough equipment for all of	1 = 0	10 0 [3]	10.0	a a o [1 4]	12 1 [3]
	our firefighters	17.9	12.8	18.9	$25.0^{[1,4]}$	$13.1^{[5]}$
	Shared systems work fine for our needs	19.3	21.4	18.2	22.4 [4]	$13.7^{[3]}$
	Other	7.3	15.2 ^[3,4]	5.1	4.5 ^[1]	$3.7^{[1,+]}$
	Legitimately Skipped Question	59.8	54.5	60.5 ^[4]	54.9	74.8 [1,2,3]

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
34.	About how often do you think your					
	firefighters use SCBAs while fighting					
	structure fires?					
		0.4	**	$0.4^{[+]}$	0.3 [+]	0.9 ^[+]
	Some of the time	2.3	$0.5^{[2,3,+]}$	2.4 ^[1]	$4.9^{[1,4]}$	$1.0^{[3]}$
Neve	erAbout half the time	1.7	** ^[2,3]	$1.7^{[1,3]}$	$4.4^{[1,2,4]}$	$0.4^{[3,+]}$
	Most of the time	22.5	22.9	23.9	23.4	16.8
	Always	72.0	76.4	71.5	66.7	73.6
	Legitimately Skipped Question	1.2	0.1 [+]	** [+]	0.3 [+]	7.3 ^[+]
35.	Why do you think your firefighters do not					
	use SCBAs more often when fighting					
	structure fires? MARK ALL THAT					
	APPLY.			[2]	[0,4]	[0]
	Situation doesn't require them	20.1	19.1	19.4 ^[3]	[2,4]	14.2 ^[3]
	Firefighters do not trust that the SCBAs will				r. 1	
	work reliably	**	**	**	$0.2^{[+]}$	
	Firefighters don't think they need them	11.4	12.6	12.2	10.7	8.2
	Firefighters don't like sharing facepieces with		[2]	26.4	[1]	E L I
	others	0.5	**[2]	[+]	[1]	[+]
	Firefighters are concerned that the SCBA may			[1]	**	
	be or become contaminated	**	**	** [*]	**	**
	Wearing SCBAs makes it more difficult to		- - [3]		– o [1]	[+]
	work	4.4	$2.5^{[5]}$	4.3	7.0^{11}	[⁺]
	Firefighters don't have SCBAs to use	2.7	1.7	1.1	4.3 ^{[1,} 0.0	[3,+]
	Legitimately Skipped Question	73.9	77. 0 .5	72.5	67.8 ^[4]	[3]
36.	How often is routine maintenance					
	performed on your SCBAs?			1.5.5		
	After every time they are used	46.6	45.1	46.6	51.0_{141} $1.3_{1.3}$	42.9
	Once a month or more	16.7	23.0 [4] 5.1	[4]	[2]80.9	[1,2,3]
	Several times a year	14.3	17.5	$10.5^{[5]}$	$17.3^{[2]}$	[3]
	Once a year	17.6	13.4	23.4	$10.3^{[2,4]}$	[5]
	Less than once a year	2.6	$0.7^{[5,1]}$	1.8	3.9	
	Never. Maintenance has not been done on our	6 5	t.t. [2 3] 16.9	₁₁₁ 16.0	1 - [1]6 9	[+]
	SCBAs.	0.8	** [4,5]	[1]	1.0 13.5	[']
	Does not apply. My department does not have	ste st-	ate at:	ala ala	21.3	ata ata
	SCBAs.	**	**	** [+]	** [+] 5 5	** [+]
	Legitimately Skipped Question	1.5	0.2	[⁺]	1713.3	[+]

0.1

1.6

0.4 8.4

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
37.	How many					
	Chemical/Biological/Radiological/Nuclear					
	(CBRN) SCBAs are available (or on order)					
	for use by firefighters within your					
	department at this time?					
	Greater than zero	29.7	30.6	34.7 ^[4]	26.0	21.7 ^[2]
		70.3	69.4	65.3 ^[4]		78.3 [2]
37a.	What are the reasons why your fire					
Zero	department does not have CBRN SCBAs?					
	MARK ALL THAT APPLY.					
	CBRN SCBA devices are not needed in our			74.0		
	department	16.6	14.2	15.5	18.0	21.6
	We didn't know they were available	11.2	11.4	9.0 ^[3]	$14.0^{[2]}$	11.6
	We don't have adequate technical information					
	to purchase them	15.4	18.6 ^[2]	8.8 ^[1,3,4]	19.4 ^[2]	19.7 ^[2]
	We don't have adequate funding to purchase					
	them	50.8	51.2	47.7	54.2	52.4
		7.1	4.5 ^[4]	8.2	4.9 ^[4]	$12.5^{[1,3]}$
	Legitimately Skipped Question	31.1	31.7	36.8 ^[4]	27.0	22.6 ^[2]
B he	_r Does your fire department have					
	Automated External Defibrillators					
	(AEDs)?					
	Yes	85.3	83.7	86.3	84.3	87.2
	No	14.7	16.3	13.7	15.7	12.8
38a.	At your fire department, where do you					
	have AEDs?					
	At the fire station(s)	2.1	2.1	1.8	1.6	3.8 ^[+]
	On the emergency vehicles (or apparatus)	66.1	64.8	70.3 [4]	67.3	56.0 ^[2]
	Both at the fire station(s) and on the vehicles					
	(or apparatus)	14.8	14.3	11.8 ^[4]	13.1 ^[4]	25.7 ^[2,3]
	Legitimately Skipped Question	17.0	18.8	16.1	18.0	14.5

		Census Region					
Que	stion	Total	Northeast	South	Midwest	West	
39.	How often has routine maintenance,						
	including replacement of battery packs,						
	been performed on your AEDs?						
	After every time they are used	20.1	18.3	23.1	14.4	24.0	
	Once a month or more	24.7	28.3	18.8 ^[3]	29.8 ^[2]	26.9	
	Several times a year	19.4	17.4	18.9	20.5	23.1	
	Once a year	23.1	20.0	27.1	21.4	19.7	
	Less frequently than once a year	6.2	6.7	6.0	7.9 ^[4]	3.0 ^[3]	
	Never. Maintenance on our AEDs has not						
	been done.	6.5	9.2 ^[4]	6.2	6.0	3.2 ^[1]	
40.	About how often do your firefighters carry						
	radios or other two-way communication						
	devices while responding to structure fires?						
		1.5	3.1	0.8 [+]	1.5	0.4 ^[+]	
	Some of the time	3.1	5.0 ^[2,4]	$0.7^{[1,3]}$	5.4 ^[2,4]	$1.6^{[1,3]}$	
Nev	erAbout half the time	1.6	1.1 [+]	1.8	2.0	1.3 [+]	
	Most of the time	16.1	18.4 ^[4]	$14.0^{[3]}$	$20.3^{[2,4]}$	$10.7^{[1,3]}$	
	Always	77.8	72.4 [2,4]	82.7 ^[1,3]	70.8 [2,4]	86.0 ^[1,3]	
41.	Some radios and other two-way						
	communication devices can have problems						
	under field conditions, such as bleed-over,						
	interference, or loss of communication.						
	About how often do your communication						
	devices have these or other problems?					FA 3	
	Never	14.5	12.7	15.0	18.3 ^[4]	$10.3^{[3]}$	
	Some of the time	70.7	72.8	69.4	66.8 ^[4]	76.7 ^[3]	
	About half the time	7.8	8.3	5.6 ^[3]	9.6 ^[2]	9.6	
	Most of the time	5.7	3.7	8.9 ^[+]	4.4	2.9	
	Always	1.3	2.4	1.0	0.9	0.6 ^[+]	

		Census Region				
Ques	stion	Total	Northeast	South	Midwest	West
42.	How would you rate your department's					
	budget in the following areas?					
42a.	Equipment					
	Not adequate	38.6	35.4 ^[3]	34.9 ^[3]	47.9 ^[1,2]	39.0
	1	54.0	55.3 ^[3]	58.0 ^[3]	45.3 ^[1,2]	55.4
	More than adequate	7.4	9.3	7.1	6.8	5.6
Adec						
420.	Not adequate	36.0	$264^{[2,3,4]}$	36 9 ^[1]	42 2 ^[1]	40 9 ^[1]
	Adequate	56.4	63 2 ^[3]	56.0	52 1 ^[1]	52.0
	More than adequate	77	10.5	7 2	56	7 0 ^[+]
				,	2.0	,
42c.	Personnel	10.0	25 c [24]	50 0 [13]	4 4 1 [2]	cc c[1]
	Not adequate	48.8	35.6 ^[2,1]	$58.0^{[1,3]}$	44.1 ^[2]	55.5 ^[1]
	Adequate	46.2	59.0	36.6	50.4	41.9
12	More than adequate	5.0	5.4	5.4	5.4	2.6
43.	How often have you seen NIOSH reports					
	that describe recent firefighter fatalities					
	and make recommendations for avoiding					
	similar incidents? Please refer to the insert					
	sneet included with this survey for					
	examples of NIOSH firefighter safety					
	reports.	187	15 5 [3]	20.8	22 1 ^[1]	14.0
	One or two times per year	30.0	30.4	20.8 29.4 ^[3]	22.1 38 2 ^[2,4]	$23.6^{[3]}$
Maria	-Several times per year	40.4	/3 1	29.4 41.0	34.2	23.0 AA 1
INEVE	Once a month or more	10.0	11.0	8.8	5.6 ^[4]	18 3 ^[3]
44	How does your department receive the	10.0	11.0	0.0	5.0	10.5
	NIOSH Fire Fighter Fatality Investigation					
	reports? MARK ALL THAT APPLY.					
	By mail	55.8	56.9	52.7	59.4	56.0
	On the Internet	39.8	35.1 [4]	44.0 ^[3]	29.3 [2,4]	54.2 ^[1,3]
	From colleagues in other departments	15.1	15.9	19.1 ^[3]	9.4 ^[2]	12.8
	At conferences or other meetings	10.8	8.0	11.3	10.3	15.0
	Legitimately Skipped Question	18.3	15.5 ^[3]	19.6	22.1 ^[1]	14.0

		Census Region				
Que	stion	Total	Northeast	South	Midwest	West
45.	Have you read part or all of a NIOSH Fire					
	Fighter Fatality Investigation report in the					
	last 12 months?					
	Yes	64.8	63.2	66.4	58.7 ^[4]	73.4 ^[3]
	No	16.9	21.2 ^[4]	14.1	19.1	12.9 ^[1]
	Legitimately Skipped Question	18.3	15.6 ^[3]	19.6	$22.1^{[1,4]}$	13.8 ^[3]
50.	Does the fire department disseminate the					
	information it receives from NIOSH to the					
	firefighters?				543	[0, 0]
	Yes	67.6	65.2	67.1 ^[4]	64.8 ^[4]	$77.2^{[2,3]}$
	No	13.5	19.1	12.0	12.6	8.7
	Legitimately Skipped Question	18.9	15.7 ^[3]	20.8	$22.6^{[1,4]}$	14.1 ^[3]
50a.	How is this information disseminated to					
	firefighters? MARK ALL THAT APPLY.		[4]	[4]	[4]	[1.2.2]
	Regular staff meetings	25.4	24.9 ^[4]	$29.0^{[4]}$	$26.2^{[4]}$	$15.7^{[1,2,3]}$
	Training sessions	51.5	46.4 ^[4]	56.7 ^[5]	$43.9^{[2,4]}$	59.8 ^[1,3]
	Provide copies of NIOSH reports to					
	firefighters	21.0	18.4	21.4	21.7	23.7
	Provide copies of NIOSH report summaries to					
	firefighters	10.2	10.0	12.9	7.3	8.5
	Provide summaries prepared by department to			[2]	[2,4]	. [2]
	firefighters	4.1	4.5	5.1 [5]	$1.1^{[2,4]}$	$5.6^{[3]}$
	Postings on bulletin boards	43.1	51.9 ^[4]	39.3	42.5	37.9 ^[1]
	Post report on the department website	3.8	2.8 ^[+]	4.6 ^[+]	0.8	8.6 ^[+]
	Send message to firefighters by email	13.8	$3.8^{[2,4]}$	$21.0^{[1,5]}$	$7.3^{[2,4]}$	$23.7^{[1,5]}$
	Other	2.6	1.6	2.6	1.4 ^[4]	6.4 ^[3]
	Legitimately Skipped Question	31.8	35.0	31.1	34.9	22.9 ^[5]
51.	The NIOSH reports sometimes reference					
	other documents, such as guidelines or					
	more detailed technical reports. Does your					
	fire department usually have access to					
	documents that are referenced in NIOSH					
	reports?			– (21	10 - [2]	50 -
		50.4	49.8	54.6 ^[3]	42.7 ^[2]	52.5
		30.8	34.5	25.2 ^{L3}	34.2 ^[2]	33.1
Yes	Legitimately Skipped Question	18.8	15.7	20.1	23.1	14.4 ^[3]

No

		Census Region				
Questi	ion	Total	Northeast	South	Midwest	West
52. 1	NIOSH reports always include					
1	recommendations that are designed to help					
i	improve the health and safety of					
f	firefighters. How much do you agree or					
	disagree with the following statements					
1	about the NIOSH recommendations:					
52a. 1	Recommendations are practical					
5	Strongly Disagree	2.5	** [+]	5.6 [+]	$0.2^{[+]}$	$2.2^{[+]}$
]	Disagree	5.1	9.9 ^[+]	3.2	2.9	4.9
]	Neither Agree nor Disagree	18.4	$12.2^{[3,4]}$	17.5	$21.1^{[1]}$	27.7 [1]
1	Agree	50.3	54.1	49.8	48.5	47.7
	Strongly Agree	4.7	7.6 ^[4]	3.6	4.2	2.7 ^[1]
j	Legitimately Skipped Question	19.0	16.0 ^[3]	20.2	23.0 ^[1]	14.8
52b.	Recommendations are easy to understand					
9	Strongly Disagree	2.4	** [+]	5.7 [+]	**	2.2 [+]
]	Disagree	1.5	1.0	1.4	2.1	1.7 [+]
]	Neither Agree nor Disagree	16.9	14.9 ^[3]	14.1 ^[3]	$21.9^{[1,2]}$	19.3
		54.2	59.4 ^[3]	54.2	$47.2^{[1]}$	56.1
5	Strongly Agree	6.0	8.5	4.3	5.8	5.9
Agree	Legitimately Skipped Question	19.1	16.0 ^[3]	20.3	23.1 ^[1]	14.8
52c.	Recommendations are specific and					
	concrete					
	Strongly Disagree	2.5	0.2 [+]	5.8 [+]	$0.2^{[+]}$	1.8 [+]
]	Disagree	6.0	8.7 [+]	3.9	4.1	9.8
1	Neither Agree nor Disagree	24.2	24.1	21.2 ^[3]	29.7 ^[2]	23.2
1	Agree	43.5	45.4	43.9	38.7	46.8
5	Strongly Agree	4.7	5.4	4.9	4.1	3.6
	Legitimately Skipped Question	19.1	16.1 ^[3]	20.3	23.2 ^[1]	14.8

	Census Region				
Question	Total	Northeast	South	Midwest	West
53. What other NIOSH materials have you					
seen? MARK ALL THAT APPLY.					
Pocket guide to chemical hazards	63.7	69.7 ^[3]	59.9	59.9 ^[1]	68.6
Respirator maintenance program guide	16.6	20.0	13.4	17.1	18.1
CDs of firefighter program materials	32.3	32.8	35.2	28.5	30.1
	44.2	47.5 ^[3]	47.4 ^[3]	32.9 ^[1,2,4]	47.9 ^[3]
Hazard IDs	18.0	21.9 ^[2]	$11.2^{[1,3,4]}$	19.3 [2]	26.1 [2]
AlertsWorkplace Solutions	14.3	15.1	14.1	11.9	16.7
	1.0	** [2,3]	1.5 ^[1]	$1.2^{[1]}$	1.2 [+]
None. I have not seen any NIOSH materials.	18.3	16.3	16.8 ^[3]	23.5 ^[2]	17.5
Sther How satisfied or dissatisfied are you with					
these NIOSH materials?					
Very dissatisfied	1.5	2.3	0.8	$0.6^{[+]}$	2.9
Dissatisfied	0.1	0.2 [+]	** [+]	0.3 [+]	**
Neither satisfied nor dissatisfied	19.0	24.4	14.3 ^[3]	$20.6^{[2]}$	18.7
Satisfied	53.0	50.1	58.2	48.4	52.0
Very satisfied	8.3	6.8	9.8	6.8	9.4
Legitimately Skipped Question	18.1	16.2	16.9 ^[3]	23.2 ^[2]	16.9
54. Have you ever visited the NIOSH website					
at www.cdc.gov/niosh/firehome.html?					
	44.0	47.4 ^[4]	38.1 [3]	55.3 ^[2,4]	34.5 ^[1,3]
Yes, in the last year	50.0	48.2	54.5 ^[3]	39.7 ^[2,4]	58.0 ^[3]
No Yes, longer than one year ago	6.1	4.3	7.4	5.0	7.5

	Census Region				
Question	Total	Northeast	South	Midwest	West
55. In which of these ways would you most					
prefer to receive information about NIOSH					
recommendations? MARK YOUR THREE					
(3) FAVORITES.					
Cable television programming	5.2	$8.2^{[4]}$	4.7 [4]	5.2 [4]	$1.4^{[1,2,3,+]}$
CD/DVD	50.6	50.2	49.5	50.5	54.3
Conference presentations or meeting	8.9	9.2	9.9	6.6	9.2
Email	53.8	50.2	56.7	49.2	60.0
Fire Fighter Fatality Investigation Reports	53.6	52.6	57.0	48.4	55.0
NIOSH Website	27.2	27.6	24.0	30.4	29.3
One-page Fact Sheets	30.3	33.2	26.4	31.9	32.6
Pocket Guides	26.7	29.8 [4]	26.3	29.1 ^[4]	18.1 ^[1,3]
Posters	12.8	11.3	15.5	11.7	10.5
Summary Reports	25.5	30.9 ^[4]	26.1	22.9	18.3 [1]
Training session/class	19.1	24.1 ^[3]	18.7	15.6 ^[1]	16.5
	1.1	$0.9^{[+]}$	1.4	1.2	$0.4^{[+]}$

Nibite:

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Department Type				
Que	stion	Total	All Career	All Volunteer	Combination	
1.	Does your department have a Safety					
	Officer?					
	Yes	79.0	83.0	79.9	76.8	
	No	21.0	17.0	20.1	23.2	
2.	Does your department have a Training					
	Officer?					
		93.3	95.5 ^[3]	94.8 ^[3]	91.3 ^[1,2]	
	No	6.7	4.5 ^[3]	5.2 ^[3]	8.7 ^[1,2]	
Y es	Some fire departments use Standard					
	Operating Procedures (SOPs) or Standard					
	Operating Guidelines (SOGs) to describe					
	how certain situations should be					
	approached. For which of the following					
	does your department have SOPs/SOGs in					
	place? MARK ALL THAT APPLY.		[0]	101		
	Incident Command Systems	89.6	93.6 ^[3]	91.4 ^[3]	86.7 ^[1,2]	
	Maintenance of SCBAs	76.8	89.2 ^[2,3]	77.1	72.1	
	Motor vehicle safety	83.9	87.7 ^[3]	86.1	80.8	
	Participation in a personal physical fitness		[0.0]	(1.2)	(1.0)	
	program	24.3	56.7 ^[2,3]	27.8 ^[1,3]	$10.0^{[1,2]}$	
	Participation in regular health screenings for		[2,2]	(1.2)	(1.2)	
	cardiovascular disease (CVD)	33.5	53.6 ^[2,3]	39.1	21.8 ^[1,2]	
	Rapid Intervention Teams (RITs), also known					
	as Rapid Intervention Crews (RICs) or					
	Firefighter Assistance and Search Teams		[2,2]	[1,2]	[1.2]	
	(FAST)	58.8	83.2 ^[2,5]	66.4	$44.0^{[1,2]}$	
	Use of Personal Alert Safety System (PASS)					
	devices	81.5	86.9	79.9	80.9	
	Use of personal protective equipment and		[2]		(1)	
	protective clothing	93.1	96.4 ^[3]	93.4	91.7 ^[1]	
	Use of radio communications	88.9	93.5 ^[2,3]	88.2	87.8	
	Other	10.7	12.7	12.2	8.8	
	Does not apply. Our fire department does not	_	- [0.2 +]	11	- 11	
	use SOPs/SOGs.	2.6	$0.5^{[2,3,+]}$	2.8	3.1	

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires No Training Optional Training Required Training	1.2 11.1 88.1	$3.8^{[+]} \\ 3.2^{[2,3]} \\ 93.4^{[3]}$	$0.8 \\ 11.8^{[1]} \\ 87.5$	0.6 13.3 ^[1] 86.9 ^[1]
4b.	Driving safety No Training Optional Training Required Training	2.3 12.9 85.0	2.4 5.3 ^[3] 92.6 ^[3]	1.7 9.8 ^[3] 88.5 ^[3]	2.7 18.1 ^[1,2] 79.4 ^[1,2]
4c.	Incident Command systems No Training Optional Training Required Training	1.5 19.2 79.4	$0.5^{[3,+]} \\ 3.8^{[2,3]} \\ 95.7^{[2,3]}$	1.3 18.3 ^[1,3] 80.6 ^[1,3]	$2.0^{[1]} \\ 25.5^{[1,2]} \\ 72.6^{[1,2]}$
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs) No Training Optional Training Required Training	5.1 27.6 67.7	3.6 16.3 ^[3] 80.3 ^[3]	6.1 25.1 ^[3] 68.8	4.7 33.6 ^[1,2] 62.3 ^[1]
4e.	Rapid Intervention Teams (RITs) No Training Optional Training Required Training	17.3 32.7 50.3	7.3 ^[3] 15.2 ^[3] 77.7 ^[2,3]	$14.3^{[3]} \\ 26.2^{[3]} \\ 59.5^{[1,3]}$	23.5 ^[1,2] 44.5 ^[1,2] 32.4 ^[1,2]
4f.	Use of personal protective equipment and/or protective clothing No Training Optional Training Required Training	1.1 6.9 92.2	1.8 2.9 ^[2,3] 95.6	1.2 8.5 ^[1] 90.2	0.7 6.9 ^[1] 92.6
4g.	Use of radio communication devices No Training Optional Training Required Training	2.3 15.6 82.4	$1.5 \\ 5.7^{[2,3]} \\ 93.1^{[2,3]}$	3.3 17.7 ^[1] 79.6 ^[1]	1.7 17.4 ^[1] 81.0 ^[1]

		Department Type			
Que	estion	Total	All Career	All Volunteer	Combination
5.	Who provides training to your firefighters?				
	MARK ALL THAT APPLY.				
	Our department's Training Officer	90.4	95.4 ^[2,3]	91.9 ^[1,3]	87.4 ^[1,2]
	Other officers within our department	88.2	96.2 ^[2,3]	86.9 ^[1]	86.4 [1]
	State fire training agency	78.1	69.0 ^[3]	76.6	82.5 [1]
	United States Fire Administration's (USFA)				
	National Fire Academy in Emmitsburg, MD	34.4	64.6 ^[2,3]	39.2 ^[1,3]	$20.0^{[1,2]}$
	Conferences or regional meetings	60.7	74.0 ^[3]	64.5 [3]	53.0 ^[1,2]
	Other	25.6	20.3 [3]	23.0	29.6 ^[1]
6.	What other trainings have your firefighters				
	attended in the last 12 months? MARK				
	ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents				
	(MVA)	57.7	58.2	51.5 ^[3]	62.6 ^[2]
	Scuba diving	11.9	29.7 [2,3]	8.2 [1]	8.9 ^[1]
	Swift water rescue	19.5	46.4 [2,3]	16.8 [1]	12.5 [1]
	Wildland fire fighting	40.3	30.1 [3]	41.5	43.0 ^[1]
	HAZMAT	74.3	93.0 ^[2,3]	70.9 [1]	70.5 [1]
	Other	38.1	50.0 ^[3]	40.6	31.9 ^[1]
8.	How familiar are you with the National				
	Institute for Occupational Safety and				
	Health (NIOSH)?				
	Not at all familiar	4.8	1.6 ^[3]	2.7 [3]	7.7 [1,2]
	Not very familiar	17.1	8.6 ^[3]	14.8 ^[3]	21.8 ^[1,2]
	Somewhat familiar	58.1	57.5	56.9	59.4
	Very familiar	20.0	32.4 ^[3]	25.6 ^[3]	$11.1^{[1,2]}$
9.	How familiar are you with NIOSH's Fire				
	Fighter Fatality Investigation and				
	Prevention Program (FFFIPP)?				
	Not at all familiar	14.6	7.7 [3]	11.3 [3]	19.7 [1,2]
	Not very familiar	27.2	17.9 ^[3]	24.4 [3]	32.8 ^[1,2]
	Somewhat familiar	41.3	50.1	40.5	39.0
	Very familiar	16.9	24.4 [3]	23.8 [3]	8.6 ^[1,2]

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
10.	How does your department receive				
	information about NIOSH's firefighter				
	safety and health recommendations?				
	MARK ALL THAT APPLY.				
	NIOSH mailings	71.5	72.5	71.9	70.9
	National conference presentations	9.3	18.0 ^[3]	12.2 [3]	3.8 ^[1,2]
	State-level conference presentations	15.5	18.9	18.0	12.3
	Other firefighters or departments	25.8	25.2	29.9	22.6
	At seminars or other training opportunities				
	(not conferences)	21.4	22.5	23.8	19.0
	Trade publications (such as Firehouse and				
	Fire Engineering)	55.5	62.1 ^[3]	65.1 ^[3]	45.2 ^[1,2]
	NIOSH website	40.9	69.0 ^[2,3]	47.4 ^[1,3]	$26.0^{[1,2]}$
	Links from other websites (such as NFPA and				
	Firehouse)	36.8	44.5 ^[3]	40.1	31.4 ^[1]
	Media reports - newspaper, television, radio	15.9	16.5	15.6	16.0
		2.7	10.6 [+]	1.9	0.7
	Does not apply. We have not received				
Othe	r information about NIOSH				
	recommendations.	7.0	5.7 [+]	7.4	7.2
11.	In what ways has your department used				
	NIOSH recommendations? MARK ALL				
	THAT APPLY.				
	Made changes to training program	48.5	52.3	52.9 ^[3]	43.4 [2]
	Developed new SOPs/SOGs	35.3	48.1 ^[3]	37.7	28.7 [1]
	Made changes to SOPs/SOGs	45.6	61.0 ^[2,3]	45.9 ^[1]	40.1 [1]
	Justified current budget/staffing	10.6	23.8 ^[3]	12.5	4.4 ^[1]
	Made new budget/staffing requests	12.2	17.9 ^[3]	15.0	7.7 [1]
	Justified grant applications	19.7	31.4 ^[2]	15.7	19.1
	Does not apply. We have not used NIOSH				
	recommendations.	25.0	14.3 ^[2,3]	24.6 ^[1]	29.0 ^[1]
	Legitimately Skipped Question	7.3	5.9 ^[+]	7.6	7.6

	Department Type				
Question	Total	All Career	All Volunteer	Combination	
11b. Can you identify topics of NIOSH					
recommendations that you have used for					
training purposes? If so, MARK ALL					
THAT APPLY.					
Traffic hazards	35.3	33.8	39.4	32.2	
Personal protective equipment and clothing	49.6	56.9	51.7	45.2	
	49.7	57.1 ^[3]	52.6	44.6 ^[1]	
PASS systems	40.4	43.2	44.3	36.0	
SCBAIncident Command systems	40.8	47.6	43.4	36.2	
Radio communications	27.1	31.0	26.7	26.2	
Physical fitness and cardiovascular disease					
(CVD)	15.9	35.9 ^[2,3]	$12.2^{[1]}$	$12.2^{[1]}$	
Building code compliance (e.g., warning					
against the use of wooden trusses)	9.9	12.9	11.6	7.5	
	4.8	3.5	$8.0^{[+]}$	2.4	
Does not apply. We have not used NIOSH					
Other recommendations for training purposes.	1.8	3.5	0.8	2.0	
Legitimately Skipped Question	32.5	20.4 [2,3]	32.2 [1]	36.8 [1]	
12. Does your department have a fitness					
training that involves physical exercise					
and/or other health promotion activities					
(for example a cardiovascular fitness					
program, physical training program,					
wellness program, or other fitness					
program)?					
	58.8	23.3 ^[2,3]	46.7 ^[1,3]	80.9 ^[1,2]	
Yes, it's required	16.9	42.8 ^[2,3]	$22.9^{[1,3]}$	$3.2^{[1,2]}$	
No Yes, it's optional	24.3	33.9 ^[3]	30.4 [3]	15.9 ^[1,2]	
13. How often do your firefighters receive					
screenings for cardiovascular disease					
(CVD) and its risk factors?					
One time, when they first join the department	14.5	15.4	15.5	13.3	
Less frequently than once a year	9.2	19.0	8.2	6.7	
One time a year	32.8	48.3 ^[3]	39.7 ^[3]	21.9 ^[1,2]	
More than one time a year	0.4	1.7 [+]	0.2 [+]	** [+]	
Does not apply. Firefighters are not required					
to receive CVD screenings	43.2	15.6 ^[2,3]	36.4 ^[1,3]	58.0 ^[1,2]	

		Department Type				
Ques	stion	Total	All Career	All Volunteer	Combination	
14.	Do all drivers of vehicles responding to					
	emergency calls receive driver training					
	before being allowed to operate the					
	vehicles? MARK ALL THAT APPLY.					
	No	4.1	2.5	3.9	4.9	
	Yes, they receive training required by the		(2)	(2)		
	department	88.9	93.4 ^[3]	90.8 ^[3]	85.9 ^[1,2]	
	Yes, they receive training required by the		101			
	state	28.3	$22.1^{[2]}$	34.1	25.7	
	Yes, they receive optional training	13.6	6.3 ^[2,3]	16.5	13.8 ^[1]	
15.	How often do drivers of your fire					
	department vehicles receive refresher					
	driver training to continue being allowed					
1	to drive the vehicles?					
	Two or more times a year	12.1	11.0	11.4	13.1	
	Once every year	43.6	$33.3^{[2,3]}$	47.4	44.0 ^[1]	
	Less frequently than once a year	28.4	40.8 ^[3]	27.2	25.0	
	Does not apply. Firefighters are not required					
	to receive continuing driver training.	15.9	15.0	14.0	18.0	
16.	Does your fire department have a					
	requirement regarding seat belt use in					
	emergency vehicles?		[2,2]	[1 2]	[1,2]	
		89.2	$98.1^{[2,3]}$	$90.9^{[1,3]}$	84.6	
	No	10.8	1.9 ^[2,3]	9.1	15.4	
Ye s	To what extent do you agree or disagree					
	that your firefighters are able to fit					
	comfortably in their seatbelts while					
	wearing turnout gear in your emergency					
	vehicles?			[2]	[2]	
	Strongly disagree	6.8	6.2	4.7 ^[3]	8.8 ^[2]	
	Disagree	19.5	24.3	17.6	19.3	
	Neither agree nor disagree	25.2	10.2 ^[2,3]	24.4	31.1	
	Agree	34.8	35.1	39.9	30.5	
	Strongly agree	13.7	24.3 [2,3]	13.5	10.2	

	Department Type				
Question	Total	All Career	All Volunteer	Combination	
18. About how often do you think your					
firefighters use their seatbelts when riding					
in the emergency vehicles?					
	3.6	$1.2^{[3,+]}$	2.2 ^[3]	5.6 ^[1,2]	
Some of the time	22.3	21.4	17.6 ^[3]	26.5 [2]	
NeverAbout half the time	16.5	14.4	15.7	18.0	
Most of the time	38.1	38.0	38.2	38.0	
Always	19.6	25.0 ^[3]	26.4 [3]	$12.0^{[1,2]}$	
21. How often is Incident Command					
established when responding to structure					
fires?					
	1.3	0.6 ^[+]	1.7	1.1	
	3.6	1.4 ^[3]	3.1	4.9 ^[1]	
NeverAbout half the time	4.0	$1.0^{[2,3,+]}$	3.5 ^[1]	5.4 ^[1]	
RarelyMost of the time	20.3	8.2 ^[2,3]	$17.4^{[1,3]}$	$26.9^{[1,2]}$	
Always	70.8	88.8 ^[2,3]	74.4 ^[1,3]	61.7 ^[1,2]	
22. What are the reasons why Incident					
Command is not always established by					
your fire department? MARK ALL THAT					
APPLY.					
Fires are not usually big enough to require an					
Incident Commander	15.1	5.0 ^[2,3]	$14.0^{[1,3]}$	19.3 ^[1,2]	
Not enough firefighters available at the scene					
of the fire	12.6	$2.7^{[2,3]}$	$10.9^{[1,3]}$	$17.3^{[1,2]}$	
Other	4.7	5.1	3.4	5.7	
Does not apply. My department always					
assigns an Incident Commander for					
structure fires.	3.4	0.6 ^[3,+]	2.8	4.8 ^[1]	
Legitimately Skipped Question	70.8	89.2 ^[2,3]	74.3 [1,3]	61.7 ^[1,2]	

		Department Type				
Que	stion	Total	All Career	All Volunteer	Combination	
23.	When Incident Command is established for					
	a structure fire, what are the Incident					
	Commander's responsibilities? MARK					
	ALL THAT APPLY.					
	Conduct an initial assessment before the other					
	firefighters begin entering the building	91.2	85.3 ^[3]	89.9 ^[3]	94.4 ^[1,2]	
	Develop and coordinate the fire attack					
	strategy	94.2	95.7	95.6	92.6	
	Develop and initiate a risk management plan	63.6	73.9 ^[3]	68.5 ^[3]	55.9 ^[1,2]	
	Document all assessments, plans and events					
	related to the fire	42.2	53.5 ^[2]	37.6 ^[1]	42.1	
	Ensure that at least four (4) firefighters are on					
	the scene before entering the building	70.4	81.1 [2,3]	69.7 ^[1]	67.3 ^[1]	
	Establish a collapse zone around the building	53.9	62.9	50.1	53.9	
	Establish Rapid Intervention Team (RIT) or					
	Rapid Intervention Crew (RIC)	64.6	89.5 ^[2,3]	68.3 ^[1,3]	52.9 ^[1,2]	
	Identify and implement a communication					
	strategy	67.5	62.2	71.5	66.0	
	Monitor location of all firefighters at the					
	scene	77.2	88.8 ^[2,3]	77.7 [1]	72.6 ^[1]	
	Other	10.4	15.2	7.0 ^[3]	11.7 ^[2]	
24.	About how often does an Incident					
	Commander assign an Incident Safety					
	Officer when responding to structure fires?					
	Never	8.2	7.0	8.3	8.5	
	Some of the time	25.1	23.3	27.2	24.0	
	About half the time	8.0	7.9	8.3	7.9	
	Most of the time	31.6	30.6	30.9	32.4	
	Always	27.2	31.2	25.4	27.2	

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
25.	What are the reasons why an Incident				
	Commander does not always assign an				
	Incident Safety Officer? MARK ALL				
	THAT APPLY.				
	Fires are not big enough to require an Incident				
	Safety Officer	28.0	25.2	27.1	29.7
	Not enough firefighters are available at the				
	scene of the fire	42.4	19.1 ^[2,3]	47.5	46.4
	Other	20.4	40.8 ^[2,3]	$22.1^{[1,3]}$	$12.0^{[1,2]}$
	Does not apply. Our Incident Commanders				
	always assign an Incident Safety Officer for				
	structure fires.	2.0	2.1	0.9	2.9
	Legitimately Skipped Question	27.5	31.3	25.8	27.7
26.	How often are Rapid Intervention Teams				
	(RITs) or Rapid Intervention Crews				
	(RICs) available at structure fires?		[2,2]	(1.2)	[1.2]
		17.6	$6.9^{[2,3]}$	$16.2^{[1,3]}$	$22.6^{[1,2]}$
	Some of the time	16.3	5.7 ^[2,3]	13.0[1,5]	22.7 [1,2]
Nev	erAbout half the time	5.5	5.2	4.7	6.3
	Most of the time	26.6	22.7	32.4	23.1
	Always	34.0	59.6 ^[2,3]	33.7	25.3
27.	In what situations are RITs/RICs				
	established? MARK ALL THAT APPLY.				
	When the building has more than one	_			
	story/floor	8.6	6.1	8.5	9.6
	When there are enough firefighters on and at		. – . [23]		· [1]
	the scene of the fire	28.7	17.9 ^[2,3]	28.6	32.4
	Whenever firefighters enter a burning		[2 2]	a a a [1]	• - - [1]
	building	26.1	14.4 ^[2,3]	29.2	27.5
	Other	6.2	9.0	6.5	5.0
	Legitimately Skipped Question	51.7	66.3 ^[2,3]	50.2	47.8

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
28.	What are the reasons why your fire				
	department does not use RITs/RICs in				
	every structure fire? MARK ALL THAT				
	APPLY.				
	The structure fire may not be large enough to				
	need an RIT/RIC	29.7	25.4	31.4	29.7
	We don't have enough equipment, SCBAs, or		(0.0 J	11.01	
	turnout gear to establish an RIT/RIC	4.9	** [2,3,+]	3.9 ^[1,3]	7.5 ^[1,2]
	We don't have enough firefighters available at				
	the scene of the fire	41.7	16.9 ^[2,3]	43.8 ^[1]	48.6
	We don't have enough training or trained				
	personnel at the scene to establish an		[2,2]	(1.2)	11.01
	RIT/RIC	13.6	4.4 ^[2,3]	$10.2^{[1,3]}$	19.6
	We have never established an RIT/RIC	10.6	$2.6^{[2,3]}$	7.5	16.0 ^[1,2]
	We use other fire departments in the area for		[2,2]	(1.2)	(1.0)
	RITs/RICs	22.6	$4.1^{[2,3]}$	17.6 ^[1,3]	33.3 ^[1,2]
	We use other safety practices and so we don't		[2,2],1	(1)	(1)
	need them	2.6	$0.8^{[2,3,+]}$	3.1	2.7
	Other	5.5	7.4	6.3	4.3
	Legitimately Skipped Question	34.4	59.8 ^[2,3]	34.3	25.6
29.	Does your fire department have enough				
	Personal Alert Safety System (PASS)				
	devices for all firefighters for use when				
	fighting structure fires?		[2,2]		
		86.4	96.1 ^[2,3]	86.9	82.6
		13.6	$3.9^{[2,3,+]}$	13.1	17.4
30 s	About how often do you think your				
No	firefighters wear their PASS devices when				
	fighting structure fires?		F -1		
		3.7	$2.9^{[+]}$	4.7	3.1
	Some of the time	2.5	$0.4^{[3,+]}$	2.5	3.3
Nev	erAbout half the time	1.2	** [2,3,+]	1.0 ^[1]	1.7
	Most of the time	8.5	4.2 ^[3]	6.1 ^[3]	$12.0^{[1,2]}$
	Always	84.1	92.4 ^[3]	85.7 ^[3]	79.8 ^[1,2]

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
31.	Why do you think your firefighters do not				
	use their PASS devices more often? MARK				
	ALL THAT APPLY.				
	They don't have a PASS device to use	8.3	3.2 [+]	9.7	9.0
	Situation doesn't require them	6.3	2.0 ^[3,+]	4.7 ^[3]	9.1 [1,2]
	Firefighters think the devices do not always				
	work reliably	0.2	0.2 [+]	0.4 [+]	** [+]
	Firefighters don't think they need them	3.2	0.8 ^[3,+]	2.9	4.4 [1]
	Devices go off while firefighters are resting	2.6	2.7 [+]	1.2 ^[3]	3.6 ^[2]
	Legitimately Skipped Question	84.5	92.8 ^[3]	85.9 ^[3]	80.3 [1,2]
32.	Does your department have Self Contained				
	Breathing Apparatuses (SCBA) for your				
	firefighters to use when combating				
	structure fires?				
	Yes	98.8	96.7	98.7	99.7
		1.2	3.3 [+]	[+]	[+]
33.	Do your firefighters ever have to share				
No	facepieces for SCBAs?		[2 2]	[1 2]	[1 2]
		40.2	4.5 ^[2,3]	$41.7^{[1,5]}$	51.3
	No	58.6	$92.1^{[2,3]}$	56.9	48.4
Yes	Legitimately Skipped Question	1.2	3.5 [+]1.5	1.4 ^{[+]0.5}	0.3 [+]
33a.	What are the reasons why your fire				
	department does not have personally-fitted				
	SCBA facepieces for all of your				
	firefighters? MARK ALL THAT APPLY.		[2 2]	[1]	[1]
	Didn't know it was recommended	3.1	** [2,3]	3.5	3.9
	Firefighters don't like using the equipment	0.1	**	**	0.3
	Have never needed them (e.g., we don't do	.	d. d.	o o [+]	o ([+]
	interior attacks)	0.2	**	0.2	0.4
	They cost too much, there is not enough		a [2 3]	• • • • [1]	••••[]]
	money in the budget	25.6	$2.6^{[2,3]}$	25.8	33.3
	We don't have enough equipment for all of	15 0	a = [23+]	1 < 0 [13]	25 4 [1 2]
	our tirefighters	17.9	$0.7^{[2,3,1]}$	$16.0^{11,51}$	$25.4^{[1,2]}$
	Shared systems work fine for our needs	19.3	$2.6^{[2,3]}$	20.5	24.1
	Other	7.3	$1.2^{[2,3,1]}$		7.0
	Legitimately Skipped Question	59.8	95.9 ^[2,3]	57.9	48.9

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
34.	About how often do you think your				
	firefighters use SCBAs while fighting				
	structure fires?				
		0.4	** [2]	$0.6^{[1]}$	0.2 ^[+]
	Some of the time	2.3	** [2,3]	$1.5^{[1,3]}$	$3.7^{[1,2]}$
Nev	erAbout half the time	1.7	$0.4^{[3,+]}$	1.2	2.5
	Most of the time	22.5	20.8	21.3	24.1
	Always	72.0	75.3	74.0	69.2
	Legitimately Skipped Question	1.2	3.5	1.4 ^[+]	0.3 [+]
35.	Why do you think your firefighters do not				
	use SCBAs more often when fighting				
	structure fires? MARK ALL THAT				
	APPLY.		(2.2)	(1)	(1)
	Situation doesn't require them	20.1	9.5 ^[2,3]	[1]	[1]
	Firefighters do not trust that the SCBAs will				6.1
	work reliably	**	**	**	** [+]
	Firefighters don't think they need them	11.4	15.3 [+]		11.0
	Firefighters don't like sharing facepieces with		19.7	, 24.2	m
	others	0.5	** [3]	[+]	[1]
	Firefighters are concerned that the SCBA may				[1]
	be or become contaminated	**	** 10.2	**	** [+]
	Wearing SCBAs makes it more difficult to				
	work	4.4		3.3	5.7
	Firefighters don't have SCBAs to use	2.7	**[3]	L+J U. 9	
	Legitimately Skipped Question	73.9	78.8.2	76.5	70.1
36.	How often is routine maintenance				
	performed on your SCBAs?	1.5.5	10.0		10.0
	After every time they are used	46.6	49.8	49.4	43.2
	Once a month or more	16.7	6.8 ^[2,5]	[1,9.)	[1,2]
	Several times a year	14.3	12.3.4	16.1	13.5
	Once a year	17.6	26.1	15.7	16.1
	Less than once a year	2.6	0.8 [3,1]	22.1	3.0
	Never. Maintenance has not been done on our		13.4	23.1	o -
	SCBAs.	0.8	0.4		0.7
	Does not apply. My department does not have	steste	ste ste	steste	ste ste
	SCBAs.	**	** 2.8	**	** [+]
	Legitimately Skipped Question	1.5	3.8	L'J	[']

0.4

1.7

		Department Type			
Ques	stion	Total	All Career	All Volunteer	Combination
37.	How many				
	Chemical/Biological/Radiological/Nuclear				
	(CBRN) SCBAs are available (or on order)				
	for use by firefighters within your				
	department at this time?				
	Greater than zero	29.7	53.6 ^[2,3]	31.8 ^[1,3]	19.6 ^[1,2]
		70.3	46.4 [2,3]	68.2 ^[1,3]	80.4 [1,2]
37a.	What are the reasons why your fire				
Zero	department does not have CBRN SCBAs?				
	MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our		[2]		(1)
	department	16.6	8.6 ^[3]	15.4	20.5
	We didn't know they were available	11.2	5.1 ^[2,3]	9.9 ^[1]	14.4
	We don't have adequate technical information		[2,2]	(1)	(1)
	to purchase them	15.4	3.4 [2,3]	16.5	18.7
	We don't have adequate funding to purchase		[2,2]	(1)	(1)
	them	50.8	28.4 [2,3]	49.9	59.5 ^[1]
	Other	7.1	9.0	7.4	6.2
	Legitimately Skipped Question	31.1	57.0 ^[2,5]	32.7	20.7 [1,2]
38.	Does your fire department have				
	Automated External Defibrillators				
	(AEDs)?		[2 2]	[1 2]	[1 2]
		85.3	$94.2^{[2,3]}$	86.6 ^[1,3]	81.1 ^[1,2]
	No	14.7	5.8 [2,3,+]	13.4	18.9
38a .	At your fire department, where do you				
	have AEDs?		[1]		
	At the fire station(s)	2.1	$0.6^{[+]}$	3.4	1.6
	On the emergency vehicles (or apparatus)	66.1	77.1	63.6	64.5
	Both at the fire station(s) and on the vehicles	110	1.7.0		10.5
	(or apparatus)	14.8	15.2	17.5	12.5
	Legitimately Skipped Question	17.0	7.1 [2,3,+]	15.6[1,5]	$21.3^{[1,2]}$

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
39.	How often has routine maintenance,				
	including replacement of battery packs,				
	been performed on your AEDs?				
	After every time they are used	20.1	32.5 [3]	23.5 [3]	$12.0^{[1,2]}$
	Once a month or more	24.7	18.8	26.0	26.0
	Several times a year	19.4	15.2 ^[3]	15.5 ^[3]	24.6 ^[1,2]
	Once a year	23.1	27.8	24.1	20.2
	Less frequently than once a year	6.2	4.0	5.1	8.0
	Never. Maintenance on our AEDs has not				
	been done.	6.5	$1.7^{[2,3]}$	5.8 [1]	9.2 ^[1]
40.	About how often do your firefighters carry				
	radios or other two-way communication				
	devices while responding to structure fires?				
		1.5	$0.3^{[3,+]}$	$0.5^{[3,+]}$	$2.7^{[1,2]}$
	Some of the time	3.1	$0.1^{[2,3,+]}$	$1.2^{[1,3]}$	5.7 ^[1,2]
Neve	erAbout half the time	1.6	$0.8^{[3,+]}$	$0.7^{[3]}$	$2.7^{[1,2]}$
	Most of the time	16.1	$4.3^{[2,3]}$	$13.7^{[1,3]}$	$22.2^{[1,2]}$
	Always	77.8	94.4 ^[2,3]	83.9 ^[1,3]	66.8 ^[1,2]
41.	Some radios and other two-way				
	communication devices can have problems				
	under field conditions, such as bleed-over,				
	interference, or loss of communication.				
	About how often do your communication				
	devices have these or other problems?				
	Never	14.5	12.2	12.7	16.8
	Some of the time	70.7	82.0 ^[3]	71.8	66.0 ^[1]
	About half the time	7.8	$2.8^{[2,3]}$	7.4	10.0
	Most of the time	5.7	$2.5^{[3]}$	7.6	5.2
	Always	1.3	$0.6^{[3,+]}$	$0.6^{[3,+]}$	$2.1^{[1,2]}$

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment Not adequate Adequate More than adequate	38.6 54.0 7.4	27.3 ^[3] 65.0 ^[3] 7.7	35.4 ^[3] 57.3 ^[3] 7.3	45.2 ^[1,2] 47.4 ^[1,2] 7.3
42b.	Training Not adequate Adequate More than adequate	36.0 56.4 7.7	44.0 49.8 6.2	36.7 54.7 8.6	32.6 60.0 7.3
42c.	Personnel Not adequate Adequate More than adequate	48.8 46.2 5.0	49.7 46.1 4.2	55.5 ^[3] 40.6 ^[3] 3.9	$42.6^{[2]} \\ 51.2^{[2]} \\ 6.3$
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.	18.7	12.9 ^[3]	12.7 ^[3]	25.4 ^[1,2]
Neve	One or two times per year erSeveral times per year Once a month or more	30.9 40.4 10.0	23.0 ^[2,3] 48.0 16.1 ^[3]	32.5 ^[1] 41.8 13.0	32.4 ^[1] 36.7 5.6 ^[1]
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail On the Internet From colleagues in other departments At conferences or other meetings <i>Legitimately Skipped Question</i>	55.8 39.8 15.1 10.8 18.3	47.664.4[2,3]13.219.9[2,3]12.9[3]	57.8 45.6 ^[1,3] 22.3 ^[3] 11.9 ^[1,3] 12.1 ^[3]	$56.9 \\ 26.4^{[1,2]} \\ 9.8^{[2]} \\ 6.7^{[1,2]} \\ 25.4^{[1,2]}$

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
45.	Have you read part or all of a NIOSH Fire				
	Fighter Fatality Investigation report in the				
	last 12 months?				
		64.8	76.5 ^[3]	72.1 [3]	54.7 ^[1,2]
	No	16.9	10.7 ^[3]	15.9	19.8 ^[1]
Yes	Legitimately Skipped Question	18.3	12.8 ^[3]	12.0 ^[3]	25.5 ^[1,2]
50.	Does the fire department disseminate the				
	information it receives from NIOSH to the				
	firefighters?		(2)	(2)	(1.0)
	Yes	67.6	74.0 ^[3]	71.0 ^[3]	62.5
	No	13.5	13.2	16.3	11.4
	Legitimately Skipped Question	18.9	12.8 ^[3]	12.7 [3]	26.1
50a.	How is this information disseminated to				
	firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	25.4	19.7	28.6	24.7
	Training sessions	51.5	54.9	55.3	47.2
	Provide copies of NIOSH reports to			[2]	[2]
	firefighters	21.0	21.8	28.1	14.9 ^[2]
	Provide copies of NIOSH report summaries to				
	firefighters	10.2	8.2	15.1	6.8
	Provide summaries prepared by department to		1 1 2 [2 3]	• (II)	• (II)
	firefighters	4.1	11.0 ^[2,3]	2.4	3.1
	Postings on bulletin boards	43.1	39.5	42.3	45.0
	Post report on the department website	3.8	5.2	5.9	$1.6^{[1]}$
	Send message to firefighters by email	13.8	34.3	17.7	$3.5^{[1,2]}$
	Other	2.6	5.7	2.5	1.7
	Legitimately Skipped Question	31.8	26.5	27.7	37.1
51.	The NIOSH reports sometimes reference				
	other documents, such as guidelines or				
	more detailed technical reports. Does your				
	fire department usually have access to				
	documents that are referenced in NIOSH				
	reports?	50.4	70 [2,3]	57 0 [1.3]	27.1 ^[],2]
	NT	50.4	14.0[2,3]	$57.2^{[1]}$	$3/.1^{[1,-]}$
	NO	<i>3</i> 0.8	14.0	30.5 ¹	36.8 ^[1]
Yes	Legitimately Skipped Question	18.8	13.4	12.4	26.0

		Department Type			
Que	stion	Total	All Career	All Volunteer	Combination
52.	NIOSH reports always include				
	recommendations that are designed to help				
	improve the health and safety of				
	firefighters. How much do you agree or				
	disagree with the following statements				
	about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	2.5	1.3 [+]	5.7 [+]	0.2 [+]
	Disagree	5.1	1.5	8.4	3.7
	Neither Agree nor Disagree	18.4	14.9	18.2	19.9
		50.3	62.4 ^[3]	50.6	45.9 ^[1]
	Strongly Agree	4.7	6.8	4.6	3.9
Agre	eLegitimately Skipped Question	19.0	13.1 [3]	12.6 ^[3]	26.5 [1,2]
52b.	Recommendations are easy to understand				
	Strongly Disagree	2.4	0.7 [+]	5.8 [+]	0.1 [+]
	Disagree	1.5	1.1	1.5	1.6
	Neither Agree nor Disagree	16.9	10.6 ^[3]	14.6 ^[3]	$21.0^{[1,2]}$
	Agree	54.2	65.8 ^[3]	59.6 ^[3]	45.6 ^[1,2]
	Strongly Agree	6.0	8.7	5.8	5.1
	Legitimately Skipped Question	19.1	13.1 [3]	12.6 ^[3]	26.6 ^[1,2]
52c.	Recommendations are specific and				
	Concrete Strongly Discourse	25	1 2 [+]	5 0 ^[+]	0.1 [+]
	Siroligiy Disagree	2.3	1.5	5.9	0.1
	Disagree Naithan A anag non Disagnag	0.0	1 4 9 [2,3]	1.8 22 0 ^[1]	3.9 27.7 ^[1]
	A grad	24.2 12.5	14.8 54 7 ^[3]	25.9	27.1^{21}
	Agiet	45.5	24./ ¹	43.0	$3/.0^{-1}$
	Lasitimately Skinned Owestion	4./ 10.1	0.4	4.0	3.9^{-1}
	Leguimaiely Skippea Question	19.1	13.2	12.7	20.3

	Department Type			
Question	Total	All Career	All Volunteer	Combination
53. What other NIOSH materials have you				
seen? MARK ALL THAT APPLY.				
Pocket guide to chemical hazards	63.7	81.0 ^[2,3]	64.5 [1]	57.0 ^[1]
Respirator maintenance program guide	16.6	20.9	13.6	17.7
CDs of firefighter program materials	32.3	42.4	31.5	29.5
	44.2	58.8 ^[3]	49.4 ^[3]	34.7 ^[1,2]
Hazard IDs	18.0	18.4	17.9	17.9
AlertsWorkplace Solutions	14.3	13.5	15.2	13.7
	1.0	1.1 [+]	1.3	0.7
None. I have not seen any NIOSH materials.	18.3	10.0 ^[3]	15.4 ^[3]	23.7 ^[1,2]
58her How satisfied or dissatisfied are you with				
these NIOSH materials?				
Very dissatisfied	1.5	1.8	1.3 [+]	1.5
Dissatisfied	0.1	**	** [+]	0.3 [+]
Neither satisfied nor dissatisfied	19.0	9.1 ^[2,3]	18.4 [1]	23.0 ^[1]
Satisfied	53.0	68.0 ^[2,3]	54.2 [1]	46.7 [1]
Very satisfied	8.3	10.9 ^[3]	10.9	5.1
Legitimately Skipped Question	18.1	10.1 [3]	15.2 [3]	23.4 ^[1,2]
54. Have you ever visited the NIOSH website				
at www.cdc.gov/niosh/firehome.html?				
	44.0	16.7 ^[2,3]	38.8 ^[1,3]	57.8 ^[1,2]
Yes, in the last year	50.0	76.7 ^[2,3]	54.7 ^[1,3]	36.7 ^[1,2]
No Yes, longer than one year ago	6.1	6.5	6.5	5.5

	Department Type			
Question	Total	All Career	All Volunteer	Combination
55. In which of these ways would you most				
prefer to receive information about NIOSH				
recommendations? MARK YOUR THREE				
(3) FAVORITES.				
Cable television programming	5.2	4.5	3.4 [3]	7.1 [2]
CD/DVD	50.6	35.4 ^[2,3]	50.2 [1]	56.2 [1]
Conference presentations or meeting	8.9	10.8	9.6	7.6
Email	53.8	71.9 ^[2,3]	56.1 ^[1,3]	45.5 ^[1,2]
Fire Fighter Fatality Investigation Reports	53.6	59.5 ^[3]	60.0 ^[3]	46.1 ^[1,2]
NIOSH Website	27.2	40.3 [2,3]	23.7 [1]	25.5 [1]
One-page Fact Sheets	30.3	30.9	27.8	32.3
Pocket Guides	26.7	27.1	23.9	28.9
	12.8	4.5 ^[2,3]	14.4 [1]	$14.4^{[1]}$
Summary Reports	25.5	17.4 [2]	31.0 ^[1]	23.7
PosterTraining session/class	19.1	12.8 ^[3]	20.0	20.5 [1]
Other	1.1	** [2,3]	$1.2^{[1]}$	1.4 [1]

Note:

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.
		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
1.	Does your department have a Safety				
	Officer?				
		70.0	76 1 [2]	94 1 ^[1]	77 /
		79.0	70.1 23 $0^{[2]}$	15 Q ^[1]	22.6
Vac	Doos your department have a Training	21.0	23.9	13.9	22.0
4.05	Officer?				
INO	Ves	93.3	92.7	94 7	92.5
	No	67	73	53	75
3	Some fire departments use Standard	0.7	1.5	5.5	1.5
•••	Operating Procedures (SOPs) or Standard				
	Operating Guidelines (SOGs) to describe				
	how certain situations should be				
	approached. For which of the following				
	does your department have SOPs/SOGs in				
	place? MARK ALL THAT APPLY.				
	Incident Command Systems	89.6	87.6 ^[2]	96.1 ^[1,3]	81.9 ^[2]
	Maintenance of SCBAs	76.8	70.8 ^[2]	86.0 ^[1]	77.1
	Motor vehicle safety	83.9	82.8	87.1	80.5
	Participation in a personal physical fitness				
	program	24.3	14.5 ^[2]	40.3 [1]	23.4
	Participation in regular health screenings for		[2]	[1]	
	cardiovascular disease (CVD)	33.5	26.7 ^[2]	46.5	28.5
	Rapid Intervention Teams (RITs), also known				
	as Rapid Intervention Crews (RICs) or				
	Firefighter Assistance and Search Teams	5 0 0	1 m m [2]	o o c[13]	<u>م</u> ج [2]
	(FAST)	58.8	47.5	82.6	45.5
	Use of Personal Alert Safety System (PASS)	01.5	70 1 [2]	00 4 [1.3]	$72 \ 1^{[2]}$
	devices	81.5	/8.1	90.4	/3.1
	Use of personal protective equipment and	02.1	$02 2^{[2]}$	05 2 [1]	01.5
	Use of radio communications	93.1 99.0	92.2 ¹	95.2	91.5
	Use of faulo communications	00.9 10.7	80.9 ^[2]	$15 7^{[1,3]}$	90.4 6 5 ^[2]
	Does not apply. Our fire department does not	10.7	0./	13./	0.3
	a use SOPs/SOGs	2.6	3 1 [2]	0.7 ^[1]	3.0
Othe	r use son s/soos.	2.0	J. 4	0.7	5.7

Table 17.1Results from the Fire Department Survey, Percent Estimates by Rural/UrbanFire Fighter-Level Estimates

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires No Training Optional Training Required Training	1.2 11.1 88.1	$0.6 \\ 14.3^{[2]} \\ 85.8^{[2]}$	$\begin{array}{c} 0.3^{[+]} \\ 4.1^{[1,3]} \\ 95.8^{[1,3]} \end{array}$	5.6 ^[+] 15.8 ^[2] 78.7 ^[2]
4b.	Driving safety No Training Optional Training Required Training	2.3 12.9 85.0	2.4 15.2 ^[2] 82.5 ^[2]	1.3 7.4 ^[1,3] 91.5 ^[1,3]	4.0 17.2 ^[2] 78.8 ^[2]
4c.	Incident Command systems No Training Optional Training Required Training	1.5 19.2 79.4	1.9 ^[2] 24.6 ^[2] 73.7 ^[2]	$\begin{array}{c} 0.2^{[1,+]} \\ 7.4^{[1,3]} \\ 92.4^{[1,3]} \end{array}$	2.9 27.0 ^[2] 70.1 ^[2]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs) No Training Optional Training Required Training	5.1 27.6 67.7	$\begin{array}{c} 6.1^{[2]} \\ 33.2^{[2]} \\ 61.0^{[2]} \end{array}$	2.4 ^[1] 18.3 ^[1] 79.7 ^[1,3]	7.8 28.1 64.0 ^[2]
4e.	Rapid Intervention Teams (RITs) No Training Optional Training Required Training	17.3 32.7 50.3	$22.6^{[2]} \\ 39.4^{[2,3]} \\ 38.1^{[2]}$	$3.5^{[1,3]} \\ 25.4^{[1]} \\ 71.6^{[1,3]}$	31.6 ^[2] 24.8 ^[1] 43.6 ^[2]
4f.	Use of personal protective equipment and/or protective clothing No Training Optional Training Required Training	1.1 6.9 92.2	0.9 8.6 ^[2] 90.7 ^[2]	1.4 3.2 ^[1,3] 95.6 ^[1]	1.3 ^[+] 9.2 ^[2] 89.6
4g.	Use of radio communication devices No Training Optional Training Required Training	2.3 15.6 82.4	2.7 17.8 ^[2] 79.7 ^[2]	$1.4 \\ 10.0^{[1,3]} \\ 89.3^{[1,3]}$	2.7 ^[+] 20.8 ^[2] 76.5 ^[2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
5.	Who provides training to your firefighters?				
	MARK ALL THAT APPLY.				
	Our department's Training Officer	90.4	88.7 [2]	93.7 ^[1]	88.8
	Other officers within our department	88.2	85.8 ^[2]	94.9 ^[1,3]	81.3 [2]
	State fire training agency	78.1	80.4	73.9	79.1
	United States Fire Administration's (USFA)				
	National Fire Academy in Emmitsburg, MD	34.4	28.0 ^[2]	50.3 ^[1,3]	21.1 [2,+]
	Conferences or regional meetings	60.7	57.3 [2]	69.4 ^[1]	52.9
	Other	25.6	23.9	30.9	19.3
6.	What other trainings have your firefighters				
	attended in the last 12 months? MARK				
	ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents				
	(MVA)	57.7	62.7 ^[3]	57.5 ^[3]	38.4 ^[1,2]
	Scuba diving	11.9	8.8 ^[2]	19.8 ^[1,3]	5.0 ^[2]
	Swift water rescue	19.5	14.3 [2,3]	34.5 ^[1,3]	3.8 ^[1,2]
	Wildland fire fighting	40.3	49.8 [2]	23.4 ^[1,3]	44.8 ^[2]
	HAZMAT	74.3	71.1 [2]	83.1 [1,3]	65.0 ^[2]
	Other	38.1	31.8 ^[2]	48.7 [1]	36.9
8.	How familiar are you with the National				
	Institute for Occupational Safety and				
	Health (NIOSH)?				
	Not at all familiar	4.8	6.3 [2]	$2.2^{[1,+]}$	5.5
	Not very familiar	17.1	20.3 [2]	8.7 ^[1,3]	24.6 ^[2]
	Somewhat familiar	58.1	60.3	57.3	51.8
	Very familiar	20.0	13.1 [2]	31.8 ^[1]	18.1 [+]
9.	How familiar are you with NIOSH's Fire				
	Fighter Fatality Investigation and				
	Prevention Program (FFFIPP)?				
	Not at all familiar	14.6	18.5 [2]	6.7 ^[1,3]	18.2 ^[2]
	Not very familiar	27.2	30.3 [2]	19.9 ^[1]	33.2
	Somewhat familiar	41.3	39.1 [2]	48.4 ^[1,3]	32.3 [2]
	Very familiar	16.9	12.1 [2]	25.0 ^[1]	16.3 [+]

		Rural/Urban			
Que	stion	Total Rural Urban Unknow			Unknown
10.	How does your department receive				
	information about NIOSH's firefighter				
	safety and health recommendations?				
	MARK ALL THAT APPLY.				
	NIOSH mailings	71.5	73.4	73.3	60.1
	National conference presentations	9.3	8.4 ^[3]	13.9 ^[3]	$1.5^{[1,2,+]}$
	State-level conference presentations	15.5	14.3	18.5	13.0
	Other firefighters or departments	25.8	23.4	23.9	40.3
	At seminars or other training opportunities				
	(not conferences)	21.4	20.9	20.9	24.6
	Trade publications (such as Firehouse and				
	Fire Engineering)	55.5	52.2 [2]	62.7 ^[1]	51.0
	NIOSH website	40.9	31.6 ^[2]	58.6 ^[1,3]	34.6 ^[2]
	Links from other websites (such as NFPA and				
	Firehouse)	36.8	33.8 ^[2]	43.7 ^[1]	32.1
	Media reports - newspaper, television, radio	15.9	15.3	16.5	16.8
		2.7	0.6	7.1 [+]	$0.4^{[+]}$
	Does not apply. We have not received				
Othe	r information about NIOSH				
	recommendations.	7.0	6.7 ^[2,3]	$3.2^{[1,3]}$	17.9 ^[1,2]
11.	In what ways has your department used				
	NIOSH recommendations? MARK ALL				
	THAT APPLY.				
	Made changes to training program	48.5	47.3	54.6	38.1
	Developed new SOPs/SOGs	35.3	31.1 ^[2]	41.8 ^[1]	35.4
	Made changes to SOPs/SOGs	45.6	42.3 [2]	54.2	37.7
	Justified current budget/staffing	10.6	5.2 ^[2]	16.7[1]	16.9 ^[+]
	Made new budget/staffing requests	12.2	10.1	14.4	14.9 ^[+]
	Justified grant applications	19.7	20.3 ^[3]	$23.2^{[3]}$	8.7 ^[1,2]
	Does not apply. We have not used NIOSH				
	recommendations.	25.0	27.0	20.7	27.9
	Legitimately Skipped Question	7.3	7.0 ^[2,3]	$3.3^{[1,3]}$	18.6 ^[1,2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
11b.	Can you identify topics of NIOSH				
	recommendations that you have used for				
	training purposes? If so, MARK ALL				
	THAT APPLY.				
	Traffic hazards	35.3	35.8	34.2	35.9
	Personal protective equipment and clothing	49.6	48.0	54.8	43.0
	SCBA	49.7	47.8	56.5	40.1
	PASS systems	40.4	37.8	46.6	35.5
	Incident Command systems	40.8	36.4 ^[2]	48.3 ^[1]	40.1
	Radio communications	27.1	25.3 [2]	34.9 ^[1,3]	15.5 ^[2]
	Physical fitness and cardiovascular disease				
	(CVD)	15.9	11.8 ^[2]	26.1 [1,3]	$6.8^{[2]}$
	Building code compliance (e.g., warning				
	against the use of wooden trusses)	9.9	8.6	9.1	17.0 [+]
	Other	4.8	2.2	4.6	15.0 [+]
	Does not apply. We have not used NIOSH				
	recommendations for training purposes.	1.8	1.8 ^[3]	2.2	$0.5^{[1,+]}$
	Legitimately Skipped Question	32.5	33.9 ^[2]	24.3 ^[1,3]	46.6 ^[2]
12.	Does your department have a fitness				
	training that involves physical exercise				
	and/or other health promotion activities				
	(for example a cardiovascular fitness				
	program, physical training program,				
	wellness program, or other fitness				
	program)?				
		58.8	72.4 ^[2]	31.9 ^[1,3]	70.3 [2]
	Yes, it's required	16.9	9.6 ^[2]	26.3 [1]	23.3
No	Yes, it's optional	24.3	18.1 [2,3]	41.9 ^[1,3]	$6.4^{[1,2]}$
13.	How often do your firefighters receive				
	screenings for cardiovascular disease				
	(CVD) and its risk factors?				
	One time, when they first join the department	14.5	14.1 [3]	18.8 ^[3]	5.4 ^[1,2]
	Less frequently than once a year	9.2	7.9 ^[3]	13.7 ^[3]	3.1 [1,2,+]
	One time a year	32.8	25.6 ^[2]	45.1 ^[1]	31.3
	More than one time a year	0.4	0.2 [+]	0.9 ^[+]	**
	Does not apply. Firefighters are not required				
	to receive CVD screenings	43.2	52.2 [2]	$21.6^{[1,3]}$	$60.2^{[2]}$

		Rural/Urban			
Ques	stion	Total	Rural	Urban	Unknown
14.	Do all drivers of vehicles responding to				
	emergency calls receive driver training				
	before being allowed to operate the				
	vehicles? MARK ALL THAT APPLY.				
	No	4.1	4.9	2.8	4.4
	Yes, they receive training required by the				
	department	88.9	86.5 [2]	93 .1 ^[1]	88.4
	Yes, they receive training required by the				
	state	28.3	27.9	26.7	34.0
	Yes, they receive optional training	13.6	12.1	11.3	25.0
15.	How often do drivers of your fire				
	department vehicles receive refresher				
	driver training to continue being allowed				
	to drive the vehicles?				
	Two or more times a year	12.1	12.5	10.2	15.2
	Once every year	43.6	41.2	45.5	48.3
	Less frequently than once a year	28.4	28.4	31.1	21.2
	Does not apply. Firefighters are not required				
	to receive continuing driver training.	15.9	17.8	13.2	15.3
16.	Does your fire department have a				
	requirement regarding seat belt use in				
	emergency vehicles?				
		89.2	87.0 ^[2]	93.8 ^[1]	86.5
		10.8	13.0 ^[2]	$6.2^{[1]}$	13.5
V es	To what extent do you agree or disagree				
No	that your firefighters are able to fit				
	comfortably in their seatbelts while				
	wearing turnout gear in your emergency				
	vehicles?				
	Strongly disagree	6.8	8.0 ^[3]	6.4	3.3 [1,+]
	Disagree	19.5	17.7	23.6	16.1
	Neither agree nor disagree	25.2	29.1 ^[2]	18.6 ^[1]	26.2
	Agree	34.8	33.0	35.6	40.0
	Strongly agree	13.7	12.2	15.8	14.4

		Rural/Urban			
Question	Total	Rural	Urban	Unknown	
18. About how often do you think your					
firefighters use their seatbelts when riding	5				
in the emergency vehicles?					
	3.6	4.6 ^[2]	1.8 ^[1]	3.7	
Some of the time	22.3	19.3	28.2	19.0	
NeverAbout half the time	16.5	17.7	14.8	16.4	
Most of the time	38.1	39.8	36.7	34.6	
Always	19.6	18.5	18.5	26.3	
21. How often is Incident Command					
established when responding to structure					
fires?					
	1.3	1.1	0.6 [+]	3.5	
	3.6	5.3 ^[2]	$0.7^{[1,3]}$	4.4 ^[2]	
NeverAbout half the time	4.0	5.5 ^[2]	1.2 ^[1]	4.7	
RarelyMost of the time	20.3	24.9 ^[2]	$10.7^{[1,3]}$	26.5 [2]	
Always	70.8	63.2 ^[2]	86.8 ^[1,3]	60.9 ^[2]	
22. What are the reasons why Incident					
Command is not always established by					
your fire department? MARK ALL THA	Г				
APPLY.					
Fires are not usually big enough to require a	n				
Incident Commander	15.1	19.7 ^[2]	4.8 ^[1,3]	$22.0^{[2]}$	
Not enough firefighters available at the scen	e				
of the fire	12.6	16.9 ^[2]	3.3 [1,3]	18.5 ^[2]	
Other	4.7	4.8	5.0	3.6	
Does not apply. My department always					
assigns an Incident Commander for					
structure fires.	3.4	4.2	2.0 ^[+]	3.8	
Legitimately Skipped Question	70.8	63.1 ^[2]	87.1 ^[1,3]	60.6 ^[2]	

		Rural/Urban			
Question	Total	Rural	Urban	Unknown	
23. When Incident Command is established f	or				
a structure fire, what are the Incident					
Commander's responsibilities? MARK					
ALL THAT APPLY.					
Conduct an initial assessment before the oth	er				
firefighters begin entering the building	91.2	93.4	90.1	85.5	
Develop and coordinate the fire attack					
strategy	94.2	93.4	96.7	91.1	
Develop and initiate a risk management plan	n 63.6	58.3 [2]	74.1 [1,3]	58.2 ^[2]	
Document all assessments, plans and events		[2]	[2]	[1.0]	
related to the fire	42.2	41.3 [3]	50.0 ^[3]	26.5 ^[1,2]	
Ensure that at least four (4) firefighters are o	on				
the scene before entering the building	70.4	67.9	74.1	71.4	
Establish a collapse zone around the buildin	g 53.9	52.0 ^[2,3]	63.6 ^[1,3]	37.3 [1,2]	
Establish Rapid Intervention Team (RIT) or			[1.0]	[0]	
Rapid Intervention Crew (RIC)	64.6	52.9 ^[2]	88.7 ^[1,3]	51.0 ^[2]	
Identify and implement a communication					
strategy	67.5	65.7	66.8	76.0	
Monitor location of all firefighters at the		[2]	[1]		
scene	77.2	73.2	85.4	72.5	
	10.4	10.0	12.3	7.9	
24. About how often does an Incident					
Other Commander assign an Incident Safety					
Officer when responding to structure fire	s?	[2]	. [1]		
	8.2	8.9 ^[2]	5.4	12.5	
Some of the time	25.1	25.2	25.8	22.6	
NeverAbout half the time	8.0	9.2	5.8	8.7	
Most of the time	31.6	31.0	34.3	25.9	
Always	27.2	25.6	28.6	30.3	

		Rural/Urban			
Question		Total	Rural	Urban	Unknown
25. What are the r	easons why an Incident				
Commander d	oes not always assign an				
Incident Safety	y Officer? MARK ALL				
THAT APPLY	ζ.				
Fires are not big	g enough to require an Incident				
Safety Office	r	28.0	29.6	25.1	29.6
Not enough fire	efighters are available at the				
scene of the f	ĩre	42.4	50.9 ^[2]	$28.1^{[1,3]}$	44.9 ^[2]
Other		20.4	12.2 ^[2]	36.0 ^[1,3]	12.1 [2]
Does not apply.	. Our Incident Commanders				
always assign	an Incident Safety Officer for				
structure fires	5.	2.0	2.0	2.1 [+]	1.9 [+]
Legitimately Sk	ipped Question	27.5	25.9	28.9	31.1
26. How often are	Rapid Intervention Teams				
(RITs) or Rap	id Intervention Crews				
(RICs) availab	le at structure fires?		[2,2]	[1.0]	[1.0]
		17.6	$21.4^{[2,3]}$	$4.1^{[1,3]}$	$36.0^{[1,2]}$
Some of the tin	ne	16.3	$22.5^{[2,3]}$	7.8	12.6
NeverAbout half the	time	5.5	6.8 ^[3]	4.5	3.1
Most of the tim	e	26.6	26.3	25.6	30.3
Always		34.0	23.0 ^[2]	58.0[1,3]	18.0 ^[2]
27. In what situati	ions are RITs/RICs				
established? M	IARK ALL THAT APPLY.				
When the build	ing has more than one		[2]	511	
story/floor		8.6	11.0 ^[2]	5.7[1]	6.4
When there are	enough firefighters on and at		[2,2]	513	513
the scene of t	he fire	28.7	35.7 ^[2,3]	20.6	20.8
Whenever firef	ighters enter a burning		[2]	F13	
building		26.1	28.4 ^[2]	19.5	33.2
		6.2	$4.7^{[2,3]}$	$10.5^{[1,3]}$	$1.5^{[1,2,+]}$
Legitimately Sk	ipped Question	51.7	44.6 ^[2]	61.8 ^[1]	54.4

Other

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
28.	What are the reasons why your fire				
	department does not use RITs/RICs in				
	every structure fire? MARK ALL THAT				
	APPLY.				
	The structure fire may not be large enough to need an RIT/RIC	29.7	32.5 ^[2]	24.9 ^[1]	30.2
	We don't have enough equipment, SCBAs, or				
	turnout gear to establish an RIT/RIC	4.9	7.3 [2]	$0.3^{[1,3,+]}$	7.0 ^[2]
	We don't have enough firefighters available at				
	the scene of the fire	41.7	51.2 ^[2]	$22.3^{[1,3]}$	52.5 [2]
	We don't have enough training or trained				
	personnel at the scene to establish an				
	RIT/RIC	13.6	18.7 ^[2]	5.7 ^[1,3]	13.3 [2]
	We have never established an RIT/RIC	10.6	13.6 ^[2]	$3.6^{[1,3]}$	16.3 [2]
	We use other fire departments in the area for				
	RITs/RICs	22.6	30.2 ^[2,3]	13.0 ^[1]	16.6 ^[1]
	We use other safety practices and so we don't		[0]	[1.0]	
	need them	2.6	2.8 ^[2]	$0.6^{[1,3]}$	6.5 ^[2]
	Other	5.5	5.2	5.2	7.8 ^[+]
	Legitimately Skipped Question	34.4	23.5 ^[2]	58.1 [1,3]	18.2 ^[2]
29.	Does your fire department have enough				
	Personal Alert Safety System (PASS)				
	devices for all firefighters for use when				
	fighting structure fires?		[2 2]	[1 2]	[1 2]
		86.4	$83.5^{[2,3]}$	99.1 ^[1,3]	$66.3^{[1,2]}$
		13.6	16.5 [2,5]	0.9	$33.7^{[1,2]}$
Sle s	About how often do you think your				
No	firefighters wear their PASS devices when				
	fighting structure fires?	~ -	a a [23]	.t.t. [1 3 +]	1 < 0 [1 2]
		3.7	$2.9^{[2,5]}$	** [^{1,2} , ¹]	$16.0^{[1,2]}$
	Some of the time	2.5	4.0^{12}	0.1 [1,-2,-1] مع ال	$3.1^{[2]}$
Nev	erAbout half the time	1.2	1.7^{12}	** [1,5]	2.1^{11}
	Most of the time	8.5	11.5 ^[2]	$3.1^{[1,3]}$	10.1^{12}
	Always	84.1	80.0	96.8 ^[1,2]	68 .7 ^[2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
31.	Why do you think your firefighters do not				
	use their PASS devices more often? MARK				
	ALL THAT APPLY.				
	They don't have a PASS device to use	8.3	9.2 ^[2,3]	$0.3^{[1,3,+]}$	$25.1^{[1,2]}$
	Situation doesn't require them	6.3	8.7 ^[2]	$1.4^{[1,3]}$	9.1 ^[2]
	Firefighters think the devices do not always				
	work reliably	0.2	$0.2^{[+]}$	** [+]	$0.8^{[+]}$
	Firefighters don't think they need them	3.2	5.4 ^[2,3]	$1.0^{[1,+]}$	$0.4^{[1,+]}$
	Devices go off while firefighters are resting	2.6	$3.7^{[2,3]}$	$1.3^{[1,+]}$	$1.4^{[1,+]}$
	Legitimately Skipped Question	84.5	80.6 ^[2]	96.8 ^[1,3]	68.7 ^[2]
32.	Does your department have Self Contained				
	Breathing Apparatuses (SCBA) for your				
	firefighters to use when combating				
	structure fires?				
	Yes	98.8	99.7	99.7	93.3
		1.2	0.3	0.3 [+]	[+]
33.	Do your firefighters ever have to share				
No	facepieces for SCBAs?			54 A)	
		40.2	48.6 ^[2]	$22.7^{[1,3]}_{[1,3]}$	48.5 ^[2]
	No	58.6	51.1 ^[2]	$77.0^{[1,3]}$	44.7 ^[2]
Yes	Legitimately Skipped Question	1.2	0.3	0.3 [+]6. /	6.8 [+]
33a.	What are the reasons why your fire				
	department does not have personally-fitted				
	SCBA facepieces for all of your				
	firefighters? MARK ALL THAT APPLY.		[0]	F1 . 3	
	Didn't know it was recommended	3.1	3.5 ^[2]	$1.1^{[1,+]}$	6.1
	Firefighters don't like using the equipment	0.1	0.3 [+]	**	**
	Have never needed them (e.g., we don't do		[0]	513	5.1
	interior attacks)	0.2	0.4 ^[2]	**[1]	$0.2^{[+]}$
	They cost too much, there is not enough		[0]	[1.0]	[0]
	money in the budget	25.6	32.2 ^[2]	$11.1^{[1,3]}$	33.6 ^[2]
	We don't have enough equipment for all of		[0]	[1.0]	[0]
	our firefighters	17.9	$24.1^{[2]}$	$5.4^{[1,3]}$	$22.9^{[2]}$
	Shared systems work fine for our needs	19.3	22.6 ^[2]	$11.4^{[1,3]}$	24.8 ^[2]
	Other	7.3	$7.9^{[3]}$	8.1 ^[+]	3.1
	Legitimately Skipped Question	59.8	51.5 ^[2]	77.4 ^[1,3]	50.8 ^[2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
34.	About how often do you think your				
	firefighters use SCBAs while fighting				
	structure fires?				
		0.4	$0.4^{[2]}$	** [1]	1.2 [+]
	Some of the time	2.3	3.2 ^[2]	** [1,3]	4.0 ^[2]
Nev	erAbout half the time	1.7	2.3 [2]	** [1,3]	3.3 ^[2]
	Most of the time	22.5	23.6	20.9	21.9
	Always	72.0	70.2	78.8	63.0
	Legitimately Skipped Question	1.2	0.3	0.3 [+]	6.7 ^[+]
35.	Why do you think your firefighters do not				
	use SCBAs more often when fighting				
	structure fires? MARK ALL THAT				
	APPLY.				
	Situation doesn't require them	20.1	22.7	14.6	23.3
	Firefighters do not trust that the SCBAs will		F-1		
	work reliably	**	** [+]		**
	Firefighters don't think they need them	11.4	9.9	15.2	7.7
	Firefighters don't like sharing facepieces with		[2]	[1]	F-1
	others	0.5	0.8 ^[2]		[+]
	Firefighters are concerned that the SCBA may		F-1		
	be or become contaminated	**	** [+]	**	**
	Wearing SCBAs makes it more difficult to		** []**	[1]	
	work	4.4	$6.3^{[2]**}$	[1]	[0]
	Firefighters don't have SCBAs to use	2.7	4.3 [2]	**[1,2]	[2]
	Legitimately Skipped Question	73.9	71.3	79. Q .6	71.5
36.	How often is routine maintenance				
	performed on your SCBAs?		1.0	2.1	
	After every time they are used	46.6	47.7 1.8	46.2 5.1	42.8
	Once a month or more	16.7	17.4	16.0	15.8
	Several times a year	14.3	13.0	17. B .0	12.0
	Once a year	17.6	17.5	18.6	15.6
	Less than once a year	2.6	3.1	1.3 [+]	
	Never. Maintenance has not been done on our			, F+1	F+1
	SCBAs.	0.8	0.9	0.6 ^[+]	[+]
	Does not apply. My department does not have				
	SCBAs.	**	**	**	**
	Legitimately Skipped Question	1.5	0.4	$0.4^{1+14.0}$	[+]

		Rural/Urban			
Ques	stion	Total	Rural	Urban	Unknown
37.	How many				
	Chemical/Biological/Radiological/Nuclear				
	(CBRN) SCBAs are available (or on order)				
	for use by firefighters within your				
	department at this time?				
	Greater than zero	29.7	20.3 ^[2]	47.5 ^[1,3]	23.4 ^[2]
		70.3	79.7 ^[2]	52.5 ^[1,3]	76.6 ^[2]
37a.	What are the reasons why your fire				
Zero	department does not have CBRN SCBAs?				
	MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our				
	department	16.6	17.7 ^[2]	$10.7^{[1,3]}$	26.4 ^[2]
	We didn't know they were available	11.2	13.6 ^[2]	6.9 ^[1]	12.1
	We don't have adequate technical information				
	to purchase them	15.4	18.5 ^[2]	9.5 ^[1]	18.1
	We don't have adequate funding to purchase				
	them	50.8	60.6 ^[2]	$33.9^{[1,3]}$	53.9 ^[2]
	Other	7.1	5.7 ^[2]	$10.7^{[1,3]}$	$3.7^{[2]}$
	Legitimately Skipped Question	31.1	21.4 ^[2]	49.6 ^[1,3]	23.8 ^[2]
38.	Does your fire department have				
	Automated External Defibrillators				
	(AEDs)?		[0]	[1.0]	[0]
		85.3	83.0 ^[2]	$93.5^{[1,3]}$	$74.3^{[2]}$
	No	14.7	17.0 ^[2]	6.5 ^[1,3]	25.7 ^[2]
388.	At your fire department, where do you				
	have AEDs?				
	At the fire station(s)	2.1	$2.2^{[2]}$	$0.3^{[1,+]}$	6.6 ^[+]
	On the emergency vehicles (or apparatus)	66.1	62.6 ^[2]	$77.3^{[1,3]}$	53.4 ^[2]
	Both at the fire station(s) and on the vehicles				
	(or apparatus)	14.8	16.5 ^[3]	14.6	8.4 ^[1]
	Legitimately Skipped Question	17.0	18.8 ^[2,3]	7.9 ^[1,3]	31.7 ^[1,2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
39.	How often has routine maintenance,				
	including replacement of battery packs,				
	been performed on your AEDs?				
	After every time they are used	20.1	13.4 ^[2]	26.0 ^[1]	30.9
	Once a month or more	24.7	25.6	24.0	23.1
	Several times a year	19.4	22.3 ^[3]	18.0	$11.4^{[1]}$
	Once a year	23.1	22.8	24.9	18.9
	Less frequently than once a year	6.2	8.0	4.4	3.9 [+]
	Never. Maintenance on our AEDs has not				
	been done.	6.5	8.0 ^[2]	$2.6^{[1,3]}$	11.9 ^[2]
40.	About how often do your firefighters carry				
	radios or other two-way communication				
	devices while responding to structure fires?				
		1.5	2.4 ^[2]	$0.3^{[1,+]}$	1.0 [+]
	Some of the time	3.1	4.8 ^[2,3]	$0.8^{[1]}$	$1.8^{[1,+]}$
Nev	erAbout half the time	1.6	$2.2^{[2]}$	$0.8^{[1,+]}$	1.3 [+]
	Most of the time	16.1	21.3 [2]	7.1 ^[1,3]	$18.0^{[2]}$
	Always	77.8	69.3 ^[2]	91.1 ^[1,3]	78.0 ^[2]
41.	Some radios and other two-way				
	communication devices can have problems				
	under field conditions, such as bleed-over,				
	interference, or loss of communication.				
	About how often do your communication				
	devices have these or other problems?				
	Never	14.5	15.2	13.8	13.3
	Some of the time	70.7	68.9 ^[2]	78.1 [1]	59.7
	About half the time	7.8	9.0	5.8	8.3
	Most of the time	5.7	5.3 [2]	2.0 ^[1]	16.0 ^[+]
	Always	1.3	1.6 ^[2]	$0.3^{[1,+]}$	$2.6^{[+]}$

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
42.	How would you rate your department's				
	budget in the following areas?				
42a.	Equipment				
	Not adequate	38.6	43.7 [2]	29 .4 ^[1]	41.6
		54.0	50.5 [2]	59 .8 ^[1]	53.2
	More than adequate	7.4	5.8 ^[2]	10.8 ^[1]	5.2
Adec	luate Training				
	Not adequate	36.0	37.3	35.9	30.9
	Adequate	56.4	55.0	56.8	60.7
	More than adequate	7.7	7.7	7.3	8.4
120	Parsonnal				
420.	Not adequate	48.8	52 5 ^[2]	42 9 ^[1]	<i>4</i> 9 <i>4</i>
	Adequate	46.2	44 3	49.9	44 4
	More than adequate	5.0	3.3	7.2	6.1
43.	How often have you seen NIOSH reports			, , ,	
	that describe recent firefighter fatalities				
	and make recommendations for avoiding				
	similar incidents? Please refer to the insert				
	sheet included with this survey for				
	examples of NIOSH firefighter safety				
	reports.		[2]	[1 2]	[2]
		18.7	22.2 [2]	8.2	32.3
	One or two times per year	30.9	33.2	27.6	29.8 29.9 ^[2]
Neve	erSeveral times per year	40.4	37.1	49.4	30.0
4.4	Unce a month or more	10.0	/.5	14./	/.9
44.	How does your department receive the				
	reports? MARK ALL THAT APPLV				
	By mail	55.8	56.1	55.8	54.6
	On the Internet	39.8	33.6 ^[2]	53.2 ^[1,3]	31.3 ^[2]
	From colleagues in other departments	15.1	10.3 [2]	17.4 ^[1]	28.5
	At conferences or other meetings	10.8	7.6 ^[2]	17.0 ^[1,3]	8.1 ^[2]
	Legitimately Skipped Question	18.3	22.2 ^[2]	8.2 ^[1,3]	27.8 ^[2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
45.	Have you read part or all of a NIOSH Fire				
	Fighter Fatality Investigation report in the				
	last 12 months?				
		64.8	58.8 [2]	78.7 ^[1,3]	54.5 ^[2]
	No	16.9	18.9 ^[2]	13.1 ^[1]	18.1
Yes	Legitimately Skipped Question	18.3	22.3 [2]	8.2 ^[1,3]	27.4 [2]
50.	Does the fire department disseminate the				
	information it receives from NIOSH to the				
	firefighters?				
	Yes	67.6	67.3 ^[3]	72.2 ^[3]	55.2 ^[1,2]
	No	13.5	10.0 ^[2]	19.6 ^[1]	12.0
	Legitimately Skipped Question	18.9	22.6 ^[2]	$8.2^{[1,3]}$	32.8 ^[2]
50a.	How is this information disseminated to				
	firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	25.4	27.1 [2]	19.1 ^[1]	34.2
	Training sessions	51.5	51.2	51.9	52.1
	Provide copies of NIOSH reports to				
	firefighters	21.0	17.9	24.2	25.9
	Provide copies of NIOSH report summaries to				
	firefighters	10.2	8.7	9.1	19.2 [+]
	Provide summaries prepared by department to				
	firefighters	4.1	$2.2^{[2,3]}$	8.7 ^[1,3]	** [1,2,+]
	Postings on bulletin boards	43.1	41.6	44.9	44.5
	Post report on the department website	3.8	4.5 ^[3]	4.2 ^[3]	** [1,2]
	Send message to firefighters by email	13.8	7.6 ^[2]	$23.2^{[1]}$	15.2 ^[+]
	Other	2.6	2.1 [3]	4.6 ^[3]	** [1,2]
	Legitimately Skipped Question	31.8	32.3	28.2	38.8
51.	The NIOSH reports sometimes reference				
	other documents, such as guidelines or				
	more detailed technical reports. Does your				
	fire department usually have access to				
	documents that are referenced in NIOSH				
	reports?				
		50.4	42.3 ^[2]	70.2 ^[1,3]	33.5 ^[2]
	No	30.8	34.9 ^[2]	21.3 ^[1,3]	37.9 ^[2]
Yes	Legitimately Skipped Question	18.8	22.8 ^[2]	8.4 ^[1,3]	28.6 ^[2]

		Rural/Urban			
Question		Total	Rural	Urban	Unknown
52.	NIOSH reports always include				
	recommendations that are designed to help				
	improve the health and safety of				
	firefighters. How much do you agree or				
	disagree with the following statements				
	about the NIOSH recommendations:				
52a.	Recommendations are practical				
	Strongly Disagree	2.5	0.6 ^[+]	$0.7^{[+]}$	14.1 [+]
	Disagree	5.1	4.1 ^[3]	8.4	$1.0^{[1,+]}$
	Neither Agree nor Disagree	18.4	19.7	16.9	17.2
	0	50.3	48.9 ^[2]	58.8 ^[1,3]	35.3 [2]
	Strongly Agree	4.7	3.7	6.7	3.5 [+]
Agre	eLegitimately Skipped Question	19.0	23.0 ^[2]	8.5 ^[1,3]	28.9 ^[2]
52b.	Recommendations are easy to understand				
	Strongly Disagree	2.4	0.5 [+]	$0.7^{[+]}$	14.2 [+]
	Disagree	1.5	1.5	1.8	$0.8^{[+]}$
	Neither Agree nor Disagree	16.9	20.7 [2]	12.2 ^[1]	13.3
		54.2	49.6 ^[2]	68.0 ^[1,3]	38.3 [2]
	Strongly Agree	6.0	4.6 ^[2]	8.9 ^[1]	4.3
Agre	eLegitimately Skipped Question	19.1	23.1 ^[2]	8.5 ^[1,3]	29.2 ^[2]
52c.	Recommendations are specific and				
	Strongly Disagree	25	04[+]	12	14 1 [+]
	Disagree	6.0	4 8 ^[3]	10 1 [3]	$0.7^{[1,2,+]}$
	Neither Agree nor Disagree	24.2	26.8	21.6	20.3
		43.5	41 4 ^[2]	51 1 ^[1,3]	33 1 ^[2]
	Strongly Agree	47	3 4 [2]	$74^{[1,3]}$	$28^{[2,+]}$
Agre	eLegitimately Skipped Question	19.1	23.1 ^[2]	8.5 ^[1,3]	28.9 ^[2]

		Rural/Urban			
Que	stion	Total	Rural	Urban	Unknown
53.	What other NIOSH materials have you				
	seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	63.7	59.7 ^[2]	75.7 ^[1,3]	49.8 [2]
	Respirator maintenance program guide	16.6	15.6	21.2 ^[3]	9.1 ^[2]
	CDs of firefighter program materials	32.3	30.3 ^[2,3]	41.1 ^[1,3]	18.4 ^[1,2]
	Alerts	44.2	37.8 ^[2]	57.6 ^[1,3]	36.2 ^[2]
	Hazard IDs	18.0	17.3	20.2	15.2
	Workplace Solutions	14.3	15.6 ^[3]	15.1 ^[3]	7.0 ^[1,2]
	Other	1.0	0.9 ^[3]	1.6 ^[3]	** ^[1,2]
	None. I have not seen any NIOSH materials.	18.3	20.9 ^[2]	$10.5^{[1,3]}$	27.7 [2]
53a.	How satisfied or dissatisfied are you with				
	these NIOSH materials?				
	Very dissatisfied	1.5	1.3	1.3	2.6 [+]
	Dissatisfied	0.1	0.3 [+]	**	**
	Neither satisfied nor dissatisfied	19.0	21.0 ^[3]	18.6	12.3 [1]
	Satisfied	53.0	51.5	60.6 ^[3]	39.9 ^[2]
	Very satisfied	8.3	5.3 [2]	9.2 ^[1]	17.7 [+]
	Legitimately Skipped Question	18.1	20.7 ^[2]	$10.4^{[1,3]}$	27.5 ^[2]
54.	Have you ever visited the NIOSH website				
	at www.cdc.gov/niosh/firehome.html?				
		44.0	51.4 ^[2]	$26.9^{[1,3]}$	57.3 [2]
	Yes, in the last year	50.0	41.2 ^[2]	68.1 ^[1,3]	39.4 ^[2]
No	Yes, longer than one year ago	6.1	7.4 ^[3]	5.0	3.3 [1]

		Rural/Urban			
Question	Total	Rural	Urban	Unknown	
55. In which of these ways would you most					
prefer to receive information about NIOSH					
recommendations? MARK YOUR THREE					
(3) FAVORITES.					
Cable television programming	5.2	5.6	4.7	5.0	
	50.6	57.5 ^[2]	41.6 ^[1]	46.0	
Conference presentations or meeting	8.9	5.4 ^[2]	10.9 ^[1]	17.3 [+]	
CD/D ₽p ail	53.8	47.4 [2]	65.8 ^[1]	48.9	
Fire Fighter Fatality Investigation Reports	53.6	48.8 [2]	61.7 ^[1]	52.1	
NIOSH Website	27.2	24.1 [2]	35.4 ^[1,3]	19.1 ^[2]	
One-page Fact Sheets	30.3	28.8	33.5	28.4	
Pocket Guides	26.7	29.2	21.8	28.7	
	12.8	12.7 [2]	7.3 [1]	27.0	
Summary Reports	25.5	23.1	25.9	34.1	
PosterTraining session/class	19.1	18.3	14.3	33.7	
	1.1	0.9	0.9 ^[+]	2.3 [+]	

Note:

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

			Population	n Protected	
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
1.	Does your department have a Safety				
	Officer?				
		70.0	$02 8^{[2,3]}$	77 2 [1]	75 2 [1]
	No	79.0	7 2 [2,3]	77.2^{-1}	73.3^{-1} $24.7^{[1]}$
Var	NO Doos your donartmont have a Training	21.0	1.2	22.0	24.7
4.05	Officer?				
	Onice :	93 3	99 6 ^[2,3]	93 6 ^[1]	90 8 ^[1]
	No	67	$04^{[2,3,+]}$	64 ^[1]	9 2 ^[1]
Vec	Some fire denartments use Standard	0.7	0.1	0.1	9.2
4.03	Operating Procedures (SOPs) or Standard				
	Operating Guidelines (SOGs) to describe				
	how certain situations should be				
	approached. For which of the following				
	does your department have SOPs/SOGs in				
	place? MARK ALL THAT APPLY.				
	Incident Command Systems	89.6	97.9 ^[3]	95.2 ^[3]	82.5 ^[1,2]
	Maintenance of SCBAs	76.8	89.2 ^[2,3]	77.5 [1]	71.8 ^[1]
	Motor vehicle safety	83.9	92.1 ^[2,3]	84.7 [1]	80.5 ^[1]
	Participation in a personal physical fitness				
	program		48.8 ^[2,3]	24.3 [1]	15.6 ^[1]
	Participation in regular health screenings for				
	cardiovascular disease (CVD)	33.5	60.8 ^[2,3]	35.7 ^[1,3]	$22.2^{[1,2]}$
	Rapid Intervention Teams (RITs), also known				
	as Rapid Intervention Crews (RICs) or				
	Firefighter Assistance and Search Teams		[2 2]	[1 2]	[1 0]
	(FAST)	58.8	90.5 ^[2,3]	67.7 ^[1,3]	40.9
	Use of Personal Alert Safety System (PASS)		[2]	[2]	. [1 2]
	devices	81.5	90.1 ^[3]	85.0 ^[5]	75.8[1,2]
	Use of personal protective equipment and		[2 3]	[1 3]	[1 2]
	protective clothing	93.1	97.5 ^[2,3]	94.3 ^[1,3]	$90.7^{[1,2]}$
	Use of radio communications	88.9	96.5 ^[2,3]	90.3	$85.2^{[1,2]}$
	Other	10.7	15.9	14.4	6.1
	Does not apply. Our fire department does not			. [13]	4 - [1 2]
	use SOPs/SOGs.	2.6	** [4,2]	1.4	4.3

		Population Protected			
			50,000 +	5,000-49,999	0–4,999
Que	stion	Total	People	People	People
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires No Training Optional Training Required Training	1.2 11.1 88.1	$0.4^{[+]}\\1.7^{[2,3]}\\97.9^{[2,3]}$	** ^[3,+] 8.3 ^[1,3] 92.0 ^[1,3]	$\begin{array}{c} 2.3^{[2]} \\ 16.6^{[1,2]} \\ 81.8^{[1,2]} \end{array}$
4b.	Driving safety No Training Optional Training Required Training	2.3 12.9 85.0	$\begin{array}{c} 1.3^{[3,+]}\\ 3.9^{[2,3]}\\ 94.8^{[2,3]}\end{array}$	$\begin{array}{c} 0.9^{[3]} \\ 10.1^{[1,3]} \\ 89.2^{[1,3]} \end{array}$	3.6 ^[1,2] 18.2 ^[1,2] 78.3 ^[1,2]
4c.	Incident Command systems No Training Optional Training Required Training	1.5 19.2 79.4	$\begin{array}{c} 0.5^{[3,+]} \\ 5.3^{[2,3]} \\ 94.2^{[2,3]} \end{array}$	$\begin{array}{c} 0.5^{[3]} \\ 14.1^{[1,3]} \\ 85.4^{[1,3]} \end{array}$	$2.6^{[1,2]} \\ 28.2^{[1,2]} \\ 69.4^{[1,2]}$
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs) No Training Optional Training Required Training	5.1 27.6 67.7	4.5 ^[+] 8.8 ^[2,3] 87.5 ^[2,3]	$\begin{array}{c} 3.9\\ 26.0^{[1,3]}\\ 70.4^{[1,3]}\end{array}$	6.2 35.4 ^[1,2] 58.6 ^[1,2]
4e.	Rapid Intervention Teams (RITs) No Training Optional Training Required Training	17.3 32.7 50.3	$\frac{1.1}{10.1}^{[2,3,+]}_{[2,3]}_{[2,3]}_{[2,3]}$	$8.7^{[1,3]} \\ 35.2^{[1]} \\ 56.7^{[1,3]}$	30.3 ^[1,2] 39.1 ^[1] 30.6 ^[1,2]
4f.	Use of personal protective equipment and/or protective clothing No Training Optional Training Required Training	1.1 6.9 92.2	0.8 ^[+] 1.8 ^[3] 97.4 ^[3]	1.0 6.9 92.4	1.3 8.7 ^[1] 90.1 ^[1]
4g.	Use of radio communication devices No Training Optional Training Required Training	2.3 15.6 82.4	$\begin{array}{c} 1.3^{[+]}\\ 4.8^{[2,3]}\\ 94.9^{[2,3]}\end{array}$	$2.3 \\ 14.3^{[1]} \\ 83.5^{[1]}$	2.6 20.5 ^[1] 77.2 ^[1]

		Population Protected			
_			50,000 +	5,000-49,999	0–4,999
Que	estion	Total	People	People	People
5.	Who provides training to your firefighters?				
	MARK ALL THAT APPLY.				
	Our department's Training Officer	90.4	99.1 ^[2,3]	90.9 ^[1]	86.9 ^[1]
	Other officers within our department	88.2	97.5 ^[2,3]	90.0 ^[1,3]	83.5 ^[1,2]
	State fire training agency	78.1	64.6 ^[2,3]	83.4 ^[1]	78.8 ^[1]
	United States Fire Administration's (USFA)				
	National Fire Academy in Emmitsburg, MD	34.4	62.5 ^[2,3]	40.3 [1,3]	20.1 ^[1,2]
	Conferences or regional meetings	60.7	71.5 ^[3]	64.7 ^[3]	53.9 ^[1,2]
	Other	25.6	21.5 ^[2]	32.2 ^[1,3]	22.0 ^[2]
6.	What other trainings have your firefighters				
	attended in the last 12 months? MARK				
	ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents				
	(MVA)	57.7	52.9	65.6 ^[3]	53.3 ^[2]
	Scuba diving	11.9	22.3 ^[2,3]	$11.4^{[1]}$	8.6 ^[1]
	Swift water rescue	19.5	47.5 ^[2,3]	18.8 ^[1,3]	10.1 [1,2]
	Wildland fire fighting	40.3	32.6 ^[3]	36.3 [3]	46.2 ^[1,2]
	HAZMAT	74.3	85.6 ^[3]	80.1 [3]	65.7 ^[1,2]
	Other	38.1	50.2 ^[3]	37.6	34.2 ^[1]
8.	How familiar are you with the National				
	Institute for Occupational Safety and				
	Health (NIOSH)?				
	Not at all familiar	4.8	0.4 [2,3,+]	3.2 ^[1,3]	7.7 ^[1,2]
	Not very familiar	17.1	4.1 ^[2,3]	13.8 ^[1,3]	24.1 ^[1,2]
	Somewhat familiar	58.1	47.6 ^[2]	62.9 ^[1]	58.1
	Very familiar	20.0	47.9 ^[2,3]	20.2 [1,3]	10.1 [1,2]
9.	How familiar are you with NIOSH's Fire				
	Fighter Fatality Investigation and				
	Prevention Program (FFFIPP)?				
	Not at all familiar	14.6	4.9 ^[2,3]	11.7 ^[1,3]	20.2 ^[1,2]
	Not very familiar	27.2	14.3 [2,3]	26.6 ^[1]	32.2 ^[1]
	Somewhat familiar	41.3	41.5	45.2	38.2
	Very familiar	16.9	39.3 ^[2,3]	16.6 ^[1]	9.4 ^[1]

		Population Protected			
		50,000 +	5,000-49,999	0–4,999	
Question	Total	People	People	People	
10. How does your department receive					
information about NIOSH's firefighter					
safety and health recommendations?					
MARK ALL THAT APPLY.					
NIOSH mailings	71.5	76.6	73.1	68.6	
National conference presentations	9.3	24.7 ^[2,3]	$12.0^{[1,3]}$	$1.8^{[1,2]}$	
State-level conference presentations	15.5	20.3 [3]	17.7	12.1 [1]	
Other firefighters or departments	25.8	24.3	22.7	28.8	
At seminars or other training opportunities					
(not conferences)	21.4	24.7	22.2	19.6	
Trade publications (such as Firehouse and					
Fire Engineering)	55.5	64.4 ^[3]	62.3 ^[3]	47.1 ^[1,2]	
NIOSH website	40.9	75.3 ^[2,3]	41.2 ^[1,3]	$28.7^{[1,2]}$	
Links from other websites (such as NFPA and					
Firehouse)	36.8	56.6 ^[2,3]	36.9 ^[1]	29.8 ^[1]	
Media reports - newspaper, television, radio	15.9	15.4	17.0	15.3	
	2.7	3.6 ^[+]	1.3	3.5 [+]	
Does not apply. We have not received					
Other information about NIOSH					
recommendations.	7.0	$0.8^{[2,3,+]}$	3.2 ^[1,3]	$12.2^{[1,2]}$	
11. In what ways has your department used					
NIOSH recommendations? MARK ALL					
THAT APPLY.			FA 3		
Made changes to training program	48.5	56.9 ^[3]	56.1 [3]	39.6 ^[1,2]	
Developed new SOPs/SOGs	35.3	39.2	39.0	30.9	
Made changes to SOPs/SOGs	45.6	58.7 ^[3]	50.6 ^[3]	37.1 ^[1,2]	
Justified current budget/staffing	10.6	14.9	8.7	10.6	
Made new budget/staffing requests	12.2	19.7 ^[3]	14.9	7.4	
Justified grant applications	19.7	28.0 ^[3]	20.4	16.1 ^[1]	
Does not apply. We have not used NIOSH					
recommendations.	25.0	22.0	22.3	28.2	
Legitimately Skipped Question	7.3	$0.8^{[2,3,+]}$	3.3 ^[1,3]	$12.8^{[1,2]}$	

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
11b.	Can you identify topics of NIOSH				
	recommendations that you have used for				
	training purposes? If so, MARK ALL				
	THAT APPLY.				
	Traffic hazards	35.3	39.2	38.3	31.6
	Personal protective equipment and clothing	49.6	55.3	55.2 ^[3]	43.1 ^[2]
	SCBA	49.7	55.2	57.2 ^[3]	41.7 ^[2]
	PASS systems	40.4	39.6	48.1 ^[3]	34.6 ^[2]
	Incident Command systems	40.8	42.3	46.0	36.2
	Radio communications	27.1	34.9 ^[3]	33.7 ^[3]	$19.2^{[1,2]}$
	Physical fitness and cardiovascular disease				
	(CVD)	15.9	29.6 ^[2,3]	16.9 ^[1]	$10.2^{[1]}$
	Building code compliance (e.g., warning				
	against the use of wooden trusses)	9.9	10.6	9.3	10.2
	Other	4.8	4.3	4.1	5.4 [+]
	Does not apply. We have not used NIOSH				
	recommendations for training purposes.	1.8	2.3 [+]	1.4	1.9
	Legitimately Skipped Question	32.5	23.1 ^[3]	25.6 ^[3]	41.2 ^[1,2]
12.	Does your department have a fitness				
	training that involves physical exercise				
	and/or other health promotion activities				
	(for example a cardiovascular fitness				
	program, physical training program,				
	wellness program, or other fitness				
	program)?				
		58.8	21.5 ^[2,3]	49.3 ^[1,3]	78.9 ^[1,2]
	Yes, it's required	16.9	33.6 ^[2,3]	14.7	12.9 ^[1]
No	Yes, it's optional	24.3	44.8 ^[3]	36.0 ^[3]	8.3 [1,2]
13.	How often do your firefighters receive				
	screenings for cardiovascular disease				
	(CVD) and its risk factors?				
	One time, when they first join the department	14.5	13.2 ^[2]	$23.4^{[1,3]}$	8.1 ^[2]
	Less frequently than once a year	9.2	12.6	8.0	8.8
	One time a year	32.8	59.1 ^[2,3]	35.4 ^[1,3]	21.8 ^[1,2]
	More than one time a year	0.4	0.9 ^[+]	0.6 ^[+]	** [+]
	Does not apply. Firefighters are not required				
	to receive CVD screenings	43.2	$14.2^{[2,3]}$	32.6 ^[1,3]	61.3 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
14.	Do all drivers of vehicles responding to				
	emergency calls receive driver training				
	before being allowed to operate the				
	vehicles? MARK ALL THAT APPLY.			7 23	
		4.1	3.6 ^[+]	$2.1^{[3]}$	5.9 ^[2]
	Yes, they receive training required by the		[2]	[2]	[1.0]
No	department	88.9	93.7 ^[3]	93.8 ^[3]	83.5 ^[1,2]
	Yes, they receive training required by the				
	state	28.3	25.1	30.8	27.6
	Yes, they receive optional training	13.6	6.4 ^[2,3]	12.8	16.8
15.	How often do drivers of your fire				
	department vehicles receive refresher				
	driver training to continue being allowed				
	to drive the vehicles?				
	Two or more times a year	12.1	9.3	10.0	14.7
	Once every year	43.6	42.1	49.4 ^[5]	39.7 ^[2]
	Less frequently than once a year	28.4	33.3	29.3	25.8
	Does not apply. Firefighters are not required			[2]	[2]
	to receive continuing driver training.	15.9	15.3	11.3	19.7 [2]
16.	Does your fire department have a				
	requirement regarding seat belt use in				
	emergency vehicles?		[2 2]	[1 2]	[1 2]
		89.2	$98.3^{[2,3]}$	$91.3^{[1,3]}$	$84.2^{[1,2]}$
	No	10.8	1.7	8.7	15.8
Yes	To what extent do you agree or disagree				
	that your firefighters are able to fit				
	comfortably in their seatbelts while				
	wearing turnout gear in your emergency				
	vehicles?	6.0		< 7	5 1
	Strongly disagree	6.8	6.4	6.7	7.1
	Disagree	19.5	25.4	15.5	20.3
	Neither agree nor disagree	25.2	$10.7^{2.5}$	27.7	28.4
	Agree	34.8	36.5	36.4	33.1
	Strongly agree	13.7	20.9^{131}	13.7	11.1

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
18.	About how often do you think your				
	firefighters use their seatbelts when riding				
	in the emergency vehicles?				
		3.6	$0.2^{[2,3,+]}$	$2.2^{[1,3]}$	5.8 ^[1,2]
	Some of the time	22.3	20.4	21.1	23.8
Nev	erAbout half the time	16.5	16.7	16.8	16.3
	Most of the time	38.1	43.1	37.1	37.0
	Always	19.6	19.5	22.7	17.1
21.	How often is Incident Command				
	established when responding to structure				
	fires?				
		1.3	$0.7^{[+]}$	$0.5^{[3,+]}$	$2.0^{[2]}$
	Rarely	3.6	$0.2^{[2,3,+]}$	$1.7^{[1,3]}$	6.4 ^[1,2]
Nev	erAbout half the time	4.0	$1.2^{[3,+]}$	1.8 ^[3]	6.6 ^[1,2]
	Most of the time	20.3	7.4 ^[2,3]	15.9 ^[1,3]	$28.4^{[1,2]}$
	Always	70.8	90.6 ^[2,3]	80.0 ^[1,3]	56.6 ^[1,2]
22.	What are the reasons why Incident				
	Command is not always established by				
	your fire department? MARK ALL THAT				
	APPLY.				
	Fires are not usually big enough to require an				
	Incident Commander	15.1	4.4 ^[3]	8.2 ^[3]	$24.2^{[1,2]}$
	Not enough firefighters available at the scene				
	of the fire	12.6	$1.4^{[2,3,+]}$	7.4 ^[1,3]	$20.7^{[1,2]}$
	Other	4.7	3.3	4.2	5.6
	Does not apply. My department always				
	assigns an Incident Commander for				
	structure fires.	3.4	1.3 [3,+]	4.0	3.7 ^[1]
	Legitimately Skipped Question	70.8	90.9 ^[2,3]	80.1 [1,3]	56.4 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
23.	When Incident Command is established for				
	a structure fire, what are the Incident				
	Commander's responsibilities? MARK				
	ALL THAT APPLY.				
	Conduct an initial assessment before the other				
	firefighters begin entering the building	91.2	90.7	94.4 ^[3]	88.9 ^[2]
	Develop and coordinate the fire attack				
	strategy	94.2	99.2 ^[2,3]	95.0 ^[1]	91.8 ^[1]
	Develop and initiate a risk management plan	63.6	80.9 ^[2,3]	68.0 ^[1,3]	53.9 ^[1,2]
	Document all assessments, plans and events				
	related to the fire	42.2	48.6	42.1	39.9
	Ensure that at least four (4) firefighters are on				
	the scene before entering the building	70.4	76.0	66.6	71.4
	Establish a collapse zone around the building	53.9	66.9 ^[3]	55.8	47.7 ^[1]
	Establish Rapid Intervention Team (RIT) or				
	Rapid Intervention Crew (RIC)	64.6	96.3 ^[2,3]	71.3 [1,3]	47.9 ^[1,2]
	Identify and implement a communication				
	strategy	67.5	71.8	67.5	65.9
	Monitor location of all firefighters at the				
	scene	77.2	89.3 [2,3]	74.8 ^[1]	74.5
	Other	10.4	12.6	12.6	8.0
24.	About how often does an Incident				
	Commander assign an Incident Safety				
	Officer when responding to structure fires?				
		8.2	3.3 ^[3]	6.1 ^[3]	$11.7^{[1,2]}$
	Some of the time	25.1	35.4 ^[2]	20.4 ^[1]	24.9
Nev	erAbout half the time	8.0	8.4	8.7	7.3
	Most of the time	31.6	21.6 ^[2]	36.9 ^[1]	31.0
	Always	27.2	31.3	27.8	25.1

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
25.	What are the reasons why an Incident				
	Commander does not always assign an				
	Incident Safety Officer? MARK ALL				
	THAT APPLY.				
	Fires are not big enough to require an Incident				
	Safety Officer	28.0	23.8	26.4	31.0
	Not enough firefighters are available at the				
	scene of the fire	42.4	20.8 ^[2,3]	45.2 ^[1]	48.5 ^[1]
	Other	20.4	40.1 [2,3]	18.9 ^[1]	13.9 ^[1]
	Does not apply. Our Incident Commanders				
	always assign an Incident Safety Officer for				
	structure fires.	2.0	2.1 [+]	2.1	1.9
	Legitimately Skipped Question	27.5	31.4	28.1	25.6
26.	How often are Rapid Intervention Teams				
	(RITs) or Rapid Intervention Crews				
	(RICs) available at structure fires?				
		17.6	$1.4^{[2,3]}$	8.9 ^[1,3]	30.2 ^[1,2]
	Some of the time	16.3	3.7 ^[2,3]	17.0 ^[1]	20.2 ^[1]
Nev	erAbout half the time	5.5	4.9 ^[+]	6.1	5.3
	Most of the time	26.6	28.2	28.8	24.3
	Always	34.0	61.7 ^[2,3]	39 .1 ^[1,3]	$20.0^{[1,2]}$
27.	In what situations are RITs/RICs				
	established? MARK ALL THAT APPLY.				
	When the building has more than one				
	story/floor	8.6	5.0 ^[2,3]	9.5 ^[1]	9.2 ^[1]
	When there are enough firefighters on and at				
	the scene of the fire	28.7	19.2 ^[2,3]	32.8 ^[1]	28.9 ^[1]
	Whenever firefighters enter a burning				
	building	26.1	18.8 ^[3]	25.5	29.1 [1]
	Other	6.2	9.2	7.7 [3]	3.9 ^[2]
	Legitimately Skipped Question	51.7	63.1 ^[2,3]	48.1 [1]	50.3 [1]

		Population Protected			
			50,000 +	5,000-49,999	0–4,999
Que	stion	Total	People	People	People
28.	What are the reasons why your fire				
	department does not use RITs/RICs in				
	every structure fire? MARK ALL THAT				
	APPLY.				
	The structure fire may not be large enough to				
	need an RIT/RIC	29.7	29.1	26.5	32.3
	We don't have enough equipment, SCBAs, or	4.0	** [2 3]	2 1 [13]	0.0[12]
	turnout gear to establish an RIT/RIC	4.9	** [2,2]	3.1	8.0
	We don't have enough firefighters available at	41.7	17 0 [23]	20.0[13]	51 0 [12]
	the scene of the fire	41./	1/.8	39.8	51.8
	we don't have enough training or trained				
		12.6	$2 \Omega^{[2,3,+]}$	$10.6^{[1,3]}$	$10 \ 1^{[1,2]}$
	We have never established an RIT/RIC	10.6	$0.9^{[2,3]}$	$63^{[1,3]}$	17.4 $17.4^{[1,2]}$
	We use other fire departments in the area for	10.0	0.9	0.5	1/.4
	RITs/RICs	22.6	$26^{[2,3]}$	25 5 [1]	27.6 ^[1]
	We use other safety practices and so we don't	22.0	2.0	23.5	27.0
	need them	26	1 1 [3]	0 9 [3]	$4 3^{[1,2]}$
	Other	5.5	8.0	3.4	6.4
	Legitimately Skipped Question	34.4	62.1 [2,3]	39.6 ^[1,3]	20.4 ^[1,2]
29.	Does your fire department have enough				
	Personal Alert Safety System (PASS)				
	devices for all firefighters for use when				
	fighting structure fires?				
		86.4	96.7 ^[3]	94.3 ^[3]	76.6 ^[1,2]
		13.6	3.3 [3,+]	5.7 ^[3]	23.4 ^[1,2]
30 es	About how often do you think your				
No	firefighters wear their PASS devices when				
	fighting structure fires?		[2 2]	[1 2]	[1 2]
		3.7	** [² , ³]	$0.6^{[1,3]}$	$7.5^{[1,2]}$
	Some of the time	2.5	2.8 ^[+]	$0.3^{[5,7]}$	4.2 ^[2]
Neve	erAbout half the time	1.2	** [2,3]	1.1^{11}	1.7^{11}
	Most of the time	8.5	$1.7^{[2,3,\tau]}$	$7.3^{[1,3]}$	$11.8^{[1,2]}$
	Always	84.1	95.5	90 .7 ¹³	[/4.9 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
31.	Why do you think your firefighters do not				
	use their PASS devices more often? MARK				
	ALL THAT APPLY.				
	They don't have a PASS device to use	8.3	2.8 ^[3,+]	$2.0^{[3]}$	$15.2^{[1,2]}$
	Situation doesn't require them	6.3	1.4 ^[3,+]	3.9 ^[3]	9.9 ^[1,2]
	Firefighters think the devices do not always				
	work reliably	0.2	**	0.1 [+]	$0.4^{[+]}$
	Firefighters don't think they need them	3.2	2.7 [+]	2.2	4.2
	Devices go off while firefighters are resting	2.6	1.2 [+]	2.5	3.1
	Legitimately Skipped Question	84.5	95.5 ^[3]	91.5 ^[3]	75.1 [1,2]
32.	Does your department have Self Contained				
	Breathing Apparatuses (SCBA) for your				
	firefighters to use when combating				
	structure fires?				
	Yes	98.8	99.8	99.8	97.8
		1.2	0.2 ^[+]	[+]	[+]
33.	Do your firefighters ever have to share				
No	facepieces for SCBAs?		[2,2]	[1.0]	
		40.2	19.1 ^[2,3]	$35.5^{[1,3]}$	$51.1^{[1,2]}$
	No	58.6	80.7 ^[2,3]	$64.2^{[1,3]}$	46.6 ^[1,2]
Yes	Legitimately Skipped Question	1.2	0.2 [+]0.2	$0.3^{[+]2.2}$	2.3 [+]
33a.	What are the reasons why your fire				
	department does not have personally-fitted				
	SCBA facepieces for all of your				
	firefighters? MARK ALL THAT APPLY.		[2,2]	[1 2]	[1.2]
	Didn't know it was recommended	3.1	** [2,3]	$2.3^{[1,3]}$	$4.9^{[1,2]}$
	Firefighters don't like using the equipment	0.1	**	**	0.3 [+]
	Have never needed them (e.g., we don't do		[2]	[2]	[1.2]
	interior attacks)	0.2	** [2]	** [2]	$0.5^{[1,2]}$
	They cost too much, there is not enough		[2,2]	[1.2]	[1.0]
	money in the budget	25.6	8.1 ^[2,3]	$22.9^{[1,3]}$	33.8 ^[1,2]
	We don't have enough equipment for all of		[2,2,+]	[1 2]	[1.2]
	our firefighters	17.9	$3.2^{[2,3,+]}$	$13.1^{[1,3]}$	$26.7^{[1,2]}$
	Shared systems work fine for our needs	19.3	12.7 [+]	16.0 ^[3]	24.1
	Other	7.3	12.4 ^[+]	9.2 ^[3]	4.0 ^[2]
	Legitimately Skipped Question	59.8	81.2 ^[2,3]	63.9 ^[1,3]	49.2 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
34.	About how often do you think your				
	firefighters use SCBAs while fighting				
	structure fires?				
		0.4	** [3]	** [3]	$0.7^{[1,2]}$
	Some of the time	2.3	** [2,3]	$0.6^{[1,3,+]}$	4.4 ^[1,2]
Nev	erAbout half the time	1.7	0.4 ^[3,+]	$0.4^{[3,+]}$	3.1 ^[1,2]
	Most of the time	22.5	26.9	13.9 ^[3]	27.3 ^[2]
	Always	72.0	72.6	84.8 [3]	62.2 ^[2]
	Legitimately Skipped Question	1.2	0.2 [+]	0.3 [+]	2.3 [+]
35.	Why do you think your firefighters do not				
	use SCBAs more often when fighting				
	structure fires? MARK ALL THAT				
	APPLY.				
	Situation doesn't require them	20.1	22.2	$11.2^{[3]}$	26.1 ^[2]
	Firefighters do not trust that the SCBAs will				
	work reliably	**	**	**	** [+]
	Firefighters don't think they need them	11.4	17.0	6.5	13.0
	Firefighters don't like sharing facepieces with				
	others	0.5	** [3]	[+]	[1]
	Firefighters are concerned that the SCBA may			F-1	
	be or become contaminated	**	**	**[+]	
	Wearing SCBAs makes it more difficult to		F. 1		
	work	4.4	4.3 [+]	3.0	5.5
	Firefighters don't have SCBAs to use	2.7	2.7 [+]	[3]0.8	[2]
	Legitimately Skipped Question	73.9	73.0.3	85.5 ^[3]	[2]
36.	How often is routine maintenance			**	
	performed on your SCBAs?			[2]	[2]
	After every time they are used	46.6	48.6	51.5 ^[5]	$41.7^{[2]}$
	Once a month or more	16.7	7.8 ^[2,3] .5	19.2 65.3	[1]
	Several times a year	14.3	19.3	14.0	12.4
	Once a year	17.6	20.9	13.9	19.4
	Less than once a year	2.6	2.4	[3]	[2]
	Never. Maintenance has not been done on our		r. 1	₁₂ 18.3	[2]
	SCBAs.	0.8	0.8 [+]	0.1	[2]
	Does not apply. My department does not have				
	SCBAs.	**	**	**	**
	Legitimately Skipped Question	1.5	$0.2^{[+]1.0}$	1+13.9	[+]

1.3

2.9

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0.3

			Population	n Protected	
			50,000 +	5,000-49,999	0-4,999
Ques	stion	Total	People	People	People
37.	How many				
	Chemical/Biological/Radiological/Nuclear				
	(CBRN) SCBAs are available (or on order)				
	for use by firefighters within your				
	department at this time?				
	Greater than zero	29.7	$51.0^{[2,3]}$	$32.2^{[1,3]}$	$20.2^{[1,2]}$
		70.3	49.0 ^[2,3]	67.8 ^[1,3]	79.8 ^[1,2]
37a.	What are the reasons why your fire				
Zero	department does not have CBRN SCBAs?				
	MARK ALL THAT APPLY.				
	CBRN SCBA devices are not needed in our		[2]	[2]	[1.2]
	department	16.6	10.5	11.7 ^[3]	$22.4^{[1,2]}$
	We didn't know they were available	11.2	3.5 ^[2,3]	10.0	14.7
	We don't have adequate technical information		[2 2]	[1]	[1]
	to purchase them	15.4	5.2 ^[2,5]	14.6	19.7
	We don't have adequate funding to purchase		[2 2]		[1]
	them	50.8	$33.5^{[2,3]}$	49.9	57.6
	Other	7.1	$17.1^{[2,3]}$	5.4	4.8 ^[1]
	Legitimately Skipped Question	31.1	54.1 [2,5]	34.1	20.8
38.	Does your fire department have				
	Automated External Defibrillators				
	(AEDs)?		o = = [2 3]	a a a [13]	[1 2]
	N.	85.3	97.7[2,3]	89.5 ^[1,5]	$77.7^{[1,2]}$
	No	14.7	2.3	10.5	22.3
38a .	At your fire department, where do you				
	have AEDs?		o c [3+]	o r [3+]	a o [1 2]
	At the fire station(s)	2.1	$0.6^{[3,7]}$	$0.5^{[3,1]}$	$3.8^{[1,2]}$
	On the emergency vehicles (or apparatus)	66.1	81.0 ^[2,3]	68.1	59.7
	Both at the fire station(s) and on the vehicles	14.0	1.5.5	10.1	11.4
	(or apparatus)	14.8	15.5	19.1	
	Legitimately Skipped Question	17.0	$2.9^{[2,3]}$	12.2	25.1

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
39.	How often has routine maintenance,				
	including replacement of battery packs,				
	been performed on your AEDs?				
	After every time they are used	20.1	33.0 ^[2,3]	16.2 ^[1]	17.6 ^[1]
	Once a month or more	24.7	29.9	25.0	22.2
	Several times a year	19.4	17.8	19.5	20.1
	Once a year	23.1	13.7 ^[2,3]	27.5 [1]	23.5 ^[1]
	Less frequently than once a year	6.2	4.7 [+]	6.9	6.3
	Never. Maintenance on our AEDs has not				
	been done.	6.5	$0.8^{[2,3,+]}$	5.0 ^[1,3]	$10.4^{[1,2]}$
40.	About how often do your firefighters carry				
	radios or other two-way communication				
	devices while responding to structure fires?				
		1.5	$0.3^{[3,+]}$	$2.0^{[+]}$	1.5 ^[1]
	Some of the time	3.1	$0.1^{[2,3,+]}$	$2.3^{[1,3]}$	4.7 ^[1,2]
Nev	erAbout half the time	1.6	$0.6^{[3,+]}$	1.0	2.4 ^[1]
	Most of the time	16.1	5.8 ^[2,3]	$13.1^{[1,3]}$	$22.1^{[1,2]}$
	Always	77.8	93.2 ^[2,3]	81.6 ^[1,3]	69.3 ^[1,2]
41.	Some radios and other two-way				
	communication devices can have problems				
	under field conditions, such as bleed-over,				
	interference, or loss of communication.				
	About how often do your communication				
	devices have these or other problems?				
		14.5	9.1 ^[2,3]	16.1 ^[1]	15.2
	Some of the time	70.7	83.2 ^[2,3]	72.3	65.1 ^[1]
Nev	erAbout half the time	7.8	5.3	7.8	8.7
	Most of the time	5.7	1.9	3.4	8.7
	Always	1.3	$0.5^{[3,+]}$	$0.3^{[3,+]}$	$2.3^{[1,2]}$

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
42.	How would you rate your department's budget in the following areas?				
42a.	Equipment Not adequate Adequate More than adequate	38.6 54.0 7.4	27.2 ^[3] 64.0 ^[3] 8.8	34.8 ^[3] 54.9 10.3 ^[3]	$45.7^{[1,2]} 49.6^{[1]} 4.6^{[2]}$
42b.	Training Not adequate Adequate More than adequate	36.0 56.4 7.7	43.2 ^[2] 51.3 5.5	31.1 ^[1] 57.4 11.5 ^[3]	37.2 57.4 5.4 ^[2]
42c.	Personnel Not adequate Adequate More than adequate	48.8 46.2 5.0	48.0 47.9 4.1	47.6 46.6 5.8	50.0 45.3 4.7
43.	How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Please refer to the insert sheet included with this survey for examples of NIOSH firefighter safety reports.				
Neve	One or two times per year erSeveral times per year Once a month or more	18.7 30.9 40.4 10.0	$5.8^{[2,3]}$ 23.6 44.4 26.2 ^[2,3]	13.8 ^[1,3] 32.9 44.9 ^[3] 8.3 ^[1]	27.4 ^[1,2] 32.0 35.3 ^[2] 5.3 ^[1]
44.	How does your department receive the NIOSH Fire Fighter Fatality Investigation reports? MARK ALL THAT APPLY.				
	By mail On the Internet From colleagues in other departments At conferences or other meetings Legitimately Skipped Question	55.8 39.8 15.1 10.8 18.3	59.663.5[2,3]17.522.1[2,3]5.8[2,3]	54.543.5[1,3]14.010.2[1]13.8[1,3]	55.4 28.5 ^[1,2] 15.1 7.2 ^[1] 26.2 ^[1,2]
		Population Protected			
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			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
45.	Have you read part or all of a NIOSH Fire			-	•
	Fighter Fatality Investigation report in the				
	last 12 months?				
		64.8	86.2 ^[2,3]	68.4 ^[1,3]	54.5 [1,2]
	No	16.9	8.1 ^[2,3]	17.7 [1]	19.4 ^[1]
Yes	Legitimately Skipped Question	18.3	5.7 ^[2,3]	13.9 ^[1,3]	26.1 [1,2]
50.	Does the fire department disseminate the				
	information it receives from NIOSH to the				
	firefighters?				
	Yes	67.6	72.7	73.0 ^[3]	61.2 ^[2]
	No	13.5	21.5	13.0	11.0
	Legitimately Skipped Question	18.9	5.8 ^[2,3]	14.0 ^[1,3]	$27.8^{[1,2]}$
50a.	How is this information disseminated to				
	firefighters? MARK ALL THAT APPLY.				
	Regular staff meetings	25.4	23.2	25.5	26.1
	Training sessions	51.5	52.4	54.3	49.1
	Provide copies of NIOSH reports to				
	firefighters	21.0	21.0	27.1 [3]	16.5 [2]
	Provide copies of NIOSH report summaries to				
	firefighters	10.2	5.8 ^[2]	13.9 ^[1]	9.0
	Provide summaries prepared by department to				
	firefighters	4.1	$11.7^{[2,3]}$	3.0 ^[1]	$2.2^{[1]}$
	Postings on bulletin boards	43.1	28.5 ^[2,3]	48.7 [1]	44.0 ^[1]
	Post report on the department website	3.8	6.5 ^[3]	6.5 [+]	$0.8^{[1]}$
	Send message to firefighters by email	13.8	31.2 ^[2,3]	10.5 [1]	$10.2^{[1]}$
	Other	2.6	9.8 ^[2,3]	1.7 ^[1]	$0.8^{[1]}$
	Legitimately Skipped Question	31.8	27.7	27.0 ^[3]	37.0 ^[2]
51.	The NIOSH reports sometimes reference				
	other documents, such as guidelines or				
	more detailed technical reports. Does your				
	fire department usually have access to				
	documents that are referenced in NIOSH				
	reports?				
		50.4	82.1 ^[2,3]	54.3 [1,3]	36.4 ^[1,2]
	No	30.8	11.8 ^[2,3]	31.6 ^[1]	36.8 ^[1]
Yes	Legitimately Skipped Question	18.8	6.1 ^[2,3]	14.1 ^[1,3]	26.8 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
52.	NIOSH reports always include				
	recommendations that are designed to help				
	improve the health and safety of				
	firefighters. How much do you agree or				
	disagree with the following statements				
	about the NIOSH recommendations:				
52a.	Recommendations are practical	2.5	1 7 [+]	o 4 ^[+]	4 0 [+]
	Strongly Disagree	2.5	$1./^{[+]}$	0.4	4.2
	Disagree	5.1	12.3	4.9	2.7
	Neither Agree nor Disagree	18.4	19.1	1/.8	18.7
		50.3	53.2	57.4	44.0
	Strongly Agree	4./	/./	4.9	3.3
Agre	eLegitimately Skippea Question	19.0	6.0	14.5	27.0
52b.	Recommendations are easy to understand				
	Strongly Disagree	2.4	2.0 ^[+]	0.2 [+]	4.2 [+]
	Disagree	1.5	1.4 [+]	2.5 ^[3]	$0.8^{[2]}$
	Neither Agree nor Disagree	16.9	10.3 [3]	15.5	20.2 [1]
	Agree	54.2	68.8 ^[3]	61.5 ^[3]	43.5 ^[1,2]
	Strongly Agree	6.0	11.5 ^[3]	5.8	4.2 ^[1]
	Legitimately Skipped Question	19.1	6.0 ^[2,3]	14.6 ^[1,3]	27.0 ^[1,2]
520	Pacammandations are specific and				
520.	concrete				
	Strongly Disagree	2.5	2 4 [+]	04[+]	4 1 ^[+]
	Disagree	6.0	19 5 [2,3]	$42^{[1]}$	$27^{[1]}$
	Neither Agree nor Disagree	24.2	15.8 ^[2,3]	27.7 ^[1]	24 5 [1]
	Agree	43.5	46.9	48 8 [3]	38 4 ^[2]
	Strongly Agree	4 7	9 4 ^[3]	4 2	3 4 ^[1]
	Legitimately Skipped Question	19.1	6.0 ^[2,3]	14.7 ^[1,3]	26.9 ^[1,2]

		Population Protected			
			50,000 +	5,000-49,999	0-4,999
Que	stion	Total	People	People	People
53.	What other NIOSH materials have you				
	seen? MARK ALL THAT APPLY.				
	Pocket guide to chemical hazards	63.7	82.6 ^[2,3]	65.6 ^[1,3]	55.4 ^[1,2]
	Respirator maintenance program guide	16.6	21.6 ^[3]	19.6 ^[3]	$12.4^{[1,2]}$
	CDs of firefighter program materials	32.3	45.1 ^[2,3]	30.5 [1]	29 .1 ^[1]
	Alerts	44.2	64.5 ^[2,3]	45.7 [1]	35.7 ^[1]
	Hazard IDs	18.0	20.1	20.3	15.4
	Workplace Solutions	14.3	14.0	20.2 [3]	9.7 ^[2]
	Other	1.0	2.8	$1.0^{[+]}$	0.4 [+]
	None. I have not seen any NIOSH materials.	18.3	5.7 ^[2,3]	15.3 ^[1,3]	25.2 ^[1,2]
53a.	How satisfied or dissatisfied are you with				
	these NIOSH materials?				
	Very dissatisfied	1.5	2.6	0.9	1.5
	Dissatisfied	0.1	**	** [+]	0.3 [+]
	Neither satisfied nor dissatisfied	19.0	21.0	18.8	18.4
		53.0	59.1	59.1 ^[3]	46.0 ^[2]
	Very satisfied	8.3	11.6	6.1	8.8
Satis	file gitimately Skipped Question	18.1	5.8 ^[2,3]	15.0 ^[1,3]	25.0 ^[1,2]
54.	Have you ever visited the NIOSH website				
	at www.cdc.gov/niosh/firehome.html?				
		44.0	$11.3^{[2,3]}$	42.9 ^[1,3]	56.5 ^[1,2]
	Yes, in the last year	50.0	80.2 ^[2,3]	51.0 ^[1,3]	38.2 ^[1,2]
No	Yes, longer than one year ago	6.1	8.5	6.0	5.2

	Population Protected			
		50,000 +	5,000-49,999	0–4,999
Question	Total	People	People	People
55. In which of these ways would you most prefer to receive information about NIOSH recommendations? MARK YOUR THREE (3) FAVORITES.				
Cable television programming	5.2 50.6	3.3 39.2 ^[2,3]	4.2 53.4 ^[1]	6.7 52.6 ^[1]
Conference presentations or meeting	8.9	7.6	9.2	9.1
CD/DEpail	53.8	76.5 ^[2,3]	55.7 ^[1,3]	44.1 ^[1,2]
Fire Fighter Fatality Investigation Reports	53.6	62.0 ^[3]	56.9	48.0 ^[1]
NIOSH Website	27.2	40.9 ^[2,3]	28.1 [1,3]	21.5 ^[1,2]
One-page Fact Sheets	30.3	27.1	33.8	28.8
Pocket Guides	26.7	19.2 [3]	22.3 ^[3]	32.7 ^[1,2]
Posters	12.8	5.6 ^[2,3]	11.0 ^[1]	16.9 ^[1]
Summary Reports	25.5	26.8	24.4	26.0
Training session/class	19.1	11.6 ^[3]	16.7	23.6 ^[1]
Other	1.1	** [3]	1.0 ^[+]	1.5 ^[1]

Note:

The 0-4,999 column includes those records with a missing value for population protected.

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

		Fatality and FFFIPP Investigation			
			Fatality with	Fatality without	
Que	stion	Total	Investigation	Investigation	No Fatality
1.	Does your department have a Safety				
	Officer?				
		70.0	$02 4^{[3]}$	00.1 [3]	$790^{[1,2]}$
	No	79.0	$92.4^{[3]}$	$90.1^{[3]}$	$78.0^{[1,2]}$
€7	NO Deeg your department have a Training	21.0	/.0**	9.9	22.0
4.es	Officer?				
	Oncer:	02.2	$00.2^{[3]}$	07.2[3]	$02 0^{[1,2]}$
	No	95.5	99.3^{-1}	97.2^{-1}	92.9^{-1} 7 1 [1,2]
3 7	NO	0.7	0.7**	2.0	/.1
4 .es	Onorating Proceedures (SOPs) or Standard				
	Operating Cuidelines (SOCs) to describe				
	how cortain situations should be				
	approached For which of the following				
	does your department have SOPs/SOCs in				
	nlace? MARK ALL THAT APPLV				
	Incident Command Systems	89.6	98 7 [3]	97 5 [3]	89 0 ^[1,2]
	Maintenance of SCBAs	76.8	94 8 ^[2,3]	64 4 ^[1]	76 3 ^[1]
	Motor vehicle safety	83.9	96 1 ^[3]	91 4 ^[3]	83 2 ^[1,2]
	Participation in a personal physical fitness	05.5	50.1	71.1	03.2
	nrogram		39.0	38.4	23.3
	Participation in regular health screenings for		27.0	2011	_0.0
	cardiovascular disease (CVD)	33.5	70.7 ^[3]	39.1	31.6 ^[1]
	Rapid Intervention Teams (RITs), also known				
	as Rapid Intervention Crews (RICs) or				
	Firefighter Assistance and Search Teams				
	(FAST)	58.8	92.3 [2,3]	62.5 [1]	57.2 ^[1]
	Use of Personal Alert Safety System (PASS)				
	devices	81.5	93.2 ^[2,3]	67.9 ^[1]	81.3 [1]
	Use of personal protective equipment and				
	protective clothing	93.1	97.6 ^[3]	92.8	92.9 ^[1]
	Use of radio communications	88.9	96.8 ^[3]	94.2 ^[3]	88.4 ^[1,2]
	Other	10.7	11.3 [+]	20.3 [+]	10.5
	Does not apply. Our fire department does not				
	use SOPs/SOGs.	2.6	** [3]	$0.2^{[3,+]}$	2.7 ^[1,2]

Table 19.1Results from the Fire Department Survey, Percent Estimates by Fatality and FFFIPP Investigation
Fire Fighter-Level Estimates

			Fatality and FF	FIPP Investigation	-
			Fatality with	Fatality without	
Que	stion	Total	Investigation	Investigation	No Fatality
4.	Do your firefighters receive training on any of the topics listed below? If so, is training optional or required? MARK ALL THAT APPLY.				
4a.	Fighting structure fires No Training Optional Training Required Training	1.2 11.1 88.1	2.7 ^[+] 2.5 ^[3,+] 94.8	4.6 ^[+] 22.9 ^[+] 72.5	1.0 ^[+] 11.2 ^[1] 88.3
4b.	Driving safety No Training Optional Training Required Training	2.3 12.9 85.0	0.9 ^[+] 6.5 ^[+] 92.7	3.9 ^[+] 8.3 87.8	2.3 13.3 84.6
4c.	Incident Command systems No Training Optional Training Required Training	1.5 19.2 79.4	$\begin{array}{c} 0.2^{[3,+]}\\ 2.8^{[2,3,+]}\\ 96.9^{[2,3]}\end{array}$	3.9 ^[+] 11.2 ^[1,3] 84.9 ^[1]	1.5 ^[1] 20.2 ^[1,2] 78.4 ^[1]
4d.	Maintenance of Self-Contained Breathing Apparatuses (SCBAs) No Training Optional Training Required Training	5.1 27.6 67.7	$\begin{array}{c} 0.9^{[3,+]} \\ 4.8^{[2,3,+]} \\ 94.3^{[2,3]} \end{array}$	20.0 ^[+] 15.9 ^[1,3] 64.0 ^[1]	4.9 ^[1] 28.9 ^[1,2] 66.5 ^[1]
4e.	Rapid Intervention Teams (RITs) No Training Optional Training Required Training	17.3 32.7 50.3	$\begin{array}{c} 1.6^{[3]} \\ 6.6^{[2,3]} \\ 91.8^{[2,3]} \end{array}$	22.1 ^[+] 24.9 ^[1] 53.0 ^[1]	17.9 ^[1] 34.1 ^[1] 48.3 ^[1]
4f.	Use of personal protective equipment and/or protective clothing No Training Optional Training Required Training	1.1 6.9 92.2	2.6 ^[+] 1.2 ^[3,+] 96.2	** ^[3] 5.4 94.7	1.1 ^[2] 7.2 ^[1] 91.9
4g.	Use of radio communication devices No Training Optional Training Required Training	2.3 15.6 82.4	3.7 ^[+] 5.3 ^[3,+] 91.0	0.1 ^[3,+] 11.7 88.2	2.3 ^[2] 16.2 ^[1] 81.9

			Fatality and FF	FIPP Investigation	
			Fatality with	Fatality without	
Que	estion	Total	Investigation	Investigation	No Fatality
5.	Who provides training to your firefighters?				
	MARK ALL THAT APPLY.				
	Our department's Training Officer	90.4	98.5 ^[3]	95.2 ^[3]	89.9 ^[1,2]
	Other officers within our department	88.2	98.6 ^[3]	93.6	87.5 [1]
	State fire training agency	78.1	52.8	87.4	79.0
	United States Fire Administration's (USFA)				
	National Fire Academy in Emmitsburg, MD	34.4	36.6	44.2	34.1
	Conferences or regional meetings	60.7	56.0	81.1 ^[3]	60.4 ^[2]
	Other	25.6	13.0 ^[3]	17.7	26.4 ^[1]
6.	What other trainings have your firefighters				
	attended in the last 12 months? MARK				
	ALL THAT APPLY.				
	Roadside incidents/Motor Vehicle Accidents				
	(MVA)	57.7	43.4	36.2 ^[3]	58.9 ^[2]
	Scuba diving	11.9	21.6 ^[+]	8.4 [+]	11.6
	Swift water rescue	19.5	37.7	24.8	18.6
	Wildland fire fighting	40.3	30.4	40.1	40.8
		74.3	63.0	77.2	74.7
		38.1	69.5 ^[2,3]	18.1 [1,3]	37.3 [1,2]
8IA	ZNHQW familiar are you with the National				
Oth	er Institute for Occupational Safety and				
	Health (NIOSH)?				
	Not at all familiar	4.8	$0.3^{[3,+]}$	$0.5^{[3,+]}$	5.1 ^[1,2]
	Not very familiar	17.1	$6.4^{[3,+]}$	6.8 ^[3]	$17.8^{[1,2]}$
	Somewhat familiar	58.1	$21.8^{[2,3]}$	56.6	59.6 ^[1]
	Very familiar	20.0	71.4 ^[2,3]	36.1	17.4
9.	How familiar are you with NIOSH's Fire				
	Fighter Fatality Investigation and				
	Prevention Program (FFFIPP)?			[2]	
	Not at all familiar	14.6	7.5 ^[+]	$2.0^{[3]}$	15.2 ^[2]
	Not very familiar	27.2	3.7 ^[3,+]	10.2 ^[3]	28.7 ^[1,2]
	Somewhat familiar	41.3	17.7 ^[2,3]	63.6 ^[1,3]	41.5 ^[1,2]
	Very familiar	16.9	71.1 ^[2,3]	24.3 ^[1]	14.5 ^[1]

		Fatality and FFFIPP Investigation			
			Fatality with	Fatality without	
Question		Total	Investigation	Investigation	No Fatality
10. How does your	department receive				
information at	oout NIOSH's firefighter				
safety and hea	Ith recommendations?				
MARK ALL T	THAT APPLY.				
NIOSH mailing	<u>zs</u>	71.5	82.5	61.2	71.4
National confer	ence presentations	9.3	14.4 [+]	6.4	9.2
State-level conf	ference presentations	15.5	8.4 [+]	4.8 ^[3]	16.1 ^[2]
Other firefighte	rs or departments	25.8	21.4	39.0	25.6
At seminars or	other training opportunities				
(not conferen	ces)	21.4	12.0	15.2	22.0
Trade publication	ons (such as Firehouse and				
Fire Engineer	ring)	55.5	68.8	47.0	55.2
NIOSH website		40.9	84.2 ^[2,3]	58.0 ^[1]	38.7 ^[1]
Links from othe	er websites (such as NFPA and				
Firehouse)		36.8	64.9 ^[3]	49.4	35.3 [1]
Media reports -	newspaper, television, radio	15.9	8.9 ^[+]	11.6	16.3
		2.7	0.6 [+]	12.4 [+]	2.5 [+]
Does not apply.	We have not received				
Other information a	bout NIOSH				
recommendat	tions.	7.0	3.3 [+]	$2.1^{[3,+]}$	7.3 [2]
11. In what ways h	nas your department used				
NIOSH recom	mendations? MARK ALL				
THAT APPLY	7				
Made changes t	to training program	48.5	42.1	46.4	48.8
Developed new	SOPs/SOGs	35.3	32.0	41.5	35.2
Made changes t	to SOPs/SOGs	45.6	44.8	60.2	45.2
Justified curren	t budget/staffing	10.6	13.1	7.1	10.6
Made new budg	get/staffing requests	12.2	19.8	10.3	11.9
Justified grant a	applications	19.7	20.0	11.9	19.9
Does not apply.	We have not used NIOSH				
recommendat	ions.	25.0	41.1 [+]	24.6	24.4
Legitimately Sk	ipped Question	7.3	3.5 [+]	$2.2^{[3,+]}$	7.6 ^[2]

		Fatality and FFFIPP Investigation			
		Fatality with	Fatality without		
Question	Total	Investigation	Investigation	No Fatality	
11b. Can you identify topics of NIOSH					
recommendations that you have used for					
training purposes? If so, MARK ALL					
THAT APPLY.					
Traffic hazards	35.3	27.2	50.5	35.2	
Personal protective equipment and clothing	49.6	33.3	44.6	50.3	
	49.7	32.6	42.9	50.5	
PASS systems	40.4	28.3	35.5	41.0	
SCBAIncident Command systems	40.8	28.2	56.5	40.9	
Radio communications	27.1	23.0	37.0	27.0	
Physical fitness and cardiovascular disease					
(CVD)	15.9	31.4	36.3	14.7	
Building code compliance (e.g., warning					
against the use of wooden trusses)	9.9	7.7 [+]	3.6 ^[3,+]	$10.2^{[2]}$	
Other	4.8	4.6 ^[+]	1.6 ^[+]	4.9	
Does not apply. We have not used NIOSH					
recommendations for training purposes.	1.8	0.4 ^[3,+]	2.5 [+]	1.8 ^[1]	
Legitimately Skipped Question	32.5	45.7	27.4	32.1	
12. Does your department have a fitness					
training that involves physical exercise					
and/or other health promotion activities					
(for example a cardiovascular fitness					
program, physical training program,					
wellness program, or other fitness					
program)?			FA]		
	58.8	23.2 ^[3]	33.4 ^[3]	60.9 ^[1,2]	
Yes, it's required	16.9	26.1	30.5	16.2	
No Yes, it's optional	24.3	50.6	36.2	22.9	
13. How often do your firefighters receive					
screenings for cardiovascular disease					
(CVD) and its risk factors?					
One time, when they first join the department	it 14.5	$6.0^{[3,+]}$	11.7	14.9	
Less frequently than once a year	9.2	$3.3^{[3,+]}$	19.9 ^[+]	9.1	
One time a year	32.8	68.3 ^[3]	45.4	31.0 ^[1]	
More than one time a year	0.4	** [3]	** [3]	0.4 ^[1,2]	
Does not apply. Firefighters are not required		[2]	[2]	[1 0]	
to receive CVD screenings	43.2	22.4 ^[3]	$22.9^{[3]}$	44.6 ^[1,2]	

		Fatality and FFFIPP Investigation			
			Fatality with	Fatality without	
Que	stion	Total	Investigation	Investigation	No Fatality
14.	Do all drivers of vehicles responding to				
	emergency calls receive driver training				
	before being allowed to operate the				
	vehicles? MARK ALL THAT APPLY.		[2]]	[1]	[1]
		4.1	0.3 [5,+]	13.6	4.0
	Yes, they receive training required by the		2 5 2 [3]		a a a [1]
No	department	88.9	96.8 ^[3]	80.0	88.9
	Yes, they receive training required by the	20.2	11.0[3]	10 7 [3]	2 0 c ^[12]
	state	28.3	11.9 ^[3]	10.7	$29.6^{[1,2]}$
4.5	Yes, they receive optional training	13.6	5.1	10.1	14.1
15.	How often do drivers of your fire				
	department vehicles receive refresher				
	driver training to continue being allowed				
	to drive the vehicles?	10.1	4 [3]	2 0 [3]	10 7 [1.2]
	I wo or more times a year	12.1	$4.6^{[3]}$	$3.9^{[0]}$	$12.7^{[1,2]}$
	Unce every year	43.6	$63.6^{[1]}$	1/./[.,.]	$43.4^{[1]}$
	Less frequently than once a year	28.4	20.3	34.3	28.0
	Does not apply. Firefighters are not required	15.0	11.4	22.0	15.0
1(to receive continuing driver training.	15.9	11.4	23.9	15.9
10.	Does your fire department have a				
	requirement regarding seat beit use in				
	emergency venicies:	80.2	08 6 [3]	06 2 [3]	00 5 [1,2]
	No	09.2 10.8	98.0^{-1}	30.3^{-1}	$115^{[1,2]}$
17.	No To what extent do you agree or disagree	10.0	1.4	5.7	11.5
I es	that your firefighters are able to fit				
	comfortably in their seathelts while				
	wearing turnout gear in your emergency				
	vehicles?				
	Strongly disagree	6.8	5 3 [+]	3 2 [+]	7.0
	Stongry albugice	19.5	43.2	19.8 [+]	18.4
	Neither agree nor disagree	25.2	8 2 ^[3]	23 7	$260^{[1]}$
Disa	orderee	34.8	26 7	$11.5^{[3]}$	35 9 ^[2]
Disa	Strongly agree	13.7	16.5 [+]	41.8 ^[3]	12.8 ^[2]

		Fatality and FFFIPP Investigation			
			Fatality with	Fatality without	
Que	stion	Total	Investigation	Investigation	No Fatality
18.	About how often do you think your				
	firefighters use their seatbelts when riding				
	in the emergency vehicles?				
		3.6	0.7 ^[3,+]	0.7 ^[3,+]	3.8 ^[1,2]
	Some of the time	22.3	40.8	32.3	21.1
Nev	erAbout half the time	16.5	11.1 [+]	24.3	16.6
	Most of the time	38.1	36.3	26.6	38.5
	Always	19.6	11.2	16.1	20.0
21.	How often is Incident Command				
	established when responding to structure				
	fires?				
		1.3	** [3]	1.5 [+]	1.3 ^[1]
	Rarely	3.6	$1.0^{[3,+]}$	0.7 ^[3,+]	3.8 ^[1,2]
Nev	erAbout half the time	4.0	$0.3^{[3,+]}$	0.5 ^[3,+]	4.2 ^[1,2]
	Most of the time	20.3	5.3 ^[3,+]	10.7 ^[3]	21.3 ^[1,2]
	Always	70.8	93.4 ^[3]	86.7 ^[3]	69.3 ^[1,2]
22.	What are the reasons why Incident				
	Command is not always established by				
	your fire department? MARK ALL THAT				
	APPLY.				
	Fires are not usually big enough to require an				
	Incident Commander	15.1	3.5 ^[3,+]	5.3 ^[3]	15.9 ^[1,2]
	Not enough firefighters available at the scene				
	of the fire	12.6	1.4 ^[3]	6.0 ^[3]	13.3 ^[1,2]
	Other	4.7	$1.6^{[3,+]}$	4.5 [+]	4.9 ^[1]
	Does not apply. My department always				
	assigns an Incident Commander for				
	structure fires.	3.4	0.4 ^[3,+]	0.9 ^[3,+]	3.6 ^[1,2]
	Legitimately Skipped Question	70.8	93.5 ^[3]	88.9 ^[3]	69.3 ^[1,2]

		Fatality and FFFIPP Investigation			
			Fatality with	Fatality without	
Question		Total	Investigation	Investigation	No Fatality
23. When Incident	Command is established for				
a structure fire,	what are the Incident				
Commander's r	esponsibilities? MARK				
ALL THAT AP	PLY.				
Conduct an initia	al assessment before the other				
firefighters beg	gin entering the building	91.2	89.3	75.5	91.8
Develop and coo	rdinate the fire attack				
strategy		94.2	95.2	93.0	94.2
Develop and init	iate a risk management plan	63.6	83.0 ^[3]	69.3	62.5 ^[1]
Document all ass	sessments, plans and events				
related to the f	ire	42.2	45.0	43.9	42.0
Ensure that at lea	ast four (4) firefighters are on				
the scene befor	re entering the building	70.4	59.5	57.1	71.3
Establish a collap	ose zone around the building	53.9	77.7 ^[3]	49.6	52.9 ^[1]
Establish Rapid I	Intervention Team (RIT) or				
Rapid Interven	tion Crew (RIC)	64.6	95.0 ^[2,3]	69.5 ^[1]	63.1 ^[1]
Identify and impl	lement a communication				
strategy			79.8 ^[2]	50.8 [1]	67.4
Monitor location	of all firefighters at the				
scene		77.2	93.9 ^[3]	83.5	76.2 ^[1]
Other		10.4	17.0 ^[+]	9.8	10.2
24. About how often	n does an Incident				
Commander ass	sign an Incident Safety				
Officer when re	sponding to structure fires?		[2] 1]	F - 1	[1]
		8.2	$0.7^{[3,+]}$	17.2 [+]	8.2
Some of the time	2	25.1	45.4	26.2	24.1
NeverAbout half the time	me	8.0	13.9 ^[+]	$2.8^{[3,+]}$	$7.9^{[2]}$
Most of the time		31.6	13.4 ^[3]	15.1 ^[3]	32.9 ^[1,2]
Always		27.2	26.6	38.7	26.9

		Fatality and FFFIPP Investigation						
		Fatality with Fatality without						
Que	stion	Total	Investigation	Investigation	No Fatality			
25.	What are the reasons why an Incident							
	Commander does not always assign an							
	Incident Safety Officer? MARK ALL							
	THAT APPLY.							
	Fires are not big enough to require an Incident							
	Safety Officer	28.0	23.9 ^[+]	8.4 ^[3]	28.8 ^[2]			
	Not enough firefighters are available at the							
	scene of the fire	42.4	12.0 ^[3]	28.4	44.3 [1]			
	Other	20.4	41.4	40.9	18.8			
	Does not apply. Our Incident Commanders							
	always assign an Incident Safety Officer for							
	structure fires.	2.0	$0.5^{[3,+]}$	0.7 [+]	$2.2^{[1]}$			
	Legitimately Skipped Question	27.5	26.6	39.7	27.2			
26.	How often are Rapid Intervention Teams							
	(RITs) or Rapid Intervention Crews							
	(RICs) available at structure fires?							
		17.6	2.2 ^[3]	20.2 [+]	18.3 [1]			
	Some of the time	16.3	2.0 ^[2,3]	11.0 ^[1]	17.1 [1]			
Nev	erAbout half the time	5.5	14.7 [+]	$1.7^{[3,+]}$	5.2 ^[2]			
	Most of the time	26.6	13.5 ^[3]	18.5 ^[+]	27.4 ^[1]			
	Always	34.0	67.6 ^[3]	48.6	32.0 ^[1]			
27.	In what situations are RITs/RICs							
	established? MARK ALL THAT APPLY.							
	When the building has more than one							
	story/floor	8.6	$1.2^{[3,+]}$	4.6 ^[+]	9.1 ^[1]			
	When there are enough firefighters on and at							
	the scene of the fire	28.7	9.9 ^[3,+]	19.8	29.8 ^[1]			
	Whenever firefighters enter a burning							
	building	26.1	14.5	18.4 [+]	26.8			
		6.2	13.6 ^[+]	13.3 ^[+]	5.7			
	Legitimately Skipped Question	51.7	69.9	69.0	50.4			

Other

		Fatality and FFFIPP Investigation							
			Fatality withFatality without						
Que	stion	Total	Investigation	Investigation	No Fatality				
28.	What are the reasons why your fire								
	department does not use RITs/RICs in								
	every structure fire? MARK ALL THAT								
	APPLY.								
	The structure fire may not be large enough to		5.1						
	need an RIT/RIC	29.7	24.3 [+]	20.7	30.2				
	We don't have enough equipment, SCBAs, or		[2 +]	[2 +]	[1.2]				
	turnout gear to establish an RIT/RIC	4.9	$0.4^{[3,+]}$	$0.7^{[3,+]}$	5.2 ^[1,2]				
	We don't have enough firefighters available at		[2]		[1]				
	the scene of the fire	41.7	7.8 ^[3]	24.6	43.7				
	We don't have enough training or trained								
	personnel at the scene to establish an		[2 +]	[2]	[1.2]				
	RIT/RIC	13.6	$3.2^{[5,T]}$	$6.1^{[5]}$	$14.3^{[1,2]}$				
	We have never established an RIT/RIC	10.6	$0.9^{[5,\tau]}$	2.4	11.3				
	We use other fire departments in the area for		[2]	[2]	[1 2]				
	RITs/RICs	22.6	5.1	7.7	$23.8^{[1,2]}$				
	We use other safety practices and so we don't	• •	ج د [+]	o o [3+]	- - [2]				
	need them	2.6	$1.6^{[']}$	$0.3^{[5,1]}$	$2.7^{[2]}$				
	Other	5.5	1.8 ^[3]	20.7^{11}	$5.3^{[1]}$				
	Legitimately Skipped Question	34.4	67.7	48.6	32.5				
29.	Does your fire department have enough								
	Personal Alert Safety System (PASS)								
	devices for all firefighters for use when								
	fighting structure fires?	064	00.2[3]	00.4	oc o[1]				
		86.4	99.3 ^[3]	80.4	86.0 ^[1]				
		13.6	0. / [5]	[.]	14.0				
Me s	About how often do you think your								
No	firefighters wear their PASS devices when								
	fighting structure fires?	2.7	0, 2[3+]	17 2 [+]	2 [1]				
		<i>3.1</i>	0.3 19.6	1/.2 [°] **[3]	3.3^{-1}				
	Some of the time	2.5	** [3.+]	ο _ε [+]	$2.7^{[1,2]}$				
Neve	erAdout naif the time	1.2	1 O [+]	0.5					
	Niost of the time	8.5	4.8	5./ 76.6	$\delta./$				
	Aiways	84.1	94./	/0.0	83.8				

			Fatality and FF	FIPP Investigation			
		Fatality with Fatality without					
Que	stion	Total	Investigation	Investigation	No Fatality		
31.	Why do you think your firefighters do not						
	use their PASS devices more often? MARK						
	ALL THAT APPLY.						
	They don't have a PASS device to use	8.3	$0.4^{[3,+]}$	18.2 ^[+]	8.4 ^[1]		
	Situation doesn't require them	6.3	4.5 [+]	19.2 [+]	6.0		
	Firefighters think the devices do not always						
	work reliably	0.2	0.1 [+]	0.3 [+]	0.2 ^[+]		
	Firefighters don't think they need them	3.2	$0.1^{[3,+]}$	$0.7^{[3,+]}$	3.5 ^[1,2]		
	Devices go off while firefighters are resting	2.6	4.5	$0.7^{[3,+]}$	2.5 ^[2]		
	Legitimately Skipped Question	84.5	94.9 ^[3]	77.4	84.2 ^[1]		
32.	Does your department have Self Contained						
	Breathing Apparatuses (SCBA) for your						
	firefighters to use when combating						
	structure fires?						
		98.8	99.8	84.6	99.2		
		1.2	0.2 ^[+]	[+]	[+]		
33es	Do your firefighters ever have to share						
No	facepieces for SCBAs?		F - 1				
		40.2	38.6 ^[+]	31.1	40.5		
		58.6	61.3 15.4	52.3	58.6		
Yes	Legitimately Skipped Question	1.2	0.2 ^[+]	16.6 ^[+]	0.9 ^[+]		
BBa.	What are the reasons why your fire			0.8			
	department does not have personally-fitted						
	SCBA facepieces for all of your						
	firefighters? MARK ALL THAT APPLY.		[2 +]	[2]]	[1.2]		
	Didn't know it was recommended	3.1	$0.2^{[3,+]}$	$0.4^{[3,+]}$	$3.3^{[1,2]}$		
	Firefighters don't like using the equipment	0.1	**	**	0.1		
	Have never needed them (e.g., we don't do		[2]	F - 1			
	interior attacks)	0.2	** [3]	0.5 ^[+]	0.2		
	They cost too much, there is not enough		[2]		[1]		
	money in the budget	25.6	3.8 ^[3]	22.7	26.7		
	We don't have enough equipment for all of		[0]	[0]	[1 2]		
	our firefighters	17.9	2.5 ^[3]	8.8 ^[3]	18.8 ^[1,2]		
	Shared systems work fine for our needs	19.3	34.3	9.5	18.8 [2]		
	Other	7.3	32.3 [+]	5.0	6.2		
	Legitimately Skipped Question	59.8	62.4	69.6	59.4		

		Fatality and FFFIPP Investigation					
			Fatality with	Fatality without			
Que	stion	Total	Investigation	Investigation	No Fatality		
34.	About how often do you think your						
	firefighters use SCBAs while fighting						
	structure fires?						
		0.4	** [3]	** [3]	$0.4^{[1,2]}$		
	Some of the time	2.3	0.2 ^[3,+]	1.2 [+]	2.4 ^[1]		
Nev	erAbout half the time	1.7	** [3]	** [3]	$1.8^{[1,2]}$		
	Most of the time	22.5	46.6	24.5	21.3		
	Always	72.0	53.0	57.9	73.3		
	Legitimately Skipped Question	1.2	0.2 [+]	16.4 [+]	0.9 ^[+]		
35.	Why do you think your firefighters do not						
	use SCBAs more often when fighting						
	structure fires? MARK ALL THAT						
	APPLY.			[1]			
	Situation doesn't require them	20.1	46.7	20.8 [*]			
	Firefighters do not trust that the SCBAs will				[4]		
	work reliably	**	**	**	**[']		
	Firefighters don't think they need them	11.4	38.3		9.8		
	Firefighters don't like sharing facepieces with	0.5	state [3]	[+]	[1]		
	others	0.5	ችች [~]	18.9	[1]		
	Firefighters are concerned that the SCBA may	* *	* *	**	** [+]		
	be or become contaminated	ጥ ጥ	** 21.9	ጥ ጥ	ጥጥ 1 ጋ		
	wearing SCBAs makes it more difficult to	4 4	4 5 [+]	[+]			
	WORK	4.4	4.5 ¹ ** ^[3]	** [3]	[1,2]		
	Logitimately Skipped Question	2.7	52 0 2	74.2 0.5	74.0		
26	Legitimately Skipped Question	13.9	55. Q .Z	74.5 0.5	/4.9		
30.	now often is routine maintenance						
	A fter every time they are used	16.6	116 5.5	50.0	16.6		
	Once a month or more	40.0	$64^{[3,+]}$	[3]4 4	40.0 [1,2]		
	Several times a year	14.3	36 3 ^[+]	$2 0^{[3]}$	[2]		
	Once a year	17.6	12 5 ^[+]	$7 a^{[3,+]}$	[2]		
	Less than once a year	2.6	** [3]	12 8 ^[+]	[1]		
	Never Maintenance has not been done on our	2.0		12.0			
	SCBAs	0.8	$0.1^{[3,+]}6.3$	2.6 ^[+]	[1]		
	Does not apply My department does not have	0.0	0.1	17.6			
	SCBAs.	**	**	** 134	**		
	Legitimately Skipped Question	1.5	0.2 [+]	[+]	[+]		
<u> </u>			-	2.4	1		

		Fatality and FFFIPP Investigation					
			Fatality with	Fatality without			
Que	stion	Total	Investigation	Investigation	No Fatality		
37.	How many						
	Chemical/Biological/Radiological/Nuclear						
	(CBRN) SCBAs are available (or on order)						
	for use by firefighters within your						
	department at this time?						
	Greater than zero	29.7	59.4 ^[3]	28.6	28.3		
		70.3	40.6 ^[3]		71.7		
37a.	What are the reasons why your fire						
Zero	department does not have CBRN SCBAs?						
	MARK ALL THAT APPLY.						
	CBRN SCBA devices are not needed in our			[1]	[1]		
	department	16.6	$1.6^{[2,3,+]}$	36.8 ^[1]	16.7		
	We didn't know they were available	11.2	5.4	2.6	11.7 ^[2]		
	We don't have adequate technical information		[2 2]	[1]	[1]		
	to purchase them	15.4	$2.1^{[2,5]}$	30.2	15.6		
	We don't have adequate funding to purchase	5 0 0	a a a [2 3]	5 0 c ^[1]	51 0 ^[1]		
	them	50.8	20.9 ^[2,5]	59.6 ^[1]	51.8		
	Other	7.1	$7.5^{[1]}$	$22.2^{[1]}$	6.6 20.5 ^[1]		
	Legitimately Skipped Question	31.1	69.9	30.6	29.5		
38.	Does your fire department have						
	Automated External Defibrillators						
	(AEDs)?	05.2	00 7 [3]	04 1 [3]	04 4 [1.2]		
	NI-	85.3	98. / ^[3]	94.1 ^[5]	$84.4^{[1,2]}$		
90.	NO	14./	1.3	5.9	13.0		
ગુસ્કુ.	At your fire department, where do you						
	nave ALDS?	2.1	0.1[3,+]	25 7 [+]	1 7 [1]		
	At the file station(s) On the emergency vehicles (or encorotus)	2.1	0.1	23.7	1./**		
	Both at the fire station(s) and on the vehicles	00.1	19.1	30.7	05.0		
	(or apparetus)	14.8	18 7 [+]	6 8 ^[3]	148[2]		
	(or apparatus) Lagitimataly Skipped Question	14.0	1 5 [3]	8 6 ^[3]	17 Q ^[1,2]		
	(or apparatus) Legitimately Skipped Question	14.8	1.5 ^[3]	8.6 ^[3]	14.8^{13} $17.9^{[1,2]}$		

			Fatality and FF	FIPP Investigation	
			Fatality with	Fatality without	
Que	stion	Total	Investigation	Investigation	No Fatality
39.	How often has routine maintenance,				
	including replacement of battery packs,				
	been performed on your AEDs?				
	After every time they are used	20.1	35.1	31.7	18.9
	Once a month or more	24.7	41.0 ^[+]	10.8 ^[3]	24.3 ^[2]
	Several times a year	19.4	7.2 ^[3,+]	22.8	20.0 ^[1]
	Once a year	23.1	14.6	30.0	23.3
	Less frequently than once a year	6.2	0.5 ^[3,+]	$1.2^{[3,+]}$	6.7 ^[1,2]
	Never. Maintenance on our AEDs has not				
	been done.	6.5	1.7 ^[3,+]	3.5 ^[+]	6.9 ^[1]
40.	About how often do your firefighters carry				
	radios or other two-way communication				
	devices while responding to structure fires?				
		1.5	0.3 [3,+]	** [3]	1.6 ^[1,2]
	Some of the time	3.1	** [2,3]	$1.8^{[1,+]}$	3.2 ^[1]
Nev	erAbout half the time	1.6	** [3,+]	** [3]	1.7 ^[1,2]
	Most of the time	16.1	2.6 ^[2,3]	15.4 ^[1]	16.7 ^[1]
	Always	77.8	97.0 ^[2,3]	82.7 ^[1]	76.8 ^[1]
41.	Some radios and other two-way				
	communication devices can have problems				
	under field conditions, such as bleed-over,				
	interference, or loss of communication.				
	About how often do your communication				
	devices have these or other problems?				
		14.5	5.8 ^[3,+]	7.7 ^[3]	15.1 ^[1,2]
	Some of the time	70.7	90.9 ^[3]	71.8	69.8 ^[1]
Nev	erAbout half the time	7.8	$2.8^{[3,+]}$	16.8 ^[+]	7.8 ^[1]
	Most of the time	5.7	$0.5^{[3,+]}$	3.5	6.0 ^[1]
	Always	1.3	** [3]	0.3 ^[3,+]	1.4 ^[1,2]

			Fatality and FF	FIPP Investigation			
		Fatality with Fatality without					
Que	stion	Total	Investigation	Investigation	No Fatality		
42.	How would you rate your department's budget in the following areas?						
42a.	Equipment	38.6	17 8 [2,3]	49 3 ^[1]	39 3 [1]		
	Adequate	54.0	79 6 ^[2,3]	47 9 ^[1]	$53.0^{[1]}$		
	More than adequate	74	$26^{[3,+]}$	$28^{[3,+]}$	7 7 ^[1,2]		
12h	Training	/.1	2.0	2.0			
420.	Not adequate	36.0	17 9 ^[2,3]	54 O ^[1]	36 3 [1]		
	Adequate	56.4	78 0 ^[2,3]	43 5 ^[1]	55.8 ^[1]		
	More than adequate	77	4 1 ^[+]	$2.5^{[3,+]}$	8 0 ^[2]		
120	Parsonnal	,.,	1.1	2.0	0.0		
420.	Not adequate	18.8	10 0 [2,3]	62 3 [1]	10 8 ^[1]		
	Adequate	46.2	$77 4^{[2,3]}$	36 7 ^[1]	$45.0^{[1]}$		
	More than adequate	5.0	2 7 [+]	$10^{[3,+]}$	5 2 ^[2]		
43.	How often have you seen NIOSH reports	0.0	2.7	1.0	0.2		
	that describe recent firefighter fatalities						
	and make recommendations for avoiding						
	similar incidents? Please refer to the insert						
	sheet included with this survey for						
	examples of NIOSH firefighter safety						
	reports.						
	•	18.7	3.8 ^[3,+]	4.5 ^[3]	19.8 ^[1,2]		
	One or two times per year	30.9	11.8 ^[3]	33.6	31.7 ^[1]		
Neve	erSeveral times per year	40.4	31.8	58.2	40.3		
	Once a month or more	10.0	52.6 ^[2,3]	3.7 ^[1,3]	8.3 ^[1,2]		
44.	How does your department receive the						
	NIOSH Fire Fighter Fatality Investigation						
	reports? MARK ALL THAT APPLY.						
	By mail	55.8	74.2	54.8	55.0		
	On the Internet	39.8	51.6	51.4	38.9		
	From colleagues in other departments	15.1	11.8	31.3	14.8		
	At conterences or other meetings	10.8	11.5	33.1	10.1		
	Legitimately Skipped Question	18.3	3.8	4.4	19.4		

		Fatality and FFFIPP Investigation					
			Fatality with	Fatality without			
Que	stion	Total	Investigation	Investigation	No Fatality		
45.	Have you read part or all of a NIOSH Fire						
	Fighter Fatality Investigation report in the						
	last 12 months?						
		64.8	92.8 ^[3]	73.6	63.3 [1]		
	No	16.9	3.4 ^[3,+]	22.0	17.3 [1]		
Yes	Legitimately Skipped Question	18.3	3.8 ^[3,+]	4.4 ^[3]	19.3 [1,2]		
50.	Does the fire department disseminate the						
	information it receives from NIOSH to the						
	firefighters?						
	Yes	67.6	54.7	79.9	67.8		
		13.5	41.4	15.6	12.2		
	Legitimately Skipped Question	18.9	3.8 ^[3,+]	4.5 [3]	20.0 ^[1,2]		
50a.	How is this information disseminated to						
	firefighters? MARK ALL THAT APPLY.						
	Regular staff meetings	25.4	12.6 ^[3]	14.7 ^[3]	26.3 [1,2]		
	Training sessions	51.5	35.1	58.4	52.1		
	Provide copies of NIOSH reports to						
	firefighters	21.0	14.8	10.7 [3]	21.6 ^[2]		
	Provide copies of NIOSH report summaries to						
	firefighters	10.2	6.7 [+]	7.6	10.4		
	Provide summaries prepared by department to						
	firefighters	4.1	11.6	0.8 [3,+]	3.8 ^[2]		
	Postings on bulletin boards	43.1	33.1	24.7 [3]	44.1 ^[2]		
	Post report on the department website	3.8	6.1 [+]	2.1 [+]	3.8		
	Send message to firefighters by email	13.8	16.7	21.7 [+]	13.4		
		2.6	3.5 [+]	14.2 [+]	2.2		
	Legitimately Skipped Question	31.8	45.3	19.7	31.6		
Othe	The NIOSH reports sometimes reference						
	other documents, such as guidelines or						
	more detailed technical reports. Does your						
	fire department usually have access to						
	documents that are referenced in NIOSH						
	reports?						
	-	50.4	86.7 ^[3]	68.1 ^[3]	48.3 [1,2]		
	No	30.8	9.4 ^[3]	26.9	31.9 ^[1]		
Yes	Legitimately Skipped Question	18.8	3.9 ^[3,+]	5.0 ^[3]	19.8 ^[1,2]		

		Fatality and FFFIPP Investigation					
		Fatality with Fatality without					
Ques	stion	Total	Investigation	Investigation	No Fatality		
52.	NIOSH reports always include						
	recommendations that are designed to help						
	improve the health and safety of						
	firefighters. How much do you agree or						
	disagree with the following statements						
	about the NIOSH recommendations:						
52a.	Recommendations are practical		[.]		[.]		
	Strongly Disagree	2.5	0.9 ^[+]	**	2.6		
	Disagree	5.1	33.0	$2.8^{[+]}$	3.9		
	Neither Agree nor Disagree	18.4	21.2 [+]	45.0 ^[3]	17.6 ^[2]		
	Agree	50.3	37.7	45.9	51.0		
	Strongly Agree	4.7	3.4 [+]	$1.4^{[3,+]}$	4.8 ^[2]		
	Legitimately Skipped Question	19.0	3.8 ^[3,+]	4.9 ^[3]	20.1 ^[1,2]		
501							
52b.	Recommendations are easy to understand	2.4	o c [+]	**	a c [+]		
	Strongly Disagree	2.4	0.6^{1}	** • • • [+]	2.6		
	Disagree	1.5	$0.3^{[0,1]}$	2.2	1.5		
	Neither Agree nor Disagree	16.9	$6.7^{[3]}$	15.7	[7.4 ^[1]		
	Agree	54.2	82.9 ^[5]	$15.2^{[3]}$	$52.3^{[1,2]}$		
	Strongly Agree	6.0	$5.6^{[1]}$	1.9 ^[3,1]	6.1 ^[2]		
	Legitimately Skipped Question	19.1	3.9	5.0	20.1		
52c.	Recommendations are specific and						
	concrete						
	Strongly Disagree	2.5	0.6 [+]	**	2.7 [+]		
	Disagree	6.0	53.8 ^[2,3]	3.9 ^[1,+]	3.9 ^[1]		
	Neither Agree nor Disagree	24.2	7.1 [2,3]	32.2 [1]	24.8 ^[1]		
	Agree	43.5	29.5	49.5	44.0		
	Strongly Agree	4.7	5.2 [+]	9.5 [+]	4.5		
	Legitimately Skipped Question	19.1	3.8 ^[3,+]	5.0 ^[3]	20.2 [1,2]		

		Fatality and FFFIPP Investigation						
		Fatality with Fatality without						
Que	stion	Total	Investigation	Investigation	No Fatality			
53.	What other NIOSH materials have you							
	seen? MARK ALL THAT APPLY.							
	Pocket guide to chemical hazards	63.7	86.7 ^[2,3]	56.8 ^[1]	62.9 ^[1]			
	Respirator maintenance program guide	16.6	20.2 [+]	28.5	16.1			
	CDs of firefighter program materials	32.3	75.5 ^[2,3]	31.2 ^[1]	30.5 ^[1]			
	Alerts	44.2	82.0 ^[2,3]	52.2 ^[1]	42.3 [1]			
	Hazard IDs	18.0	25.7 [+]	14.4	17.8			
	Workplace Solutions	14.3	7.2 [+]	10.6	14.7			
	-	1.0	** [3]	6.6 ^[+]	0.9 ^[1]			
	None. I have not seen any NIOSH materials.	18.3	3.6 ^[3,+]	14.1 [+]	19.1 ^[1]			
68he	er How satisfied or dissatisfied are you with							
	these NIOSH materials?							
	Very dissatisfied	1.5	2.0 ^[+]	0.7 [+]	1.4			
	Dissatisfied	0.1	0.1 [+]	**	0.1 [+]			
	Neither satisfied nor dissatisfied	19.0	37.4 [+]	14.4	18.3			
		53.0	54.7	66.3	52.5			
	Very satisfied	8.3	2.1 [3,+]	4.6 ^[+]	8.7 ^[1]			
Satis	sfilegitimately Skipped Question	18.1	3.7 ^[3,+]	13.9 ^[+]	18.9 ^[1]			
54.	Have you ever visited the NIOSH website							
	at www.cdc.gov/niosh/firehome.html?							
	-	44.0	11.5 ^[3]	17.4 ^[3]	46.2 ^[1,2]			
	Yes, in the last year	50.0	86.6 ^[3]	67.9 ^[3]	47.8 ^[1,2]			
No	Yes, longer than one year ago	6.1	1.9 ^[3]	14.8 [+]	6.0 ^[1]			

		Fatality and FFFIPP Investigation						
			Fatality with	Fatality without				
Question		Total	Investigation	Investigation	No Fatality			
55. In which of these w	ays would you most							
prefer to receive in	formation about NIOSH							
recommendations?	MARK YOUR THREE							
(3) FAVORITES.								
Cable television pro	gramming	5.2	$0.6^{[3,+]}$	2.8 [+]	5.5 ^[1]			
CD/DVD		50.6	33.8	51.5	51.3			
Conference presenta	ations or meeting	8.9	3.1 [3,+]	$3.4^{[3,+]}$	9.3 ^[1,2]			
Email		53.8	73.3	61.5	52.7			
Fire Fighter Fatality	Investigation Reports	53.6	77.8 ^[2,3]	47.5 [1]	52.7 ^[1]			
NIOSH Website		27.2	26.3	48.6	26.6			
One-page Fact Shee	ts	30.3	29.1	42.0	30.0			
Pocket Guides		26.7	11.7 ^[3]	13.1 ^[3]	27.7 ^[1,2]			
Posters		12.8	4.0 ^[3,+]	5.3 [3]	13.5 ^[1,2]			
Summary Reports		25.5	40.9	8.5 ^[3]	25.3 [2]			
Training session/cla	SS	19.1	6.3 ^[3]	6.6 ^[3]	$20.0^{[1,2]}$			
Other		1.1	** [3]	$0.2^{[3,+]}$	$1.1^{[1,2]}$			

Note:

Estimates are generated from the 2006 Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation, Fire Department Survey.

Estimates within each column from the "Mark all that Apply" questions will not sum to 100. Estimates within each column from the other questions may not sum to 100 due to rounding.

The digits in square brackets beside an estimate [#] indicate the estimate is significantly different at the 95% confidence level from the corresponding estimate in column #. A plus sign within the square brackets [+] indicates the estimate has low precision.

** Estimate is less than 0.1 and therefore rounds to zero.

Logistic Regression Models

		P	Prevalence ^b Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		83.71%	(81.46%,85.95%)	0.927^{*}	(0.297,1.557)	83.71%	(81.46%,85.95%)		
Region (0.0756)	Northeast South Midwest	87.29% ³ 85.73% ³ 78.89% ^{1,2}	(82.97%,91.60%) (81.84%,89.61%) (74.68%,83.10%)	0.256 0.263 -0.228	(-0.385,0.897) (-0.332,0.857) (-0.796,0.340)	86.13% ³ 86.20% ³ 79.62% ^{1,2}	(81.44%,90.82%) (82.46%,89.95%) (75.52%,83.72%)	1.29 1.30 0.80	(0.68,2.45) (0.72,2.36) (0.45,1.40)
Department Type (0.2696)	All Career All Volunteer Combination	83.44% 91.47% ^{2,3} 84.79% ¹ 82.48% ¹	(76.78%,90.09%) (86.74%,96.19%) (80.66%,88.92%) (79.63%,85.34%)	-0.639 0.000 0.032	(-1.438,0.160) (0.000,0.000) (-0.388,0.451)	82.92% 73.73% 83.62% 84.02%	(76.17%,89.67%) (59.76%,87.70%) (79.10%,88.13%) (81.32%,86.73%)	0.53 1.00 1.03	(0.24,1.17) (0.68,1.57)
Jurisdiction Type (0.3002)	Urban Rural/Missing	92.97% ² 81.84% ¹	(89.73%,96.20%) (79.22%,84.46%)	0.364	(-0.325,1.052)	87.59% 83.26%	(80.75%,94.43%)	1.44	(0.72,2.86) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	97.71% ^{2,3} 93.08% ^{1,3} 78.99% ^{1,2}	(95.67%,99.76%) (90.70%,95.47%) (75.85%,82.14%)	2.550 [*] 1.215 [*] 0.000	(1.351,3.749) (0.704,1.726) (0.000,0.000)	97.96% ^{2,3} 92.73% ^{1,3} 79.36% ^{1,2}	(95.69%,100.00%) (89.88%,95.57%) (75.98%,82.73%)	12.81 [*] 3.37 [*] 1.00	(3.86,42.49) (2.02,5.62) n/a
FFFIPP/ Fatality (0.1173)	Fatality with Investigation Fatality - No Investigation No Fatality	91.96% ³ 92.68% ³ 83.55% ^{1,2}	(87.25%,96.66%) (88.03%,97.33%) (81.27%,85.84%)	0.264 0.726 [*] 0.000	(-0.413,0.941) (0.001,1.452) (0.000,0.000)	86.80% 91.14% ³ 83.63% ²	(79.52%,94.07%) (85.60%,96.68%) (81.35%,85.90%)	1.30 2.07 [*] 1.00	(0.66,2.56) (1.00,4.27) n/a
Who Completed Survey (Q62) (0.1538)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{83.63\%^2}{94.49\%^{1,4}}$ 89.69% 80.65% ²	(80.92%,86.34%) (86.84%,100.00%) (82.20%,97.18%) (75.40%,85.90%)	0.348 1.235 0.684 0.000	(-0.069,0.765) (-0.311,2.781) (-0.211,1.579) (0.000,0.000)	84.27% 92.68% ⁴ 88.11% 79.37% ²	(81.64%,86.91%) (82.63%,100.00%) (79.76%,96.45%) (73.83%,84.92%)	1.42 3.44 1.98 1.00	(0.93,2.15) (0.73,16.14) (0.81,4.85) n/a

Model 1: Q3. SOPs/SOGs in place for: Incident Command Systems

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	Ľ	Pre	valence ^b		Beta ^c		ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		69.67%	(66.93%,72.41%)	0.536*	(0.049,1.023)	69.67%	(66.93%,72.41%)		
Region	Northeast	77.89% ^{2,3,4}	(72.59%,83.19%)	0.635*	(0.147,1.123)	77.72% ^{2,3,4}	(72.31%,83.13%)	1.89*	(1.16,3.08)
(0.0183)	South Midwest	$66.32\%^{1}$ $68.65\%^{1}$	$\frac{(61.27\%, 71.37\%)}{(64.00\%, 73.31\%)}$	0.037	(-0.393, 0.468) (-0.220, 0.644)	$66.01\%^{1}$ $69.72\%^{1}$	(60.97%, 71.05%) (65.15%, 74.29%)	1.04	(0.68, 1.60) (0.80, 1.90)
	West	66.72% ¹	(58.81%,74.62%)	0.000	(0.000,0.000)	$65.18\%^{1}$	(57.07%,73.30%)	1.00	n/a
Department Type (0.2889)	All Career All Volunteer Combination	81.43% ^{2,3} 72.58% ¹ 67.12% ¹	(75.88%,86.97%) (67.74%,77.42%) (63.57%,70.68%)	-0.046 0.000 -0.253	(-0.599,0.507) (0.000,0.000) (-0.570,0.063)	72.00% 72.90% 67.77%	(61.47%,82.53%) (67.97%,77.83%) (64.16%,71.37%)	0.95 1.00 0.78	(0.55,1.66) n/a (0.57,1.07)
Jurisdiction Type (0.7210)	Urban Rural/Missing	79.10% ² 67.77% ¹	(74.02%,84.17%) (64.65%,70.90%)	0.078	(-0.349,0.505)	71.04%	(63.16%,78.91%) (66.47%,72,45%)	1.08	(0.71,1.66)
Jurisdiction Size ^f (0.0018)	50,000+ 5,000-50,000 0 - 5,000	87.47% ^{2,3} 77.06% ^{1,3} 65.69% ^{1,2}	(82.74%,92.20%) (73.08%,81.04%) (62.03%,69.34%)	1.073 [*] 0.454 [*] 0.000	(0.411,1.734) (0.134,0.773) (0.000,0.000)	85.18% ^{2,3} 75.71% ^{1,3} 66.59% ^{1,2}	(77.47%,92.89%) (71.17%,80.25%) (62.84%,70.34%)		(1.51,5.66) (1.14,2.17) n/a
FFFIPP/ Fatality (0.3184)	Fatality with Investigation Fatality - No Investigation No Fatality	80.83% ^{2,3} 68.70% ¹ 69.60% ¹	(73.98%,87.68%) (59.12%,78.28%) (66.82%,72.39%)	0.282 -0.214 0.000	(-0.197,0.762) (-0.686,0.258) (0.000,0.000)	75.15% 65.14% 69.69%	(66.65%,83.65%) (55.19%,75.09%) (66.91%,72.46%)	1.33 0.81 1.00	(0.82,2.14) (0.50,1.29) n/a
Who Completed Survey (Q62) (0.4662)	Fire Chief Safety Officer Training Officer Other/Missing	68.93% 80.63% 77.23% 68.36%	(65.61%,72.26%) (67.73%,93.53%) (67.93%,86.52%) (62.33%,74.39%)	0.075 0.510 0.414 0.000	(-0.257,0.407) (-0.414,1.434) (-0.213,1.041) (0.000,0.000)	69.39% 77.59% 75.92% 67.82%	(66.08%,72.70%) (62.51%,92.68%) (65.88%,85.96%) (61.73%,73.91%)	1.08 1.67 1.51 1.00	(0.77,1.50) (0.66,4.20) (0.81,2.83) n/a

Model 2: Q3. SOPs/SOGs in place for: Maintenance of SCBAs

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	~	Pre	evalence ^b	Ľ	Beta ^c	Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		78.82%	(76.38%,81.26%)	1.513*	(0.898,2.129)	78.82%	(76.38%,81.26%)		
Region (0.0002)	Northeast South	84.82% ³ 80.20% ³	(80.41%,89.24%) (75.95%,84.45%)	0.063	(-0.529,0.655) (-0.763,0.333)	84.38% ³ 80.39% ³	(79.82%,88.94%) (76.14%,84.64%)	1.07 0.81	(0.59,1.93) (0.47,1.40)
	Midwest West	70.87% ^{1,2,4} 83.43% ³	(66.20%,75.55%) (77.07%,89.80%)	-0.733 [*] 0.000	(-1.269,-0.197) (0.000,0.000)	71.06% ^{1,2,4} 83.54% ³	(66.41%,75.70%) (77.04%,90.04%)	$\frac{0.48^*}{1.00}$	(0.28,0.82) n/a
Department Type (0.7928)	All Career All Volunteer Combination	83.29% 79.31% 78.20%	(77.92%,88.66%) (74.83%,83.78%) (75.11%,81.29%)	-0.176 0.000 0.042	(-0.761,0.408) (0.000,0.000) (-0.315,0.399)	75.48% 78.50% 79.18%	(65.24%,85.72%) (73.82%,83.19%) (76.08%,82.27%)	0.84 1.00 1.04	(0.47,1.50) n/a (0.73,1.49)
Jurisdiction Type (0.8256)	Urban Rural/Missing	83.79% ² 77.82% ¹	(79.18%,88.40%) (75.04%,80.60%)	0.054	(-0.423,0.531)	79.56% 78.70%	(72.60%,86.53%) (76.04%,81.36%)	1.06	(0.65,1.70) n/a
Jurisdiction Size ^f (0.0008)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 92.29\%^{2,3}\\ \hline 82.84\%^{1,3}\\ \hline 76.50\%^{1,2}\end{array}$	(88.90%,95.68%) (79.31%,86.37%) (73.24%,79.76%)	1.348 [*] 0.379 [*] 0.000	(0.645,2.051) (0.024,0.734) (0.000,0.000)	$\frac{92.52\%^{2,3}}{82.61\%^{1,3}}$ $76.61\%^{1,2}$	(88.07%,96.97%) (78.72%,86.49%) (73.23%,79.99%)	$\frac{3.85^{*}}{1.46^{*}}$ 1.00	(1.91,7.78) (1.02,2.08) n/a
FFFIPP/ Fatality (0.1036)	Fatality with Investigation Fatality - No Investigation No Fatality	90.31% ³ 82.73% 78.70% ¹	(85.39%,95.23%) (75.13%,90.32%) (76.22%,81.18%)	0.639 [*] 0.102 0.000	(0.047,1.231) (-0.452,0.656) (0.000,0.000)	87.38% ³ 80.37% 78.76% ¹	(81.09%,93.67%) (72.15%,88.60%) (76.29%,81.23%)	1.89 [*] 1.11 1.00	(1.05,3.42) (0.64,1.93) n/a
Who Completed Survey (Q62) (0.5415)	Fire Chief Safety Officer Training Officer Other/Missing	78.60% 83.53% 74.41% 80.33%	(75.67%,81.52%) (70.72%,96.34%) (64.58%,84.23%) (75.06%,85.60%)	-0.025 -0.048 -0.422 0.000	(-0.416,0.367) (-1.107,1.011) (-1.038,0.194) (0.000,0.000)	79.18% 78.80% 72.11% 79.57%	(76.30%,82.06%) (62.37%,95.23%) (62.01%,82.21%) (74.11%,85.03%)	0.98 0.95 0.66 1.00	(0.66,1.44) (0.33,2.75) (0.35,1.21) n/a

Model 3: Q3. SOPs/SOGs in place for: Motor vehicle safety

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	C	Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		11.04%	(9.47%,12.61%)	-1.599 [*]	(-2.182,-1.015)	11.04%	(9.47%,12.61%)		
Region (0.0001)	Northeast South Midwest West	$\frac{9.75\%^4}{10.91\%^4}$ $\frac{7.54\%^4}{21.88\%^{1,2,3}}$	(6.24%,13.26%) (8.08%,13.73%) (5.26%,9.82%) (16.12%,27.64%)	-0.935 [*] -0.790 [*] -1.134 [*] 0.000	(-1.500,-0.371) (-1.285,-0.295) (-1.647,-0.622) (0.000,0.000)	$\frac{9.70\%^4}{10.87\%^4}$ $\frac{8.27\%^4}{19.36\%^{1,2,3}}$	(6.36%,13.05%) (8.13%,13.62%) (5.84%,10.70%) (14.47%,24.25%)	0.39 [*] 0.45 [*] 0.32 [*] 1.00	(0.22,0.69) (0.28,0.74) (0.19,0.54) n/a
Department Type (0.0000)	All Career All Volunteer Combination	$\begin{array}{r} 47.79\%^{2,3}\\ 14.15\%^{1,3}\\ 6.36\%^{1,2}\end{array}$	(40.96%,54.63%) (11.00%,17.29%) (4.56%,8.16%)	0.770^{*} 0.000 -0.535^{*}	(0.260,1.280) (0.000,0.000) (-0.939,-0.132)	$\begin{array}{r} 22.26\%^{2,3} \\ 12.57\%^{1,3} \\ 8.08\%^{1,2} \end{array}$	(15.06%,29.46%) (9.79%,15.34%) (5.99%,10.17%)	$\frac{2.16^{*}}{1.00}\\0.59^{*}$	(1.30,3.60) n/a (0.39,0.88)
Jurisdiction Type (0.0355)	Urban Rural/Missing	27.57% ² 7.71% ¹	(22.86%, 32.28%) (6.08%, 9.34%)	0.494 [*] 0.000	(0.034,0.955)	14.33% 9.77%	(10.33%,18.32%) (7.86%,11.69%)	1.64 [*] 1.00	(1.03,2.60) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{54.03\%^{2,3}}{19.66\%^{1,3}}$ $\frac{5.49\%^{1,2}}{}$	(47.40%,60.66%) (16.10%,23.21%) (3.80%,7.18%)	1.554 [*] 1.080 [*] 0.000	(0.923,2.184) (0.622,1.538) (0.000,0.000)	$\begin{array}{r} 23.54\%^3 \\ \hline 16.63\%^3 \\ \hline 6.77\%^{1,2} \end{array}$	(15.19%,31.90%) (13.11%,20.15%) (4.68%,8.86%)	$\frac{4.73^{*}}{2.95^{*}}$	(2.52,8.89) (1.86,4.66) n/a
FFFIPP/ Fatality (0.3776)	Fatality with Investigation Fatality - No Investigation No Fatality	24.33% ³ 18.05% 10.87% ¹	(17.27%,31.39%) (10.62%,25.49%) (9.28%,12.47%)	-0.238 0.319 0.000	(-0.760,0.284) (-0.315,0.954) (0.000,0.000)	9.19% 13.96% 11.03%	(5.49%,12.89%) (7.84%,20.08%) (9.43%,12.63%)	0.79 1.38 1.00	(0.47,1.33) (0.73,2.59) n/a
Who Completed Survey (Q62) (0.3010)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} \hline 8.53\%^{2,3,4} \\ \hline 31.35\%^{1,4} \\ \hline 17.47\%^{1} \\ \hline 14.83\%^{1,2} \end{array}$	(6.75%,10.30%) (17.25%,45.46%) (9.42%,25.52%) (11.09%,18.56%)	-0.286 0.454 -0.125 0.000	(-0.705,0.133) (-0.485,1.392) (-0.822,0.572) (0.000,0.000)	10.06% 17.41% 11.40% 12.53%	(8.17%,11.95%) (6.54%,28.28%) (5.91%,16.88%) (9.31%,15.75%)	0.75 1.57 0.88 1.00	(0.49,1.14) (0.62,4.02) (0.44,1.77) n/a

Model 4: Q3. SOPs/SOGs in place for: Participation in a personal physical fitness program

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		16.79%	(14.77%,18.82%)	-1.912*	(-2.449,-1.376)	16.79%	(14.77%,18.82%)		
Region	Northeast	$27.51\%^{2,3}$	(21.81%,33.20%)	0.516	(-0.003, 1.035)	$27.27\%^{2,3,4}$	(21.24%,33.29%)	1.68	(1.00,2.82)
(0.0000)	Midwest West	$\frac{9.34\%}{15.53\%^{1,2}}$	(0.87%, 11.81%) (12.14%, 18.92%) (15.02%, 26.92%)	-0.870 -0.187 0.000	(-0.659, 0.285) $(0,000, 0,000)$	$\frac{9.34\%}{16.40\%^{1,2}}$	(0.94%, 11.74%) (12.97%, 19.84%) (13.39%, 24.44%)	0.42	(0.20,0.08) (0.52,1.33) n/a
Department Type	All Career All Volunteer	$\frac{42.90\%^{2,3}}{17.73\%^{1}}$	(36.14%,49.67%) (14.13%,21.32%)	0.612 [*] 0.000	(0.107,1.117) (0.000,0.000)	27.86% ^{2,3} 18.18% ¹	(19.40%,36.32%) (14.42%,21.94%)	1.84 [*] 1.00	(1.11,3.05) n/a
Jurisdiction Type	Urban	29.59% ²	(11.58%,16.76%) (24.44%,34.73%)	-0.267	(-0.584,0.316)	14.82%	(12.22%,17.41%) (11.22%,19.95%)	0.77	(0.56,1.37)
(0.5591)	Rural/Missing	$14.22\%^{1}$	(12.01%,16.42%)	0.000	(0.000, 0.000)	17.22%	(14.74%,19.69%)	1.00	n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 50.09\%^{2,3}\\ 26.78\%^{1,3}\\ 11.03\%^{1,2}\end{array}$	(43.48%,56.69%) (22.71%,30.86%) (8.64%,13.42%)	1.615 [*] 0.976 [*] 0.000	(1.032,2.199) (0.607,1.344) (0.000,0.000)	37.97% ^{2,3} 25.18% ^{1,3} 11.72% ^{1,2}	(27.04%,48.91%) (20.82%,29.53%) (9.15%,14.30%)	5.03^{*} 2.65 [*] 1.00	(2.81,9.02) (1.84,3.83) n/a
FFFIPP/ Fatality (0.6508)	Fatality with Investigation Fatality - No Investigation No Fatality	32.01% ³ 24.53% 16.61% ¹	(24.18%,39.84%) (15.96%,33.10%) (14.55%,18.66%)	0.150 0.218 0.000	(-0.322,0.622) (-0.362,0.798) (0.000,0.000)	18.69% 19.63% 16.74%	(12.37%,25.01%) (11.78%,27.49%) (14.69%,18.80%)	1.16 1.24 1.00	(0.72,1.86) (0.70,2.22) n/a
Who Completed Survey (Q62)	Fire Chief Safety Officer Training Officer	16.04% ² 39.35% ^{1,3,4} 20.94% ²	(13.55%,18.53%) (24.19%,54.52%) (12.33%,29.55%)	0.176 0.966 [*] 0.244	(-0.219,0.570) (0.131,1.802) (-0.426,0.913)	16.78% 28.99% 17.65%	(14.32%,19.24%) (14.83%,43.14%) (9.93%,25.38%)	1.19 2.63 [*] 1.28	(0.80,1.77) $(1.14,6.06)$ $(0.65,2.49)$
(0.1505)	Otner/Missing	15.05%-	(11.10%,19.00%)	0.000	(0.000, 0.000)	14.6/%	(10.75%, 18.58%)	1.00	n/a

Model 5: Q3. SOPs/SOGs in place for: Participation in regular health screenings for cardiovascular disease (CVD)

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		40.42%	(37.70%,43.14%)	-0.168	(-0.642,0.307)	40.42%	(37.70%,43.14%)		
Region (0.0003)	Northeast South Midwest West	$\begin{array}{r} 48.26\%^{2,3}\\ \hline 35.64\%^{1,4}\\ \hline 33.85\%^{1,4}\\ \hline 54.97\%^{2,3}\end{array}$	(42.03%,54.48%) (30.73%,40.55%) (29.37%,38.33%) (46.83%,63.11%)	-0.334 -0.800* -0.777* 0.000	(-0.799,0.130) (-1.237,-0.362) (-1.205,-0.350) (0.000,0.000)	$\begin{array}{r} 45.67\%^{2,3}\\ \hline 35.98\%^{1,4}\\ \hline 36.42\%^{1,4}\\ \hline 52.98\%^{2,3}\end{array}$	(39.54%,51.80%) (31.21%,40.74%) (32.07%,40.76%) (44.92%,61.04%)	$0.72 \\ 0.45^* \\ 0.46^* \\ 1.00$	(0.45,1.14) (0.29,0.70) (0.30,0.70) n/a
Department Type (0.1561)	All Career All Volunteer Combination	$\begin{array}{r} 70.43\%^{2,3} \\ 45.61\%^{1,3} \\ 35.14\%^{1,2} \end{array}$	(63.86%,77.01%) (40.77%,50.45%) (31.63%,38.64%)	-0.369 0.000 -0.230	(-0.857,0.120) (0.000,0.000) (-0.520,0.061)	36.18% 43.66% 38.94%	(27.24%,45.12%) (38.85%,48.48%) (35.42%,42.45%)	0.69 1.00 0.79	(0.42,1.13) n/a (0.59,1.06)
Jurisdiction Type (0.0014)	Urban Rural/Missing	68.93% ² 34.67% ¹	(63.32%,74.54%) (31.60%,37.74%)	0.619 [*] 0.000	(0.239,1.000)	51.75% ² 38.27% ¹	(43.86%,59.64%) (35.22%,41.32%)	1.86 [*] 1.00	(1.27,2.72) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	89.37% ^{2,3} 60.80% ^{1,3} 29.42% ^{1,2}	(85.63%,93.11%) (56.35%,65.26%) (25.91%,32.94%)	2.385 [*] 1.104 [*] 0.000	(1.823,2.946) (0.810,1.398) (0.000,0.000)	81.95% ^{2,3} 56.94% ^{1,3} 31.79% ^{1,2}	(74.36%,89.55%) (51.84%,62.04%) (28.07%,35.51%)	$\frac{10.85^{*}}{3.02^{*}}$ 1.00	(6.19,19.03) (2.25,4.05) n/a
FFFIPP/ Fatality (0.1323)	Fatality with Investigation Fatality - No Investigation No Fatality	63.96% ³ 55.49% ³ 40.10% ^{1,2}	(55.66%,72.26%) (45.43%,65.54%) (37.33%,42.86%)	0.327 0.379 0.000	(-0.147,0.800) (-0.091,0.850) (0.000,0.000)	47.13% 48.26% 40.30%	(37.28%,56.99%) (38.55%,57.96%) (37.55%,43.06%)	1.39 1.46 1.00	(0.86,2.23) (0.91,2.34) n/a
Who Completed Survey (Q62) (0.0243)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} 37.08\%^{2,3} \\ 79.26\%^{1,3,4} \\ 53.49\%^{1,2} \\ 42.45\%^2 \end{array}$	(33.81%,40.35%) (64.75%,93.78%) (42.25%,64.73%) (36.23%,48.67%)	-0.074 1.458 [*] 0.273 0.000	(-0.406,0.257) (0.383,2.533) (-0.298,0.845) (0.000,0.000)	38.92% ² 71.16% ^{1,3,4} 46.24% ² 40.45% ²	(35.70%,42.13%) (51.63%,90.68%) (35.35%,57.13%) (34.47%,46.43%)	$ \begin{array}{r} 0.93 \\ 4.30^{*} \\ 1.31 \\ 1.00 \end{array} $	(0.67,1.29) (1.47,12.59) (0.74,2.33) n/a

Model 6: Q3. SOPs/SOGs in place for: Rapid Intervention Teams (RITs), also known as Rapid Intervention Crews (RICs) or Firefighter Assistance and Search Teams (FAST)

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c		ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		75.35%	(72.76%,77.95%)	0.568^{*}	(0.034,1.103)	75.35%	(72.76%,77.95%)		
Region (0.0403)	Northeast South Midwest	83.47% ^{2,3} 70.88% ¹ 74.59% ¹	(78.80%,88.14%) (65.97%,75.80%) (70.17%,79.01%)	0.472 -0.162 0.012	(-0.068,1.012) (-0.635,0.312) (-0.465,0.489)	82.39% ^{2,3} 71.65% ¹ 74.94% ¹	(77.38%,87.41%) (66.84%,76.46%) (70.56%,79.32%)	1.60 0.85 1.01	(0.93,2.75) (0.53,1.37) (0.63,1.63)
	West	74.95%	(67.47%,82.43%)	0.000	(0.000, 0.000)	74.72%	(67.25%,82.18%)	1.00	n/a
Department Type (0.4528)	All Career All Volunteer Combination	82.97% ^{2,3} 74.64% ¹ 75.13% ¹	(77.29%,88.65%) (69.82%,79.46%) (71.86%,78.40%)	-0.337 0.000 0.062	(-0.928,0.254) (0.000,0.000) (-0.280,0.404)	68.36% 74.86% 75.96%	(56.62%,80.09%) (69.92%,79.80%) (72.70%,79.23%)	0.71 1.00 1.06	(0.40,1.29) n/a (0.76,1.50)
Jurisdiction Type (0.3586)	Urban Rural/Missing	85.39% ² 73.33% ¹	(81.01%,89.77%) (70.34%,76.32%)	0.228	(-0.259,0.714)	78.77% 74.86%	(71.42%,86.12%) (72.02%,77.69%)	1.26 1.00	(0.77,2.04) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 90.37\%^{2,3}\\ 84.79\%^{1,3}\\ 70.58\%^{1,2}\end{array}$	(86.57%,94.16%) (81.40%,88.18%) (67.05%,74.11%)	1.532 [*] 0.795 [*] 0.000	(0.843,2.222) (0.431,1.158) (0.000,0.000)	$\frac{91.71\%^{2,3}}{84.19\%^{1,3}}$ $70.88\%^{1,2}$	(86.95%,96.48%) (80.37%,88.01%) (67.20%,74.55%)	4.63 [*] 2.21 [*] 1.00	(2.32,9.22) (1.54,3.18) n/a
FFFIPP/ Fatality (0.2825)	Fatality with Investigation Fatality - No Investigation No Fatality	83.19% ^{2,3} 71.71% ¹ 75.34% ¹	(76.74%,89.64%) (62.66%,80.76%) (72.70%,77.98%)	0.123 -0.361 0.000	(-0.395,0.640) (-0.839,0.118) (0.000,0.000)	77.53% 68.47% 75.41%	(69.05%,86.01%) (59.08%,77.86%) (72.78%,78.04%)	1.13 0.70 1.00	(0.67,1.90) (0.43,1.12) n/a
Who Completed Survey (Q62) (0.4287)	Fire Chief Safety Officer Training Officer Other/Missing	76.08% 81.43% 78.43% 71.15%	(72.99%,79.16%) (67.83%,95.03%) (69.04%,87.83%) (65.11%,77.19%)	0.282 0.393 0.333 0.000	(-0.074,0.639) (-0.560,1.347) (-0.329,0.994) (0.000,0.000)	76.34% 78.22% 77.20% 71.10%	(73.27%,79.41%) (63.18%,93.25%) (67.12%,87.29%) (65.06%,77.13%)	1.33 1.48 1.39 1.00	(0.93,1.89) (0.57,3.84) (0.72,2.70) n/a

Model 7: Q3. SOPs/SOGs in place for: Use of Personal Alert Safety System (PASS) devices

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	.	Pr	evalence ^b	•	Beta ^c	Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		89.12%	(87.25%,91.00%)	1.447^{*}	(0.761,2.133)	89.12%	(87.25%,91.00%)		
Region (0.0017)	Northeast South	94.71% ^{2,3,4} 89.49% ¹	(92.05%,97.37%) (86.16%,92.81%)	0.945^{*}	(0.200, 1.689) (-0.416.0.861)	94.68% ^{2,3,4} 89.70% ¹	(92.07%,97.29%) (86.41% 92.98%)	2.57 [*] 1.25	(1.22,5.41) (0.66,2.36)
(0.0017)	Midwest West	85.17% ¹ 87.75% ¹	(81.48%,88.87%) (82.15%,93.36%)	-0.210	$\begin{array}{r} (0.000, 0.001) \\ \hline (0.000, 0.000) \\ \hline \end{array}$	85.05% ¹ 87.49% ¹	(81.27%,88.83%) (81.74%,93.24%)	0.81	(0.43,1.51) n/a
Department Type (0.7402)	All Career All Volunteer Combination	94.11% ^{2,3} 89.13% ¹ 88.72% ¹	(90.63%,97.58%) (85.72%,92.54%) (86.33%,91.11%)	0.324 0.000 -0.005	(-0.510,1.159) (0.000,0.000) (-0.484,0.473)	91.79% 89.06% 89.01%	(85.71%,97.86%) (85.49%,92.63%) (86.54%,91.47%)	1.38 1.00 0.99	(0.60,3.19) n/a (0.62,1.61)
Jurisdiction Type (0.2064)	Urban Rural/Missing	91.36% 88.67%	(87.70%,95.02%) (86.55%,90.80%)	-0.433	(-1.105,0.239)	85.00% 89.59%	(77.39%,92.61%) (87.63%,91.55%)	0.65	(0.33,1.27) n/a
Jurisdiction Size ^f (0.0016)	50,000+ 5,000-50,000 0 - 5,000	96.79% ^{2,3} 93.07% ^{1,3} 87.07% ^{1,2}	(94.60%,98.98%) (90.63%,95.50%) (84.51%,89.63%)	1.772 [*] 0.773 [*] 0.000	(0.731,2.813) (0.224,1.323) (0.000,0.000)	97.42% ^{2,3} 93.34% ^{1,3} 86.76% ^{1,2}	(95.04%,99.79%) (90.68%,96.00%) (83.90%,89.61%)	5.88^{*} 2.17 [*] 1.00	(2.08,16.65) (1.25,3.75) n/a
FFFIPP/ Fatality (0.2439)	Fatality with Investigation Fatality - No Investigation No Fatality	96.34% ³ 90.20% 89.06% ¹	(93.06%,99.62%) (84.21%,96.20%) (87.16%,90.97%)	0.812 -0.053 0.000	(-0.143,1.767) (-0.806,0.700) (0.000,0.000)	94.77% ³ 88.59% 89.10% ¹	(90.17%,99.38%) (81.44%,95.75%) (87.20%,91.00%)	2.25 0.95 1.00	(0.87,5.86) (0.45,2.01) n/a
Who Completed Survey (Q62) (0.3162)	Fire Chief Safety Officer Training Officer Other/Missing	89.83% 90.62% 90.63% 86.07%	(87.66%,92.00%) (80.74%,100.00%) (83.52%,97.74%) (81.51%,90.63%)	0.437 0.206 0.431 0.000	(-0.024,0.898) (-1.084,1.495) (-0.511,1.372) (0.000,0.000)	90.08% 87.88% 90.03% 85.59%	(87.96%,92.21%) (75.01%,100.00%) (82.51%,97.55%) (80.91%,90.26%)	1.55 1.23 1.54 1.00	(0.98,2.45) (0.34,4.46) (0.60,3.94) n/a

Model 8: Q3. SOPs/SOGs in place for: Use of personal protective equipment and protective clothing

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pro	evalence ^b	Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		84.79%	(82.67%,86.92%)	1.516^{*}	(0.891,2.140)	84.79%	(82.67%,86.92%)		
Region (0.0001)	Northeast South Midwest West	$\frac{91.77\%^{2,3}}{85.52\%^{1,3}}$ $\frac{78.06\%^{1,2,4}}{86.60\%^3}$	(88.54%,94.99%) (81.73%,89.30%) (73.83%,82.30%) (80.87%,92.32%)	0.545 -0.060 -0.587 [*] 0.000	(-0.122,1.212) (-0.647,0.527) (-1.156,-0.017) (0.000,0.000)	91.62% ^{2,3} 85.71% ^{1,3} 78.12% ^{1,2,4} 86.43% ³	(88.30%,94.93%) (81.98%,89.45%) (73.88%,82.37%) (80.59%,92.27%)	$ \begin{array}{r} 1.73 \\ 0.94 \\ 0.56^* \\ 1.00 \end{array} $	(0.89,3.36) (0.52,1.69) (0.31,0.98) n/a
Department Type (0.8470)	All Career All Volunteer Combination	88.07% 84.98% 84.43%	(83.38%,92.76%) (81.16%,88.79%) (81.70%,87.15%)	-0.148 0.000 0.050	(-0.810,0.514) (0.000,0.000) (-0.345,0.444)	82.50% 84.47% 85.09%	(73.79%,91.21%) (80.48%,88.46%) (82.40%,87.78%)	0.86 1.00 1.05	(0.44,1.67) n/a (0.71,1.56)
Jurisdiction Type (0.2160)	Urban Rural/Missing	87.50% 84.25%	(83.57%,91.43%) (81.82%,86.67%)	-0.345	(-0.892,0.202)	80.68% 85.33%	(73.21%,88.14%) (83.07%,87.59%)	0.71	(0.41,1.22) n/a
Jurisdiction Size ^f (0.0001)	50,000+ 5,000-50,000 0 - 5,000	94.96% ^{2,3} 89.58% ^{1,3} 82.27% ^{1,2}	(92.19%,97.73%) (86.82%,92.34%) (79.37%,85.16%)	1.795 [*] 0.731 [*] 0.000	(0.937,2.653) (0.286,1.176) (0.000,0.000)	96.31% ^{2,3} 90.12% ^{1,3} 81.68% ^{1,2}	(93.56%,99.07%) (87.10%,93.13%) (78.51%,84.85%)	$\frac{6.02^{*}}{2.08^{*}}$ 1.00	(2.55,14.19) (1.33,3.24) n/a
FFFIPP/ Fatality (0.5698)	Fatality with Investigation Fatality - No Investigation No Fatality	91.24% ³ 88.89% 84.70% ¹	(86.30%,96.17%) (83.44%,94.34%) (82.55%,86.86%)	0.314 0.183 0.000	(-0.352,0.981) (-0.442,0.808) (0.000,0.000)	88.30% 86.91% 84.76%	(81.72%,94.87%) (80.24%,93.58%) (82.61%,86.90%)	1.37 1.20 1.00	(0.70,2.67) (0.64,2.24) n/a
Who Completed Survey (Q62) (0.8006)	Fire Chief Safety Officer Training Officer Other/Missing	85.01% 90.08% 84.54% 83.44%	(82.50%,87.52%) (79.66%,100.00%) (76.18%,92.90%) (78.53%,88.35%)	0.190 0.330 0.035 0.000	(-0.229,0.609) (-0.923,1.584) (-0.716,0.787) (0.000,0.000)	85.37% 86.99% 83.40% 82.93%	(82.92%,87.83%) (73.70%,100.00%) (74.57%,92.24%) (77.92%,87.93%)	1.21 1.39 1.04 1.00	(0.80,1.84) (0.40,4.87) (0.49,2.20) n/a

Model 9: Q3. SOPs/SOGs in place for: Use of radio communications

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).
	L	Pre	evalence ^b	· ·	Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		8.73%	(7.10%,10.36%)	-2.509*	(-3.230,-1.787)	8.73%	(7.10%,10.36%)		
Region	Northeast	12.17% ^{2,3}	(7.86%,16.49%)	0.083	(-0.633,0.799)	11.61%	(7.27%,15.95%)	1.09	(0.53,2.22)
(0.1398)	South Midwest	$6.72\%^{1}$ $7.17\%^{1}$	(4.25%,9.19%) (4.74%,9.60%)	-0.517 -0.389	(-1.173,0.139) (-1.052,0.275)	6.81% 7.66%	(4.29%, 9.34%) (5.07%, 10.24%)	0.60	$(0.31,1.15) \\ (0.35,1.32)$
	West	11.75%	(6.65%,16.84%)	0.000	(0.000, 0.000)	10.81%	(5.76%,15.86%)	1.00	n/a
Department Type	All Career	$12.48\%^{3}$	(8.16%, 16.81%) (7.15% 13.54%)	-0.376	(-1.013,0.262)	7.31%	(3.28%,11.33%) (6.83%,13.56%)	0.69	(0.36,1.30)
(0.3789)	Combination	7.53% ¹	(5.58%,9.49%)	-0.267	(-0.784.0.249)	8.06%	(5.88%, 10.23%)	0.77	(0.46.1.28)
Jurisdiction Type	Urban	14.20% ²	(9.92%,18.48%)	0.140	(-0.428,0.707)	9.58%	(5.56%,13.59%)	1.15	(0.65,2.03)
(0.0293)	Rural/Missing	7.02%	(3.87%,9.38%)	0.000	(0.000,0.000)	0.47%	(0.34%,10.39%)	1.00	II/a
Jurisdiction Size ^f (0.0162)	50,000+ 5,000-50,000	$ \begin{array}{r} 16.78\%^{3} \\ \hline 13.46\%^{3} \\ 6.31\%^{1.2} \\ \end{array} $	(11.45%,22.11%) (10.20%,16.71%) (4.38%,8.25%)	0.861^{*} 0.725^{*}	$(0.074, 1.648) \\ (0.217, 1.232) \\ (0.000, 0.000)$	$ \begin{array}{r} 14.15\% \\ 12.60\%^3 \\ \hline 6.59\%^2 \end{array} $	(6.26%,22.03%) (9.08%,16.12%) (4.48% 8.70%)	$\frac{2.36^{*}}{2.06^{*}}$	(1.08,5.20) (1.24,3.43)
FFFIPP/ Fatality	Fatality with Investigation	9.53%	(4.62%,14.43%)	-0.246	(-0.883,0.391)	7.02%	(3.02%,11.02%)	0.78	(0.41,1.48)
(0.7348)	Fatality - No Investigation No Fatality	9.49% 8.71%	(3.81%,15.16%) (7.06%,10.37%)	-0.097 0.000	(-0.804,0.609) (0.000,0.000)	8.03% 8.75%	(3.17%,12.89%) (7.10%,10.41%)	0.91	(0.45,1.84) n/a
Who Completed	Fire Chief Safety Officer	$\frac{8.39\%^2}{23.05\%^{1,4}}$	(6.41%,10.38%) (8.97%,37.12%)	$0.253 \\ 1.166^*$	(-0.273,0.780) (0.245,2.086)	8.67% 18.69%	(6.61%,10.72%) (6.35%,31.03%)	<u>1.29</u> 3.21 [*]	(0.76,2.18) (1.28,8.05)
Survey (Q62) (0.0967)	Training Officer Other/Missing	$\frac{11.64\%}{7.05\%^2}$	(4.86%,18.42%) (4.17%,9.92%)	0.430 0.000	(-0.380,1.240) (0.000,0.000)	10.13% 6.89%	(3.92%,16.34%) (4.07%,9.71%)	1.54 1.00	(0.68,3.46) n/a

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Model 10: Q3. SOPs/SOGs in place for: Other (Please specify:____

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		4.99%	(3.65%,6.33%)	-1.795*	(-2.772,-0.817)	4.99%	(3.65%,6.33%)		
Region (0.0041)	Northeast South Midwest West	$\frac{1.05\%^{2.3.4}}{4.60\%^1}$ $\frac{7.86\%^1}{6.14\%^1}$	(0.00%,2.24%) (2.22%,6.97%) (5.05%,10.67%) (1.78%,10.50%)	-1.706 [*] -0.379 0.323 0.000	(-3.091,-0.321) (-1.323,0.565) (-0.550,1.195) (0.000,0.000)	$\frac{1.17\%^{2,3,4}}{4.23\%^{1,3}}$ $\frac{8.08\%^{1,2}}{6.02\%^{1}}$	(0.00%,2.49%) (2.11%,6.34%) (5.21%,10.94%) (1.72%,10.32%)	$ \begin{array}{r} 0.18^{*} \\ 0.68 \\ 1.38 \\ 1.00 \end{array} $	(0.05,0.73) (0.27,1.76) (0.58,3.30) n/a
Department Type (0.7060)	All Career All Volunteer Combination	2.15% 5.55% 4.91%	(0.00%,4.67%) (2.89%,8.21%) (3.29%,6.53%)	-0.300 0.000 -0.257	(-1.767,1.168) (0.000,0.000) (-0.932,0.418)	4.42% 5.82% 4.60%	(0.00%,10.54%) (2.99%,8.66%) (3.01%,6.18%)	0.74 1.00 0.77	(0.17,3.21) n/a (0.39,1.52)
Jurisdiction Type (0.8469)	Urban Rural/Missing	2.22% ² 5.55% ¹	(0.26%,4.18%) (3.98%,7.12%)	-0.122 0.000	(-1.356,1.113) (0.000,0.000)	4.50% 5.04%	(0.00%,9.40%)	0.89 1.00	(0.26,3.04) n/a
Jurisdiction Size ^f (0.0142)	5,000+ 0 - 5,000	1.95% ² 6.46% ¹	(0.70%,3.19%) (4.56%,8.36%)	-1.205 [*] 0.000	(-2.168,-0.242)	2.02% ² 6.34% ¹	(0.45%,3.60%) (4.25%,8.42%)	0.30 [*] 1.00	(0.11,0.79) n/a
FFFIPP/ Fatality (0.0092)	Fatality No Fatality	0.60% ² 5.07% ¹	(0.00%,1.44%)	-1.909 [*] 0.000	(-3.345,-0.474)	0.80% ² 5.05% ¹	(0.00%,1.92%)	0.15 [*] 1.00	(0.04,0.62) n/a
Who Completed Survey (Q62) (0.2186)	Fire Chief Safety Officer Training Officer Other/Missing	4.32% 3.43% 5.11% 7.42%	(2.84%,5.80%) (0.00%,10.01%) (0.00%,10.86%) (3.83%,11.00%)	-0.686 [*] -0.571 -0.389 0.000	(-1.329,-0.043) (-2.627,1.485) (-1.735,0.956) (0.000,0.000)	4.18% 4.66% 5.51% 7.82%	(2.75%,5.62%) (0.00%,13.31%) (0.00%,11.67%) (4.11%,11.54%)	$ \begin{array}{r} 0.50^{*} \\ 0.56 \\ 0.68 \\ 1.00 \end{array} $	(0.26,0.96) (0.07,4.42) (0.18,2.60) n/a

WIDDEI 11: U.S. SUPS/SUGS in place for: Does not apply	y. Our fire department does not use SOFS/SOG
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^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		1.14%	(0.49%,1.78%)	-2.883*	(-4.057,-1.709)	1.14%	(0.49%,1.78%)		
Region	Northeast	0.46%	(0.00%,1.26%)	-1.255	(-3.316,0.806)	0.63%	(0.00%,1.68%)	0.29	(0.04,2.24)
(0.3890)	South Midwest	1.54% 0.59%	(0.09%, 3.00%) $(0.00%, 1.31%)$	-0.369 -1.274	(-1.765, 1.027) (-2.983, 0.435)	1.44% 0.62%	(0.18%, 2.70%) $(0.00%, 1.38%)$	0.69	$(0.17,2.79) \\ (0.05,1.54)$
	West	2.56%	(0.15%,4.96%)	0.000	(0.000, 0.000)	2.03%	(0.01%,4.05%)	1.00	n/a
Department Type	All Career All Volunteer	3.00% 1.19%	(0.00%,6.36%) (0.00%,2.45%)	4.259 [*] 0.000	(2.518,6.000) (0.000,0.000)	31.63% ^{2,3} 1.07% ¹	(5.87%,57.38%) (0.00%,2.21%)	70.72 [*] 1.00	(12.40,403.36) n/a
(0.0000)	Combination	0.96%	(0.20%,1.71%)	-0.122	(-1.537,1.293)	0.95%1	(0.18%,1.72%)	0.89	(0.22,3.64)
Jurisdiction	Urban	0.24% ²	(0.00%,0.60%)	-1.992*	(-3.857,-0.128)	$0.22\%^{2}$	(0.00%,0.55%)	0.14*	(0.02,0.88)
(0.0362)	Rural/Missing	$1.32\%^{1}$	(0.54%,2.09%)	0.000	(0.000, 0.000)	1.31% ¹	(0.59%,2.02%)	1.00	n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 0.43\% \\ 0.09\%^3 \\ 1.63\%^2 \end{array}$	(0.00%,1.28%) (0.00%,0.28%) (0.67%,2.59%)	-4.391 [*] -3.957 [*] 0.000	(-6.821,-1.961) (-6.034,-1.880) (0.000,0.000)	$\begin{array}{r} 0.05\%^3\\ 0.07\%^3\\ 2.52\%^{1,2}\end{array}$	(0.00%,0.15%) (0.00%,0.21%) (1.12%,3.93%)	$\frac{0.01^{*}}{0.02^{*}}$ 1.00	(0.00,0.14) (0.00,0.15) n/a
FFFIPP/ Fatality (0.0841)	Fatality with Investigation Fatality - No Investigation No Fatality	1.88% 3.50% 1.11%	(0.00%,4.51%) (0.00%,7.38%) (0.45%,1.76%)	1.267 1.388 0.000	(-0.408,2.941) (-0.021,2.797) (0.000,0.000)	3.47% 3.87% 1.10%	(0.00%,8.31%) (0.00%,8.12%) (0.44%,1.76%)	3.55 4.01 1.00	(0.67,18.93) (0.98,16.40) n/a
Who	Fire Chief	0.75%	(0.12%,1.37%)	-0.904	(-2.189,0.381)	0.83%	(0.15%,1.50%)	0.40	(0.11,1.46)
Completed Survey (Q62)	Satety Officer Training Officer,	1.29%	(0.00%,3.83%)	-1.170	(-2.524,0.183)	0.65%	(0.00%,1.38%)	0.31	(0.08,1.20)
(0.1793)	Other or Missing	2.13%	(0.39%,3.87%)	0.000	(0.000, 0.000)	1.91%	(0.27%, 3.56%)	1.00	n/a

Model 12: Q4. Firefighters receive training in: Fighting structure fires, No Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	(Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		16.74%	(14.50%,18.98%)	-1.359 [*]	(-2.025,-0.693)	16.74%	(14.50%,18.98%)		
Region (0.0054)	Northeast South Midwest West	$\frac{15.21\%^3}{13.16\%^3}$ $\frac{23.32\%^{1,2,4}}{13.15\%^3}$	(10.73%,19.69%) (9.43%,16.89%) (18.95%,27.69%) (7.04%,19.26%)	0.253 -0.054 0.668 [*] 0.000	(-0.405,0.911) (-0.692,0.584) (0.064,1.272) (0.000,0.000)	$\frac{16.46\%}{12.76\%^3}$ $\frac{22.68\%^{2.4}}{13.36\%^3}$	(11.58%,21.34%) (9.08%,16.44%) (18.42%,26.94%) (7.24%,19.48%)	1.29 0.95 1.95 [*] 1.00	(0.67,2.49) (0.50,1.79) (1.07,3.57) n/a
Department Type (0.8407)	All Career All Volunteer Combination	4.96% ^{2,3} 15.61% ¹ 18.29% ¹	(1.88%,8.03%) (11.53%,19.70%) (15.41%,21.18%)	-0.211 0.000 -0.083	(-1.061,0.638) (0.000,0.000) (-0.492,0.327)	14.82% 17.54% 16.43%	(4.62%,25.02%) (12.93%,22.15%) (13.72%,19.15%)	0.81 1.00 0.92	(0.35,1.89) n/a (0.61,1.39)
Jurisdiction Type (0.1906)	Urban Rural/Missing	6.73% ² 18.75% ¹	(3.53%,9.94%) (16.14%,21.37%)	-0.447	(-1.116,0.223)	11.97% 17.29%	(5.47%,18.47%) (14.86%,19.72%)	0.64	(0.33,1.25) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{2.57\%^{2,3}}{7.59\%^{1,3}}$ 21.41% ^{1,2}	(0.25%,4.90%) (5.10%,10.07%) (18.26%,24.57%)	-1.807 [*] -1.059 [*] 0.000	(-2.979,-0.636) (-1.529,-0.590) (0.000,0.000)	$\frac{4.13\%^3}{8.30\%^3}$ 20.44\%^{1,2}	(0.00%,8.60%) (5.32%,11.29%) (17.21%,23.66%)	$\frac{0.16^{*}}{0.35^{*}}$ 1.00	(0.05,0.53) (0.22,0.55) n/a
FFFIPP/ Fatality (0.1790)	Fatality with Investigation Fatality - No Investigation No Fatality	7.68% ^{2,3} 20.20% ¹ 16.77% ¹	(3.02%,12.34%) (11.62%,28.79%) (14.49%,19.05%)	-0.322 0.470 0.000	(-1.007,0.362) (-0.127,1.068) (0.000,0.000)	12.83% 23.79% 16.69%	(5.64%,20.02%) (14.09%,33.49%) (14.42%,18.96%)	0.72 1.60 1.00	(0.37,1.44) (0.88,2.91) n/a
Who Completed Survey (Q62) (0.7191)	Fire Chief Safety Officer Training Officer Other/Missing	17.32% 7.96% 12.48% 17.31%	(14.57%,20.06%) (0.00%,17.02%) (4.94%,20.02%) (12.38%,22.24%)	-0.165 -0.629 -0.275 0.000	(-0.591,0.260) (-1.955,0.697) (-1.073,0.522) (0.000,0.000)	16.49% 11.23% 15.09% 18.76%	(13.82%,19.15%) (0.00%,23.61%) (6.33%,23.85%) (13.45%,24.08%)	0.85 0.53 0.76 1.00	(0.55,1.30) (0.14,2.01) (0.34,1.69) n/a

Model 13: Q4. Firefighters receive training in: Fighting structure fires, Optional Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	t	Pr	evalence ^b		Beta ^c	Predic	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		82.81%	(80.54%,85.08%)	1.057^{*}	(0.422,1.691)	82.81%	(80.54%,85.08%)		
Region (0.0152)	Northeast South Midwest	84.87% ³ 85.88% ³ 76.86% ^{1,2,4} 85.28% ³	(80.39%,89.35%) (82.02%,89.74%) (72.51%,81.21%) (78.99%,91.57%)	-0.128 0.122 -0.535 0.000	(-0.759,0.504) (-0.483,0.727) (-1.108,0.038) (0.000,0.000)	83.43% 86.49% ³ 77.36% ^{2,4} 85.06% ³	(78.50%,88.36%) (82.75%,90.24%) (73.13%,81.60%) (78.83%,91.29%)	0.88 1.13 0.59	$(0.47,1.66) \\ (0.62,2.07) \\ (0.33,1.04) \\ n/a$
Department Type (0.7074)	All Career All Volunteer Combination	$\begin{array}{r} 93.26\%^{2,3}\\\hline 83.47\%^{1}\\\hline 81.61\%^{1}\end{array}$	(78.35%,97.26%) (79.30%,87.63%) (78.72%,84.50%)	-0.182 0.000 0.134	(-1.010,0.646) (0.000,0.000) (-0.272,0.540)	78.93% 81.62% 83.45%	(66.19%,91.66%) (76.94%,86.30%) (80.72%,86.18%)	0.83 1.00 1.14	(0.36,1.91) n/a (0.76,1.72)
Jurisdiction Type (0.1391)	Urban Rural/Missing	93.39% ² 80.68% ¹	(90.20%,96.57%) (78.03%,83.33%)	0.525	(-0.171,1.221)	88.40% 82.15%	(81.83%,94.98%) (79.68%,84.62%)	1.69 1.00	(0.84,3.39) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	96.99% ^{2,3} 92.75% ^{1,3} 77.78% ^{1,2}	(94.53%,99.46%) (90.30%,95.19%) (74.59%,80.97%)	2.005 [*] 1.177 [*] 0.000	(0.893,3.118) (0.697,1.658) (0.000,0.000)	96.38% ^{2,3} 92.12% ^{1,3} 78.58% ^{1,2}	(92.67%,100.00%) (89.21%,95.04%) (75.26%,81.91%)	$\frac{7.43^{*}}{3.25^{*}}$ 1.00	(2.44,22.59) (2.01,5.25) n/a
FFFIPP/ Fatality (0.0716)	Fatality with Investigation Fatality - No Investigation No Fatality	90.44% ^{2,3} 76.29% ¹ 82.82% ¹	(85.19%,95.68%) (67.23%,85.36%) (80.52%,85.13%)	0.091 -0.652 [*] 0.000	(-0.550,0.732) (-1.220,-0.084) (0.000,0.000)	84.09% 72.50% ³ 82.90% ²	(76.15%,92.02%) (62.55%,82.44%) (80.60%,85.19%)	$\frac{1.10}{0.52^{*}}$ 1.00	(0.58,2.08) (0.30,0.92) n/a
Who Completed Survey (Q62) (0.3210)	Fire Chief Safety Officer Training Officer Other/Missing	82.67% 90.75% 88.81% 80.29%	(79.92%,85.42%) (81.41%,100.00%) (81.59%,96.02%) (75.07%,85.51%)	0.314 0.654 0.582 0.000	(-0.101,0.729) (-0.555,1.864) (-0.252,1.416) (0.000,0.000)	83.42% 87.45% 86.66% 78.89%	(80.75%,86.09%) (75.14%,99.75%) (78.24%,95.09%) (73.31%,84.48%)	1.37 1.92 1.79 1.00	(0.90,2.07) (0.57,6.45) (0.78,4.12) n/a

Model 14: Q4. Firefighters receive training in: Fighting structure fires, Required Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b	<u> </u>	Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		3.93%	(2.73%,5.14%)	-1.828^{*}	(-2.845,-0.810)	3.93%	(2.73%,5.14%)		
Region (0.0027)	Northeast South	$\frac{1.02\%^{3,4}}{2.42\%^3}$	(0.00%,2.18%) (0.64%,4.20%)	-1.837 [*] -1.165 [*]	(-3.225,-0.449) (-2.197,-0.132)	$\frac{1.16\%^{3,4}}{2.24\%^3}$	(0.00%,2.48%) (0.67%,3.80%)	0.16^{*} 0.31^{*}	(0.04,0.64) (0.11,0.88)
	Midwest West	$\frac{6.58\%^{1,2}}{6.89\%^{1}}$	(3.98%,9.18%) (2.12%,11.66%)	-0.015 0.000	(-0.898,0.868) (0.000,0.000)	$\frac{6.64\%^{1,2}}{6.73\%^{1}}$	(3.98%,9.31%) (2.07%,11.40%)	0.99	(0.41,2.38) n/a
Department Type (0.3346)	All Career All Volunteer Combination	2.52% 4.06% 3.98%	(0.43%,4.60%) (1.71%,6.41%) (2.50%,5.45%)	0.622 0.000 -0.326	(-0.616,1.859) (0.000,0.000) (-1.093,0.442)	8.23% 4.74% 3.50%	(0.00%,16.76%) (1.98%,7.49%) (2.18%,4.82%)	1.86 1.00 0.72	(0.54,6.42) n/a (0.34,1.56)
Jurisdiction Type (0.2041)	Urban Rural/Missing	1.20% ² 4.49% ¹	(0.16%,2.23%)	-0.635	(-1.616,0.346)	2.25% 4.10%	(0.20%,4.29%)	0.53	(0.20,1.41) n/a
Jurisdiction Size ^f (0.0016)	50,000+ 5,000-50,000 0 - 5,000	$\frac{1.40\%^3}{1.18\%^3}$ 5.28\% ^{1,2}	(0.10%,2.69%) (0.26%,2.10%) (3.53%,7.03%)	-1.773 [*] -1.475 [*] 0.000	(-3.176,-0.369) (-2.378,-0.572) (0.000,0.000)	$\frac{0.95\%^3}{1.27\%^3}\\5.21\%^{1,2}$	(0.00%,2.16%) (0.27%,2.27%) (3.45%,6.97%)	0.17 [*] 0.23 [*] 1.00	(0.04,0.69) (0.09,0.56) n/a
FFFIPP/ Fatality (0.9421)	Fatality with Investigation Fatality - No Investigation No Fatality	2.21% 3.71% 3.95%	(0.00%,4.73%) (0.00%,7.57%) (2.72%,5.17%)	-0.000 0.204 0.000	(-1.219,1.219) (-0.956,1.363) (0.000,0.000)	3.92% 4.74% 3.93%	(0.00%,8.30%) (0.00%,9.56%) (2.71%,5.14%)	1.00 1.23 1.00	(0.30,3.38) (0.38,3.91) n/a
Who Completed Survey (Q62) (0.8561)	Fire Chief Safety Officer Training Officer Other/Missing	3.78% 3.76% 3.40% 4.62%	(2.37%,5.19%) (0.00%,10.36%) (0.00%,7.27%) (1.64%,7.61%)	-0.329 -0.085 -0.404 0.000	(-1.115,0.457) (-2.030,1.859) (-1.805,0.997) (0.000,0.000)	3.67% 4.61% 3.43% 4.98%	(2.30%,5.05%) (0.00%,12.48%) (0.00%,7.43%) (1.87%,8.10%)	0.72 0.92 0.67 1.00	(0.33,1.58) (0.13,6.42) (0.16,2.71) n/a

Model 15: Q4. Firefighters receive training in: Driving safety, No Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	(Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		18.56%	(16.18%,20.95%)	-1.848*	(-2.560,-1.136)	18.56%	(16.18%,20.95%)		
Region (0.0209)	Northeast South Midwest West	$\frac{19.69\%^4}{16.12\%^3}$ $\frac{23.73\%^{2.4}}{10.85\%^{1.3}}$	(14.45%,24.93%) (12.09%,20.14%) (19.28%,28.19%) (5.16%,16.55%)	0.725 [*] 0.416 0.879 [*] 0.000	(0.038,1.413) (-0.246,1.078) (0.231,1.527) (0.000,0.000)	$\frac{20.46\%^4}{15.98\%^3}$ $\frac{23.01\%^{2.4}}{11.21\%^{1.3}}$	(14.97%,25.96%) (11.96%,20.00%) (18.65%,27.37%) (5.40%,17.03%)	2.06 [*] 1.52 2.41 [*] 1.00	(1.04,4.11) (0.78,2.94) (1.26,4.60) n/a
Department Type (0.7753)	All Career All Volunteer Combination	7.12% ^{2,3} 17.39% ¹ 20.14% ¹	(3.51%,10.72%) (12.97%,21.81%) (17.11%,23.16%)	-0.266 0.000 -0.046	(-1.009,0.476) (0.000,0.000) (-0.442,0.350)	15.43% 19.11% 18.43%	(6.11%,24.75%) (14.23%,23.99%) (15.53%,21.34%)	0.77 1.00 0.96	(0.36,1.61) n/a (0.64,1.42)
Jurisdiction Type (0.4598)	Urban Rural/Missing	10.79% ² 20.14% ¹	(6.68%,14.90%) (17.39%,22.88%)	-0.210	(-0.767,0.347)	15.99% 18.92%	(9.16%,22.82%) (16.34%,21.50%)	0.81	(0.46,1.41) n/a
Jurisdiction Size ^f (0.0008)	50,000+ 5,000-50,000 0 - 5,000	$\frac{4.09\%^{2,3}}{11.75\%^{1,3}}$ 22.24% ^{1,2}	(1.21%,6.96%) (8.68%,14.83%) (18.97%,25.50%)	-1.305 [*] -0.684 [*] 0.000	(-2.258,-0.352) (-1.078,-0.290) (0.000,0.000)	7.03% ³ 12.27% ³ 21.53% ^{1,2}	(1.10%,12.95%) (8.87%,15.68%) (18.20%,24.86%)		(0.10,0.70) (0.34,0.75) n/a
FFFIPP/ Fatality (0.0709)	Fatality with Investigation Fatality - No Investigation No Fatality	5.82% ^{2,3} 15.99% ¹ 18.68% ¹	(1.87%,9.78%) (8.47%,23.51%) (16.26%,21.11%)	-0.892* -0.035 0.000	(-1.652,-0.132) (-0.653,0.583) (0.000,0.000)	8.74% ³ 18.11% 18.62% ¹	(2.87%,14.61%) (9.54%,26.67%) (16.20%,21.03%)	0.41 [*] 0.97 1.00	(0.19,0.88) (0.52,1.79) n/a
Who Completed Survey (Q62) (0.6309)	Fire Chief Safety Officer Training Officer Other/Missing	20.04% ² 7.58% ¹ 12.59% 16.96%	(17.10%,22.99%) (0.00%,16.71%) (4.92%,20.27%) (11.88%,22.03%)	0.086 -0.660 -0.231 0.000	(-0.336,0.508) (-2.107,0.786) (-1.034,0.571) (0.000,0.000)	19.25% 10.32% 14.90% 17.99%	(16.37%,22.14%) (0.00%,23.10%) (6.01%,23.80%) (12.68%,23.30%)	1.09 0.52 0.79 1.00	(0.71,1.66) (0.12,2.20) (0.36,1.77) n/a

Model 16: Q4. Firefighters receive training in: Driving safety, Optional Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	L 0	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		77.70%	(75.17%,80.23%)	1.112^{*}	(0.514,1.709)	77.70%	(75.17%,80.23%)		
Region (0.0024)	Northeast South Midwest	79.43% ³ 81.69% ³ 69.97% ^{1,2,4}	(74.12%,84.73%) (77.44%,85.94%) (65.22%,74.72%)	-0.229 0.017 -0.647*	(-0.817,0.359) (-0.539,0.573) (-1.183,-0.111)	78.29% ³ 82.07% ³ 70.70% ^{1,2,4}	(72.71%,83.87%) (77.91%,86.22%) (66.09%,75.32%)	0.80 1.02 0.52 [*]	(0.44,1.43) (0.58,1.77) (0.31,0.89)
Department Type	West All Career All Volunteer	82.25% ³ 90.97% ^{2,3} 78.55% ¹	(75.30%,89.20%) (87.04%,94.90%) (73.85%,83.25%)	0.000 0.181 0.000	(0.000,0.000) (-0.493,0.856) (0.000,0.000)	81.83% ³ 79.30% 76.33%	(74.92%,88.74%) (68.83%,89.78%) (71.22%,81.44%)	1.00 1.20 1.00	n/a (0.61,2.35) n/a
(0.7465) Jurisdiction	Combination Urban	76.15% ¹ 88.19% ²	(72.94%,79.36%) (83.99%,92.40%)	0.117 0.258	(-0.249,0.483) (-0.271,0.788)	78.28% 81.28%	(75.20%,81.35%) (73.98%,88.58%)	1.12 1.29	(0.78,1.62) (0.76,2.20)
Type (0.3389)	Rural/Missing	$75.57\%^{1}$	(72.65%,78.50%)	0.000	(0.000,0.000)	77.22%	(74.48%,79.95%)	1.00	n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{94.52\%^{2,3}}{87.42\%^{1,3}}$ 72.61\%^{1,2}	(91.37%,97.66%) (84.27%,90.57%) (69.12%,76.10%)	1.433 [*] 0.877 [*] 0.000	(0.613,2.254) (0.504,1.249) (0.000,0.000)	91.90% ³ 86.74% ³ 73.44% ^{1,2}	(86.14%,97.66%) (83.27%,90.22%) (69.88%,77.00%)	$ 4.19^* \\ 2.40^* \\ 1.00 $	(1.85,9.52) (1.66,3.49) n/a
FFFIPP/ Fatality (0.0990)	Fatality with Investigation Fatality - No	91.96% ^{2,3}	(87.35%,96.58%)	0.731*	(0.062,1.400)	87.53% ³	(80.56%,94.50%)	2.08*	(1.06,4.06)
	Investigation No Fatality	$\frac{80.30\%^{1}}{77.57\%^{1}}$	(72.17%,88.43%) (74.99%,80.14%)	-0.025	$\frac{(-0.592, 0.542)}{(0.000, 0.000)}$	77.24% 77.65% ¹	(68.12%,86.37%) (75.09%,80.22%)	0.98	(0.55,1.72) n/a
Who Completed	Fire Chief Safety Officer	76.33% ^{2,3} 88.66% ¹ 85.20% ¹	(73.22%,79.43%) (77.72%,99.59%) (77.21%,03.40%)	0.009	(-0.382, 0.399) (-0.732, 1.777) (-0.270, 1.145)	77.22% 84.74%	(74.19%,80.25%) (69.54%,99.94%) (72.60%,02.28%)	1.01	(0.68,1.49) $(0.48,5.91)$ $(0.60,2.15)$
(0.6223)	Other/Missing	78.42%	(77.21%, 93.40%) (72.86%, 83.99%)	0.388	(0.000,0.000)	77.08%	(71.32%,82.84%)	1.47	n/a

Model 17: Q4. Firefighters receive training in: Driving safety, Required Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
	2.88%	(1.83%,3.92%)	-3.611*	(-5.252,-1.970)	2.88%	(1.83%,3.92%)		
Northeast South Midwest West	$ \begin{array}{r} 1.24\%^3 \\ 3.33\% \\ 4.16\%^1 \\ 1.50\% \end{array} $	(0.00%, 2.62%) $(1.24%, 5.43%)$ $(2.06%, 6.27%)$ $(0.00%, 3.57%)$	-0.062 0.746 0.985 0.000	(-1.842,1.718) (-0.781,2.273) (-0.508,2.478) (0.000,0.000)	1.44% 3.16% 3.96% 1.53%	(0.00%, 3.05%) $(1.27%, 5.04%)$ $(1.96%, 5.97%)$ $(0.00%, 3.62%)$	0.94 2.11 2.68 1.00	(0.16,5.58) (0.46,9.71) (0.60,11.92) n/a
All Career All Volunteer Combination	$\frac{0.07\%^{2,3}}{2.79\%^1}$ $3.16\%^1$	(0.00%,0.21%) (0.84%,4.74%) (1.83%,4.49%)	-1.595 0.000 -0.048	(-3.472,0.281) (0.000,0.000) (-0.919,0.822)	$\begin{array}{r} 0.63\%^{2,3}\\ \hline 2.98\%^1\\ \hline 2.85\%^1\end{array}$	(0.00%,1.77%) (0.90%,5.07%) (1.63%,4.07%)	0.20 1.00 0.95	(0.03,1.32) n/a (0.40,2.28)
Urban Rural/Missing	0.02% ² 3.45% ¹	(0.00%,0.06%)	-4.226 [*] 0.000	(-6.149,-2.302)	0.05% ² 3.12% ¹	(0.00%,0.14%)	0.01*	(0.00,0.10) n/a
50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 0.13\%^3 \\ 0.98\%^3 \\ 3.85\%^{1,2} \end{array}$	(0.00%,0.39%) (0.04%,1.92%) (2.35%,5.36%)	-1.461 -0.913 0.000	(-3.363,0.440) (-1.998,0.172) (0.000,0.000)	$\frac{0.80\%^3}{1.37\%^3}\\\overline{3.31\%^{1,2}}$	(0.00%,2.25%) (0.03%,2.70%) (2.01%,4.61%)	0.23 0.40 1.00	(0.03,1.55) (0.14,1.19) n/a
Fatality with Investigation Fatality - No Investigation No Fatality	1.43% 3.25% 2.88%	(0.00%,3.44%) (0.00%,6.83%) (1.82%,3.95%)	-0.131 0.414 0.000	(-1.621,1.359) (-0.814,1.642) (0.000,0.000)	2.53% 4.25% 2.87%	(0.00%,6.04%) (0.00%,8.86%) (1.81%,3.93%)	0.88 1.51 1.00	(0.20,3.89) (0.44,5.16) n/a
Fire Chief Safety Officer Training Officer, Other or Missing	$\frac{2.89\%^2}{0.13\%^{1,3}}$	(1.66%,4.13%) (0.00%,0.39%)	-0.226 -2.901*	(-1.048,0.596) (-5.067,-0.734)	$\frac{2.76\%^2}{0.20\%^{1.3}}$	(1.59%,3.93%) (0.00%,0.60%) (1.12%,5.72%)	0.80	(0.35,1.81) (0.01,0.48)
	NortheastSouthMidwestWestAll CareerAll VolunteerCombinationUrbanRural/Missing50,000+5,000-50,0000 - 5,000Fatality withInvestigationFatality - NoInvestigationFatality - NoInvestigationNo FatalityFire ChiefSafety OfficerTraining Officer,Other or Missing	$\begin{tabular}{ c c c c } \hline Pre \\ \hline Estimate \\ \hline \hline Estimate \\ \hline \hline 2.88\% \\ \hline \hline 1.24\%^3 \\ \hline South & 3.33\% \\ \hline Midwest & 4.16\%^1 \\ \hline \hline West & 1.50\% \\ \hline All Career & 0.07\%^{2.3} \\ \hline All Volunteer & 2.79\%^1 \\ \hline Combination & 3.16\%^1 \\ \hline Urban & 0.02\%^2 \\ \hline Rural/Missing & 3.45\%^1 \\ \hline 50,000+ & 0.13\%^3 \\ \hline 5,000-50,000 & 0.98\%^3 \\ \hline 0-5,000 & 3.85\%^{1.2} \\ \hline Fatality with \\ Investigation & 1.43\% \\ \hline Fatality - No \\ Investigation & 3.25\% \\ \hline No Fatality & 2.88\% \\ \hline Fire Chief & 2.89\%^2 \\ \hline Safety Officer & 0.13\%^{1.3} \\ \hline Training Officer, \\ Other or Missing & 3.12\%^2 \\ \hline \end{tabular}$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

Model 18: Q4. Firefighters receive training in: Incident Command systems, No Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	(Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		27.39%	(24.70%,30.08%)	-0.742*	(-1.312,-0.172)	27.39%	(24.70%,30.08%)		
Region (0.0341)	Northeast South Midwest West	$\begin{array}{r} 29.65\% \\ \hline 24.90\% \\ \hline 31.39\%^4 \\ \hline 20.46\%^3 \end{array}$	(23.73%,35.56%) (20.13%,29.67%) (26.58%,36.19%) (13.27%,27.64%)	0.636 [*] 0.182 0.542 [*] 0.000	(0.083,1.190) (-0.344,0.708) (0.024,1.060) (0.000,0.000)	$\frac{32.43\%^{2,4}}{23.87\%^{1,3}}$ $\frac{30.54\%^{2,4}}{20.88\%^{1,3}}$	(26.13%,38.73%) (19.30%,28.45%) (25.93%,35.15%) (13.70%,28.06%)	1.89 [*] 1.20 1.72 [*] 1.00	(1.09,3.29) (0.71,2.03) (1.02,2.89) n/a
Department Type (0.1632)	All Career All Volunteer Combination	5.73% ^{2,3} 27.65% ¹ 29.02% ¹	(2.47%,8.99%) (22.73%,32.56%) (25.57%,32.47%)	-0.649 0.000 -0.182	(-1.396,0.097) (0.000,0.000) (-0.518,0.153)	18.78% 29.86% 26.43%	(7.94%,29.62%) (24.61%,35.12%) (23.15%,29.71%)	0.52 1.00 0.83	(0.25,1.10) n/a (0.60,1.17)
Jurisdiction Type (0.0026)	Urban Rural/Missing	9.74% ² 30.95% ¹	(5.85%,13.63%) (27.82%,34.09%)	-0.837 [*] 0.000	(-1.382,-0.293)	15.46% ² 29.01% ¹	(8.87%,22.05%) (26.04%,31.98%)	0.43 [*] 1.00	(0.25,0.75) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{4.72\%^{2,3}}{14.23\%^{1,3}}$ 34.29% ^{1,2}	(1.52%,7.92%) (10.87%,17.58%) (30.57%,38.00%)	-1.336 [*] -0.916 [*] 0.000	(-2.240,-0.432) (-1.275,-0.557) (0.000,0.000)	11.34% ³ 16.20% ³ 32.04% ^{1,2}	(2.67%,20.00%) (12.20%,20.20%) (28.36%,35.72%)		(0.11,0.65) (0.28,0.57) n/a
FFFIPP/ Fatality (0.3689)	Fatality with Investigation Fatality - No Investigation No Fatality	12.29% ^{2,3} 23.10% ¹ 27.54% ¹	(6.39%,18.19%) (14.38%,31.81%) (24.80%,30.28%)	-0.427 -0.078 0.000	(-1.026,0.171) (-0.648,0.493) (0.000,0.000)	20.20% 26.02% 27.43%	(11.26%,29.14%) (16.11%,35.93%) (24.71%,30.16%)	0.65 0.93 1.00	(0.36,1.19) (0.52,1.64) n/a
Who Completed Survey (Q62) (0.4655)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} 28.54\%^2 \\ \hline 11.65\%^{1,4} \\ \hline 19.50\% \\ \hline 28.20\%^2 \end{array}$	(25.24%,31.83%) (0.85%,22.44%) (10.29%,28.71%) (22.09%,34.30%)	-0.127 -0.864 -0.343 0.000	(-0.494,0.241) (-2.097,0.369) (-1.036,0.350) (0.000,0.000)	27.39% 15.80% 23.54% 29.79%	(24.19%,30.58%) (0.55%,31.04%) (13.05%,34.03%) (23.56%,36.02%)	0.88 0.42 0.71 1.00	(0.61,1.27) (0.12,1.45) (0.35,1.42) n/a

Model 19: Q4. Firefighters receive training in: Incident Command systems, Optional Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

			valence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		69.89%	(67.15%,72.63%)	0.551	(-0.004,1.106)	69.89%	(67.15%,72.63%)		
Region (0.0358)	Northeast South Midwest West		(63.15%,75.09%) (66.83%,76.70%) (60.06%,69.86%) (70.72%,85.37%)	-0.599* -0.251 -0.607* 0.000	(-1.139,-0.058) (-0.759,0.258) (-1.107,-0.107) (0.000,0.000)	66.18% ⁴ 72.95% ³ 66.01% ^{2,4} 77.32% ^{1,3}	(59.84%,72.52%) (68.24%,77.66%) (61.37%,70.65%) (70.04%,84.60%)	0.55 [*] 0.78 0.54 [*] 1.00	(0.32,0.94) (0.47,1.29) (0.33,0.90) n/a
Department Type (0.1379)	All Career All Volunteer Combination	94.20% ^{2,3} 69.77% ¹ 67.96% ¹	(90.93%,97.47%) (64.81%,74.73%) (64.43%,71.49%)	0.683 0.000 0.174	(-0.054,1.421) (0.000,0.000) (-0.152,0.500)	79.60% ² 67.43% ¹ 70.82%	(68.30%,90.89%) (62.18%,72.68%) (67.46%,74.18%)	1.98 1.00 1.19	(0.95,4.14) n/a (0.86,1.65)
Jurisdiction Type (0.0008)	Urban Rural/Missing	90.24% ² 65.78% ¹	(86.35%,94.13%) (62.58%,68.98%)	0.932 [*] 0.000	(0.390,1.474)	83.79% ² 68.04% ¹	(76.99%,90.60%) (65.02%,71.07%)	2.54 [*] 1.00	(1.48,4.37) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{95.15\%^{2,3}}{84.79\%^{1,3}}$ 62.09\%^{1,2}	(91.94%,98.36%) (81.37%,88.22%) (58.31%,65.87%)	$\frac{1.381^{*}}{0.963^{*}}$	(0.496,2.265) (0.615,1.311) (0.000,0.000)	$\frac{87.53\%^3}{82.34\%^3}$ 64.80\%^{1,2}	(78.35%,96.72%) (78.20%,86.48%) (61.08%,68.53%)	3.98 [*] 2.62 [*] 1.00	(1.64,9.63) (1.85,3.71) n/a
FFFIPP/ Fatality (0.3621)	Fatality with Investigation Fatality - No Investigation No Fatality	86.28% ^{2,3} 73.65% ¹ 69.73% ¹	(80.13%,92.42%) (64.60%,82.70%) (66.95%,72.52%)	0.416 0.016 0.000	(-0.156,0.988) (-0.532,0.564) (0.000,0.000)	77.29% 70.16% 69.85%	(68.12%,86.45%) (60.01%,80.31%) (67.08%,72.63%)	1.52 1.02 1.00	(0.86,2.68) (0.59,1.76) n/a
Who Completed Survey (Q62) (0.1168)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{68.57\%^{2,3}}{88.22\%^{1,4}}$ $\frac{82.82\%^{1,4}}{67.68\%^{2,3}}$	(65.21%,71.93%) (77.43%,99.02%) (73.96%,91.67%) (61.37%,73.98%)	0.196 1.051 0.717 0.000	(-0.162,0.555) (-0.179,2.282) (-0.012,1.447) (0.000,0.000)	$ \begin{array}{r} $	(66.60%,73.08%) (68.32%,99.29%) (68.68%,89.36%) (59.50%,72.33%)	1.22 2.86 2.05 1.00	(0.85,1.74) (0.84,9.80) (0.99,4.25) n/a

Model 20: Q4. Firefighters receive training in: Incident Command systems, Required Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b	Beta ^c		Predict	ed Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		6.55%	(5.02%,8.08%)	-1.526*	(-2.310,-0.741)	6.55%	(5.02%,8.08%)			
Region (0.0114)	Northeast South Midwest West	$\frac{4.04\%^4}{7.07\%}$ $\frac{5.08\%^4}{13.19\%^{1.3}}$	(1.43%, 6.65%) $(4.31%, 9.83%)$ $(2.78%, 7.38%)$ $(7, 13%, 19, 24%)$	-1.228 [*] -0.772 [*] -1.111 [*] 0.000	(-2.110,-0.346) (-1.451,-0.092) (-1.848,-0.374) (0.000,0.000)	$ 4.42\%^4 6.79\%^4 4.94\%^4 13 50\%^{1,2,3} $	(1.52%, 7.32%) $(4.11%, 9.46%)$ $(2.65%, 7.23%)$ $(7, 32%, 19, 69%)$	0.29^{*} 0.46^{*} 0.33^{*} 1.00	$ \begin{array}{r} (0.12, 0.71) \\ (0.23, 0.91) \\ \hline (0.16, 0.69) \\ n/a \end{array} $	
Department Type (0.2204)	All Career All Volunteer Combination	5.71% 7.22% 6.26%	(2.40%, 9.03%) $(4.15%, 10.29%)$ $(4.44%, 8.09%)$	0.708 0.000 -0.160	(-0.200,1.617) (0.000,0.000) (-0.794,0.474)	13.06% 7.03% 6.07%	(3.21%,22.91%) (3.81%,10.24%) (4.23%,7.91%)	2.03 1.00 0.85	(0.82,5.04) n/a (0.45,1.61)	
Jurisdiction Type (0.0092)	Urban Rural/Missing	2.56% ² 7.36% ¹	(0.95%,4.17%)	-1.072 [*] 0.000	(-1.879,-0.266)	2.66% ² 7.30% ¹	(0.71%,4.60%)	0.34 [*] 1.00	(0.15,0.77) n/a	
Jurisdiction Size ^f (0.4524)	50,000+ 5,000-50,000 0 - 5,000	$ 3.17\%^3 \\ 5.00\% \\ 7.38\%^1 $	(0.70%,5.64%) (2.99%,7.01%) (5.29%,9.47%)	-0.796 -0.193 0.000	(-2.045,0.452) (-0.795,0.409) (0.000,0.000)	3.29% 5.81% 6.94%	(0.00%,6.99%) (3.25%,8.38%) (4.93%,8.95%)	0.45 0.82 1.00	(0.13,1.57) (0.45,1.51) n/a	
FFFIPP/ Fatality (0.9899)	Fatality with Investigation Fatality - No Investigation No Fatality	5.26% 6.04% 6.57%	(0.74%,9.77%) (1.32%,10.77%) (5.01%,8.13%)	0.068 0.022 0.000	(-0.903,1.038) (-0.823,0.867) (0.000,0.000)	6.97% 6.68% 6.55%	(0.94%,12.99%) (1.76%,11.60%) (5.00%,8.10%)	1.07 1.02 1.00	(0.41,2.82) (0.44,2.38) n/a	
Who Completed Survey (Q62) (0.4884)	Fire Chief Safety Officer Training Officer Other/Missing	6.77% 4.23% 3.57% 7.08%	(4.86%,8.68%) (0.00%,10.91%) (0.05%,7.09%) (3.80%,10.36%)	-0.025 -0.647 -0.810 0.000	(-0.633,0.584) (-2.364,1.070) (-1.984,0.365) (0.000,0.000)	6.86% 3.84% 3.29% 7.01%	(4.91%,8.81%) (0.00%,9.91%) (0.00%,6.65%) (3.73%,10.30%)	0.98 0.52 0.44 1.00	(0.53,1.79) (0.09,2.91) (0.14,1.44) n/a	

Model 21: Q4. Firefighters receive training in: Maintenance of Self-Contained Breathing Apparatuses (SCBAs), No Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		33.59%	(30.77%,36.41%)	-0.745 [*]	(-1.239,-0.252)	33.59%	(30.77%,36.41%)			
Region (0.0076)	Northeast South Midwest	$\frac{32.86\%^4}{31.94\%^3}$ $\frac{40.21\%^{2,4}}{23.35\%^{1,3}}$	(26.90%,38.82%) (26.88%,37.00%) (35.22%,45.21%) (16.28%,30.41%)	0.522 [*] 0.381 0.759 [*]	(0.020, 1.023) $(-0.089, 0.851)$ $(0.295, 1.223)$ $(0.000, 0.000)$	$\frac{34.27\%^4}{31.26\%^3}$ $\frac{39.63\%^{2,4}}{23.86\%^{1,3}}$	(28.02%,40.51%) (26.22%,36.30%) (34.66%,44.59%) (16.62%,31.10%)	$ 1.68^* 1.46 2.14^* 1.00 $	$(1.02,2.78) \\ (0.91,2.34) \\ (1.34,3.40) \\ n/a$	
Department Type (0.2882)	All Career All Volunteer Combination	$ \begin{array}{r} 14.81\%^{2,3} \\ 31.60\%^{1} \\ 36.18\%^{1} \end{array} $	(9.59%,20.03%) (26.49%,36.71%) (32.57%,39.80%)	-0.388 0.000 0.073	(-0.950,0.175) (0.000,0.000) (-0.234,0.380)	25.16% 32.86% 34.43%	(15.25%,35.06%) (27.54%,38.19%) (30.84%,38.02%)	0.68 1.00 1.08	(0.39,1.19) (0.79,1.46)	
Jurisdiction Type (0.0595)	Urban Rural/Missing	20.89% ² 36.15% ¹	(15.81%,25.96%) (32.92%,39.38%)	-0.412	(-0.841,0.016)	26.35% ² 34.82% ¹	(18.88%,33.82%) (31.67%,37.98%)	0.66	(0.43,1.02) n/a	
Jurisdiction Size ^f (0.0075)	50,000+ 5,000-50,000 0 - 5,000	$\frac{10.70\%^{2,3}}{26.22\%^{1,3}}$ 37.79% ^{1,2}	(6.18%,15.22%) (22.04%,30.40%) (34.04%,41.54%)	-0.970 [*] -0.367 [*] 0.000	(-1.632,-0.308) (-0.679,-0.054) (0.000,0.000)	17.99% ^{2,3} 28.38% ^{1,3} 36.17% ^{1,2}	(8.94%,27.03%) (23.53%,33.22%) (32.35%,39.99%)	0.38 [*] 0.69 [*] 1.00	(0.20,0.74) (0.51,0.95) n/a	
FFFIPP/ Fatality (0.6327)	Fatality with Investigation Fatality - No Investigation No Fatality	21.37% ³ 32.90% 33.69% ¹	(14.18%,28.56%) (23.58%,42.23%) (30.82%,36.55%)	-0.193 0.099 0.000	(-0.656,0.269) (-0.358,0.557) (0.000,0.000)	29.58% 35.76% 33.59%	(20.53%,38.62%) (26.07%,45.44%) (30.74%,36.45%)	0.82 1.10 1.00	(0.52,1.31) (0.70,1.75) n/a	
Who Completed Survey (Q62) (0.1619)	Fire Chief Safety Officer Training Officer Other/Missing	33.35% 19.68% ⁴ 28.82% 37.76% ²	(29.98%,36.72%) (6.25%,33.12%) (17.90%,39.73%) (31.44%,44.07%)	-0.343 [*] -0.653 -0.308 0.000	(-0.667,-0.019) (-1.582,0.277) (-0.924,0.307) (0.000,0.000)	32.16% ⁴ 25.99% 32.88% 39.73% ¹	(28.85%,35.46%) (9.33%,42.66%) (21.10%,44.66%) (33.28%,46.18%)	0.71 [*] 0.52 0.73 1.00	(0.51,0.98) (0.21,1.32) (0.40,1.36) n/a	

Model 22: Q4. Firefighters receive training in: Maintenance of Self-Contained Breathing Apparatuses (SCBAs), Optional Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b	Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		60.26%	(57.35%,63.16%)	0.095	(-0.380,0.570)	60.26%	(57.35%,63.16%)			
Region (0.2009)	Northeast South Midwest West	$\begin{array}{r} 63.10\%^3\\ 61.34\%\\ 55.01\%^{1,4}\\ 64.97\%^3\end{array}$	(57.01%,69.20%) (56.08%,66.61%) (49.97%,60.04%) (56.96%,72.97%)	-0.134 -0.083 -0.365 0.000	(-0.595,0.328) (-0.513,0.347) (-0.788,0.059) (0.000,0.000)	61.16% 62.32% 55.76% 64.18%	(54.79%,67.53%) (57.08%,67.55%) (50.79%,60.73%) (56.07%,72.28%)	0.87 0.92 0.69 1.00	(0.55,1.39) (0.60,1.41) (0.45,1.06) n/a	
Department Type (0.8685)	All Career All Volunteer Combination	79.65% ^{2,3} 61.18% ¹ 58.19% ¹	(73.80%,85.51%) (55.87%,66.49%) (54.49%,61.90%)	0.139 0.000 0.008	(-0.380,0.659) (0.000,0.000) (-0.288,0.304)	63.19% 60.03% 60.21%	(52.02%,74.37%) (54.52%,65.53%) (56.53%,63.89%)	1.15 1.00 1.01	(0.68,1.93) n/a (0.75,1.36)	
Jurisdiction Type (0.0053)	Urban Rural/Missing	76.75% ² 56.94% ¹	(71.54%,81.95%)	0.576 [*] 0.000	(0.172,0.981)	71.11% ² 58.35% ¹	(63.59%,78.62%) (55.08%,61.62%)	1.78 [*] 1.00	(1.19,2.67) n/a	
Jurisdiction Size ^f (0.0008)	50,000+ 5,000-50,000 0 - 5,000	$\frac{87.29\%^{2,3}}{69.01\%^{1,3}}$ 55.28% ^{1,2}	(82.41%,92.18%) (64.67%,73.35%) (51.42%,59.14%)	$\frac{1.165^{*}}{0.384^{*}}$	(0.532,1.798) (0.087,0.681) (0.000,0.000)	80.77% ^{2,3} 66.08% ^{1,3} 57.21% ^{1,2}	(71.64%,89.89%) (61.05%,71.11%) (53.26%,61.17%)	3.21 [*] 1.47 [*] 1.00	(1.70,6.04) (1.09,1.98) n/a	
FFFIPP/ Fatality (0.7173)	Fatality with Investigation Fatality - No Investigation No Fatality	73.37% ³ 61.05% 60.16% ¹	(65.51%,81.23%) (51.34%,70.77%) (57.20%,63.11%)	0.132 -0.117 0.000	(-0.303,0.567) (-0.567,0.333) (0.000,0.000)	63.25% 57.56% 60.27%	(53.78%,72.72%) (47.43%,67.68%) (57.32%,63.21%)	1.14 0.89 1.00	(0.74,1.76) (0.57,1.40) n/a	
Who Completed Survey (Q62) (0.1224)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} 60.12\%^2 \\ \hline 76.08\%^{1,4} \\ \hline 69.10\%^4 \\ \hline 55.84\%^{2,3} \end{array}$	(56.63%,63.61%) (61.78%,90.39%) (58.13%,80.06%) (49.40%,62.28%)	0.307 0.700 0.507 0.000	(-0.010,0.624) (-0.168,1.568) (-0.086,1.100) (0.000,0.000)	61.25% 69.81% 65.73% 54.05%	(57.81%,64.70%) (52.82%,86.79%) (54.17%,77.29%) (47.47%,60.63%)	1.36 2.01 1.66 1.00	(0.99,1.87) (0.85,4.80) (0.92,3.00) n/a	

Model 23: C)4. Fi	refighters	receive trai	ning in:	Maintenance	e of Self-	Contained	Breathing	Ap	paratuses (SCBAs)	, Req	uired	Training	J
		.								•		/			_

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	X	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		28.51%	(25.74%,31.27%)	-0.769*	(-1.342,-0.195)	28.51%	(25.74%,31.27%)			
Region (0.0055)	Northeast South Midwest West	$\begin{array}{r} 20.75\%^{2,3}\\ \hline 31.09\%^{1,4}\\ \hline 35.42\%^{1,4}\\ \hline 19.82\%^{2,3}\end{array}$	(15.55%,25.95%) (25.86%,36.31%) (30.30%,40.53%) (12.97%,26.68%)	0.151 0.562 [*] 0.735 [*] 0.000	(-0.421,0.723) (0.041,1.083) (0.218,1.251) (0.000,0.000)	$\frac{22.93\%^3}{30.25\%^4}$ $\frac{33.63\%^{1,4}}{20.54\%^{2,3}}$	(17.29%,28.57%) (25.22%,35.28%) (28.79%,38.48%) (13.60%,27.48%)	$ \begin{array}{r} 1.16 \\ 1.75^{*} \\ 2.08^{*} \\ 1.00 \end{array} $	(0.66,2.06) (1.04,2.95) (1.24,3.49) n/a	
Department Type (0.2058)	All Career All Volunteer Combination	11.06% ^{2,3} 26.77% ¹ 30.97% ¹	(6.26%,15.86%) (21.79%,31.75%) (27.40%,34.55%)	0.618 0.000 -0.029	(-0.095,1.331) (0.000,0.000) (-0.375,0.317)	40.73% 28.62% 28.10%	(26.79%,54.66%) (23.41%,33.83%) (24.75%,31.45%)	1.86 1.00 0.97	(0.91,3.79) n/a (0.69,1.37)	
Jurisdiction Type (0.0022)	Urban Rural/Missing	7.91% ² 32.86% ¹	(4.38%,11.45%) (29.60%,36.12%)	-1.009 [*] 0.000	(-1.654,-0.365)	14.41% ² 30.28% ¹	(7.09%,21.73%)	0.36*	(0.19,0.69) n/a	
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{1.68\%^{2,3}}{12.44\%^{1,3}}$ 37.14% ^{1,2}	(0.25%,3.11%) (9.32%,15.56%) (33.25%,41.03%)	-3.102 [*] -1.184 [*] 0.000	(-4.105,-2.098) (-1.568,-0.800) (0.000,0.000)	$\frac{2.49\%^{2,3}}{14.53\%^{1,3}}$ $34.73\%^{1,2}$	(0.13%,4.85%) (10.62%,18.43%) (30.82%,38.65%)		(0.02,0.12) (0.21,0.45) n/a	
FFFIPP/ Fatality (0.0480)	Fatality with Investigation Fatality - No Investigation No Fatality	9.86% ³ 17.70% ³ 28.76% ^{1,2}	(4.42%,15.29%) (9.65%,25.76%) (25.95%,31.57%)	-0.740* -0.409 0.000	(-1.415,-0.065) (-1.022,0.203) (0.000,0.000)	16.90% ³ 21.66% 28.62% ¹	(8.21%,25.60%) (12.40%,30.93%) (25.82%,31.42%)	0.48 [*] 0.66 1.00	(0.24,0.94) (0.36,1.23) n/a	
Who Completed Survey (Q62) (0.1003)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} 29.97\%^3 \\ 17.76\% \\ 13.25\%^{1,4} \\ 30.24\%^3 \end{array}$	(26.57%,33.38%) (3.50%,32.01%) (5.49%,21.00%) (23.94%,36.53%)	-0.154 -0.400 -0.993 [*] 0.000	(-0.531,0.223) (-1.567,0.767) (-1.782,-0.203) (0.000,0.000)	28.81% ³ 24.45% 15.71% ^{1,4} 31.72% ³	(25.54%,32.07%) (5.47%,43.42%) (6.70%,24.71%) (25.32%,38.12%)	$0.86 \\ 0.67 \\ 0.37^* \\ 1.00$	(0.59,1.25) (0.21,2.15) (0.17,0.82) n/a	

Model 24: Q4. Firefighters receive training in: Rapid Intervention Teams (RITs), No Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b	Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		36.16%	(33.22%,39.10%)	-1.349*	(-1.886,-0.812)	36.16%	(33.22%,39.10%)			
Region (0.0000)	Northeast South	52.93% ^{2,3,4} 32.10% ^{1,4}	(46.48%,59.37%) (26.90%,37.30%)	$\frac{1.380^{*}}{0.535^{*}}$	$(0.873,1.887) \\ (0.049,1.021) \\ (0.021,1.021)$	52.25% ^{2,3,4} 32.64% ^{1,4}	(45.65%,58.86%) (27.43%,37.85%)	3.98 [*] 1.71 [*]	(2.39,6.60) (1.05,2.77)	
	Midwest West	$\frac{34.20\%^{1,4}}{21.26\%^{1,2,3}}$	(29.19%,39.21%) (14.47%,28.05%)	0.566	$(0.084, 1.049) \\ (0.000, 0.000)$	$\frac{33.31\%^{1,4}}{22.33\%^{1,2,3}}$	(28.39%,38.23%) (15.17%,29.50%)	1.76	(1.09,2.86) n/a	
Department Type (0.0007)	All Career All Volunteer Combination	$\frac{14.66\%^{2,3}}{29.96\%^{1,3}}$ $41.45\%^{1,2}$	(9.35%,19.96%) (24.82%,35.11%) (37.59%,45.30%)	-0.656 [*] 0.000 0.411 [*]	(-1.244,-0.069) (0.000,0.000) (0.098,0.723)	19.45% ^{2,3} 31.13% ^{1,3} 40.01% ^{1,2}	(10.89%,28.01%) (25.90%,36.36%) (36.17%,43.85%)	0.52 [*] 1.00 1.51 [*]	(0.29,0.93) n/a (1.10,2.06)	
Jurisdiction Type (0.8736)	Urban Rural/Missing	32.23% 36.99%	(26.48%,37.98%) (33.65%,40.34%)	-0.033	(-0.438,0.372)	35.57% 36.27%	(27.81%,43.33%) (33.00%,39.54%)	0.97	(0.65,1.45) n/a	
Jurisdiction Size ^f (0.0637)	50,000+ 5,000-50,000 0 - 5,000	10.88% ^{2,3} 34.66% ¹ 37.97% ¹	(6.13%,15.62%) (30.09%,39.23%) (34.08%,41.86%)	-0.808 [*] -0.113 0.000	(-1.487,-0.128) (-0.431,0.206) (0.000,0.000)	21.70% ^{2,3} 34.76% ¹ 37.17% ¹	(11.42%,31.98%) (29.64%,39.88%) (33.24%,41.11%)	0.45 [*] 0.89 1.00	(0.23,0.88) (0.65,1.23) n/a	
FFFIPP/ Fatality (0.0898)	Fatality with Investigation Fatality - No Investigation No Fatality	29.62% ² 46.15% ¹ 36.10%	(21.45%,37.80%) (35.99%,56.31%) (33.11%,39.09%)	0.143 0.501 [*] 0.000	(-0.296,0.582) (0.044,0.959) (0.000,0.000)	39.14% 47.24% ³ 36.03% ²	(29.72%,48.56%) (37.14%,57.33%) (33.05%,39.01%)	1.15 1.65^{*} 1.00	(0.74,1.79) (1.05,2.61) n/a	
Who Completed Survey (Q62) (0.0118)	Fire Chief Safety Officer Training Officer Other/Missing	$ 37.03\%^{2} 10.33\%^{1,3,4} 40.12\%^{2} 35.65\%^{2} $	(33.47%,40.60%) (0.88%,19.78%) (28.74%,51.50%) (29.17%,42.13%)	-0.130 -1.570 [*] 0.348 0.000	(-0.471,0.212) (-2.679,-0.461) (-0.227,0.922) (0.000,0.000)	35.48% ² 12.29% ^{1,3,4} 46.17% ² 38.30% ²	(32.03%,38.94%) (1.10%,23.49%) (34.68%,57.65%) (31.70%,44.90%)	$ \begin{array}{r} 0.88 \\ 0.21^* \\ 1.42 \\ 1.00 \end{array} $	(0.62,1.24) (0.07,0.63) (0.80,2.51) n/a	

Model 25: Q4. Firefighters receive training in: Rapid Intervention Teams (RITs), Optional Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b	Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		35.54%	(32.80%,38.28%)	-0.171	(-0.682,0.339)	35.54%	(32.80%,38.28%)			
Region (0.0000)	Northeast South	26.90% ^{2,4} 36.81% ^{1,4}	(21.30%,32.51%) (31.68%,41.95%)	-1.622 [*] -0.937 [*]	(-2.145,-1.099) (-1.402,-0.473)	25.01% ^{2,3,4} 37.30% ^{1,4}	(19.75%,30.27%) (32.33%,42.27%)	0.20^{*} 0.39^{*}	(0.12,0.33) (0.25,0.62)	
	Midwest West	30.63% ⁴ 58.91% ^{1,2,3}	(26.15%,35.10%) (50.75%,67.08%)	-1.166 [*] 0.000	(-1.623,-0.710) (0.000,0.000)	32.89% ^{1,4} 57.17% ^{1,2,3}	(28.52%,37.26%) (48.74%,65.59%)	0.31 [*] 1.00	(0.20,0.49) n/a	
Department Type (0.0217)	All Career All Volunteer Combination	$\frac{74.90\%^{2,3}}{43.26\%^{1,3}}$ $27.87\%^{1,2}$	(68.52%,81.27%) (38.26%,48.27%) (24.38%,31.35%)	0.180 0.000 -0.392*	(-0.323,0.683) (0.000,0.000) (-0.707,-0.078)	43.73% ³ 40.01% ³ 32.38% ^{1,2}	(33.54%,53.91%) (35.04%,44.98%) (28.78%,35.98%)	1.20 1.00 0.68 [*]	(0.72,1.98) n/a (0.49,0.93)	
Jurisdiction Type (0.0023)	Urban Rural/Missing	60.63% ² 30.23% ¹	(54.90%,66.36%) (27.14%,33.33%)	0.603 [*] 0.000	(0.216,0.990)	45.59% ² 33.38% ¹	(38.15%,53.02%) (30.26%,36.50%)	1.83 [*] 1.00	(1.24,2.69) n/a	
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{87.44\%^{2,3}}{53.58\%^{1,3}}$ 24.89% ^{1,2}	(82.57%,92.31%) (48.93%,58.23%) (21.37%,28.41%)	$\frac{2.125^{*}}{1.100^{*}}$ 0.000	(1.499,2.750) (0.778,1.422) (0.000,0.000)	72.44% ^{2,3} 50.40% ^{1,3} 27.21% ^{1,2}	(61.40%,83.47%) (45.10%,55.70%) (23.50%,30.93%)	8.37 [*] 3.00 [*] 1.00	(4.48,15.65) (2.18,4.14) n/a	
FFFIPP/ Fatality (0.2765)	Fatality with Investigation Fatality - No Investigation No Fatality	60.52% ^{2,3} 36.15% ¹ 35.35% ¹	(51.82%,69.22%) (26.67%,45.62%) (32.57%,38.14%)	0.286 -0.254 0.000	(-0.184,0.756) (-0.766,0.258) (0.000,0.000)	41.11% 30.94% 35.55%	(31.94%,50.28%) (22.29%,39.60%) (32.78%,38.33%)	1.33 0.78 1.00	(0.83,2.13) (0.46,1.29) n/a	
Who Completed Survey (Q62) (0.0221)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} \hline 33.29\%^{2,3} \\ \hline 71.91\%^{1,3,4} \\ \hline 46.63\%^{1,2} \\ \hline 34.12\%^2 \end{array}$	(29.95%,36.64%) (56.31%,87.52%) (35.33%,57.94%) (28.20%,40.03%)	$ \begin{array}{r} 0.300 \\ 1.527^* \\ 0.352 \\ 0.000 \end{array} $	(-0.065,0.665) (0.514,2.539) (-0.223,0.927) (0,000,0.000)	$\frac{36.01\%^2}{61.31\%^{1,3,4}}$ $\frac{37.00\%^2}{30.49\%^2}$	(32.68%,39.33%) (41.44%,81.18%) (27.39%,46.60%) (24.96%,36.03%)	$ \begin{array}{r} 1.35 \\ 4.60^{*} \\ 1.42 \\ 1.00 $	(0.94,1.95) (1.67,12.67) (0.80,2.53) n/a	

Model 26: Q4. Firefighters receive training in: Rapid Intervention Teams (RITs), Required Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b	Beta ^c		Predict	ed Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		1.45%	(0.75%,2.16%)	-2.961*	(-4.303,-1.620)	1.45%	(0.75%,2.16%)			
Region (0.6497)	Northeast South Midwest West	0.59% 1.94% 1.38% 1.87%	(0.00%,1.44%) (0.41%,3.46%) (0.30%,2.46%) (0.00%,4.04%)	-1.055 -0.028 -0.213 0.000	(-3.004,0.893) (-1.471,1.414) (-1.694,1.269) (0.000,0.000)	0.64% 1.76% 1.47% 1.81%	(0.00%,1.58%) (0.43%,3.10%) (0.30%,2.65%) (0.00%,3.98%)	0.35 0.97 0.81 1.00	(0.05,2.44) (0.23,4.11) (0.18,3.56) n/a	
Department Type (0.1493)	All Career All Volunteer Combination	3.20% 1.65% 1.21%	(0.62%,5.77%) (0.27%,3.03%) (0.37%,2.04%)	1.188 0.000 -0.225	(-0.222,2.598) (0.000,0.000) (-1.415,0.964)	4.74% 1.53% 1.23%	(0.00%,10.43%) (0.21%,2.85%) (0.35%,2.10%)	3.28 1.00 0.80	(0.80,13.44) n/a (0.24,2.62)	
Jurisdiction Type (0.4556)	Urban Rural/Missing	1.61% 1.42%	(0.41%,2.80%)	0.451	(-0.734,1.635)	2.10% 1.36%	(0.00%,4.23%)	1.57 1.00	(0.48,5.13) n/a	
Jurisdiction Size ^f (0.1140)	50,000+ 5,000-50,000 0 - 5,000	1.16% 0.94% 1.70%	(0.00%,2.81%) (0.18%,1.70%) (0.71%,2.68%)	-2.174 -1.035 0.000	(-4.442,0.094) (-2.241,0.171) (0.000,0.000)	$ \begin{array}{r} 0.26\%^3 \\ \hline 0.79\% \\ 2.14\%^1 \\ \end{array} $	(0.00%,0.76%) (0.10%,1.48%) (0.84%,3.44%)	0.11 0.36 1.00	(0.01,1.10) (0.11,1.19) n/a	
FFFIPP/ Fatality (0.1336)	Fatality No Fatality	$0.31\%^2$ $1.48\%^1$	(0.00%,0.92%)	-1.576	(-3.637,0.484)	$0.31\%^2$ 1.47% ¹	(0.00%,0.94%)	0.21	(0.03,1.62) n/a	
Who Completed Survey (Q62) (0.0248)	Fire Chief Training Officer Safety Officer, Other, Missing	$ \begin{array}{r} 1.00\% \\ 0.30\%^3 \\ 3.15\%^2 \end{array} $	(0.30%,1.69%) (0.00%,0.89%) (1.01%,5.29%)	-1.086 [*] -2.439 [*] 0.000	(-2.118,-0.054) (-4.575,-0.304) (0.000,0.000)	$ \begin{array}{r} 1.03\% \\ 0.27\%^3 \\ 2.97\%^2 \end{array} $	(0.31%,1.75%) (0.00%,0.81%) (0.88%,5.06%)	0.34 [*] 0.09 [*] 1.00	(0.12,0.95) (0.01,0.74) n/a	

Model 27: Q4. Firefighters receive training in: Use of personal protective equipment and/or protective clothing, No Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		9.87%	(8.05%,11.68%)	-2.427*	(-3.312,-1.542)	9.87%	(8.05%,11.68%)			
Region (0.0068)	Northeast South Midwest West	$\frac{6.89\%^3}{9.63\%}$ $\frac{14.42\%^{1,4}}{4.82\%^3}$	(3.67%,10.10%) (6.38%,12.88%) (10.71%,18.14%) (1.09%,8.56%)	0.504 0.708 1.254 [*] 0.000	(-0.485,1.493) (-0.194,1.610) (0.351,2.158) (0.000,0.000)	7.55% ³ 9.08% ³ 14.58% ^{1,2,4} 4.72% ³	(3.98%,11.11%) (5.96%,12.19%) (10.78%,18.39%) (1.01%,8.43%)	$ \begin{array}{r} 1.66 \\ 2.03 \\ \overline{3.51^*} \\ 1.00 \end{array} $	(0.62,4.45) (0.82,5.00) (1.42,8.66) n/a	
Department Type (0.4091)	All Career All Volunteer Combination	$\frac{4.31\%^{2.3}}{10.93\%^1}\\9.74\%^1$	(1.68%,6.94%) (7.41%,14.45%) (7.50%,11.97%)	-0.271 0.000 -0.321	(-1.184,0.643) (0.000,0.000) (-0.818,0.176)	9.36% 11.84% 8.95%	(1.83%,16.90%) (7.91%,15.77%) (6.80%,11.11%)	0.76 1.00 0.73	(0.31,1.90) n/a (0.44,1.19)	
Jurisdiction Type (0.4034)	Urban Rural/Missing	4.81% ² 10.88% ¹	(2.03%,7.58%)	-0.355	(-1.189,0.478)	7.42%	(2.11%,12.72%)	0.70	(0.30,1.61) n/a	
Jurisdiction Size ^f (0.0061)	50,000+ 5,000-50,000 0 - 5,000	$\frac{3.15\%^3}{5.42\%^3}$ 12.13% ^{1,2}	(1.04%,5.27%) (3.35%,7.50%) (9.59%,14.66%)	-1.177 [*] -0.789 [*] 0.000	(-2.140,-0.214) (-1.321,-0.257) (0.000,0.000)	$\frac{4.00\%^3}{5.76\%^3}$ 11.74\% ^{1,2}	(0.57%,7.42%) (3.40%,8.12%) (9.16%,14.33%)		(0.12,0.81) (0.27,0.77) n/a	
FFFIPP/ Fatality (0.5337)	Fatality with Investigation Fatality - No Investigation No Fatality	6.49% 11.86% 9.87%	(2.27%,10.72%) (5.34%,18.38%) (8.02%,11.72%)	-0.059 0.386 0.000	(-0.793,0.675) (-0.306,1.078) (0.000,0.000)	9.34% 13.68% 9.84%	(3.45%,15.23%) (6.17%,21.19%) (8.00%,11.67%)	0.94 <u>1.47</u> 1.00	(0.45,1.96) (0.74,2.94) n/a	
Who Completed Survey (Q62) (0.8902)	Fire Chief Safety Officer Training Officer Other/Missing	9.75% 8.32% 9.04% 10.75%	(7.56%,11.93%) (0.00%,18.10%) (2.56%,15.51%) (6.68%,14.81%)	-0.192 0.059 -0.052 0.000	(-0.710,0.326) (-1.378,1.496) (-0.962,0.858) (0.000,0.000)	9.41% 11.70% 10.64% 11.13%	(7.27%,11.55%) (0.00%,25.51%) (3.20%,18.07%) (6.89%,15.36%)	0.83 1.06 0.95 1.00	(0.49,1.39) (0.25,4.46) (0.38,2.36) n/a	

Model 28: Q4. Firefighters receive training in: Use of personal protective equipment and/or protective clothing, Optional Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predic	ted Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		88.91%	(87.01%,90.81%)	1.902^{*}	(1.135,2.669)	88.91%	(87.01%,90.81%)			
Region (0.0047)	Northeast South Midwest	93.09% ³ 88.75% 84.20% ^{1,4}	(89.88%,96.30%) (85.27%,92.23%) (80.38%,88.02%)	-0.153 -0.515 -1.017*	(-1.032,0.727) (-1.289,0.258) (-1.790,-0.243)	92.41% ³ 89.50% ³ 83.92% ^{1,2,4}	(88.84%,95.98%) (86.21%,92.78%) (80.02%,87.83%)	0.86 0.60 0.36 [*]	$\begin{array}{r} (0.36,2.07) \\ \hline (0.28,1.29) \\ \hline (0.17,0.78) \end{array}$	
	West	93.31% ³	(89.06%,97.56%)	0.000	(0.000,0.000)	93.40% ³	(89.13%,97.66%)	1.00	n/a	
Department Type (0.2990)	All Career All Volunteer Combination	93.10% ² 87.42% ¹ 89.39%	(89.64%,96.55%) (83.71%,91.13%) (87.07%,91.71%)	-0.061 0.000 0.360	(-0.865,0.742) (0.000,0.000) (-0.109,0.829)	85.90% 86.60% 90.15%	(76.66%,95.15%) (82.53%,90.68%) (87.91%,92.40%)	0.94 1.00 1.43	(0.42,2.10) n/a (0.90,2.29)	
Jurisdiction Type (0.6257)	Urban Rural/Missing	93.77% ² 87.94% ¹	(90.78%,96.76%)	0.182	(-0.551,0.916)	90.38% 88.73%	(84.56%,96.21%)	1.20 1.00	(0.58,2.50) n/a	
Jurisdiction Size ^f (0.0006)	50,000+ 5,000-50,000 0 - 5,000	95.69% ³ 94.04% ³ 86.35% ^{1,2}	(93.03%,98.35%) (91.92%,96.16%) (83.68%,89.01%)	$\frac{1.376^{*}}{0.914^{*}}$	(0.424,2.327) (0.410,1.419) (0.000,0.000)	$\frac{96.10\%^3}{93.97\%^3}\\ 86.37\%^{1,2}$	(92.81%,99.39%) (91.67%,96.27%) (83.57%,89.17%)	3.96^{*} 2.50 [*] 1.00	(1.53,10.25) (1.51,4.13) n/a	
FFFIPP/ Fatality (0.8321)	Fatality with Investigation Fatality - No Investigation No Fatality	92.74% 88.75% 88.89%	(88.29%,97.18%) (82.32%,95.18%) (86.96%,90.82%)	0.113 -0.177 0.000	(-0.580,0.807) (-0.886,0.532) (0.000,0.000)	89.96% 87.13% 88.92%	(84.03%,95.89%) (79.77%,94.49%) (87.00%,90.85%)	1.12 0.84 1.00	(0.56,2.24) (0.41,1.70) n/a	
Who Completed Survey (Q62) (0.5013)	Fire Chief Safety Officer Training Officer Other/Missing	89.44% 91.68% 90.66% 86.21%	(87.19%,91.69%) (81.90%,100.00%) (84.16%,97.16%) (81.70%,90.71%)	0.367 0.269 0.342 0.000	(-0.107,0.842) (-1.142,1.681) (-0.532,1.216) (0.000,0.000)	89.71% 88.80% 89.48% 85.94%	(87.49%,91.93%) (75.62%,100.00%) (82.28%,96.68%) (81.31%,90.58%)	1.44 1.31 1.41 1.00	(0.90,2.32) (0.32,5.37) (0.59,3.37) n/a	

Model 29: Q4. Firefighters receive training in: Use of personal protective equipment and/or protective clothing, Required Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	(Pre	valence ^b		Beta ^c		ed Marginal ^d	Adjusted Odds Ratio ^e		
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	
Intercept		2.68%	(1.70%,3.65%)	-2.986*	(-4.356,-1.615)	2.68%	(1.70%,3.65%)			
Region (0.4236)	Northeast South Midwest	2.00% 2.69% 3.48%	(0.16%,3.85%) (0.83%,4.56%) (1.72%,5.24%)	0.432 0.396 0.928	(-1.193,2.057) (-0.996,1.788) (-0.424,2.279)	2.43% 2.35% 3.89%	(0.12%,4.75%) (0.76%,3.95%) (1.94%,5.84%)	1.54 1.49 2.53	(0.30,7.82) (0.37,5.98) (0.65,9.77)	
	West	1.90%	(0.00%, 4.08%)	0.000	(0.000, 0.000)	1.60%	(0.00%,3.51%)	1.00	n/a	
Department Type (0.6188)	All Career All Volunteer Combination	2.77% 3.15% 2.41%	(0.42%,5.11%) (1.24%,5.07%) (1.24%,3.58%)	0.363 0.000 -0.277	(-1.031,1.757) (0.000,0.000) (-1.112,0.558)	4.33% 3.08% 2.37%	(0.00%,9.65%) (1.21%,4.95%) (1.21%,3.52%)	1.44 1.00 0.76	(0.36,5.80) n/a (0.33,1.75)	
Jurisdiction Type (0.2608)	Urban Rural/Missing	1.65% 2.88%	(0.44%,2.85%)	-0.557	(-1.528,0.414)	1.68% 2.87%	(0.23%,3.13%) (1.77%,3.97%)	0.57	(0.22,1.51) n/a	
Jurisdiction Size ^f (0.2001)	50,000+ 5,000-50,000 0 - 5,000	2.28% 1.61% 3.17%	(0.07%,4.48%) (0.59%,2.63%) (1.80%,4.53%)	-0.803 -0.693 0.000	(-2.501,0.894) (-1.464,0.078) (0.000,0.000)	1.48% 1.65% 3.20%	(0.00%,3.74%) (0.63%,2.66%) (1.83%,4.57%)	0.45 0.50 1.00	(0.08,2.45) (0.23,1.08) n/a	
FFFIPP/ Fatality (0.1535)	Fatality with Investigation Fatality - No Investigation No Fatality	1.96% $0.38\%^3$ $2.71\%^2$	(0.00%,4.16%) (0.00%,1.13%) (1.72%,3.69%)	-0.159 -2.009 0.000	(-1.428,1.109) (-4.049,0.032) (0.000,0.000)	2.32% 0.38% ³ 2.70% ²	(0.00%,5.11%) (0.00%,1.13%) (1.72%,3.69%)	0.85 0.13 1.00	(0.24,3.03) (0.02,1.03) n/a	
Who Completed Survey (Q62)	Fire Chief Training Officer Safety Office, Other,	1.51% ³ 6.16%	(0.67%,2.36%) (1.18%,11.15%)	-1.379 [*] 0.266	(-2.204,-0.553) (-0.801,1.334)	1.47% ³ 7.07%	(0.64%,2.29%) (1.07%,13.07%)	0.25*	(0.11,0.57) (0.45,3.80)	
(0.0010)	Missing	$5.19\%^{1}$	(2.25%, 8.13%)	0.000	(0.000, 0.000)	5.53% ¹	(2.46%, 8.59%)	1.00	n/a	

Model 30: C)4.	Firefighters receive trai	ining in:	Use of radio co	ommunication	devices.	No	Training

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero. ^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	X	Pre	valence ^b]	Beta ^c	Predict	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		21.38%	(18.92%,23.84%)	-1.590*	(-2.221,-0.958)	21.38%	(18.92%,23.84%)		
Region (0.0062)	Northeast South Midwest West	$\frac{21.01\%^4}{21.27\%^4}$ $\frac{26.14\%^4}{10.99\%^{1,2,3}}$	(15.91%,26.12%) (16.80%,25.74%) (21.60%,30.68%) (5.57%,16.40%)	$\frac{0.859^{*}}{0.750^{*}}$ $\frac{1.084^{*}}{0.000}$	(0.203,1.515) (0.126,1.375) (0.462,1.706) (0.000,0.000)	$\frac{22.22\%^4}{20.44\%^4}$ $\frac{26.22\%^4}{10.96\%^{1,2,3}}$	(16.78%,27.66%) (16.16%,24.73%) (21.71%,30.74%) (5.51%,16.41%)	2.36 [*] 2.12 [*] 2.96 [*] 1.00	(1.22,4.55) (1.13,3.95) (1.59,5.51) n/a
Department Type (0.0614)	All Career All Volunteer Combination	9.16% ^{2,3} 23.75% ¹ 21.07% ¹	(5.22%,13.09%) (19.06%,28.43%) (18.01%,24.12%)	-0.553 0.000 -0.340	(-1.192,0.085) (0.000,0.000) (-0.686,0.006)	16.59% 25.34% 19.65%	(8.17%,25.00%) (20.36%,30.33%) (16.71%,22.60%)	0.58 1.00 0.71	(0.30,1.09) n/a (0.50,1.01)
Jurisdiction Type (0.9816)	Urban Rural/Missing	14.83% ² 22.68% ¹	(10.30%,19.36%) (19.87%,25.49%)	0.006	(-0.501,0.513)	21.46% 21.37%	(13.86%,29.07%) (18.70%,24.03%)	1.01	(0.61,1.67) n/a
Jurisdiction Size ^f (0.0001)	50,000+ 5,000-50,000 0 - 5,000	$\frac{6.35\%^{2,3}}{14.10\%^{1,3}}$ $25.22\%^{1,2}$	(2.92%,9.79%) (10.83%,17.36%) (21.87%,28.57%)	-1.286 [*] -0.750 [*] 0.000	(-2.061,-0.511) (-1.135,-0.364) (0.000,0.000)	$\frac{8.64\%^3}{13.85\%^3}$ $25.15\%^{1,2}$	(2.95%,14.34%) (10.26%,17.44%) (21.62%,28.68%)	$ \begin{array}{r} 0.28^{*} \\ 0.47^{*} \\ 1.00 \end{array} $	(0.13,0.60) (0.32,0.69) n/a
FFFIPP/ Fatality (0.7358)	Fatality with Investigation Fatality - No Investigation No Fatality	13.38% ³ 21.15% 21.44% ¹	(7.49%,19.27%) (13.03%,29.27%) (18.94%,23.94%)	-0.174 0.121 0.000	(-0.729,0.382) (-0.414,0.655) (0.000,0.000)	18.69% 23.39% 21.37%	(10.72%,26.65%) (14.54%,32.23%) (18.88%,23.86%)	0.84 1.13 1.00	(0.48,1.46) (0.66,1.93) n/a
Who Completed Survey (Q62) (0.6511)	Fire Chief Safety Officer Training Officer Other/Missing	$ \begin{array}{r} 21.75\%^2 \\ 9.07\%^{1,4} \\ 19.90\% \\ 22.23\%^2 \end{array} $	(18.78%,24.72%) (0.00%,18.24%) (10.75%,29.06%) (16.70%,27.76%)	-0.086 -0.783 -0.002 0.000	(-0.467,0.295) (-2.021,0.455) (-0.677,0.672) (0.000,0.000)	21.21% 12.03% 22.59% 22.63%	(18.29%,24.12%) (0.00%,24.46%) (12.64%,32.53%) (17.02%,28.24%)	0.92 0.46 1.00 1.00	(0.63,1.34) (0.13,1.58) (0.51,1.96) n/a

Model 31: ()4. Firefight	ers receive t	raining in:	Use of radio	communication (devices. O	ptional 7	Fraining
	C							

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	L 0	Pro	evalence ^b		Beta ^c	Predic	cted Marginal ^d	Adjusted	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		76.19%	(73.65%,78.73%)	1.264^{*}	(0.659,1.868)	76.19%	(73.65%,78.73%)		
Region	Northeast	77.12%4	(71.83%,82.40%)	-0.832*	(-1.456,-0.207)	75.42% ⁴	(69.76%,81.09%)	0.44*	(0.23,0.81)
(0.0015)	South	$\frac{76.67\%^4}{70.28\%^4}$	(72.06%,81.28%)	-0.691	(-1.280,-0.103)	$77.85\%^{3,4}$	(73.48%,82.22%)	0.50	(0.28,0.90)
	West	70.38% 87.12% ^{1,2,3}	(81.38%,92.85%)	0.000	(-1.698, -0.524) (0.000, 0.000)	87.33% ^{1,2,3}	$\frac{(65.43\%, 74.77\%)}{(81.58\%, 93.08\%)}$	1.00	(0.18,0.59) n/a
Department Type	All Career All Volunteer	88.68% ^{2,3} 73.43% ¹ 76.70% ¹	(84.35%,93.01%) (68.61%,78.25%) (73.54%,79.87%)	0.458 0.000 0.357*	(-0.139, 1.055) (0.000, 0.000) (0.022, 0.692)	79.80% 71.83% ³ 78.10% ²	(70.77%,88.84%) (66.74%,76.93%) (75.13%,81.25%)	1.58 1.00 1.43^*	(0.87,2.87) n/a (1.02,2.00)
Jurisdiction Type	Urban	83.82% ²	(79.19%,88.45%)	0.076	(-0.404,0.556)	77.32%	(69.87%,84.78%)	1.08	(0.67,1.74)
(0.7564)	Rural/Missing	74.68% ¹	(71.77%,77.58%)	0.000	(0.000, 0.000)	76.03%	(73.26%,78.79%)	1.00	n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	92.11% ^{2,3} 84.39% ^{1,3} 71.91% ^{1,2}	(88.31%,95.91%) (81.02%,87.77%) (68.44%,75.37%)	$\frac{1.266^{*}}{0.774^{*}}$	(0.548,1.985) (0.411,1.136) (0.000,0.000)	$\frac{89.90\%^3}{84.56\%^3}$ 72.01\%^{1,2}	(83.87%,95.93%) (80.89%,88.24%) (68.39%,75.63%)	3.55 [*] 2.17 [*] 1.00	(1.73,7.28) (1.51,3.11) n/a
FFFIPP/ Fatality	Fatality with Investigation	84.66% ³	(78.47%,90.85%)	0.150	(-0.369,0.669)	78.68%	(70.54%,86.82%)	1.16	(0.69,1.95)
(0.8315)	Investigation No Fatality	$\frac{78.47\%}{76.11\%^{1}}$	(70.33%,86.62%) (73.53%,78.69%)	-0.001 0.000	(-0.535,0.533) (0.000,0.000)	76.17% 76.18%	(67.26%,85.08%) (73.61%,78.75%)	1.00 1.00	(0.59,1.70) n/a
Who Completed	Fire Chief Safety Officer	76.78% ² 91.65% ^{1,3,4}	(73.75%,79.81%) (82.59%,100.00%)	0.287	(-0.078,0.652) (-0.151,2.452)	77.40% 88.78% ^{3,4}	(74.43%,80.37%) (76.40%,100.00%)	1.33 3.16	(0.93,1.92) (0.86,11.62)
Survey (Q62)	Training Officer	73.94% ²	(64.07%,83.81%)	-0.089	(-0.704,0.527)	70.52% ²	(59.95%,81.09%)	0.92	(0.49,1.69)
(0.1228)	Other/Missing	$72.85\%^2$	(66.92%,78.78%)	0.000	(0.000, 0.000)	$72.24\%^2$	(66.21%,78.27%)	1.00	n/a

Model 32: Q4. Firefighters receive training in: Use of radio communication devices, Required Training

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	x	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjustee	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		67.39%	(64.60%,70.17%)	-0.072	(-0.563,0.418)	67.39%	(64.60%,70.17%)		
Region (0.0012)	Northeast South Midwest West	$78.00\%^{2.3,4}$ $67.36\%^{1}$ $61.07\%^{1}$ $63.95\%^{1}$	(72.81%,83.18%) (62.31%,72.40%) (56.15%,65.98%) (55.73%,72.16%)	0.760 [*] 0.282 0.031 0.000	(0.279,1.240) (-0.157,0.720) (-0.399,0.461) (0.000,0.000)	76.84% ^{2,3,4} 67.84% ¹ 62.51% ¹ 61.83% ¹	(71.48%,82.21%) (62.90%,72.77%) (57.71%,67.32%) (53.77%,69.90%)	2.14 [*] 1.33 1.03 1.00	(1.32,3.46) (0.86,2.05) (0.67,1.59) n/a
Department Type (0.8456)	All Career All Volunteer Combination	86.33% ^{2,3} 69.36% ¹ 64.78% ¹	(81.08%,91.59%) (64.29%,74.43%) (61.22%,68.34%)	0.044 0.000 -0.082	(-0.565,0.653) (0.000,0.000) (-0.393,0.229)	69.30% 68.43% 66.76%	(57.67%,80.93%) (63.29%,73.57%) (63.29%,70.23%)	1.04 1.00 0.92	(0.57,1.92) n/a (0.67,1.26)
Jurisdiction Type (0.1574)	Urban Rural/Missing	83.74% ² 64.10% ¹	(79.01%,88.47%)	0.343	(-0.133,0.819)	73.32% 66.57%	(65.05%,81.59%) (63.55%,69.60%)	1.41 1.00	(0.88,2.27) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	93.68% ^{2,3} 80.24% ^{1,3} 60.59% ^{1,2}	(90.56%,96.80%) (76.47%,84.01%) (56.82%,64.37%)	$\frac{1.849^{*}}{0.800^{*}}$	(1.154,2.543) (0.469,1.131) (0.000,0.000)	$\frac{90.93\%^{2,3}}{78.17\%^{1,3}}$ 62.32\%^{1,2}	(85.58%,96.27%) (73.74%,82.61%) (58.47%,66.17%)	6.35 [*] 2.23 [*] 1.00	(3.17,12.72) (1.60,3.10) n/a
FFFIPP/ Fatality (0.0008)	Fatality with Investigation Fatality - No Investigation No Fatality	90.65% ^{2,3} 79.35% ^{1,3} 67.10% ^{1,2}	(85.75%,95.55%) (71.25%,87.45%) (64.27%,69.93%)	1.128 [*] 0.439 0.000	(0.501,1.755) (-0.110,0.989) (0.000,0.000)	85.62% ³ 75.55% 67.22% ¹	(78.32%,92.93%) (66.28%,84.81%) (64.40%,70.04%)	3.09 [*] 1.55 1.00	(1.65,5.79) (0.90,2.69) n/a
Who Completed Survey (Q62) (0.0038)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{66.39\%^{2,3}}{88.48\%^{1,4}}$ $\frac{83.26\%^{1,4}}{62.88\%^{2,3}}$	(63.03%,69.76%) (76.54%,100.00%) (75.38%,91.14%) (56.53%,69.23%)	0.286 1.364 [*] 1.093 [*] 0.000	(-0.044,0.616) (0.131,2.597) (0.416,1.770) (0.000,0.000)	$ \begin{array}{r} 67.35\%^{2.3} \\ 85.21\%^{1.4} \\ 81.60\%^{1.4} \\ 61.24\%^{2.3} \\ \end{array} $	(64.06%,70.64%) (70.54%,99.87%) (72.77%,90.43%) (54.89%,67.58%)	$ \begin{array}{r} 1.33 \\ 3.91^{*} \\ 2.98^{*} \\ 1.00 \end{array} $	(0.96,1.85) (1.14,13.42) (1.52,5.87) n/a

Model 33: Q8. How familiar are you with the National Institute for Occupational Safety and Health (NIOSH)? - Somewhat or Very Familiar

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	, or y - united	Pre	evalence ^b		Beta ^c	Predict	ed Marginal ^d	Adjuste	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		45.71%	(42.85%,48.57%)	-0.667 [*]	(-1.121,-0.214)	45.71%	(42.85%,48.57%)		
Region (0.1203)	Northeast South Midwest	53.29% ^{2,3} 43.66% ¹ 40.70% ¹	(46.96%,59.61%) (38.57%,48.75%) (35.85%,45.54%)	0.101 -0.177 -0.294	(-0.334,0.535) (-0.573,0.220) (-0.692,0.104)	51.08% ³ 44.59% 41.90% ¹	(44.61%,57.56%) (39.50%,49.68%) (37.06%,46.73%)	1.11 0.84 0.75	$(0.72,1.71) \\ (0.56,1.25) \\ (0.50,1.11) \\ (0.50,1.11)$
Department Type (0.5328)	All Career All Volunteer Combination	50.15% 70.42% ^{2,3} 45.98% ¹ 43.57% ¹	(42.02%,58.28%) (64.14%,76.71%) (40.87%,51.09%) (39.88%,47.26%)	0.000 0.259 0.000 0.033	(0.000,0.000) (-0.194,0.712) (0.000,0.000) (-0.251,0.318)	48.71% 51.01% 44.98% 45.75%	(40.87%,56.56%) (40.84%,61.17%) (39.78%,50.17%) (42.02%,49.48%)	1.00 1.30 1.00 1.03	(0.82,2.04) (0.78,1.37)
Jurisdiction Type (0.0141)	Urban Rural/Missing	65.94% ² 41.66% ¹	(60.13%,71.75%) (38.42%,44.89%)	0.479 [*] 0.000	(0.097,0.862)	55.27% ² 43.91% ¹	(47.01%,63.53%) (40.69%,47.13%)	1.62 [*] 1.00	(1.10,2.37) n/a
Jurisdiction Size ^f (0.0001)	50,000+ 5,000-50,000 0 - 5,000	74.55% ^{2,3} 58.63% ^{1,3} 38.79% ^{1,2}	(68.74%,80.36%) (54.01%,63.24%) (35.07%,42.51%)	$\frac{0.870^{*}}{0.593^{*}}$	(0.373,1.367) (0.307,0.879) (0.000,0.000)	$\frac{61.70\%^3}{55.19\%^3}$ $\frac{41.02\%^{1,2}}{}$	(51.39%,72.00%) (50.02%,60.36%) (37.11%,44.92%)	2.39 [*] 1.81 [*] 1.00	(1.45,3.92) (1.36,2.41) n/a
FFFIPP/ Fatality (0.0000)	Fatality with Investigation Fatality - No Investigation No Fatality	81.58% ^{2,3} 67.55% ^{1,3} 45.23% ^{1,2}	(74.77%,88.38%) (58.47%,76.64%) (42.32%,48.14%)	$\frac{1.355^{*}}{0.813^{*}}$	(0.863,1.846) (0.333,1.294) (0.000,0.000)	74.92% ³ 64.06% ³ 45.35% ^{1,2}	(66.23%,83.62%) (53.91%,74.20%) (42.45%,48.25%)	3.88 [*] 2.26 [*] 1.00	(2.37,6.34) (1.39,3.65) n/a
Who Completed Survey (Q62) (0.0030)	Fire Chief Safety Officer Training Officer Other/Missing	$\begin{array}{r} & 44.70\%^{2.3} \\ \hline 67.30\%^{1,4} \\ \hline 64.41\%^{1,4} \\ 40.31\%^{2.3} \end{array}$	(41.25%,48.14%) (51.57%,83.02%) (53.61%,75.21%) (34.12%,46.50%)	0.296 0.901 [*] 0.945 [*] 0.000	(-0.019,0.611) (0.119,1.683) (0.385,1.504) (0.000,0.000)	$\frac{45.79\%^3}{59.96\%^4}\\ \frac{60.95\%^{1.4}}{38.99\%^{2.3}}$	(42.38%,49.20%) (42.95%,76.97%) (49.73%,72.18%) (32.81%,45.17%)	$ \begin{array}{r} 1.34 \\ 2.46^{*} \\ 2.57^{*} \\ 1.00 \end{array} $	(0.98,1.84) (1.13,5.38) (1.47,4.50) n/a

Model 34: Q9. How familiar are you with NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP)? - Somewhat or Very Familiar

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ted Marginal ^d	Adjustee	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		45.51%	(42.39%,48.63%)	-0.619*	(-1.120,-0.118)	45.51%	(42.39%,48.63%)		
Region (0.1907)	Northeast South Midwest West	$ 49.08\% 43.58\%^4 41.19\%^4 54.22\%^{2,3} $	(42.41%,55.75%) (37.96%,49.20%) (35.87%,46.52%) (45.36%,63.09%)	-0.223 -0.327 -0.461* 0.000	(-0.694,0.248) (-0.763,0.109) (-0.900,-0.023) (0.000,0.000)	47.38% 44.90% 41.74% ⁴ 52.74% ³	(40.57%,54.19%) (39.28%,50.52%) (36.44%,47.04%) (43.84%,61.64%)	$0.80 \\ 0.72 \\ 0.63^* \\ 1.00$	(0.50,1.28) (0.47,1.11) (0.41,0.98) n/a
Department Type (0.6336)	All Career All Volunteer Combination	57.79% ^{2,3} 44.43% ¹ 45.00% ¹	(51.30%,64.28%) (38.98%,49.89%) (40.89%,49.11%)	-0.000 0.000 0.143	(-0.434,0.434) (0.000,0.000) (-0.161,0.447)	43.44% 43.44% 46.81%	(33.85%,53.03%) (37.88%,48.99%) (42.67%,50.96%)	1.00 1.00 1.15	(0.65,1.54) n/a (0.85,1.56)
Jurisdiction Type (0.1396)	Urban Rural/Missing	57.20% ² 42.88% ¹	(51.07%,63.32%) (39.31%,46.45%)	0.290	(-0.095,0.675)	51.20% 44.25%	(42.96%,59.44%) (40.70%,47.80%)	1.34	(0.91,1.96) n/a
Jurisdiction Size ^f (0.0060)	50,000+ 5,000-50,000 0 - 5,000	$\frac{65.70\%^{2,3}}{52.44\%^{1,3}}$ $\frac{40.90\%^{1,2}}{}$	(59.21%,72.20%) (47.59%,57.29%) (36.70%,45.10%)	0.801 [*] 0.370 [*] 0.000	(0.288,1.314) (0.067,0.674) (0.000,0.000)	61.14% ^{2,3} 50.88% ^{1,3} 41.98% ^{1,2}	(50.69%,71.60%) (45.59%,56.18%) (37.59%,46.38%)	$ \begin{array}{r} 2.23^{*} \\ 1.45^{*} \\ 1.00 \end{array} $	(1.33,3.72) (1.07,1.96) n/a
FFFIPP/ Fatality (0.0001)	Fatality with Investigation Fatality - No Investigation No Fatality	70.07% ³ 58.80% ³ 45.16% ^{1,2}	(61.94%,78.19%) (48.85%,68.75%) (41.98%,48.34%)	0.813 [*] 0.494 [*] 0.000	(0.394,1.232) (0.035,0.953) (0.000,0.000)	64.30% ³ 57.00% ³ 45.24% ^{1,2}	(55.24%,73.35%) (46.63%,67.38%) (42.07%,48.41%)	2.25 [*] 1.64 [*] 1.00	(1.48,3.43) (1.04,2.59) n/a
Who Completed Survey (Q62) (0.0005)	Fire Chief Safety Officer Training Officer Other/Missing	45.68% ^{3,4} 58.51% ⁴ 66.90% ^{1,4} 35.97% ^{1,2,3}	(41.89%,49.48%) (41.44%,75.58%) (55.21%,78.59%) (29.46%,42.49%)	$\begin{array}{r} 0.477^{*} \\ \hline 0.701 \\ \hline 1.222^{*} \\ \hline 0.000 \end{array}$	(0.135,0.818) (-0.100,1.503) (0.618,1.827) (0.000,0.000)	46.45% ^{3,4} 51.91% 64.22% ^{1,4} 35.29% ^{1,3}	(42.68%,50.22%) (33.38%,70.44%) (52.19%,76.25%) (28.68%,41.90%)	1.61 [*] 2.02 3.39 [*] 1.00	(1.14,2.27) (0.90,4.49) (1.86,6.21) n/a

Model 35: Q11. In what ways has your department used NIOSH recommendations: Made changes to training program

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		29.85%	(26.98%,32.71%)	-0.979^{*}	(-1.493,-0.464)	29.85%	(26.98%, 32.71%)		
Region (0.1999)	Northeast South Midwest West	$ 33.10\% \\ 27.24\%^4 \\ 26.69\%^4 \\ 38.15\%^{2,3} $	(26.81%,39.39%) (22.33%,32.16%) (22.01%,31.37%) (29.57%,46.74%)	-0.210 -0.421 -0.429 0.000	(-0.707,0.287) (-0.875,0.034) (-0.884,0.026) (0.000,0.000)	31.99% 27.72% 27.56% 36.59%	(25.54%,38.45%) (22.74%,32.69%) (22.85%,32.26%) (27.96%,45.22%)	0.81 0.66 0.65 1.00	(0.49,1.33) (0.42,1.03) (0.41,1.03) n/a
Department Type (0.6043)	All Career All Volunteer Combination	40.76% ³ 32.65% 27.33% ¹	(33.98%,47.54%) (27.41%,37.88%) (23.67%,30.99%)	-0.150 0.000 -0.151	(-0.613,0.313) (0.000,0.000) (-0.475,0.172)	28.84% 31.89% 28.80%	(20.25%,37.42%) (26.64%,37.15%) (25.00%,32.60%)	0.86 1.00 0.86	(0.54,1.37) n/a (0.62,1.19)
Jurisdiction Type (0.1795)	Urban Rural/Missing	40.85% ² 27.37% ¹	(34.79%,46.90%) (24.14%,30.60%)	0.266	(-0.122,0.653)	34.30% 28.73%	(26.91%,41.68%) (25.43%,32.03%)	1.30 1.00	(0.88,1.92) n/a
Jurisdiction Size ^f (0.0150)	50,000+ 5,000-50,000 0 - 5,000	$\frac{47.99\%^{2,3}}{36.93\%^{1,3}}$ 25.26% ^{1,2}	(41.05%,54.92%) (32.24%,41.62%) (21.51%,29.01%)	0.692 [*] 0.422 [*] 0.000	(0.155,1.229) (0.098,0.745) (0.000,0.000)	$\frac{41.38\%^3}{35.14\%^3}$ $26.35\%^{1,2}$	(30.28%,52.49%) (30.07%,40.21%) (22.37%,30.34%)	2.00^{*} 1.52^{*} 1.00	(1.17,3.42) (1.10,2.11) n/a
FFFIPP/ Fatality (0.0013)	Fatality with Investigation Fatality - No Investigation No Fatality	51.70% ³ 39.03% 29.57% ¹	(42.82%,60.58%) (29.04%,49.02%) (26.65%,32.48%)	0.697 [*] 0.332 0.000	(0.304,1.090) (-0.118,0.782) (0.000,0.000)	45.21% ³ 36.73% 29.64% ¹	(36.05%,54.37%) (27.11%,46.35%) (26.73%,32.55%)	2.01 [*] 1.39 1.00	(1.35,2.97) (0.89,2.19) n/a
Who Completed Survey (Q62) (0.1230)	Fire Chief Safety Officer Training Officer Other/Missing	$ 29.78\% 43.54\%^4 39.45\%^4 24.92\%^{2,3} $	(26.32%,33.25%) (26.26%,60.81%) (27.48%,51.43%) (19.30%,30.53%)	0.341 0.606 0.581 0.000	(-0.013,0.696) (-0.251,1.462) (-0.011,1.172) (0.000,0.000)	30.66% ⁴ 36.37% 35.81% 24.09% ¹	(27.17%,34.15%) (17.95%,54.79%) (24.30%,47.31%) (18.61%,29.57%)	1.41 1.83 1.79 1.00	(0.99,2.00) (0.78,4.32) (0.99,3.23) n/a

Model 36: Q11. In what ways has your department used NIOSH recommendations: Developed new SOPs/SOGs

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ed Marginal ^d	Adjuste	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		39.55%	(36.52%,42.58%)	-1.116*	(-1.621,-0.611)	39.55%	(36.52%,42.58%)		
Region (0.3696)	Northeast South Midwest	45.08% ² 35.48% ¹ 37.67%	(38.49%,51.66%) (30.13%,40.82%) (32.46%,42.89%) (25.65%,52.07%)	0.043 -0.263 -0.170	(-0.433,0.519) (-0.709,0.182) (-0.612,0.271) (0.000,0.000)	43.44% 36.51% 38.56%	(36.83%,50.04%) (31.11%,41.91%) (33.45%,43.67%) (23.76%,51.11%)	1.04 0.77 0.84	(0.65,1.68) (0.49,1.20) (0.54,1.31)
Department Type (0.7800)	All Career All Volunteer Combination	<u>54.84%</u> ^{2,3} <u>38.98%</u> ¹ <u>38.48%</u> ¹	(47.91%,61.77%) (33.72%,44.24%) (34.50%,42.47%)	-0.044 0.000 0.094	(-0.510,0.422) (0.000,0.000) (-0.208,0.397)	42.43% 37.34% 38.32% 40.42%	(27.73%,46.95%) (33.06%,43.57%) (36.41%,44.43%)	0.96 1.00 1.10	(0.60,1.52) (0.81,1.49)
Jurisdiction Type (0.7038)	Urban Rural/Missing	51.84% ² 36.78% ¹	(45.75%,57.94%) (33.34%,40.23%)	0.071	(-0.296,0.438)	40.85% 39.24%	(33.49%,48.22%) (35.80%,42.69%)	1.07	(0.74,1.55) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	68.09% ^{2,3} 49.98% ^{1,3} 32.70% ^{1,2}	(61.68%,74.51%) (45.10%,54.86%) (28.72%,36.68%)	1.423 [*] 0.706 [*] 0.000	(0.897,1.950) (0.405,1.008) (0.000,0.000)	66.43% ^{2,3} 49.59% ^{1,3} 33.07% ^{1,2}	(56.31%,76.56%) (44.32%,54.86%) (28.97%,37.18%)	4.15 [*] 2.03 [*] 1.00	(2.45,7.03) (1.50,2.74) n/a
FFFIPP/ Fatality (0.0001)	Fatality with Investigation Fatality - No Investigation No Fatality	68.29% ^{2,3} 53.57% ^{1,3} 39.16% ^{1,2}	(59.98%,76.61%) (43.28%,63.87%) (36.08%,42.24%)	0.889 [*] 0.455 [*] 0.000	(0.460,1.319) (0.001,0.908) (0.000,0.000)	59.95% ³ 49.82% 39.28% ¹	(50.43%,69.47%) (39.54%,60.09%) (36.21%,42.36%)	2.43 [*] 1.58 [*] 1.00	(1.58,3.74) (1.00,2.48) n/a
Who Completed Survey (Q62) (0.0006)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{39.94\%^{2,4}}{68.52\%^{1,4}}$ $\frac{49.99\%^4}{30.58\%^{1,2,3}}$	(36.24%,43.64%) (52.15%,84.88%) (37.94%,62.05%) (24.57%,36.59%)	$\begin{array}{r} 0.498^{*} \\ \hline 1.422^{*} \\ 0.773^{*} \\ \hline 0.000 \end{array}$	(0.151,0.844) (0.613,2.232) (0.191,1.355) (0.000,0.000)	40.71% ^{2,4} 62.47% ^{1,4} 47.17% ⁴ 29.90% ^{1,2,3}	(37.04%,44.38%) (45.13%,79.82%) (35.04%,59.30%) (23.85%,35.96%)	$ \begin{array}{r} 1.65^{*} \\ 4.15^{*} \\ 2.17^{*} \\ 1.00 $	(1.16,2.33) (1.85,9.32) (1.21,3.88) n/a

Model 37: Q11. In what ways has your department used NIOSH recommendations: Made changes to SOPs/SOGs

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u> </u>	Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		5.70%	(4.37%,7.03%)	-3.041*	(-3.929,-2.153)	5.70%	(4.37%,7.03%)		
Region (0.3324)	Northeast South	6.33% 3.81%	(3.37%,9.29%) (1.81%,5.81%)	-0.138	(-0.973,0.698) (-1.454,0.243)	6.01% 3.90%	(3.15%,8.86%) (1.85%,5.94%)	0.87 0.55	(0.38,2.01) (0.23,1.28)
	Midwest West	6.48% 7.62%	(3.93%,9.04%) (3.68%,11.56%)	0.025 0.000	(-0.753,0.804) (0.000,0.000)	6.96% 6.80%	(4.20%,9.72%) (2.98%,10.63%)	1.03 1.00	(0.47,2.23) n/a
Department Type (0.1324)	All Career All Volunteer Combination	$\frac{15.79\%^{2,3}}{7.14\%^{1,3}}$ $\frac{4.00\%^{1,2}}{1.2}$	(10.73%,20.85%) (4.60%,9.67%) (2.39%,5.61%)	0.137 0.000 -0.525	(-0.564,0.837) (0.000,0.000) (-1.108,0.059)	8.08% 7.15% 4.41%	(3.61%,12.55%) (4.56%,9.74%) (2.68%,6.14%)	1.15 1.00 0.59	(0.57,2.31) n/a (0.33,1.06)
Jurisdiction Type (0.0126)	Urban Rural/Missing	12.93% ² 4.07% ¹	(9.03%,16.84%)	0.840*	(0.181,1.499)	9.61% ² 4.45% ¹	(5.10%,14.12%) (2.98%,5.92%)	2.32 [*] 1.00	(1.20,4.48) n/a
Jurisdiction Size ^f (0.5948)	50,000+ 5,000-50,000 0 - 5,000	16.47% ^{2,3} 8.25% ^{1,3} 3.83% ^{1,2}	(11.67%,21.28%) (5.74%,10.75%) (2.22%,5.44%)	0.448 0.299 0.000	(-0.489,1.385) (-0.325,0.922) (0.000,0.000)	7.36% 6.44% 4.89%	(2.76%,11.97%) (4.30%,8.57%) (2.77%,7.01%)	1.56 1.35 1.00	(0.61,3.99) (0.72,2.51) n/a
FFFIPP/ Fatality (0.0879)	Fatality with Investigation Fatality - No Investigation No Fatality	<u>15.78%³</u> <u>9.48%</u> 5.57% ¹	(9.43%,22.13%) (3.57%,15.38%) (4.22%,6.93%)	0.606 [*] 0.450 0.000	(0.016,1.197) (-0.324,1.223) (0.000,0.000)	9.61% 8.39% 5.61%	(4.81%,14.41%) (3.02%,13.76%) (4.26%,6.97%)	1.83 [*] 1.57 1.00	(1.02,3.31) (0.72,3.40) n/a
Who Completed Survey (Q62) (0.6781)	Fire Chief Safety Officer Training Officer Other/Missing	5.42% 11.04% 9.17% 4.73%	(3.84%,7.00%) (0.00%,22.38%) (3.33%,15.00%) (2.09%,7.38%)	0.340 0.535 0.539 0.000	(-0.350,1.030) (-0.976,2.046) (-0.419,1.498) (0,000,0,000) (0,000	5.90% 7.03% 7.05% 4.31%	(4.26%,7.53%) (0.00%,15.99%) (2.29%,11.82%) (1.84%,6.78%)	<u>1.41</u> <u>1.71</u> <u>1.71</u> <u>1.00</u>	$(0.70,2.80) \\ (0.38,7.74) \\ (0.66,4.47) \\ n/a$

Model 38: Q11. In what ways has your department used NIOSH recommendations: Justified current budget/staffing

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	,	Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		6.21%	(4.84%,7.59%)	-3.169 [*]	(-3.959,-2.379)	6.21%	(4.84%,7.59%)		
Region (0.1932)	Northeast South	6.54% 6.23%	(3.46%,9.62%) (3.76%,8.70%)	-0.600 -0.449	(-1.424,0.224) (-1.189,0.292)	5.74% 6.58%	(2.98%,8.50%) (4.01%,9.15%)	0.55	(0.24,1.25) (0.30,1.34)
	Midwest West	$\frac{4.22\%^4}{10.35\%^3}$	(2.34%,6.09%) (5.54%,15.15%)	-0.843 [*] 0.000	(-1.616,-0.069) (0.000,0.000)	4.59% 9.76%	$\frac{(2.57\%, 6.61\%)}{(4.70\%, 14.82\%)}$	0.43* 1.00	(0.20,0.93) n/a
Department Type (0.5824)	All Career All Volunteer Combination	$\frac{15.81\%^{2,3}}{6.26\%^{1}}$	(10.90%,20.72%) (3.96%,8.56%) (3.51%,7.14%)	0.339 0.000 0.171	(-0.327,1.004) (0.000,0.000) (-0.398,0.740)	7.48% 5.53% 6.45%	(3.67%,11.30%) (3.47%,7.58%) (4.28%,8.62%)	1.40 1.00 1.19	(0.72,2.73) n/a (0.67,2.10)
Jurisdiction Type (0.1968)	Urban Rural/Missing	12.62% ² 4.77% ¹	(8.65%,16.59%)	0.435	(-0.226,1.095)	8.12% 5.49%	(4.36%,11.88%) (3.84%,7.14%)	1.54 1.00	(0.80,2.99) n/a
Jurisdiction Size ^f (0.0219)	50,000+ 5,000-50,000 0 - 5,000	$\frac{16.77\%^{2,3}}{10.19\%^{1,3}}$ 3.62% ^{1,2}	(11.91%,21.63%) (7.32%,13.07%) (2.08%,5.15%)	$\begin{array}{r} 0.762 \\ 0.904^* \\ 0.000 \end{array}$	(-0.168,1.692) (0.258,1.551) (0.000,0.000)	$\frac{8.22\%}{9.32\%^3}$ 4.07\%^2	(3.02%,13.42%) (6.27%,12.38%) (2.24%,5.90%)	2.14 2.47 [*] 1.00	(0.85,5.43) (1.29,4.71) n/a
FFFIPP/ Fatality (0.0005)	Fatality with Investigation Fatality - No Investigation No Fatality	20.83% ³ 11.93% 6.03% ¹	(13.93%,27.72%) (5.20%,18.67%) (4.63%,7.43%)	1.002 [*] 0.565 0.000	(0.478,1.527) (-0.192,1.322) (0.000,0.000)	14.30% ³ 9.97% 6.07% ¹	(8.47%,20.13%) (3.89%,16.04%) (4.67%,7.47%)	2.72 [*] 1.76 1.00	(1.61,4.60) (0.83,3.75) n/a
Who Completed Survey (Q62) (0.1663)	Fire Chief Safety Officer Training Officer Other/Missing	5.44% 19.82% 11.38% 5.23%	(3.87%,7.00%) (5.41%,34.22%) (4.32%,18.45%) (2.68%,7.78%)	0.220 1.189 [*] 0.707 0.000	(-0.408,0.849) (0.004,2.374) (-0.190,1.604) (0.000,0.000)	5.87% 13.64% 9.07% 4.79%	(4.20%,7.54%) (1.24%,26.04%) (3.06%,15.08%) (2.40%,7.18%)	1.25 3.28 [*] 2.03 1.00	(0.66,2.34) (1.00,10.74) (0.83,4.97) n/a

Model 39: Q11. In what ways has your department used NIOSH recommendations: Made new budget/staffing requests

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u> </u>	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		17.61%	(15.24%,19.98%)	-2.131*	(-2.811,-1.451)	17.61%	(15.24%,19.98%)		
Region	Northeast	22.33% ³	(16.90%,27.76%)	0.213	(-0.366,0.791)	21.49%	(16.20%,26.78%)	1.24	(0.69,2.21)
(0.2731)	South Midwest	16.10% $15.43\%^{1}$	(12.06%, 20.14%) (11.65%, 19.22%)	-0.110 -0.210	(-0.679, 0.458) (-0.778, 0.359)	16.61%	(12.50%, 20.72%) (11.57%, 19.02%)	0.90	(0.51, 1.58) (0.46, 1.43)
	West	17.80%	(10.84%,24.77%)	0.000	(0.000,0.000)	18.17%	(11.03%,25.31%)	1.00	n/a
Department Type	All Career All Volunteer	24.29% ² 15.17% ¹	(18.38%,30.20%) (11.25%,19.08%)	0.251	(-0.287,0.789) (0.000,0.000)	18.51% 15.08%	(11.23%,25.79%) (11.22%,18.93%)	1.29 1.00	(0.75,2.20) n/a
(0.3130)	Combination	18.34%	(15.16%,21.52%)	0.279	(-0.101,0.658)	18.93%	(15.68%,22.18%)	1.32	(0.90,1.93)
Jurisdiction	Urban	21.99%	(16.77%,27.21%)	-0.005	(-0.464,0.454)	17.55%	(11.90%,23.20%)	0.99	(0.63,1.57)
(0.9823)	Rural/Missing	16.62%	(13.97%,19.27%)	0.000	(0.000, 0.000)	17.62%	(14.89%,20.36%)	1.00	n/a
Jurisdiction Size ^f (0.0090)	50,000+ 5,000-50,000 0 - 5,000	$\frac{28.04\%^3}{21.49\%^3}$ $15.07\%^{1,2}$	(21.94%,34.14%) (17.45%,25.54%) (12.02%,18.12%)	$\frac{0.953^{*}}{0.444^{*}}$	(0.333,1.573) (0.057,0.831) (0.000,0.000)	$\frac{31.13\%^3}{21.48\%^3}$ $14.99\%^{1,2}$	(20.09%,42.16%) (17.05%,25.92%) (11.84%,18.14%)	$\frac{2.59^{*}}{1.56^{*}}$ 1.00	(1.40,4.82) (1.06,2.30) n/a
FFFIPP/ Fatality (0.0479)	Fatality with Investigation Fatality - No Investigation No Fatality	31.06% ³ 22.97% 17.44% ¹	(22.83%,39.29%) (14.07%,31.88%) (15.03%,19.85%)	0.532 [*] 0.273 0.000	(0.090,0.974) (-0.292,0.837) (0.000,0.000)	26.28% ³ 21.67% 17.48% ¹	(18.13%,34.43%) (12.65%,30.70%) (15.08%,19.89%)	1.70 [*] 1.31 1.00	(1.09,2.65) (0.75,2.31) n/a
Who	Fire Chief	18.31%	(15.40%,21.22%)	0.301	(-0.141, 0.743)	$18.59\%^2$	(15.67%,21.51%)	1.35	(0.87, 2.10) (0.27, 1.52)
Survey (062)	Training Officer	21.61%	(4.18%,20.32%)	-0.443	(-1.306, 0.423) (-0.272, 1, 135)	<u>9.89%</u> 20.61%	(2.78%, 17.00%) (10.96% 30.26%)	0.04	(0.27, 1.55) (0.76, 3, 11)
(0.1915)	Other/Missing	14.64%	(9.93%,19.35%)	0.000	(0.000,0.000)	14.52%	(9.74%,19.30%)	1.00	n/a

Model 40: Q11. In what ways has your department used NIOSH recommendations: Justified grant applications

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		34.05%	(31.02%,37.08%)	0.117	(-0.418,0.652)	34.05%	(31.02%,37.08%)		
Region	Northeast	28.09% ^{2,3}	(21.97%,34.22%)	-0.067	(-0.592,0.457)	29.79%	(23.47%,36.11%)	0.94	(0.55,1.58)
(0.3510)	South	37.96% ¹	(32.31%,43.62%)	0.245	(-0.237,0.726)	36.31%	(30.82%,41.79%)	1.28	(0.79,2.07)
	Midwest	36.24% ¹	(30.92%,41.57%)	0.227	(-0.256,0.709)	35.91%	(30.73%,41.10%)	1.25	(0.77,2.03)
	West	29.73%	(21.35%,38.11%)	0.000	(0.000, 0.000)	31.14%	(22.68%,39.59%)	1.00	n/a
Department	All Career	19.29% ^{2,3}	(14.00%,24.58%)	-0.188	(-0.686,0.309)	33.87%	(23.64%,44.11%)	0.83	(0.50,1.36)
Туре	All Volunteer	37.38%1	(31.84%,42.92%)	0.000	(0.000, 0.000)	37.94%	(32.26%, 43.63%)	1.00	n/a
(0.2334)	Combination	33.55% ¹	(29.66%,37.44%)	-0.277	(-0.605,0.051)	32.03%	(28.20%,35.86%)	0.76	(0.55,1.05)
Jurisdiction	Urban	21.15% ²	(15.89%,26.40%)	-0.362	(-0.817,0.093)	27.79%	(19.78%,35.81%)	0.70	(0.44,1.10)
(0.1192)	Rural/Missing	36.95% ¹	(33.43%,40.46%)	0.000	(0.000,0.000)	35.19%	(31.81%,38.58%)	1.00	n/a
Jurisdiction	50,000+	$13.50\%^{2,3}$	(9.22%,17.78%)	-1.176*	(-1.743,-0.608)	$16.54\%^{2,3}$	(9.70%,23.38%)	0.31*	(0.18,0.54)
S_{12e}	5,000-50,000	$25.71\%^{1,2}$	(21.40%, 30.02%)	-0.526	(-0.863,-0.190)	$27.12\%^{1,0}$	(22.26%, 31.99%)	0.59	(0.42,0.83)
(0.0001)	0-5,000	39.40%	(35.22%,45.59%)	0.000	(0.000,0.000)	38.18%	(33.89%,42.47%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	10.28% ³	(4.86%,15.70%)	-1.207*	(-1.823,-0.591)	14.15% ³	(6.99%,21.31%)	0.30*	(0.16,0.55)
(0.0000)	Fatality - No Investigation	17.88% ³	(10.44%,25.32%)	-0.835*	(-1.395,-0.275)	$19.10\%^{3}$	(11.05%,27.16%)	0.43*	(0.25,0.76)
	No Fatality	34.42% ^{1,2}	(31.33%,37.51%)	0.000	(0.000, 0.000)	34.33% ^{1,2}	(31.26%,37.41%)	1.00	n/a
Who	Fire Chief	33.44% ^{3,4}	(29.77%,37.10%)	-0.525*	(-0.873,-0.178)	32.94% ^{3,4}	(29.32%,36.56%)	0.59*	(0.42,0.84)
Completed	Safety Officer	$20.65\%^{-1}$	(5./4%,35.56%)	-0.918	(-1.882,0.046)	$25.15\%^{-15}$	(8.19%,42.10%)	0.40	(0.15,1.05)
Survey ($Q62$)	I raining Officer	$14.41\%^{1,4}$	(0.21%, 22.62%)	-1.524	(-2.266, -0.782)	15.69% ^{1,4}	(6.78%, 24.59%)	0.22	(0.10,0.46)
(0.0002)	Other/Missing	44.37%	(3/.3/%, 31.3/%)	0.000	(0.000, 0.000)	44.83%	(37.83%,31.83%)	1.00	n/a

Model 41: Q11. In what ways has your department used NIOSH recommendations: Does not apply. We have not used NIOSH recommendations.

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		50.40%	(46.56%,54.25%)	0.187	(-0.413,0.788)	50.40%	(46.56%,54.25%)		
Region (0.2437)	Northeast South Midwest	47.03% 54.81% 45.90%	(39.21%,54.85%) (47.81%,61.82%) (39.25%,52.55%)	-0.333 -0.038 -0.384	(-0.881, 0.215) (-0.550, 0.474) (-0.897, 0.128)	47.43% 54.72% 46.16%	(39.39%,55.48%) (47.62%,61.82%) (39.48%,52.85%)	0.72 0.96 0.68	(0.41,1.24) $(0.58,1.61)$ $(0.41,1.14)$
	West	56.76%	(46.55%,66.98%)	0.000	(0.000.0.000)	55.64%	(45.17%,66.10%)	1.00	(0.11,1.11) n/a
Department Type (0.6157)	All Career All Volunteer Combination	42.70% 52.13% 50.32%	(34.94%,50.45%) (45.23%,59.02%) (45.26%,55.37%)	-0.253 0.000 -0.053	(-0.758,0.251) (0.000,0.000) (-0.440,0.334)	45.39% 51.60% 50.30%	(33.68%,57.10%) (44.22%,58.98%) (45.10%,55.50%)	0.78 1.00 0.95	(0.47,1.29) n/a (0.64,1.40)
Jurisdiction Type (0.2639)	Urban Rural/Missing	44.24% 52.14%	(37.34%,51.13%) (47.62%,56.65%)	-0.243	(-0.670,0.184)	45.73% 51.70%	(36.74%,54.71%) (47.20%,56.21%)	0.78	(0.51,1.20) n/a
Jurisdiction Size ^f (0.8620)	50,000+ 5,000-50,000 0 - 5,000	49.40% 47.67% 52.26%	(41.85%,56.94%) (42.04%,53.30%) (46.77%,57.74%)	-0.019 -0.091 0.000	(-0.618,0.580) (-0.462,0.280) (0.000,0.000)	50.79% 49.03% 51.26%	(38.43%,63.15%) (42.88%,55.18%) (45.42%,57.11%)	0.98 0.91 1.00	(0.54,1.79) (0.63,1.32) n/a
FFFIPP/ Fatality (0.0936)	Fatality with Investigation Fatality - No Investigation No Fatality	57.42% 58.44% 50.21%	(48.15%,66.68%) (47.19%,69.69%) (46.27%,54.15%)	0.380 0.361 0.000	(-0.040,0.799) (-0.133,0.856) (0.000,0.000)	59.39% 58.95% 50.18%	(49.73%,69.05%) (47.77%,70.14%) (46.26%,54.10%)	1.46 1.44 1.00	(0.96,2.22) (0.88,2.35) n/a
Who Completed Survey (Q62) (0.3605)	Fire Chief Safety Officer Training Officer Other/Missing	$ 50.42\% 66.37\%^4 51.98\% 46.10\%^2 $	(45.78%,55.06%) (48.37%,84.37%) (38.79%,65.17%) (37.21%,54.98%)	0.168 0.850 0.235 0.000	(-0.249,0.586) (-0.106,1.805) (-0.403,0.872) (0.000,0.000)	50.38% 66.54% 52.01% 46.23%	(45.76%,54.99%) (46.57%,86.51%) (38.83%,65.19%) (37.19%,55.28%)	1.18 2.34 1.26 1.00	(0.78,1.80) (0.90,6.08) (0.67,2.39) n/a

Model 42: Q11b. Topics of NIOSH recommendations used for training purposes: Traffic hazards

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		71.53%	(68.09%,74.97%)	0.891^{*}	(0.234,1.547)	71.53%	(68.09%,74.97%)		
Region (0.4310)	Northeast South	75.29% 69.60%	(68.56%,82.03%) (63.14%,76.07%)	0.454	(-0.141,1.049) (-0.423,0.673)	75.78% 69.26%	(68.97%,82.59%) (62.66%,75.86%)	1.57 1.13	(0.87,2.86) (0.66,1.96)
	Midwest West	72.13% 67.25%	(66.23%,78.03%) (57.49%,77.02%)	0.272	$\frac{(-0.278, 0.822)}{(0.000, 0.000)}$	72.28% 66.54%	(66.39%,78.18%) (56.41%,76.68%)	1.31 1.00	(0.76,2.27) n/a
Department Type (0.5698)	All Career All Volunteer Combination	68.79% 72.98% 71.06%	(61.83%,75.75%) (66.96%,78.99%) (66.47%,75.64%)	-0.258 0.000 -0.155	(-0.789,0.272) (0.000,0.000) (-0.580,0.271)	68.47% 73.74% 70.66%	(57.81%,79.14%) (67.40%,80.07%) (65.86%,75.45%)	0.77 1.00 0.86	(0.45,1.31) n/a (0.56,1.31)
Jurisdiction Type (0.8519)	Urban Rural/Missing	71.60%	(65.36%,77.84%) (67.47%,75.56%)	-0.046	(-0.533,0.441)	70.79%	(62.22%,79.36%) (67.69%,75.78%)	0.95	(0.59,1.55) n/a
Jurisdiction Size ^f (0.6469)	50,000+ 5,000-50,000 0 - 5,000	72.47% 71.66% 71.38%	(65.69%,79.26%) (66.66%,76.67%) (66.45%,76.31%)	0.255 0.002 0.000	(-0.395,0.905) (-0.418,0.421) (0.000,0.000)	76.20% 71.33% 71.30%	(66.39%,86.01%) (65.65%,77.02%) (65.95%,76.64%)	1.29 1.00 1.00	(0.67,2.47) (0.66,1.52) n/a
FFFIPP/ Fatality (0.3798)	Fatality with Investigation Fatality - No Investigation No Fatality	68.79% 65.03% 71.65%	(60.07%,77.50%) (54.12%,75.94%) (68.13%,75.18%)	-0.139 -0.344 0.000	(-0.587,0.308) (-0.860,0.172) (0.000,0.000)	68.77% 64.24% 71.66%	(59.53%,78.01%) (53.12%,75.36%) (68.15%,75.17%)	0.87 0.71 1.00	(0.56,1.36) (0.42,1.19) n/a
Who Completed Survey (Q62) (0.8817)	Fire Chief Safety Officer Training Officer Other/Missing	71.42% 65.45% 71.70% 73.19%	(67.25%,75.60%) (47.55%,83.35%) (59.86%,83.55%) (65.56%,80.81%)	-0.095 -0.357 -0.048 0.000	(-0.552,0.362) (-1.245,0.532) (-0.742,0.646) (0.000,0.000)	71.33% 65.73% 72.27% 73.22%	(67.16%,75.51%) (47.25%,84.21%) (60.58%,83.96%) (65.38%,81.06%)	0.91 0.70 0.95 1.00	(0.58,1.44) (0.29,1.70) (0.48,1.91) n/a

Model 43: Q11b. Topics of NIOSH recommendations used for training purposes: Personal protective equipment and clothing

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		68.88%	(65.29%,72.47%)	0.707^{*}	(0.059,1.355)	68.88%	(65.29%,72.47%)		
Region	Northeast	72.00%	(64.98%,79.03%)	0.120	(-0.480,0.720)	71.65%	(64.40%,78.91%)	1.13	(0.62,2.05)
(0.2706)	South	63.50%	(56.61%,70.39%)	-0.257	(-0.813,0.298)	63.51%	(56.57%,70.46%)	0.77	(0.44,1.35)
	Midwest	71.34%	(65.31%,77.38%)	0.140	(-0.424, 0.703)	72.04%	(66.05%, 78.04%)	1.15	(0.65,2.02)
	West	70.19%	(00.82%,79.37%)	0.000	(0.000,0.000)	09.1070	(39.27%,79.09%)	1.00	11/ a
Department	All Career	68.56%	(61.18%,75.95%)	-0.442	(-1.003,0.120)	60.31%	(47.91%,72.71%)	0.64	(0.37,1.13)
Type	All Volunteer	70.63%	(64.24%,77.01%)	0.000	(0.000,0.000)	70.09%	(63.20%,76.98%)	1.00	n/a
(0.2981)	Combination	67.98%	(63.24%,72.72%)	-0.050	(-0.475,0.375)	69.05%	(64.29%,73.82%)	0.95	(0.62,1.45)
Jurisdiction	Urban	74.07%	(68.18%,79.97%)	0.145	(-0.334,0.623)	71.26%	(62.89%,79.63%)	1.16	(0.72,1.86)
Type (0.5537)	Rural/Missing	67.42%	(63.13%,71.70%)	0.000	(0.000,0.000)	68.26%	(64.04%,72.48%)	1.00	n/a
Jurisdiction Size ^f (0.1538)	50,000+	$74.30\%^{3}$	(68.07%,80.54%)	0.583	(-0.058,1.224)	77.31%	(67.91%,86.71%)	1.79	(0.94, 3.40)
	0 = 5,000	65 62% ^{1,2}	(60.35%, 78.20%) (60.36%, 70.88%)	0.342		72.80% 65.68%	(67.28%, 78.44%) (60.05% 71.31%)	1.41	(0.95,2.15) n/a
FFFIPP/	Fatality with	65 18%	(56 22% 74 14%)	0.235	(0.676.0.205)	63 87%	(54 21% 73 53%)	0.70	(0.51.1.23)
(0.3627)	Fatality - No Investigation	63.80%	(52.81%,74.80%)	-0.233	(-0.791,0.232)	62.86%	(51.77%,73.95%)	0.79	(0.45,1.26)
	No Fatality	68.99%	(65.32%,72.66%)	0.000	(0.000,0.000)	69.02%	(65.36%,72.67%)	1.00	n/a
Who Completed Survey (Q62)	Fire Chief	68.04%	(63.66%,72.42%)	-0.039	(-0.496,0.417)	68.23%	(63.89%,72.56%)	0.96	(0.61,1.52)
	Safety Officer	68.82%	(52.04%,85.60%)	-0.076	(-0.989,0.838)	67.45%	(49.10%,85.80%)	0.93	(0.37,2.31)
	Training Officer	74.77%	(63.72%,85.83%)	0.272	(-0.424,0.967)	74.47%	(63.49%,85.45%)	1.31	(0.65,2.63)
(0./995)	Other/Missing	69.35%	(61.19%,77.52%)	0.000	(0.000, 0.000)	69.06%	(60.55%,77.57%)	1.00	n/a

Model 44: Q11b. Topics of NIOSH recommendations used for training purposes: SCBA

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Prevalence ^b		Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		56.11%	(52.31%,59.91%)	0.210	(-0.402,0.821)	56.11%	(52.31%,59.91%)		
Region (0.4441)	Northeast South	60.95% 52.32%	(53.33%,68.58%) (45.27%,59.37%)	0.302	(-0.254, 0.857) (-0.554, 0.479)	60.47% 52.25%	(52.62%,68.31%) (45.16%,59.33%)	1.35 0.96	(0.78, 2.36) (0.57, 1.61)
(0)	Midwest West	56.61% 54.52%	(50.04%,63.19%) (44.27%,64.77%)	0.185	(-0.336,0.707) (0.000,0.000)	57.69% 53.17%	(51.17%,64.21%) (42.46%,63.89%)	1.20 1.00	(0.71,2.03) n/a
Department Type (0.0438)	All Career All Volunteer Combination	49.95% ² 60.71% ¹ 54.33%	(42.25%,57.65%) (54.01%,67.42%) (49.30%,59.36%)	-0.618 [*] 0.000 -0.247	(-1.116,-0.120) (0.000,0.000) (-0.637,0.143)	45.66% ² 60.72% ¹ 54.78%	(34.22%,57.10%) (53.56%,67.89%) (49.61%,59.95%)	0.54 [*] 1.00 0.78	(0.33,0.89) n/a (0.53,1.15)
Jurisdiction Type (0.2429)	Urban Rural/Missing	61.64% 54.55%	(55.11%,68.17%) (50.05%,59.06%)	0.259	(-0.176,0.694)	60.99% 54.77%	(52.20%,69.79%) (50.28%,59.25%)	1.30 1.00	(0.84,2.00) n/a
Jurisdiction Size ^f (0.4849)	50,000+ 5,000-50,000 0 - 5,000	52.20% 60.15% 53.75%	(44.82%,59.59%) (54.72%,65.59%) (48.26%,59.23%)	-0.082 0.153 0.000	(-0.660,0.497) (-0.224,0.529) (0.000,0.000)	52.81% 58.51% 54.81%	(40.94%,64.69%) (52.37%,64.64%) (49.01%,60.62%)	0.92 1.16 1.00	(0.52,1.64) (0.80,1.70) n/a
FFFIPP/ Fatality (0.4761)	Fatality with Investigation Fatality - No Investigation No Fatality	53.03% 50.26% 56.23%	(43.70%,62.36%) (38.77%,61.75%) (52.34%,60.12%)	-0.068 -0.298 0.000	(-0.482,0.347) (-0.784,0.188) (0.000,0.000)	54.58% 48.94% 56.23%	(44.78%,64.39%) (37.62%,60.26%) (52.36%,60.11%)	0.93 0.74 1.00	(0.62,1.41) (0.46,1.21) n/a
Who Completed Survey (Q62) (0.7152)	Fire Chief Safety Officer Training Officer Other/Missing	55.69% 65.94% 54.98% 56.27%	(51.09%,60.30%) (49.31%,82.58%) (42.05%,67.90%) (47.45%,65.10%)	-0.012 0.447 -0.046 0.000	(-0.444,0.421) (-0.384,1.279) (-0.686,0.595) (0.000,0.000)	55.74% 66.43% 54.91% 56.02%	(51.17%,60.31%) (49.49%,83.37%) (42.00%,67.82%) (46.72%,65.32%)	0.99 1.56 0.96 1.00	(0.64,1.52) (0.68,3.59) (0.50,1.81) n/a

Model 45: Q11b. Topics of NIOSH recommendations used for training purposes: PASS systems

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).
	~ 1	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		55.19%	(51.36%,59.03%)	-0.121	(-0.725,0.483)	55.19%	(51.36%,59.03%)		
Region	Northeast	55.24%	(47.47%,63.01%)	0.046	(-0.504,0.597)	54.19%	(46.18%,62.19%)	1.05	(0.60,1.82)
(0.8340)	South	57.25%	(50.25%,64.26%)	0.197	(-0.322,0.715)	57.86%	(50.81%,64.91%)	1.22	(0.72,2.05)
	Midwest	53.60%	(46.92%,60.27%)	0.043	(-0.475,0.561)	54.12%	(47.46%,60.78%)	1.04	(0.62,1.75)
	West	53.66%	(43.28%,64.04%)	0.000	(0.000, 0.000)	53.05%	(42.31%,63.79%)	1.00	n/a
Department	All Career	52.45%	(44.59%,60.31%)	-0.444	(-0.950,0.063)	46.16%	(34.47%,57.85%)	0.64	(0.39,1.06)
Туре	All Volunteer	57.53%	(50.70%,64.36%)	0.000	(0.000, 0.000)	57.09%	(49.76%,64.41%)	1.00	n/a
(0.2286)	Combination	54.24%	(49.18%,59.30%)	-0.079	(-0.468,0.309)	55.15%	(49.95%,60.34%)	0.92	(0.63,1.36)
Jurisdiction	Urban	60.62%	(53.83%,67.41%)	0.355	(-0.084,0.795)	61.90%	(53.03%,70.76%)	1.43	(0.92,2.21)
(0.1132)	Rural/Missing	53.66%	(49.14%,58.19%)	0.000	(0.000,0.000)	53.30%	(48.79%,57.81%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5,000-50,000	56.39% 57.61%	(48.81%,63.98%) (52.05%,63.16%)	0.116	(-0.476,0.708) (-0.307,0.439)	57.30% 56.09%	(45.21%,69.40%) (49.93%,62.25%)	1.12 1.07	(0.62,2.03) (0.74,1.55)
(0.9174)	0-5,000	53.53%	(48.03%,59.03%)	0.000	(0.000, 0.000)	54.47%	(48.62%,60.32%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	53.09%	(43.74%,62.44%)	-0.116	(-0.529,0.298)	52.26%	(42.36%,62.16%)	0.89	(0.59,1.35)
(0.3139)	Fatality - No Investigation	63.69%	(52.64%,74.73%)	0.355	(-0.156,0.866)	63.56%	(52.38%,74.75%)	1.43	(0.86,2.38)
	No Fatality	55.09%	(51.17%,59.02%)	0.000	(0.000, 0.000)	55.10%	(51.19%,59.01%)	1.00	n/a
Who Completed	Fire Chief	55.62% 60.00%	(50.99%,60.24%) (41,66%,78,34%)	0.244	(-0.174, 0.662)	56.03%	(51.42%,60.63%) (38.86% 78.19%)	1.28	(0.84, 1.94) (0.59, 3, 38)
Survey (O62)	Training Officer	57.61%	(44 57% 70 66%)	0.295	(-0.344.0.933)	57 25%	(44 16% 70 35%)	1.42	(0.71, 2.54)
(0.6459)	Other/Missing	51.20%	(42.32%,60.08%)	0.000	(0.000,0.000)	50.00%	(40.88%,59.11%)	1.00	n/a

Model 46: Q11b. Topics of NIOSH recommendations used for training purposes: Incident Command systems

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u><u> </u></u>	Pro	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		39.63%	(35.87%,43.40%)	-0.067	(-0.690,0.556)	39.63%	(35.87%,43.40%)		
Region	Northeast	36.63%	(29.13%,44.13%)	-0.457	(-1.012,0.098)	35.86%	(28.30%,43.42%)	0.63	(0.36,1.10)
(0.4457)	South	40.38%	(33.45%,47.32%)	-0.260	(-0.779,0.260)	40.48%	(33.50%,47.47%)		(0.46,1.30)
	Midwest	38.34%	(31.83%,44.85%)	-0.322	(-0.847,0.202)	38.99%	(32.40%,45.57%)	0.72	(0.43,1.22)
	West	46.94%	(36.50%,57.37%)	0.000	(0.000,0.000)	46.81%	(36.03%,57.58%)	1.00	n/a
Department	All Career	35.50%	(28.56%,42.44%)	-0.559 [*]	(-1.047,-0.071)	28.68% ^{2,3}	(19.40%,37.96%)	0.57 [*]	(0.35,0.93)
Type	All Volunteer	42.78%	(35.94%,49.62%)	0.000	(0.000,0.000)	41.12% ¹	(33.94%,48.31%)	1.00	n/a
(0.0751)	Combination	38.41%	(33.48%,43.33%)	-0.042	(-0.433,0.348)	40.12% ¹	(34.96%,45.28%)	0.96	(0.65,1.42)
Jurisdiction Type (0.2325)	Urban Rural/Missing	43.72% 38.48%	(36.85%,50.60%) (34.07%,42.90%)	0.262	(-0.168,0.691)	44.55% 38.27%	(35.51%,53.59%) (33.91%,42.63%)	1.30 1.00	(0.85,2.00) n/a
Jurisdiction	50,000+	44.15%	(36.58%,51.72%)	0.219	(-0.360,0.798)	43.70%	(31.87%,55.53%)	1.24	(0.70,2.22)
Size ^f	5,000-50,000	41.82%	(36.28%,47.36%)	0.107	(-0.269,0.483)	40.99%	(34.95%,47.03%)	1.11	(0.76,1.62)
(0.7489)	0 - 5,000	37.89%	(32.53%,43.25%)	0.000	(0.000,0.000)	38.46%	(32.75%,44.17%)	1.00	n/a
FFFIPP/ Fatality (0.1233)	Fatality with Investigation Fatality - No Investigation No Fatality	46.41% 49.64% 39.42%	(37.07%,55.75%) (38.16%,61.11%) (35.56%,43.27%)	0.276 0.429 0.000	(-0.138,0.691) (-0.065,0.923) (0.000,0.000)	46.09% 49.86% 39.42%	(36.21%,55.97%) (38.27%,61.44%) (35.58%,43.26%)	1.32 1.54 1.00	(0.87,2.00) (0.94,2.52) n/a
Who	Fire Chief	38.73%	(34.21%,43.26%)	-0.132	(-0.561,0.297)	39.21%	(34.69%,43.73%)	0.88	(0.57,1.35)
Completed	Safety Officer	43.27%	(25.13%,61.42%)	-0.070	(-0.919,0.778)	40.68%	(21.79%,59.58%)	0.93	(0.40,2.18)
Survey (Q62)	Training Officer	38.30%	(25.41%,51.18%)	-0.219	(-0.878,0.441)	37.19%	(24.34%,50.03%)	0.80	(0.42,1.55)
(0.9099)	Other/Missing	43.21%	(34.36%,52.07%)	0.000	(0.000,0.000)	42.37%	(33.21%,51.53%)	1.00	n/a

Model 47: Q11b. Topics of NIOSH recommendations used for training purposes: Radio communications

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		14.65%	(12.11%,17.20%)	-2.314*	(-3.081,-1.546)	14.65%	(12.11%,17.20%)		
Region (0.3386)	Northeast South Midwest West	12.02% 14.96% 14.53% 19.55%	(7.12%,16.92%) (10.41%,19.51%) (9.95%,19.12%) (11.91%,27.20%)	-0.687 -0.331 -0.360 0.000	(-1.421,0.047) (-0.959,0.297) (-1.016,0.297) (0.000,0.000)	11.34% 15.26% 14.90% 19.79%	(6.56%,16.13%) (10.66%,19.85%) (10.29%,19.52%) (11.83%,27.74%)	0.50 0.72 0.70 1.00	(0.24,1.05) (0.38,1.35) (0.36,1.35) n/a
Department Type (0.1926)	All Career All Volunteer Combination	30.77% ^{2,3} 14.32% ¹ 13.08% ¹	(23.51%,38.02%) (9.97%,18.68%) (9.71%,16.45%)	0.551 0.000 0.212	(-0.051,1.152) (0.000,0.000) (-0.289,0.713)	19.72% 12.67% 15.10%	(11.53%,27.91%) (8.65%,16.68%) (11.35%,18.85%)	1.73 1.00 1.24	(0.95,3.16) n/a (0.75,2.04)
Jurisdiction Type (0.4965)	Urban Rural/Missing	22.09% ² 12.56% ¹	(16.68%,27.49%)	0.181	(-0.341,0.704)	16.26% 14.03%	(10.74%,21.78%)	1.20 1.00	(0.71,2.02) n/a
Jurisdiction Size ^f (0.0037)	50,000+ 5,000-50,000 0 - 5,000	$\frac{32.22\%^{2,3}}{20.20\%^{1,3}}$ 9.78% ^{1,2}	(25.28%,39.17%) (15.72%,24.69%) (6.59%,12.96%)	1.056 [*] 0.837 [*] 0.000	(0.313,1.800) (0.324,1.350) (0.000,0.000)	$\frac{24.02\%^3}{20.32\%^3}$ 10.07\% ^{1,2}	(13.34%,34.71%) (15.40%,25.24%) (6.72%,13.41%)	2.88 [*] 2.31 [*] 1.00	(1.37,6.05) (1.38,3.86) n/a
FFFIPP/ Fatality (0.0104)	Fatality with Investigation Fatality - No Investigation No Fatality	33.13% ³ 20.83% 14.36% ¹	(24.78%,41.48%) (11.25%,30.42%) (11.76%,16.97%)	0.653 [*] 0.406 0.000	(0.215,1.090) (-0.297,1.109) (0.000,0.000)	23.88% ³ 19.91% 14.45% ¹	(16.69%,31.06%) (9.78%,30.04%) (11.85%,17.05%)	1.92 [*] 1.50 1.00	(1.24,2.98) (0.74,3.03) n/a
Who Completed Survey (Q62) (0.1062)	Fire Chief Safety Officer Training Officer Other/Missing	14.71% 28.14% ³ 10.31% ² 13.69%	(11.51%,17.91%) (13.36%,42.92%) (4.07%,16.55%) (8.44%,18.93%)	0.353 0.740 -0.321 0.000	(-0.189,0.894) (-0.118,1.599) (-1.135,0.492) (0.000,0.000)	15.83% ³ 21.36% 8.96% ¹ 11.83%	(12.55%,19.11%) (9.15%,33.58%) (3.48%,14.44%) (7.09%,16.57%)	1.42 2.10 0.73 1.00	(0.83,2.45) (0.89,4.95) (0.32,1.64) n/a

Model 48: Q11b. Topics of NIOSH recommendations used for training purposes: Physical fitness and cardiovascular disease (CVD)

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	Q	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		11.89%	(9.44%,14.33%)	-1.573 [*]	(-2.422,-0.725)	11.89%	(9.44%,14.33%)		
Region	Northeast	14.14%	(8.68%,19.60%)	0.151	(-0.649,0.951)	15.37%	(9.25%,21.49%)	1.16	(0.52,2.59)
(0.2901)	South	9.18%	(5.30%,13.06%)	-0.498	(-1.272,0.276)	8.74%	(5.01%,12.46%)	0.61	(0.28,1.32)
	Midwest	11.77%	(7.69%,15.84%)	-0.156	(-0.901,0.588)	11.83%	(7.70%,15.96%)	0.86	(0.41,1.80)
	West	14.33%	(6.68%,21.97%)	0.000	(0.000, 0.000)	13.53%	(6.31%,20.76%)	1.00	n/a
Department	All Career	$20.23\%^{2,3}$	(14.16%,26.31%)	1.068*	(0.306,1.830)	$28.25\%^{2,3}$	(15.20%,41.31%)	2.91*	(1.36,6.23)
1 ype	All Volunteer	11.84%	(7.35%,16.34%)	0.000	(0.000,0.000)	12.14%	(7.27%,17.00%)	1.00	n/a
(0.0045)	Combination	11.01%	(7.86%,14.15%)	-0.166	(-0./49,0.41/)	10.49%	(7.48%,13.51%)	0.85	(0.47,1.52)
Jurisdiction	Urban	10.37%	(6.83%,13.92%)	-0.704*	(-1.379,-0.030)	7.38% ²	(3.71%,11.05%)	0.49*	(0.25,0.97)
(0.0407)	Rural/Missing	12.31%	(9.34%,15.28%)	0.000	(0.000,0.000)	13.67% ¹	(10.44%,16.90%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5,000-50,000	15.39% 11.78%	(9.90%,20.88%) (8.39%,15.16%)	-0.162 0.040	(-1.084,0.759) (-0.521,0.600)	10.26% 12.24%	(3.34%,17.18%) (8.34%,16.14%)	0.85 1.04	(0.34,2.14) (0.59,1.82)
(0.8623)	0-5,000	11.71%	(8.14%,15.28%)	0.000	(0.000, 0.000)	11.82%	(8.05%,15.60%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	17.50%	(10.62%,24.37%)	0.355	(-0.202,0.911)	16.04%	(8.86%,23.22%)	1.43	(0.82,2.49)
(0.3145)	Fatality - No Investigation	9.45%	(2.29%,16.62%)	-0.356	(-1.276,0.564)	8.68%	(1.74%,15.61%)	0.70	(0.28,1.76)
	No Fatality	11.86%	(9.36%,14.36%)	0.000	(0.000,0.000)	11.89%	(9.39%,14.38%)	1.00	n/a
Who	Fire Chief	11.32%	(8.47%,14.18%)	-0.191	(-0.813,0.430)	11.35%	(8.54%,14.17%)	0.83	(0.44,1.54)
Completed	Safety Officer	18.51%	(2.68%, 34.33%)	0.352	(-0.894,1.599)	17.93%	(0.9/%, 34.89%)	1.42	(0.28.2.12)
(0.7928)	Other/Missing	13.13%	(2.10%, 20.17%) (7.42%, 18.84%)	0.237	(0.000,0.000)	10.72%	(2.39%, 19.05%) (7.20%, 19.58%)	1.00	(0.28,2.12) n/a

Model 49: Q11b. Topics of NIOSH recommendations used for training purposes: Building code compliance

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		3.99%	(2.49%,5.49%)	-4.148^{*}	(-5.575,-2.721)	3.99%	(2.49%,5.49%)		
Region	Northeast	3.22%	(0.61%,5.83%)	-0.363	(-1.597,0.871)	2.71%	(0.43%,4.99%)	0.70	(0.20, 2.39)
(0.2093)	Midwest West	2.65% 4.02%	(2.30%, 9.42%) $(0.63%, 4.67%)$ $(1.06%, 6.98%)$	-0.305 0.000	(-0.480, 1.018) $(-1.475, 0.866)$ $(0.000, 0.000)$	<u>0.49%</u> <u>2.87%</u> <u>3.83%</u>	$\frac{(2.30\%, 10.47\%)}{(0.62\%, 5.11\%)}$ $(0.83\%, 6.83\%)$	0.74	(0.02,5.04) (0.23,2.38) n/a
Department Type (0.6645)	All Career All Volunteer Combination	5.38% 4.75% 3.43%	(1.79%,8.98%) (1.85%,7.65%) (1.55%,5.32%)	-0.499 0.000 -0.035	(-1.593,0.595) (0.000,0.000) (-1.054,0.985)	2.66% 4.26% 4.13%	(0.04%,5.29%) (1.44%,7.09%) (1.76%,6.50%)	0.61 1.00 0.97	(0.20,1.81) n/a (0.35,2.68)
Jurisdiction Type (0.0367)	Urban Rural/Missing	7.71% ² 2.95% ¹	(3.82%,11.59%)	1.221 [*] 0.000	(0.076,2.367)	8.87% 2.83%	(1.52%,16.21%)	3.39 [*] 1.00	(1.08,10.66) n/a
Jurisdiction Size ^f (0.9828)	50,000+ 5,000-50,000 0 - 5,000	6.45% 5.03% 3.13%	(2.62%,10.29%) (2.62%,7.45%) (1.09%,5.17%)	-0.109 0.002 0.000	(-1.769,1.551) (-1.082,1.086) (0.000,0.000)	3.62% 4.02% 4.01%	(0.00%,7.75%) (1.82%,6.22%) (1.06%,6.97%)	0.90 1.00 1.00	(0.17,4.72) (0.34,2.96) n/a
FFFIPP/ Fatality (0.5250)	Fatality with Investigation Fatality - No Investigation No Fatality	7.46% 2.79% 3.97%	(2.65%,12.27%) (0.00%,6.25%) (2.43%,5.51%)	0.399 -0.412 0.000	(-0.479,1.277) (-1.759,0.934) (0.000,0.000)	5.77% 2.70% 3.99%	(1.41%,10.12%) (0.00%,6.03%) (2.45%,5.52%)	1.49 0.66 1.00	(0.62,3.58) (0.17,2.55) n/a
Who Completed Survey (Q62) (0.4341)	Fire Chief Safety Officer Training Officer Other/Missing	3.77% 9.63% 5.71% 2.82%	(1.93%, 5.61%) $(0.00%, 22.71%)$ $(0.67%, 10.76%)$ $(0.67%, 4.96%)$	0.612 1.302 0.872 0.000	(-0.365,1.590) (-0.698,3.303) (-0.418,2.163) (0.000,0.000)	4.10% 7.71% 5.22% 2.28%	(2.12%,6.07%) (0.00%,20.27%) (0.40%,10.04%) (0.48%,4.09%)	$ 1.84 \\ 3.68 \\ 2.39 \\ 1.00 $	(0.69,4.90) (0.50,27.19) (0.66,8.70) n/a

)

Model 50: Q11b. Topics of NIOSH recommendations used for training purposes: Other (Please specify:____

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		3.30%	(1.94%,4.66%)	-5.583 [*]	(-8.134,-3.032)	3.30%	(1.94%,4.66%)		
Region	Northeast	4.47%	(1.32%,7.63%)	1.303	(-0.597,3.203)	4.16%	(1.14%,7.19%)	3.68	(0.55,24.60)
(0.5496)	South Midwest	3.54%	(1.01%, 6.06%) (0.64%, 5.34%)	1.221	(-0.734, 3.175) (-1.041, 2.818)	3.85%	(1.14%, 6.57%) (0.62%, 4.98%)	3.39	(0.48,23.94) (0.35,16,75)
	West	1.06%	(0.00%,2.87%)	0.000	(0.000,0.000)	1.18%	(0.00%,3.22%)	1.00	(0.55,10.75) n/a
Department Type	All Career All Volunteer	3.08% 2.06%	(0.54%,5.62%) (0.31%,3.80%)	0.849	(-0.637,2.334) (0.000,0.000)	5.27% 2.35%	(0.00%,10.93%) (0.40%,4.31%)	2.34 1.00	(0.53,10.32) n/a
(0.5114)	Combination	3.99%	(1.99%,6.00%)	0.440	(-0.547,1.426)	3.59%	(1.82%,5.35%)	1.55	(0.58,4.16)
Jurisdiction Type	Urban	2.98%	(0.67%,5.29%)	0.213	(-1.208,1.633)	3.90%	(0.00%,8.39%)	1.24	(0.30,5.12)
(0.7690)	Rural/Missing	3.39%	(1.78%, 5.01%)	0.000	(0.000, 0.000)	3.18%	(1.61%,4.75%)	1.00	n/a
Jurisdiction Size ^f (0.4633)	50,000+ 5,000-50,000 0 - 5,000	1.45% 2.57% 3.92%	(0.00%,2.94%) (0.85%,4.29%) (1.86%,5.97%)	-1.194 -0.482 0.000	(-3.091,0.704) (-1.622,0.657) (0.000,0.000)	1.26% 2.52% 3.99%	(0.00%,3.28%) (0.55%,4.49%) (1.67%,6.31%)	0.30 0.62 1.00	(0.05,2.02) (0.20,1.93) n/a
FFFIPP/ Fatality (0.1774)	Fatality with Investigation Fatality - No Investigation	2.80% 7.86%	(0.00%,6.08%) (1.97%,13.74%)	-0.094 0.913	(-1.395,1.207) (-0.069,1.894)	2.96% 7.58%	(0.00%,6.54%) (1.64%,13.51%)	0.91	(0.25,3.34) (0.93,6.65)
	No Fatanty	3.24%	(1.85%,4.05%)	0.000	(0.000,0.000)	3.24%	(1.80%,4.03%)	1.00	n/a
Who Completed	Fire Chief Safety Officer	4.03% ³ 5.75%	(2.27%,5.80%) (0.00%,15.84%)	1.110 1.695	(-0.770,2.991) (-0.969,4.359)	3.91% ³ 6.77%	(2.22%,5.60%) (0.00%,19.56%)	3.03 5.45	(0.46,19.90) (0.38,78.18)
Survey (Q62) (0.0111)	Training Officer Other/Missing	$0.37\%^{1}$ 1.27%	$\frac{(0.00\%, 0.89\%)}{(0.00\%, 3.52\%)}$	-1.188 0.000	$\frac{(-3.465, 1.089)}{(0.000, 0.000)}$	$\frac{0.41\%^{1}}{1.33\%}$	$\frac{(0.00\%, 0.98\%)}{(0.00\%, 3.71\%)}$	0.30	(0.03,2.97) n/a

Model 51: Q11b. Topics of NIOSH recommendations used for training purposes: Does not apply. We have not used NIOSH recommendations for training purposes.

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		21.54%	(19.53%,23.56%)	-0.591*	(-1.118,-0.064)	21.54%	(19.53%,23.56%)		
Region (0.0000)	Northeast South Midwest	$ 18.43\%^{4} 21.18\%^{4} 16.42\%^{4} 16.42\%^{4} 40.70\%^{1/23} $	(13.68%,23.18%) (17.42%,24.94%) (13.24%,19.60%)	-1.431 [*] -1.081 [*] -1.364 [*]	(-2.014,-0.848) (-1.556,-0.606) (-1.852,-0.877)	$\frac{17.26\%^4}{21.42\%^4}$ $\frac{18.00\%^4}{18.00\%^4}$	(12.74%,21.78%) (17.94%,24.91%) (14.75%,21.26%) (21.17%,45.18%)	$\begin{array}{r} 0.24^{*} \\ 0.34^{*} \\ 0.26^{*} \\ \end{array}$	(0.13,0.43) (0.21,0.55) (0.16,0.42)
Department Type (0.0000)	All Career All Volunteer Combination	$\begin{array}{c} 40.70\%^{2,3} \\ \hline 72.40\%^{2,3} \\ \hline 30.12\%^{1,3} \\ \hline 12.71\%^{1,2} \end{array}$	(33.15%,48.26%) (66.32%,78.48%) (26.17%,34.06%) (10.32%,15.11%)	0.569 [*] 0.000 -0.781 [*]	(0.113,1.025) (0.000,0.000) (-1.134,-0.429)	36.65% ^{2,3} 26.88% ^{1,3} 16.30% ^{1,2}	(28.31%,44.98%) (22.99%,30.78%) (13.52%,19.07%)	1.00 1.77 [*] 1.00 0.46 [*]	(1.12,2.79) (0.32,0.65)
Jurisdiction Type (0.0000)	Urban Rural/Missing	53.28% ² 15.22% ¹	(47.87%,58.69%) (13.06%,17.39%)	0.904 [*] 0.000	(0.527,1.280)	32.00% ² 18.57% ¹	(26.33%,37.68%) (16.19%,20.95%)	2.47 [*] 1.00	(1.69,3.60) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 75.45\%^{2,3} \\ 41.79\%^{1,3} \\ 10.35\%^{1,2} \end{array}$	(69.83%,81.08%) (37.46%,46.12%) (8.06%,12.64%)	1.721 [*] 1.478 [*] 0.000	(1.193,2.248) (1.123,1.832) (0.000,0.000)	40.38% ³ 35.42% ³ 13.09% ^{1,2}	(30.64%,50.12%) (30.89%,39.95%) (10.39%,15.80%)	5.59 [*] 4.38 [*] 1.00	(3.30,9.47) (3.08,6.24) n/a
FFFIPP/ Fatality (0.6398)	Fatality with Investigation Fatality - No Investigation No Fatality	40.36% ³ 28.52% 21.34% ¹	(32.16%,48.57%) (19.98%,37.07%) (19.29%,23.38%)	-0.187 0.148 0.000	(-0.673,0.299) (-0.419,0.714) (0.000,0.000)	19.28% 23.44% 21.54%	(13.74%,24.83%) (16.23%,30.65%) (19.50%,23.58%)	0.83 1.16 1.00	(0.51,1.35) (0.66,2.04) n/a
Who Completed Survey (Q62) (0.3856)	Fire Chief Safety Officer Training Officer Other/Missing	$ \begin{array}{r} 18.46\%^{2.4} \\ 44.85\%^{1.4} \\ 27.79\% \\ 27.03\%^{1.2} \\ \end{array} $	(16.02%,20.90%) (28.97%,60.72%) (18.45%,37.13%) (22.00%,32.07%)	-0.159 0.322 -0.420 0.000	(-0.534,0.215) (-0.556,1.201) (-1.050,0.210) (0.000,0.000)	21.15% 27.70% 18.07% 23.19%	(18.68%,23.61%) (15.50%,39.91%) (11.84%,24.31%) (19.01%,27.37%)	0.85 1.38 0.66 1.00	(0.59,1.24) (0.57,3.32) (0.35,1.23) n/a

Model 52:	Q12. Does your department have a fitness training that involves physical exercise and/or other health promotion activities? - Yes,
	required or Yes, optional

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	J cui	Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		17.44%	(15.37%,19.50%)	-1.735 [*]	(-2.268,-1.202)	17.44%	(15.37%,19.50%)		
Region (0.0000)	Northeast South Midwest West	$\frac{30.87\%^{2,3,4}}{11.49\%^{1,4}}$ $\frac{13.48\%^{1}}{19.34\%^{1,2}}$	(24.96%,36.78%) (8.69%,14.29%) (10.32%,16.64%) (13.87%,24.81%)	0.782 [*] -0.534 [*] -0.273 0.000	(0.280,1.283) (-1.011,-0.057) (-0.750,0.204) (0.000,0.000)	$\frac{30.43\%^{2,3,4}}{11.49\%^{1,4}}$ $\frac{14.19\%^{1}}{17.55\%^{1,2}}$	(24.24%,36.63%) (8.78%,14.20%) (10.92%,17.47%) (12.46%,22.64%)	2.19 [*] 0.59 [*] 0.76 1.00	(1.32,3.61) (0.36,0.94) (0.47,1.23) n/a
Department Type (0.0000)	All Career All Volunteer Combination	51.21% ^{2,3} 17.80% ¹ 14.55% ¹	(44.59%,57.83%) (14.15%,21.45%) (11.91%,17.19%)	1.043 [*] 0.000 -0.266	(0.540,1.546) (0.000,0.000) (-0.617,0.085)	36.78% ^{2,3} 18.40% ¹ 14.99% ¹	(27.07%,46.50%) (14.61%,22.19%) (12.39%,17.59%)	2.84 [*] 1.00 0.77	(1.72,4.69) n/a (0.54,1.09)
Jurisdiction Type (0.3291)	Urban Rural/Missing	33.90% ² 14.13% ¹	(28.59%,39.20%) (11.89%,16.37%)	0.212	(-0.214,0.638)	19.60% 16.76%	(14.53%,24.66%) (14.29%,19.24%)	1.24 1.00	(0.81,1.89) n/a
Jurisdiction Size ^f (0.0002)	50,000+ 5,000-50,000 0 - 5,000	53.05% ^{2,3} 25.81% ^{1,3} 12.30% ^{1,2}	(46.21%,59.88%) (21.83%,29.78%) (9.81%,14.79%)	1.124 [*] 0.613 [*] 0.000	(0.547,1.702) (0.253,0.973) (0.000,0.000)	$\frac{31.59\%^3}{22.40\%^3}$ $\frac{14.03\%^{1,2}}{12}$	(21.47%,41.71%) (18.37%,26.43%) (11.26%,16.80%)	$\frac{3.08^{*}}{1.85^{*}}$	(1.73,5.48) (1.29,2.65) n/a
FFFIPP/ Fatality (0.9164)	Fatality with Investigation Fatality - No Investigation No Fatality	32.64% ³ 24.39% 17.26% ¹	(24.69%,40.60%) (15.58%,33.19%) (15.16%,19.35%)	0.048 0.126 0.000	(-0.470,0.565) (-0.509,0.760) (0.000,0.000)	18.03% 19.07% 17.41%	(11.33%,24.73%) (10.66%,27.49%) (15.31%,19.51%)	1.05 1.13 1.00	(0.63,1.76) (0.60,2.14) n/a
Who Completed Survey (Q62) (0.1637)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{16.34\%^2}{40.28\%^{1,3,4}}$ $\frac{15.54\%^2}{18.87\%^2}$	(13.82%,18.87%) (24.37%,56.18%) (9.07%,22.01%) (14.37%,23.38%)	-0.052 0.621 -0.469 0.000	(-0.445,0.341) (-0.260,1.502) (-1.099,0.161) (0.000,0.000)	17.31% 27.56% 12.57% 17.99%	(14.79%,19.83%) (12.93%,42.19%) (7.15%,17.99%) (13.53%,22.45%)	0.95 1.86 0.63 1.00	(0.64,1.41) (0.77,4.49) (0.33,1.17) n/a

Model 53: Q13. How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors? - One or more times a year

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		54.51%	(51.57%,57.45%)	0.148	(-0.295,0.592)	54.51%	(51.57%,57.45%)		
Region	Northeast	52.66%	(46.32%,59.00%)	-0.074	(-0.497,0.349)	52.00%	(45.47%,58.54%)	0.93	(0.61,1.42)
(0.3090)	South Midwest	57.83% 52.34%	(52.58%, 63.08%) (47.35%, 57.34%)	-0.033	(-0.229, 0.551) (-0.422, 0.356)	57.77% 53.03%	(52.51%, 63.04%) (48.03%, 58.03%) (45.74%, 61.02%)	1.17 0.97	$\frac{(0.80,1.73)}{(0.66,1.43)}$
Department Type	All Career	53.85% 56.78%	(46.10%, 62.25%) (47.04%, 60.66%) (51.46%, 62.10%)	-0.303	(-0.729,0.124)	48.20%	(43.74%,61.93%) (38.20%,58.19%) (50.20%,61.13%)	0.74	(0.48,1.13)
(0.3795)	Combination	53.32%	(49.56%,57.08%)	-0.052	(-0.333,0.229)	54.38%	(50.55%,58.22%)	0.95	(0.72,1.26)
Jurisdiction Type	Urban	59.08%	(53.09%,65.06%)	0.191	(-0.176,0.558)	58.41%	(50.46%,66.35%)	1.21	(0.84,1.75)
(0.3075)	Rural/Missing	53.60%	(50.27%,56.92%)	0.000	(0.000, 0.000)	53.74%	(50.43%,57.04%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5,000-50,000	53.52% 58.45%	(46.80%,60.25%) (53.79%,63.12%)	-0.058 0.176	(-0.544,0.428) (-0.109,0.460)	51.83% 57.58%	(41.11%,62.56%) (52.39%,62.77%)	0.94	(0.58,1.53) (0.90,1.58)
(0.2953)	0-5,000	52.80%	(48.97%,56.64%)	0.000	(0.000,0.000)	53.27%	(49.27%,57.27%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	58.07%	(49.63%,66.51%)	0.131	(-0.237,0.499)	57.75%	(49.05%,66.44%)	1.14	(0.79,1.65)
(0.4198)	Fatality - No Investigation No Fatality	49.59% 54 54%	(39.70%,59.49%) (51.55%,57.53%)	-0.224	(-0.642,0.193)	49.00%	(39.05%,58.95%) (51.57%,57,53%)	0.80	(0.53,1.21) n/a
	100 Futurity	0 110 170	(51.5570,57.5570)	0.000	(0.000,0.000)	5 1155 / 6	(51.5776,57.5576)	1.00	11/ U
Who	Fire Chief	53.15%	(49.62%,56.68%)	-0.073	(-0.378,0.232)	53.42%	(49.88%,56.96%)	0.93	(0.69,1.26)
Completed	Safety Officer	58.35%	(42.52%,74.18%)	0.131	(-0.593, 0.856)	58.42%	(41.86%, 74.97%)	1.14	(0.55,2.35)
(0.4883)	Other/Missing	55.82%	(49.43%,62.21%)	0.302	(0.000,0.000)	55.21%	(48.67%,61.76%)	1.55	<u>(0.79,2.31)</u> n/a

Model 54: Q15. How often do drivers of your fire department vehicles receive 'refresher' driver training to continue being allowed to drive the vehicles? - One or more times a year

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u> </u>	Pr	evalence ^b	8	Beta	Predic	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		84.24%	(82.07%,86.42%)	2.088^{*}	(1.359,2.817)	84.24%	(82.07%,86.42%)		
Region (0.0002)	Northeast South Midwest	85.57% ^{3,4} 87.26% ³ 76.65% ^{1,2,4}	(81.02%,90.11%) (83.66%,90.87%) (72.31%,80.99%)	-0.637 -0.468 -1.173*	(-1.344,0.070) (-1.140,0.204) (-1.824,-0.523)	85.28% ³ 87.24% ³ 77.44% ^{1,2,4}	(80.58%,89.98%) (83.62%,90.87%) (73.20%,81.69%)	0.53 0.63 0.31*	$\begin{array}{c} (0.26, 1.07) \\ (0.32, 1.23) \\ (0.16, 0.59) \end{array}$
Department Type (0.4518)	West All Career All Volunteer Combination	92.00% ^{1,3} 94.29% ^{2,3} 86.90% ^{1,3} 81.97% ^{1,2}	(87.69%,96.31%) (90.89%,97.69%) (83.21%,90.58%) (79.08%,84.86%)	0.000 0.335 0.000 -0.175	(0.000,0.000) (-0.502,1.172) (0.000,0.000) (-0.589,0.240)	91.56% ³ 89.15% 85.59% 83.39%	(87.03%,96.09%) (81.46%,96.84%) (81.50%,89.68%) (80.60%,86.19%)	1.00 1.40 1.00 0.84	n/a (0.61,3.23) n/a (0.55,1.27)
Jurisdiction Type (0.7752)	Urban Rural/Missing	89.76% ² 83.14% ¹	(85.73%,93.79%) (80.66%,85.62%)	-0.085	(-0.669,0.499)	83.26% 84.37%	(76.01%,90.51%)	0.92	(0.51,1.65) n/a
Jurisdiction Size ^f (0.0012)	50,000+ 5,000-50,000 0 - 5,000	97.56% ^{2,3} 90.15% ^{1,3} 81.09% ^{1,2}	(94.90%,100.00%) (87.28%,93.02%) (78.12%,84.05%)	1.757 [*] 0.716 [*] 0.000	(0.414,3.100) (0.277,1.154) (0.000,0.000)	96.13% ^{2,3} 89.88% ^{1,3} 81.53% ^{1,2}	(91.30%,100.00%) (86.68%,93.08%) (78.48%,84.58%)	5.79 [*] 2.05 [*] 1.00	(1.51,22.19) (1.32,3.17) n/a
FFFIPP/ Fatality (0.5567)	Fatality with Investigation Fatality - No Investigation No Fatality	92.14% ³ 88.02% 84.15% ¹	(87.55%,96.72%) (81.33%,94.71%) (81.94%,86.36%)	0.355 0.140 0.000	(-0.322,1.032) (-0.537,0.816) (0.000,0.000)	88.24% 85.91% 84.21%	(81.61%,94.87%) (78.29%,93.54%) (82.01%,86.41%)	1.43 1.15 1.00	(0.72,2.81) (0.58,2.26) n/a
Who Completed Survey (Q62) (0.3376)	Fire Chief Safety Officer Training Officer Other/Missing	83.64% ² 95.82% ^{1,4} 90.09% 82.90% ²	(81.02%,86.26%) (89.03%,100.00%) (83.22%,96.97%) (77.81%,88.00%)	0.229 1.273 0.525 0.000	(-0.196,0.654) (-0.523,3.068) (-0.312,1.361) (0.000,0.000)	84.48% 93.76% ⁴ 87.86% 81.37% ²	(81.97%,86.98%) (83.63%,100.00%) (79.99%,95.74%) (75.96%,86.78%)	1.26 3.57 1.69 1.00	(0.82,1.92) (0.59,21.51) (0.73,3.90) n/a

Model 55: Q16. Does your fire department have a requirement regarding seat belt use in emergency vehicles? Yes

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		54.93%	(52.01%,57.85%)	1.161*	(0.638,1.685)	54.93%	(52.01%,57.85%)		
Region (0.0000)	Northeast South Midwest West	$\begin{array}{r} 48.63\%^{2,4} \\ 58.53\%^{1,3,4} \\ 45.30\%^{2,4} \\ 79.13\%^{1,2,3} \end{array}$	(42.31%,54.96%) (53.28%,63.77%) (40.40%,50.21%) (72.29%,85.97%)	-1.363^{*} -0.973^{*} -1.482^{*} 0.000	(-1.864,-0.861) (-1.449,-0.497) (-1.955,-1.009) (0.000,0.000)	48.86% ^{2,4} 58.31% ^{1,3,4} 45.94% ^{2,4} 78.44% ^{1,2,3}	(42.34%,55.38%) (53.07%,63.54%) (41.04%,50.84%) (71.39%,85.50%)	$ \begin{array}{r} 0.26^{*} \\ 0.38^{*} \\ 0.23^{*} \\ 1.00 \end{array} $	(0.16,0.42) (0.23,0.61) (0.14,0.36) n/a
Department Type (0.0741)	All Career All Volunteer Combination	$\begin{array}{r} 71.09\%^{2,3} \\ \hline 60.41\%^{1,3} \\ 50.63\%^{1,2} \end{array}$	(65.29%,76.88%) (55.15%,65.67%) (46.88%,54.39%)	0.244 0.000 -0.243	(-0.188,0.676) (0.000,0.000) (-0.531,0.045)	63.72% ³ 58.22% 52.56% ¹	(54.60%,72.84%) (52.86%,63.58%) (48.80%,56.33%)	1.28 1.00 0.78	(0.83,1.97) n/a (0.59,1.05)
Jurisdiction Type (0.3343)	Urban Rural/Missing	58.94% 54.12%	(53.18%,64.71%) (50.81%,57.43%)	-0.184	(-0.557,0.190)	51.35% 55.60%	(43.60%,59.11%) (52.36%,58.84%)	0.83	(0.57,1.21) n/a
Jurisdiction Size ^f (0.0002)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 79.53\%^{2,3} \\ 60.61\%^{1,3} \\ 51.39\%^{1,2} \end{array}$	(74.52%,84.54%) (56.11%,65.11%) (47.54%,55.23%)	$\frac{0.987^{*}}{0.430^{*}}$	(0.499,1.474) (0.140,0.721) (0.000,0.000)	73.02% ^{2,3} 61.39% ^{1,3} 51.41% ^{1,2}	(64.65%,81.39%) (56.44%,66.33%) (47.46%,55.35%)	$\frac{2.68^{*}}{1.54^{*}}$ 1.00	(1.65,4.37) (1.15,2.06) n/a
FFFIPP/ Fatality (0.6071)	Fatality with Investigation Fatality - No Investigation No Fatality	64.00% ³ 52.05% 54.89% ¹	(55.85%,72.15%) (42.19%,61.91%) (51.93%,57.86%)	0.050 -0.214 0.000	(-0.349,0.450) (-0.658,0.229) (0.000,0.000)	56.13% 50.00% 54.97%	(47.13%,65.13%) (40.04%,59.95%) (52.01%,57.93%)	1.05 0.81 1.00	(0.71,1.57) (0.52,1.26) n/a
Who Completed Survey (Q62) (0.2713)	Fire Chief Safety Officer Training Officer Other/Missing	54.56% ² 73.15% ^{1,4} 56.30% 53.29% ²	(51.03%,58.09%) (58.76%,87.54%) (45.14%,67.46%) (46.85%,59.74%)	0.220 0.649 -0.019 0.000	(-0.098,0.538) (-0.196,1.494) (-0.551,0.512) (0.000,0.000)	56.08% 65.65% 50.53% 50.98%	(52.60%,59.56%) (48.39%,82.90%) (39.72%,61.33%) (44.54%,57.42%)	1.25 1.91 0.98 1.00	(0.91,1.71) (0.82,4.45) (0.58,1.67) n/a

Model 56: Q18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles? - Most of the time or Always

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u></u>	Pro	evalence ^b		Beta ^c	Predic	ted Marginal ^d	Adjusted	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		84.22%	(82.01%,86.42%)	0.944*	(0.267,1.620)	84.22%	(82.01%,86.42%)		
Region (0.0287)	Northeast South Midwest West	91.03% ^{2.3,4} 84.13% ¹ 79.86% ¹ 82.98% ¹	(87.51%,94.55%) (80.08%,88.17%) (75.75%,83.96%) (76.03%,89.93%)	0.672 [*] 0.173 -0.116 0.000	(0.002,1.342) (-0.425,0.770) (-0.686,0.454) (0.000,0.000)	89.96% ³ 84.69% 80.78% ¹ 82.43%	(86.02%,93.90%) (80.77%,88.62%) (76.82%,84.74%) (75.50%,89.36%)	1.96 [*] 1.19 0.89 1.00	(1.00,3.83) (0.65,2.16) (0.50,1.57) n/a
Department Type (0.2453)	All Career All Volunteer Combination	93.41% ^{2,3} 84.54% ¹ 83.31% ¹	(89.81%,97.01%) (80.45%,88.63%) (80.52%,86.09%)	-0.634 0.000 0.109	(-1.499,0.231) (0.000,0.000) (-0.301,0.519)	73.72% 83.44% 84.81%	(59.09%,88.35%) (79.05%,87.84%) (82.20%,87.43%)	0.53 1.00 1.12	(0.22,1.26) n/a (0.74,1.68)
Jurisdiction Type (0.0047)	Urban Rural/Missing	96.05% ² 81.83% ¹	(93.89%,98.22%) (79.22%,84.44%)	1.037 [*] 0.000	(0.319,1.756)	93.13% ² 83.19% ¹	(88.78%,97.47%) (80.78%,85.60%)	2.82 [*] 1.00	(1.38,5.79) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	97.03% ³ 93.70% ³ 79.50% ^{1,2}	(94.19%,99.87%) (91.48%,95.93%) (76.39%,82.61%)	$\frac{1.758^{*}}{1.110^{*}}$ 0.000	(0.454,3.062) (0.634,1.587) (0.000,0.000)	95.97% ³ 92.62% ³ 80.88% ^{1,2}	(91.13%,100.00%) (89.83%,95.40%) (77.85%,83.91%)	5.80 [*] 3.03 [*] 1.00	(1.57,21.37) (1.88,4.89) n/a
FFFIPP/ Fatality (0.0704)	Fatality with Investigation Fatality - No Investigation No Fatality	93.76% ³ 93.38% ³ 84.05% ^{1,2}	(89.46%,98.07%) (88.84%,97.91%) (81.81%,86.30%)	0.534 0.769 0.000	(-0.233,1.301) (-0.016,1.554) (0.000,0.000)	89.83% 91.73% ³ 84.13% ²	(83.19%,96.47%) (86.08%,97.37%) (81.90%,86.36%)	1.71 2.16 1.00	(0.79,3.67) (0.98,4.73) n/a
Who Completed Survey (Q62) (0.3742)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{83.61\%^{2.3}}{94.82\%^{1.4}}$ $\frac{90.63\%^{1}}{82.81\%^{2}}$	(80.91%,86.30%) (85.05%,100.00%) (84.20%,97.06%) (77.76%,87.87%)	0.165 1.179 0.658 0.000	(-0.261,0.590) (-0.876,3.235) (-0.228,1.545) (0.000,0.000)	84.13% 93.39% 89.48% 81.93%	(81.50%,86.75%) (81.18%,100.00%) (82.17%,96.79%) (76.76%,87.10%)	1.18 3.25 1.93 1.00	(0.77,1.80) (0.42,25.40) (0.80,4.69) n/a

Model 57: Q21. How often is Incident Command established when responding to structure fires? - Most of the time or Always

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	unic of minugs	Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjustee	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		42.39%	(39.61%,45.17%)	-0.209	(-0.681,0.263)	42.39%	(39.61%,45.17%)		
Region (0.0000)	Northeast South Midwest West	$\frac{61.51\%^{2,3}}{36.82\%^{1,3,4}}$ $\frac{29.84\%^{1,2,4}}{53.69\%^{2,3}}$	(55.40%,67.62%) (31.85%,41.80%) (25.54%,34.14%) (45.59%,61.79%)	0.290 -0.681 [*] -0.964 [*] 0.000	(-0.167,0.748) (-1.105,-0.256) (-1.383,-0.545) (0.000,0.000)	59.13% ^{2,3} 37.36% ^{1,4} 31.62% ^{1,4} 52.54% ^{2,3}	(52.77%,65.49%) (32.43%,42.28%) (27.36%,35.89%) (44.40%,60.68%)	1.34 0.51 [*] 0.38 [*] 1.00	(0.85,2.11) (0.33,0.77) (0.25,0.58) n/a
Department Type (0.6304)	All Career All Volunteer Combination	73.62% ^{2,3} 44.64% ¹ 38.65% ¹	(67.57%,79.67%) (39.66%,49.63%) (35.07%,42.24%)	0.132 0.000 -0.097	(-0.340,0.605) (0.000,0.000) (-0.390,0.196)	46.33% 43.52% 41.49%	(36.56%,56.10%) (38.65%,48.39%) (37.88%,45.11%)	1.14 1.00 0.91	(0.71,1.83) n/a (0.68,1.22)
Jurisdiction Type (0.0002)	Urban Rural/Missing	71.05% ² 36.71% ¹	(65.63%,76.47%) (33.55%,39.86%)	0.693 [*] 0.000	(0.328,1.059)	55.34% ² 40.06% ¹	(47.78%,62.89%) (36.94%,43.18%)	2.00 [*] 1.00	(1.39,2.88) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	88.28% ^{2,3} 59.00% ^{1,3} 33.12% ^{1,2}	(84.08%,92.47%) (54.46%,63.54%) (29.51%,36.73%)	2.003 [*] 0.789 [*] 0.000	(1.437,2.569) (0.496,1.081) (0.000,0.000)	78.39% ^{2,3} 53.84% ^{1,3} 36.18% ^{1,2}	(69.76%,87.02%) (48.72%,58.96%) (32.44%,39.91%)	7.41 [*] 2.20 [*] 1.00	(4.21,13.05) (1.64,2.95) n/a
FFFIPP/ Fatality (0.1487)	Fatality with Investigation Fatality - No Investigation No Fatality	64.43% ³ 59.05% ³ 42.06% ^{1,2}	(56.16%,72.70%) (49.06%,69.04%) (39.23%,44.89%)	0.269 0.431 0.000	(-0.210,0.749) (-0.073,0.935) (0.000,0.000)	47.96% 51.45% 42.27%	(37.91%,58.01%) (40.91%,61.98%) (39.45%,45.09%)	1.31 1.54 1.00	(0.81,2.11) (0.93,2.55) n/a
Who Completed Survey (Q62) (0.7283)	Fire Chief Safety Officer Training Officer Other/Missing	$ 40.36\%^{2} 66.25\%^{1,4} 48.32\% 44.18\%^{2} $	(36.99%,43.74%) (50.16%,82.34%) (37.08%,59.56%) (37.87%,50.48%)	-0.025 0.495 -0.024 0.000	(-0.357,0.306) (-0.425,1.414) (-0.598,0.549) (0.000,0.000)	42.02% 53.12% 42.04% 42.55%	(38.71%,45.33%) (34.07%,72.17%) (31.44%,52.65%) (36.52%,48.59%)	0.97 1.64 0.98 1.00	(0.70,1.36) (0.65,4.11) (0.55,1.73) n/a

Model 58: Q26. How often are Rapid Intervention Teams (RITs) or Rapid Intervention Crews (RICs) available at structure fires? - Most of the time or Always

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pr	evalence ^b		Beta ^c	Predic	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		78.77%	(76.32%,81.23%)	0.896*	(0.247,1.544)	78.77%	(76.32%,81.23%)		
Region (0.0176)	Northeast South Midwest West	$\frac{86.69\%^{2.3}}{72.66\%^{1.4}}$ $\frac{78.13\%^1}{82.77\%^2}$	(82.31%,91.06%) (67.78%,77.53%) (73.83%,82.43%) (76.01%,89.54%)	0.167 -0.563 -0.254 0.000	(-0.475,0.808) (-1.131,0.006) (-0.821,0.314) (0.000,0.000)	$\frac{84.76\%^2}{73.88\%^{1.4}}$ $\frac{78.96\%}{82.62\%^2}$	(79.82%,89.70%) (69.23%,78.53%) (74.82%,83.10%) (75.91%,89.33%)	1.18 0.57 0.78 1.00	(0.62,2.24) (0.32,1.01) (0.44,1.37) n/a
Department Type (0.4133)	All Career All Volunteer Combination	97.46% ^{2,3} 76.99% ¹ 78.23% ¹	(94.59%,100.00%) (72.35%,81.62%) (75.15%,81.32%)	0.465 0.000 0.222	(-0.744,1.673) (0.000,0.000) (-0.145,0.589)	83.23% 76.42% 79.86%	(67.68%,98.78%) (71.54%,81.30%) (76.95%,82.77%)	1.59 1.00 1.25	(0.48,5.33) n/a (0.86,1.80)
Jurisdiction Type (0.0001)	Urban Rural/Missing	98.31% ² 74.85% ¹	(96.66%,99.96%) (71.93%,77.78%)	2.167 [*] 0.000	(1.108,3.225)	96.47% ² 77.00% ¹	(92.93%,100.00%) (74.31%,79.69%)	8.73 [*] 1.00	(3.03,25.15) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	98.61% ^{2,3} 92.22% ^{1,3} 71.96% ^{1,2}	(96.93%,100.00%) (89.70%,94.75%) (68.48%,75.43%)	$\frac{2.020^{*}}{1.134^{*}}$ 0.000	(0.635,3.405) (0.700,1.567) (0.000,0.000)	95.50% ³ 89.91% ³ 75.11% ^{1,2}	(89.72%,100.00%) (86.53%,93.28%) (71.94%,78.28%)	7.54 [*] 3.11 [*] 1.00	(1.89,30.10) (2.01,4.79) n/a
FFFIPP/ Fatality (0.1163)	Fatality with Investigation Fatality - No Investigation No Fatality	93.39% ^{2,3} 81.30% ¹ 78.64% ¹	(88.95%,97.83%) (72.82%,89.77%) (76.15%,81.14%)	0.818 [*] -0.126 0.000	(0.023,1.612) (-0.768,0.516) (0.000,0.000)	88.82% ³ 76.78% 78.75% ¹	(81.45%,96.18%) (66.80%,86.77%) (76.26%,81.23%)	2.27 [*] 0.88 1.00	(1.02,5.01) (0.46,1.68) n/a
Who Completed Survey (Q62) (0.6975)	Fire Chief Safety Officer Training Officer Other/Missing	78.17% 90.42% 83.83% 77.65%	(75.16%,81.17%) (78.50%,100.00%) (75.17%,92.49%) (71.83%,83.47%)	0.113 0.784 0.251 0.000	(-0.306,0.531) (-0.635,2.202) (-0.512,1.014) (0.000,0.000)	78.82% 87.42% 80.86% 77.07%	(75.92%,81.73%) (73.14%,100.00%) (71.30%,90.42%) (71.18%,82.95%)	1.12 2.19 1.29 1.00	(0.74,1.70) (0.53,9.04) (0.60,2.76) n/a

Model 59:	Q29. Does your fire department have enough Personal Alert Safety System (PASS) devices for all firefighters for use when fighting
	structure fires? Yes

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pro	evalence ^b		Beta ^c	Predic	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		87.98%	(85.97%,90.00%)	1.320^{*}	(0.522,2.118)	87.98%	(85.97%,90.00%)		
Region	Northeast	96.88% ^{2,3,4}	(94.59%,99.18%) (80.48% 88.63%)	1.279*	(0.302, 2.255)	96.35% ^{2,3,4}	(93.67%,99.02%) (81.69% 89.31%)	3.59*	(1.35,9.53)
(0.0023)	Midwest West	$\frac{84.35\%}{85.24\%^{1}}$	$\frac{(80.48\%,88.05\%)}{(81.53\%,88.94\%)}$ $(82.05\%,94.11\%)$	-0.264	$\frac{(-0.937, 0.420)}{(-0.940, 0.413)}$	$\frac{85.56\%^1}{88.38\%^1}$	(81.95%, 89.17%) $(82.51%, 94.25%)$	0.77	(0.39,1.52) (0.39,1.51) n/a
Department Type (0.3209)	All Career All Volunteer Combination	97.57% ^{2,3} 86.35% ¹ 88.09% ¹	(94.46%,100.00%) (82.35%,90.36%) (85.66%,90.52%)	-0.340 0.000 0.323	(-1.664,0.984) (0.000,0.000) (-0.145,0.791)	81.63% 85.82% 89.09%	(64.01%,99.25%) (81.56%,90.07%) (86.80%,91.38%)	0.71 1.00 1.38	(0.19,2.68) n/a (0.86,2.21)
Jurisdiction Type (0.0000)	Urban Rural/Missing	99.72% ² 85.62% ¹	(99.34%,100.00%) (83.21%,88.04%)	3.341 [*] 0.000	(2.022,4.659)	99.44% ² 86.86% ¹	(98.70%,100.00%) (84.67%,89.06%)	28.23 [*] 1.00	(7.55,105.57) n/a
Jurisdiction Size ^f (0.0001)	50,000+ 5,000-50,000 0 - 5,000	$\frac{98.97\%^{2,3}}{96.48\%^{1,3}}$ $83.73\%^{1,2}$	(97.44%,100.00%) (94.71%,98.26%) (80.85%,86.62%)	$\frac{1.925^{*}}{1.287^{*}}$ 0.000	(0.124,3.726) (0.666,1.909) (0.000,0.000)	97.48% ³ 95.38% ³ 85.64% ^{1,2}	(93.18%,100.00%) (92.94%,97.82%) (83.06%,88.22%)	$\frac{6.85^{*}}{3.62^{*}}$ 1.00	(1.13,41.49) (1.95,6.74) n/a
FFFIPP/ Fatality (0.2856)	Fatality with Investigation Fatality - No Investigation No Fatality	95.63% ^{2,3} 87.04% ¹ 87.94% ¹	(91.86%,99.40%) (79.50%,94.58%) (85.89%,89.98%)	0.504 -0.443 0.000	(-0.480,1.487) (-1.186,0.300) (0.000,0.000)	92.19% 83.01% 88.00%	(85.54%,98.83%) (73.95%,92.08%) (85.97%,90.04%)	1.65 0.64 1.00	(0.62,4.43) (0.31,1.35) n/a
Who Completed Survey (Q62) (0.9656)	Fire Chief Safety Officer Training Officer Other/Missing	88.01% 90.42% 88.86% 87.26%	(85.61%,90.42%) (78.50%,100.00%) (81.14%,96.58%) (82.47%,92.05%)	0.131 0.055 0.038 0.000	(-0.383,0.645) (-1.419,1.530) (-0.921,0.997) (0.000,0.000)	88.31% 87.57% 87.40% 87.00%	(85.97%,90.66%) (73.43%,100.00%) (78.72%,96.07%) (82.28%,91.72%)	1.14 1.06 1.04 1.00	(0.68,1.91) (0.24,4.62) (0.40,2.71) n/a

Model 60:	Q30. About how often do you think your firefighters wear their PASS devices when fighting structure fires? - Most of the time or
	Always

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	(Pre	valence ^b	r	Beta ^c	Predict	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		50.11%	(47.12%,53.10%)	0.017	(-0.480,0.514)	50.11%	(47.12%,53.10%)		
Region (0.0063)	Northeast South Midwest West	$\begin{array}{r} 44.13\%^2 \\ \hline 56.84\%^{1,4} \\ \hline 51.44\%^4 \\ \hline 38.35\%^{2,3} \end{array}$	(37.60%,50.66%) (51.55%,62.14%) (46.37%,56.52%) (29.75%,46.95%)	$\begin{array}{r} 0.246 \\ 0.716^* \\ 0.453^* \\ 0.000 \end{array}$	(-0.227,0.718) (0.271,1.160) (0.014,0.892) (0.000,0.000)	$\frac{45.49\%^2}{56.36\%^{1,4}}$ $\frac{50.32\%^4}{39.85\%^{2,3}}$	(38.94%,52.04%) (51.08%,61.65%) (45.34%,55.30%) (31.24%,48.45%)	1.28 2.05 [*] 1.57 [*] 1.00	(0.80,2.05) (1.31,3.19) (1.01,2.44) n/a
Department Type (0.0000)	All Career All Volunteer Combination	8.59% ^{2,3} 51.03% ¹ 52.74% ¹	(4.60%,12.58%) (45.61%,56.45%) (48.90%,56.57%)	-1.608 [*] 0.000 -0.038	(-2.221,-0.995) (0.000,0.000) (-0.334,0.259)	$\frac{18.78\%^{2,3}}{51.68\%^1}$ 50.79\%^1	(9.78%,27.77%) (46.10%,57.25%) (46.97%,54.61%)	0.20 [*] 1.00 0.96	(0.11,0.37) n/a (0.72,1.29)
Jurisdiction Type (0.0202)	Urban Rural/Missing	27.50% ² 54.38% ¹	(21.67%,33.33%) (51.01%,57.76%)	-0.468 [*] 0.000	(-0.863,-0.073)	40.69% ² 51.54% ¹	(32.28%,49.10%) (48.27%,54.81%)	0.63 [*] 1.00	(0.42,0.93) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{10.45\%^{2,3}}{37.48\%^{1,3}}$ 57.08% ^{1,2}	(5.87%,15.04%) (32.77%,42.18%) (53.20%,60.97%)	-1.268 [*] -0.552 [*] 0.000	(-1.927,-0.608) (-0.844,-0.260) (0.000,0.000)	26.04% ^{2,3} 41.20% ^{1,3} 54.18% ^{1,2}	(14.31%,37.76%) (35.92%,46.48%) (50.25%,58.10%)	0.28 [*] 0.58 [*] 1.00	(0.15,0.54) (0.43,0.77) n/a
FFFIPP/ Fatality (0.2207)	Fatality with Investigation Fatality - No Investigation No Fatality	34.96% ^{2,3} 54.48% ¹ 50.18% ¹	(26.69%,43.24%) (43.81%,65.15%) (47.14%,53.22%)	0.038 0.437 0.000	(-0.440,0.515) (-0.056,0.931) (0.000,0.000)	50.88% 59.83% 50.02%	(40.26%,61.50%) (49.47%,70.20%) (46.99%,53.05%)	1.04 1.55 1.00	(0.64,1.67) (0.95,2.54) n/a
Who Completed Survey (Q62) (0.1650)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{51.80\%^{2,3}}{27.24\%^{1,4}}$ $\frac{36.30\%^{1,4}}{51.74\%^{2,3}}$	(48.19%,55.42%) (11.30%,43.19%) (24.51%,48.09%) (45.14%,58.33%)	-0.114 -0.771 -0.552 0.000	(-0.439,0.212) (-1.730,0.188) (-1.158,0.054) (0.000,0.000)	50.54% 35.64% 40.47% 53.15%	(46.98%,54.11%) (15.75%,55.53%) (28.30%,52.65%) (46.63%,59.67%)	0.89 0.46 0.58 1.00	(0.64,1.24) (0.18,1.21) (0.31,1.06) n/a

Model 61: Q33. Do your firefighters ever have to share facepieces for SCBAs? Yes

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a	1	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		9.57%	(6.85%,12.29%)	-2.363*	(-3.655,-1.071)	9.57%	(6.85%,12.29%)		
Region (0.8509)	Northeast South	6.78% 11.11%	(1.07%,12.50%) (6.49%,15.73%)	-0.319 0.149	(-1.670,1.031) (-0.978,1.277)	7.11% 10.88%	(1.03%,13.19%) (6.23%,15.52%)	0.73	(0.19,2.80) (0.38,3.58)
	Midwest West	9.21% 10.08%	(4.82%,13.61%) (0.15%,20.01%)	-0.017 0.000	(-1.154,1.121) (0.000,0.000)	9.38% 9.52%	(4.81%,13.94%) (0.84%,18.19%)	0.98 1.00	(0.32,3.07) n/a
Department Type	All Volunteer	11.13%	(5.72%,16.54%)	0.211	(-0.494,0.916)	10.77%	(5.34%,16.20%)	1.24	(0.61,2.50)
(0.5567)	Combination	8.75%	(5.73%,11.78%)	0.000	(0.000,0.000)	8.91%	(5.77%,12.06%)	1.00	n/a
Jurisdiction	Urban	9.07%	(0.53%,17.61%)	-0.039	(-1.222,1.144)	9.27%	(0.00%,18.71%)	0.96	(0.29,3.14)
Type (0.9486)	Rural/Missing	9.62%	(6.75%,12.49%)	0.000	(0.000,0.000)	9.60%	(6.75%,12.45%)	1.00	n/a
Jurisdiction	5,000+	9.51%	(4.77%,14.26%)	0.003	(-0.695,0.701)	9.59%	(4.65%,14.52%)	1.00	(0.50,2.02)
Size ⁴ (0.9934)	0-5,000	9.59%	(6.36%,12.81%)	0.000	(0.000,0.000)	9.56%	(6.31%,12.82%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	4.43%	(0.00%,10.49%)	-0.801	(-2.276,0.674)	4.59%	(0.00%,10.92%)	0.45	(0.10,1.96)
(0.2946)	Fatality - No Investigation No Fatality	3.95% 9.65%	(0.00%,9.53%)	-0.932	(-2.464,0.599)	4.05%	(0.00%,9.85%)	0.39	(0.09,1.82) n/a
Who	Fire Chief	9.09%	(6.05%,12.13%)	0.006	(-0.780,0.791)	9.21%	(6.08%,12.35%)	1.01	(0.46,2.21)
Completed Survey (Q62)	Training Officer Safety Officer,	18.20%	$(0.\overline{00\%,37.17\%})$	0.705	(-0.712,2.122)	16.91%	$(0.\overline{00\%,34.41\%})$	2.02	(0.49,8.35)
(0.3078)	Other, Missing	9.42%	(5.78%, 15.00%)	0.000	(0.000, 0.000)	9.1/%	(3.33%, 14.78%)	1.00	n/a

Model 62: Q33a. Reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters: Didn't know it was recommended

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	,,	Pr	evalence ^b		Beta ^c	Predic	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		63.95%	(59.69%,68.21%)	0.716	(-0.092,1.524)	63.95%	(59.69%,68.21%)		
Region	Northeast	58.09%	(48.20%,67.99%)	-0.291	(-1.056,0.474)	59.18%	(49.06%,69.30%)	0.75	(0.35,1.61)
(0.6721)	South Midwest	66.66% 63.42%	(59.73%, 73.60%) (56.29%, 70.56%)	0.028	(-0.682, 0.738) (-0.840, 0.588)	66.56% 63.07%	(59.59%, 73.54%) (55.82%, 70.33%)	1.03	(0.51,2.09) (0.43,1.80)
	West	66.45%	(52.43%,80.47%)	0.000	(0.000,0.000)	65.94%	(51.78%,80.10%)	1.00	n/a
Department Type (0.6700)	All Career All Volunteer Combination	67.49% 62.75% 64.54%	(44.77%,90.20%) (54.92%,70.58%) (59.45%,69.62%)	0.447 0.000 0.121	(-0.685,1.579) (0.000,0.000) (-0.295,0.537)	71.79% 62.06% 64.84%	(49.44%,94.15%) (54.08%,70.03%) (59.73%,69.94%)	1.56 1.00 1.13	(0.50,4.85) n/a (0.74,1.71)
Jurisdiction Type (0.4034)	Urban Rural/Missing	57.15% 64.60%	(43.65%,70.65%) (60.12%,69.07%)	-0.278	(-0.931,0.375)	57.99% 64.52%	(42.98%,73.00%) (60.07%,68.96%)	0.76	(0.39,1.45) n/a
Jurisdiction Size ^f (0.7459)	50,000+ 5,000-50,000 0 - 5,000	55.70% 61.28% 64.77%	(30.51%,80.90%) (53.43%,69.13%) (59.74%,69.79%)	-0.445 -0.082 0.000	(-1.636,0.747) (-0.505,0.341) (0.000,0.000)	53.84% 62.54% 64.43%	(25.31%,82.37%) (54.47%,70.60%) (59.32%,69.53%)	0.64 0.92 1.00	(0.19,2.11) (0.60,1.41) n/a
FFFIPP/ Fatality (0.7431)	Fatality with Investigation Fatality - No Investigation No Fatality	62.65% 57.09% 64.02%	(47.20%,78.09%) (42.17%,72.01%) (59.70%,68.34%)	0.039 -0.257 0.000	(-0.680,0.758) (-0.925,0.411) (0.000,0.000)	64.89% 57.97% 64.00%	(49.04%,80.74%) (42.49%,73.44%) (59.69%,68.32%)	1.04 0.77 1.00	(0.51,2.13) (0.40,1.51) n/a
Who Completed Survey (Q62)	Fire Chief Safety Officer Training Officer	62.48% 72.95% 75.34%	(57.51%,67.45%) (43.00%,100.00%) (58.19%,92.50%)	-0.150 0.382 0.436	(-0.633,0.332) (-1.226,1.989) (-0.604,1.476)	62.52% 73.88% 74.91%	(57.49%,67.55%) (44.11%,100.00%) (57.20%,92.62%)	0.86 1.46 1.55	(0.53,1.39) (0.29,7.31) (0.55,4.37)
(0.3838)	Other/Missing	66.03%	(56.41%,75.66%)	0.000	(0.000, 0.000)	65.95%	(56.38%,75.51%)	1.00	n/a

Model 63: Q33a. Reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters: They cost too much, there is not enough money in the budget

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u> </u>	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		49.45%	(45.00%,53.89%)	0.478	(-0.335,1.291)	49.45%	(45.00%,53.89%)		
Region	Northeast	35.92% ^{3,4}	(26.38%,45.47%)	-0.987*	(-1.776,-0.198)	36.45% ^{3,4}	(26.71%,46.20%)	0.37^{*}	(0.17,0.82)
(0.0058)	South	$46.25\%^{3}$	(38.91%,53.59%)	-0.532	(-1.263,0.199)	47.18%	(39.78%,54.58%)	0.59	(0.28,1.22)
	Midwest	58.46% ^{1,2}	(51.28%,65.65%)	-0.125	(-0.853,0.604)	57.01% ¹	(49.85%,64.16%)	0.88	(0.43,1.83)
	West	60.19% ¹	(45.44%,74.93%)	0.000	(0.000, 0.000)	59.94% ¹	(44.59%,75.29%)	1.00	n/a
Department	All Career	21.33% ^{2,3}	(1.16%,41.49%)	-0.660	(-2.070,0.751)	35.09%	(4.82%,65.36%)	0.52	(0.13,2.12)
Туре	All Volunteer	48.98% ¹	(40.82%,57.13%)	0.000	(0.000, 0.000)	50.23%	(42.24%,58.23%)	1.00	n/a
(0.6545)	Combination	50.04% ¹	(44.73%,55.35%)	-0.045	(-0.452,0.363)	49.18%	(43.84%,54.51%)	0.96	(0.64, 1.44)
Jurisdiction	Urban	36.30% ²	(23.09%,49.50%)	-0.075	(-0.736,0.586)	47.82%	(32.84%,62.80%)	0.93	(0.48,1.80)
(0.8243)	Rural/Missing	$50.70\%^{1}$	(46.01%,55.40%)	0.000	(0.000,0.000)	49.59%	(44.96%,54.21%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5.000-50,000	$22.69\%^{3}$ $35.50\%^{3}$	(1.19%,44.19%) (27.68%,43.31%)	-1.135 -0.658 [*]	(-2.480,0.211) (-1.089,-0.226)	27.33% 37.40% ³	(1.76%,52.90%) (29.08%,45.71%)	$0.32 \\ 0.52^{*}$	(0.08, 1.23) (0.34, 0.80)
(0.0059)	0-5,000	53.62% ^{1,2}	(48.35%,58.88%)	0.000	(0.000,0.000)	52.98% ²	(47.69%,58.27%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	59.67%	(44.42%,74.92%)	0.712	(-0.033,1.457)	65.52% ³	(50.02%,81.02%)	2.04	(0.97,4.29)
(0.1344)	Fatality - No Investigation	49.08%	(34.04%,64.12%) (44.90% 53.91%)	0.295	(-0.406,0.997)	56.23% 49.31% ¹	(40.56%,71.89%) (44.81% 53.81%)	1.34	(0.67,2.71)
	101 atanty	47.4070	(++.)0/0,33.)1/0)	0.000	(0.000,0.000)	47.3170	(++.01/0,35.01/0)	1.00	11/ a
Who	Fire Chief	51.48% ²	(46.33%,56.62%)	0.203	(-0.261,0.667)	51.42%	(46.23%,56.62%)	1.23	(0.77,1.95)
Completed	Safety Officer	22.83%	(0.00%, 50.74%)	-1.059	(-2.631, 0.514)	24.06%	(0.00%, 51.01%)	0.35	(0.07, 1.67)
(0.2463)	Other/Missing	41.39%	(20.04%, 62.74%) (36.06% 55.87%)	-0.329	(-1.294, 0.637)	38.97% 46.61%	(19.04%, 58.89%) (36.94%, 56.29%)	0.72	(0.27,1.89)
(====;	Outor/Witsoning	т 5.7070	(30.00/0,33.07/0)	0.000	(0.000,0.000)	+0.01/0	(30.77/0,30.29/0)	1.00	11/ a

Model 64: Q33a. Reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters: We don't have enough equipment for all of our firefighters

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	v	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		47.17%	(42.72%,51.62%)	-0.024	(-0.779,0.730)	47.17%	(42.72%,51.62%)		
Region	Northeast	46.19%	(36.12%,56.27%)	-0.100	(-0.832,0.632)	46.00%	(35.74%,56.27%)	0.90	(0.44,1.88)
(0.9716)	South	46.42%	(39.11%,53.73%)	-0.084	(-0.751,0.582)	46.39%	(39.01%,53.76%)	0.92	(0.47,1.79)
	Midwest	48.64%	(41.24%,56.05%)	-0.000	(-0.671,0.671)	48.47%	(41.01%,55.93%)	1.00	(0.51,1.96)
	West	47.31%	(32.26%,62.37%)	0.000	(0.000, 0.000)	48.47%	(33.69%,63.26%)	1.00	n/a
Department	All Career	49.53%	(24.99%,74.07%)	0.229	(-0.950,1.407)	53.98%	(25.49%,82.47%)	1.26	(0.39,4.08)
Туре	All Volunteer	47.85%	(39.64%,56.06%)	0.000	(0.000, 0.000)	48.32%	(40.01%,56.63%)	1.00	n/a
(0.8468)	Combination	46.78%	(41.48%,52.08%)	-0.074	(-0.478,0.329)	46.48%	(41.15%,51.81%)	0.93	(0.62,1.39)
Jurisdiction	Urban	41.60%	(28.49%,54.72%)	-0.279	(-0.916,0.358)	40.93%	(26.36%,55.51%)	0.76	(0.40,1.43)
(0.3901)	Rural/Missing	47.70%	(42.99%,52.41%)	0.000	(0.000,0.000)	47.76%	(43.09%,52.44%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5,000-50,000	49.21% 48.42%	(24.38%,74.03%) (40.29%,56.55%)	0.253 0.119	(-0.905,1.411) (-0.298,0.536)	52.74% 49.43%	(24.87%,80.62%) (40.82%,58.04%)	1.29 1.13	(0.40,4.10) (0.74,1.71)
(0.8140)	0-5,000	46.80%	(41.54%,52.06%)	0.000	(0.000, 0.000)	46.49%	(41.19%,51.80%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	44.49%	(28.97%,60.00%)	-0.127	(-0.792,0.539)	44.03%	(28.15%,59.90%)	0.88	(0.45,1.71)
(0.7834)	Fatality - No Investigation	51.50%	(36.72%,66.27%)	0.182	(-0.453,0.818)	51.66%	(36.56%,66.75%)	1.20	(0.64,2.27)
	No ratality	47.14%	(42.05%, 51.05%)	0.000	(0.000,0.000)	47.14%	(42.05%,51.05%)	1.00	II/a
Who Completed	Fire Chief	48.51%	(43.37%,53.66%)	0.057	(-0.397,0.511)	48.45%	(43.24%,53.66%)	1.06	(0.67, 1.67)
Survey (062)	Training Officer	37.20%	(3.94%, /0.40%)	-0.390	(-1.915, 1.134)	37.30%	(3.19%, /1.93%)	0.08	(0.15, 5.11) (0.17, 1.22)
(0.4097)	Other/Missing	46.77%	(36.82%,56.73%)	0.000	(0.000,0.000)	47.04%	(37.06%,57.01%)	1.00	(0.17,1.55) n/a

Model 65: Q33a. Reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters: Shared systems work fine for our needs

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	<u>specify:</u>)	Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjusted	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		10.05%	(7.50%,12.60%)	-3.272*	(-4.755,-1.790)	10.05%	(7.50%,12.60%)		
Region (0.2641)	Northeast South Midwest West	$ \begin{array}{r} 16.57\%^{2,3} \\ $	(9.41%,23.73%) (4.64%,12.20%) (4.51%,12.23%) (0.00% 18.72%)	0.520 -0.174 -0.098 0.000	$(-0.825, 1.865) \\ (-1.515, 1.167) \\ (-1.458, 1.262) \\ (0.000, 0.000)$	14.99% 8.36% 8.93% 9.72%	(8.50%,21.47%) (4.53%,12.18%) (4.92%,12.94%) (0.00% 20.08%)	1.68 0.84 0.91	(0.44,6.45) $(0.22,3.21)$ $(0.23,3.53)$ n/a
Department Type (0.8948)	All Career All Volunteer Combination	19.87% 9.87% 10.02%	(0.08%,39.67%) (5.42%,14.33%) (6.88%,13.15%)	-0.301 0.000 0.061	(-1.818,1.216) (0.000,0.000) (-0.575,0.697)	7.52% 9.76% 10.27%	(0.00%,17.29%) (5.43%,14.09%) (7.10%,13.45%)	0.74 1.00 1.06	(0.16,3.37) n/a (0.56,2.01)
Jurisdiction Type (0.6834)	Urban Rural/Missing	19.36% 9.16%	(8.45%,30.27%) (6.58%,11.74%)	0.189	(-0.719,1.096)	<u>11.52%</u> 9.82%	(3.34%,19.70%) (7.14%,12.51%)	1.21 1.00	(0.49,2.99) n/a
Jurisdiction Size ^f (0.0001)	50,000+ 5,000-50,000 0 - 5,000	$\frac{45.57\%^3}{20.10\%^3}\\ \overline{6.93\%^{1,2}}$	(20.37%,70.77%) (13.58%,26.63%) (4.25%,9.61%)	2.640 [*] 1.139 [*] 0.000	(1.161,4.118) (0.501,1.778) (0.000,0.000)	$\frac{49.88\%^3}{18.92\%^3}$ 7.08\% ^{1,2}	(16.80%,82.96%) (12.19%,25.66%) (4.31%,9.85%)	$\frac{14.01^{*}}{3.13^{*}}$	(3.19,61.46) (1.65,5.92) n/a
FFFIPP/ Fatality (0.6836)	Fatality with Investigation Fatality - No Investigation No Fatality	14.36% 17.03% 9.96%	(4.17%,24.56%) (6.83%,27.22%) (7.37%,12.54%)	-0.221 0.287 0.000	(-1.173,0.731) (-0.524,1.099) (0.000,0.000)	8.30% 12.73% 10.03%	(1.63%,14.96%) (4.79%,20.66%) (7.44%,12.61%)	0.80 1.33 1.00	(0.31,2.08) (0.59,3.00) n/a
Who Completed Survey (Q62) (0.3938)	Fire Chief Safety Officer Training Officer Other/Missing	$\frac{11.31\%^4}{11.60\%}$ 9.74% $5.54\%^1$	(8.13%,14.48%) (0.00%,33.19%) (0.00%,21.61%) (1.64%,9.44%)	0.728 0.415 0.660 0.000	(-0.101,1.557) (-2.391,3.221) (-0.997,2.318) (0.000,0.000)	$ 11.15\%^4 8.53\% 10.54\% 5.90\%^1 $	(7.99%,14.32%) (0.00%,28.62%) (0.00%,23.75%) (1.83%,9.97%)	2.07 1.51 1.94 1.00	(0.90,4.75) (0.09,25.06) (0.37,10.16) n/a

Model 66: Q33a. Reasons why your fire department does not have personally-fitted SCBA facepieces for all of your firefighters: Other (Please specify:____)

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

Model 07.	Q34. About now o	bitten do you	unink your men	ginters use	SCDAS while hg	gnung su ug		Adjusted Odds Ratio ^e	
		Pr	evalence		Beta	Predic	ted Marginal	Adjusted	1 Odds Ratio
Characteristic"		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		91.39%	(89.62%,93.16%)	1.990^{*}	(1.034,2.946)	91.39%	(89.62%,93.16%)		
Region (0.0025)	Northeast South Midwest	99.14% ^{2,3,4} 89.71% ¹ 87.42% ¹	(97.95%,100.00%) (86.26%,93.16%) (83.85%,91.00%)	2.296 [*] -0.266 -0.435	(0.736,3.856) (-1.072,0.541) (-1.217,0.347)	99.09% ^{2,3,4} 89.67% ¹ 88.06% ¹	(97.84%,100.00%) (86.25%,93.09%) (84.61%,91.50%)	9.94 [*] 0.77 0.65	(2.09,47.29) (0.34,1.72) (0.30,1.42)
	West	92.12% ¹	(87.14%,97.11%)	0.000	(0.000, 0.000)	91.83% ¹	(86.67%,96.98%)	1.00	n/a
Department Type (0.7492)	All Career All Volunteer Combination	98.46% ^{2,3} 92.28% ¹ 90.38% ¹	(96.47%,100.00%) (89.03%,95.54%) (88.13%,92.62%)	0.479 0.000 -0.119	(-1.110,2.069) (0.000,0.000) (-0.697,0.460)	94.75% 91.93% 91.05%	(87.14%,100.00%) (88.48%,95.37%) (88.88%,93.23%)	1.62 1.00 0.89	(0.33,7.91) n/a (0.50,1.58)
Jurisdiction Type	Urban Rural/Missing								
Jurisdiction Size ^f (0.0001)	50,000+ 5,000-50,000 0 - 5,000	99.22% ³ 97.73% ³ 88.34% ^{1,2}	(97.70%,100.00%) (96.27%,99.20%) (85.82%,90.86%)	2.432 [*] 1.612 [*] 0.000	(0.035,4.828) (0.844,2.379) (0.000,0.000)	98.88% ³ 97.50% ³ 88.90% ^{1,2}	(96.27%,100.00%) (95.81%,99.19%) (86.40%,91.40%)	11.38 [*] 5.01 [*] 1.00	(1.04,125.02) (2.33,10.80) n/a
FFFIPP/ Fatality (0.5904)	Fatality with Investigation Fatality - No Investigation No Fatality	96.99% ³ 94.66% 91.32% ¹	(93.59%,100.00%) (89.16%,100.00%) (89.52%,93.12%)	0.617 0.161 0.000	(-0.593,1.827) (-0.982,1.303) (0.000,0.000)	95.03% 92.49% 91.37%	(89.57%,100.00%) (85.11%,99.88%) (89.58%,93.15%)	1.85 1.17 1.00	(0.55,6.22) (0.37,3.68) n/a
Who Completed Survey (Q62) (0.6970)	Fire Chief Safety Officer Training Officer Other/Missing	91.13% 94.67% 95.81% 90.48%	(89.01%,93.24%) (86.64%,100.00%) (90.51%,100.00%) (86.18%,94.78%)	0.186 0.307 0.853 0.000	(-0.399,0.772) (-1.422,2.037) (-0.589,2.295) (0.000,0.000)	91.44% 92.30% 95.30% 89.96%	(89.39%,93.49%) (81.11%,100.00%) (89.47%,100.00%) (85.58%,94.35%)	1.20 1.36 2.35 1.00	(0.67,2.16) (0.24,7.67) (0.55,9.93) n/a

Model 67:	Q34. About how often do	you think	your firefighters use	SCBAs while fighting	g structure fires?	- Most of the time or Alwa	ays
	÷				0		

--- Effect not included in model.

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	L	Pre	valence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		77.45%	(74.93%,79.96%)	0.980^{*}	(0.397,1.562)	77.45%	(74.93%,79.96%)		
Region (0.4309)	Northeast South	78.19% 74.44%	(72.79%,83.59%) (69.71%,79.17%) (75.04%,82.28%)	-0.116 -0.254	(-0.671,0.438) (-0.768,0.259)	77.21% 74.78%	(71.58%,82.84%) (70.07%,79.48%)	0.89	$(0.51,1.55) \\ (0.46,1.30) \\ (0.62,1.75)$
	West	80.04%	(73.06%,87.01%)	0.045	(-0.468, 0.558) (0.000, 0.000)	79.83%	(72.03%,86.24%)	1.05	(0.03,1.75) n/a
Department Type (0.5352)	All Career All Volunteer Combination	92.15% ^{2,3} 76.89% ¹ 76.58% ¹	(88.07%,96.24%) (72.26%,81.52%) (73.39%,79.77%)	0.389 0.000 0.080	(-0.316,1.093) (0.000,0.000) (-0.265,0.426)	82.53% 76.41% 77.78%	(72.77%,92.29%) (71.57%,81.25%) (74.65%,80.91%)	1.47 1.00 1.08	(0.73,2.98) n/a (0.77,1.53)
Jurisdiction Type (0.2188)	Urban Rural/Missing	87.81% ² 75.39% ¹	(83.64%,91.98%) (72.50%,78.29%)	0.322	(-0.191,0.836)	81.94% 76.83%	(74.98%,88.91%) (74.08%,79.57%)	1.38 1.00	(0.83,2.31) n/a
Jurisdiction Size ^f (0.0003)	50,000+ 5,000-50,000 0 - 5,000	$\frac{95.23\%^{2,3}}{85.15\%^{1,3}}$ $73.31\%^{1,2}$	(92.38%,98.08%) (81.77%,88.52%) (69.90%,76.73%)	$\frac{1.397^{*}}{0.600^{*}}$	(0.594,2.200) (0.234,0.967) (0.000,0.000)	$\frac{92.06\%^{2,3}}{84.02\%^{1,3}}$ 74.41\%^{1,2}	(86.50%,97.61%) (80.09%,87.95%) (70.96%,77.86%)	$\frac{4.04^{*}}{1.82^{*}}$ 1.00	(1.81,9.03) (1.26,2.63) n/a
FFFIPP/ Fatality (0.1374)	Fatality with Investigation Fatality - No Investigation No Fatality	88.75% ³ 85.89% ³ 77.28% ^{1,2}	(83.09%,94.41%) (78.63%,93.15%) (74.72%,79.83%)	0.416 0.488 0.000	(-0.189,1.020) (-0.133,1.108) (0.000,0.000)	83.64% 84.58% 77.34%	(75.75%,91.53%) (76.90%,92.26%) (74.80%,79.89%)	1.52 1.63 1.00	(0.83,2.77) (0.88,3.03) n/a
Who Completed Survey (Q62) (0.1093)	Fire Chief Safety Officer Training Officer Other/Missing	$ \begin{array}{r} 76.08\%^3 \\ 87.81\% \\ 90.25\%^{1,4} \\ 76.66\%^3 \end{array} $	(72.99%,79.16%) (76.13%,99.48%) (83.19%,97.32%) (70.90%,82.41%)	0.010 0.596 0.966 [*] 0.000	(-0.372,0.393) (-0.573,1.765) (0.092,1.840) (0.000,0,000)	76.51% ³ 85.24% 89.27% ^{1,4} 76.33% ³	(73.45%,79.58%) (71.29%,99.20%) (81.57%,96.96%) (70.49%,82.18%)	$ \begin{array}{r} 1.01 \\ 1.81 \\ 2.63^{*} \\ 1.00 \end{array} $	(0.69,1.48) (0.56,5.84) (1.10,6.30) n/a

Model 68: Q38. Does your fire department have Automated External Defibrillators (AEDs)? Yes

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	1055	Pre	evalence ^b		Beta ^c	Predict	ed Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		40.13%	(36.77%,43.49%)	-0.704*	(-1.278,-0.130)	40.13%	(36.77%,43.49%)		
Region (0.1848)	Northeast South Midwest West	$\begin{array}{r} 40.40\% \\ 44.05\%^4 \\ 39.32\% \\ 30.80\%^2 \end{array}$	(33.22%,47.59%) (38.03%,50.08%) (33.56%,45.07%) (21.59%,40.02%)	0.402 0.542* 0.325 0.000	(-0.127,0.930) (0.044,1.040) (-0.172,0.822) (0.000,0.000)	40.64% 44.03% ⁴ 38.82% 31.51% ²	(33.34%,47.94%) (38.02%,50.04%) (33.05%,44.59%) (22.28%,40.75%)	1.49 1.72 [*] 1.38 1.00	(0.88,2.54) (1.05,2.83) (0.84,2.28) n/a
Department Type (0.4703)	All Career All Volunteer Combination	33.45% 42.16% 39.68%	(26.99%,39.91%) (35.97%,48.35%) (35.36%,44.00%)	0.024 0.000 -0.202	(-0.453,0.501) (0.000,0.000) (-0.540,0.137)	43.65% 43.07% 38.31%	(32.68%,54.63%) (36.66%,49.49%) (33.95%,42.66%)	1.02 1.00 0.82	(0.64,1.65) n/a (0.58,1.15)
Jurisdiction Type (0.7401)	Urban Rural/Missing	36.08% 41.01%	(29.60%,42.55%) (37.16%,44.85%)	-0.071	(-0.492,0.350)	<u>38.74%</u> 40.41%	(29.97%,47.51%) (36.63%,44.20%)	0.93	(0.61,1.42) n/a
Jurisdiction Size ^f (0.0034)	50,000+ 5,000-50,000 0 - 5,000	20.93% ^{2,3} 39.66% ¹ 41.30% ¹	(15.31%,26.54%) (34.44%,44.87%) (36.80%,45.79%)	-0.853 [*] -0.071 0.000	(-1.389,-0.316) (-0.403,0.261) (0.000,0.000)	23.18% ^{2,3} 39.51% ¹ 41.21% ¹	(14.73%,31.64%) (33.75%,45.28%) (36.55%,45.86%)	0.43 [*] 0.93 1.00	(0.25,0.73) (0.67,1.30) n/a
FFFIPP/ Fatality (0.3936)	Fatality with Investigation Fatality - No Investigation No Fatality	33.13% 45.52% 40.12%	(24.07%,42.20%) (34.64%,56.40%) (36.70%,43.55%)	-0.051 0.321 0.000	(-0.515,0.412) (-0.154,0.796) (0.000,0.000)	38.85% 47.78% 40.05%	(28.27%,49.42%) (36.64%,58.93%) (36.64%,43.46%)	0.95 1.38 1.00	(0.60,1.51) (0.86,2.22) n/a
Who Completed Survey (Q62) (0.2466)	Fire Chief Safety Officer Training Officer Other/Missing	42.27% 26.41% 30.47% 38.30%	(38.14%,46.40%) (10.24%,42.58%) (18.94%,42.01%) (31.13%,45.46%)	0.189 -0.426 -0.292 0.000	(-0.175,0.553) (-1.402,0.549) (-0.931,0.347) (0.000,0.000)	42.23% 28.46% 31.24% 37.75%	(38.09%,46.37%) (9.55%,47.37%) (19.17%,43.31%) (30.49%,45.02%)	1.21 0.65 0.75 1.00	(0.84,1.74) (0.25,1.73) (0.39,1.41) n/a

Model 69: Q39. How often has routine maintenance, including replacement of battery packs, been performed on your AEDs? - Once a year or less

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pr	evalence ^b		Beta ^c	Predic	cted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		91.04%	(89.33%,92.74%)	2.298^{*}	(1.377,3.218)	91.04%	(89.33%,92.74%)		
Region (0.0456)	Northeast South Midwest	88.31% ² 94.57% ^{1,3} 88.87% ²	(84.25%,92.37%) (92.08%,97.05%) (85.67%,92.08%)	-0.333 0.540 -0.156	(-1.095,0.430) (-0.265,1.345) (-0.885,0.573)	$\frac{87.91\%^2}{94.47\%^{1,3}}$ $\frac{89.62\%^2}{2}$	(83.69%,92.13%) (91.99%,96.96%) (86.60%,92.65%)	0.72 1.72 0.86	$\begin{array}{r} (0.33,1.54) \\ \hline (0.77,3.84) \\ \hline (0.41,1.77) \end{array}$
	West	91.60%	(86.74%,96.46%)	0.000	(0.000,0.000)	90.96%	(85.77%,96.14%)	1.00	n/a
Department Type (0.0212)	All Career All Volunteer Combination	$\frac{98.13\%^{2,3}}{94.95\%^{1,3}}$ $\frac{88.31\%^{1,2}}{}$	(96.42%,99.85%) (92.42%,97.47%) (85.91%,90.71%)	0.320 0.000 -0.769*	(-0.810,1.451) (0.000,0.000) (-1.380,-0.157)	$\frac{96.00\%^3}{94.59\%^3}$ 89.14\%^{1,2}	(91.88%,100.00%) (91.83%,97.35%) (86.82%,91.46%)	1.38 1.00 0.46 [*]	(0.44,4.27) n/a (0.25,0.85)
Jurisdiction Type (0.0994)	Urban Rural/Missing	96.08% ² 90.02% ¹	(93.45%,98.70%) (88.05%,92.00%)	0.721	(-0.137,1.578)	95.03% ² 90.42% ¹	(91.24%,98.81%) (88.52%,92.33%)	2.06 1.00	(0.87,4.85) n/a
Jurisdiction Size ^f (0.3254)	50,000+ 5,000-50,000 0 - 5,000	$\frac{98.64\%^{2,3}}{93.73\%^{1,3}}$ $\frac{93.73\%^{1,3}}{89.53\%^{1,2}}$	(97.31%,99.97%) (91.37%,96.08%) (87.23%,91.83%)	0.872 0.241 0.000	(-0.301,2.044) (-0.299,0.781) (0.000,0.000)	95.73% 92.36% 90.53%	(91.25%,100.00%) (89.28%,95.43%) (88.35%,92.70%)	2.39 1.27 1.00	(0.74,7.72) (0.74,2.18) n/a
FFFIPP/ Fatality (0.1786)	Fatality with Investigation Fatality - No Investigation No Fatality	98.27% ³ 94.19% 90.95% ¹	(95.80%,100.00%) (89.71%,98.68%) (89.22%,92.68%)	1.270 0.386 0.000	(-0.228,2.769) (-0.470,1.242) (0.000,0.000)	97.23% ³ 93.63% 90.98% ¹	(93.27%,100.00%) (88.79%,98.47%) (89.26%,92.71%)	3.56 1.47 1.00	(0.80,15.94) (0.63,3.46) n/a
Who Completed Survey (Q62) (0.3207)	Fire Chief Safety Officer Training Officer Other/Missing	91.13% 95.75% 93.24% 89.39%	(89.12%,93.14%) (88.21%,100.00%) (87.80%,98.69%) (85.17%,93.61%)	0.484 0.824 0.417 0.000	(-0.041,1.009) (-1.162,2.809) (-0.545,1.379) (0.000,0.000)	91.78% 93.96% 91.27% 87.48%	(89.90%,93.65%) (83.23%,100.00%) (84.59%,97.95%) (82.67%,92.29%)	$ \begin{array}{r} 1.62 \\ 2.28 \\ 1.52 \\ 1.00 \end{array} $	(0.96,2.74) (0.31,16.59) (0.58,3.97) n/a

Model 70: Q40. About how often do your firefighters carry radios or other two-way communication devices while responding to structure fires? - Most of the time or Always

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	valence ^b		Beta ^c	Predict	ed Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		7.20%	(5.62%, 8.78%)	-2.312^{*}	(-3.210,-1.414)	7.20%	(5.62%,8.78%)		
Region	Northeast	6.03%	(3.01%,9.05%)	-0.114	(-0.987,0.759)	6.60%	(3.26%,9.95%)	0.89	(0.37,2.14)
(0.5476)	South	8.85%	(5.73%,11.97%)	0.186	(-0.594,0.965)	8.68%	(5.61%,11.75%)	1.20	(0.55,2.63)
	Midwest	6.07%	(3.66%,8.49%)	-0.234	(-1.036,0.568)	5.90%	(3.55%,8.25%)	0.79	(0.35,1.76)
	West	7.55%	(2.95%,12.15%)	0.000	(0.000, 0.000)	7.33%	(2.80%,11.87%)	1.00	n/a
Department	All Career	$4.53\%^{3}$	(2.00%,7.06%)	0.290	(-0.711,1.292)	8.08%	(0.92%,15.24%)	1.34	(0.49,3.64)
Туре	All Volunteer	6.47%	(3.68%,9.26%)	0.000	(0.000, 0.000)	6.19%	(3.44%,8.93%)	1.00	n/a
(0.6548)	Combination	7.82% ¹	(5.76%,9.88%)	0.242	(-0.340,0.825)	7.73%	(5.62%,9.84%)	1.27	(0.71,2.28)
Jurisdiction	Urban	$3.06\%^2$	(0.85%,5.26%)	-0.868	(-1.909,0.173)	$3.47\%^2$	(0.21%,6.73%)	0.42	(0.15,1.19)
Туре	5 13 C	0.00.1				- 0 - 1		4.00	
(0.1022)	Rural/Missing	8.03%1	(6.19%,9.88%)	0.000	(0.000, 0.000)	7.85%1	(6.04%,9.66%)	1.00	n/a
Jurisdiction	50,000+	4.83%	(1.85%,7.81%)	-0.190	(-1.198,0.817)	6.60%	(0.90%,12.30%)	0.83	(0.30,2.26)
Size ⁴	5,000-50,000	4.67% ³	(2.68%,6.66%)	-0.403	(-0.986,0.180)	5.41%	(2.97%,7.86%)	0.67	(0.37,1.20)
(0.3922)	0-5,000	8.42%2	(6.25%,10.59%)	0.000	(0.000, 0.000)	7.86%	(5.78%,9.95%)	1.00	n/a
FFFIPP/	Fatality with	5 220/	(1.080/0.260/)	0.129	(10140759)	6 410/	(1.250/11.570/)	0.00	(0.26.2.12)
(0.0374)	Envestigation	5.22%	(1.08%,9.30%)	-0.128	(-1.014,0.758)	0.41%	(1.25%,11.57%)	0.88	(0.30,2.13)
(0.9374)	ratally - NO	6 1/1%	(1.78% 10.50%)	-0 101	(-0.919.0.717)	6 57%	(1.82% 11.33%)	0.90	(0.40.2.05)
	No Fatality	7 23%	(1.76%, 10.30%) (5.62% 8.84%)	0.000	(-0.919, 0.717)	7 21%	(1.02%,11.05%) (5.61% 8.82%)	1.00	(0.+0,2.03) n/a
	1001 atanty	1.2370	(3.0270,0.0470)	0.000	(0.000,0.000)	7.2170	(5.0170,0.0270)	1.00	11/ u
Who	Fire Chief	6.61%	(1 80% 8 12%)	-0.305	(-0.883.0.273)	6 47%	(1 68% 8 26%)	0.74	(0.41.1.31)
Completed	Safety Officer	6.86%	(0.00% 16.84%)	-0.007	(-1 778 1 584)	7 83%	(0.00% 19.30%)	0.74	(0.17.4.87)
Survey (Q62)	Training Officer	10.05%	(2.99%,17.10%)	0.303	(-0.637.1.243)	11.20%	(3.23%,19.17%)	1.35	(0.53.346)
(0.4854)	Other/Missing	8.38%	(4.63%,12.12%)	0.000	(0.000,0.000)	8.56%	(4.76%,12.35%)	1.00	n/a

Model 71: Q41. Some radios and other two-way communication devices can have problems under field conditions. About how often do your communication devices have these or other problems? - Most of the time or Always

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjustee	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		73.22%	(70.57%,75.86%)	0.838^{*}	(0.287,1.389)	73.22%	(70.57%,75.86%)		
Region (0.1831)	Northeast South Midwest	$78.38\%^{2,3}$ $69.82\%^{1,4}$ $70.98\%^{1}$	(73.05%,83.71%) (64.84%,74.79%) (66.36%,75.60%)	-0.089 -0.438 -0.357	(-0.636,0.458) (-0.937,0.060) (-0.855.0.141)	76.81% 70.34% 71.93%	(71.17%,82.45%) (65.45%,75.23%) (67.41%,76.45%)	0.91 0.65 0.70	$(0.53,1.58) \\ (0.39,1.06) \\ (0.43,1,15)$
	West	$78.65\%^2$	(71.54%, 85.77%)	0.000	(0.000.0.000)	78.30%	(71.20%.85.41%)	1.00	n/a
Department Type (0.1367)	All Career All Volunteer Combination	84.14% ^{2,3} 76.51% ^{1,3} 70.56% ^{1,2}	(78.75%,89.52%) (71.77%,81.24%) (67.14%,73.97%)	-0.540 0.000 -0.232	(-1.146,0.065) (0.000,0.000) (-0.574,0.110)	65.78% 76.23% 72.00%	(53.59%,77.97%) (71.32%,81.14%) (68.65%,75.35%)	0.58 1.00 0.79	(0.32,1.07) n/a (0.56,1.12)
Jurisdiction Type (0.0225)	Urban Rural/Missing	87.29% ² 70.41% ¹	(83.04%,91.55%) (67.35%,73.47%)	0.598 [*] 0.000	(0.085,1.112)	82.03% ² 71.90% ¹	(75.08%,88.98%) (68.98%,74.83%)	1.82 [*] 1.00	(1.09,3.04) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 92.69\%^{2,3}\\ 83.68\%^{1,3}\\ 67.76\%^{1,2}\end{array}$	(89.48%,95.89%) (80.19%,87.16%) (64.15%,71.36%)	1.586 [*] 0.711 [*] 0.000	(0.911,2.261) (0.364,1.057) (0.000,0.000)	91.44% ^{2,3} 81.82% ^{1,3} 69.17% ^{1,2}	(86.56%,96.32%) (77.71%,85.92%) (65.51%,72.83%)	4.89 [*] 2.04 [*] 1.00	(2.49,9.59) (1.44,2.88) n/a
FFFIPP/ Fatality (0.0001)	Fatality with Investigation Fatality - No Investigation No Fatality	91.76% ³ 88.91% ³ 72.92% ^{1.2}	(87.00%,96.53%) (83.03%,94.79%) (70.23%,75.61%)	$\frac{1.052^{*}}{0.984^{*}}$	(0.403,1.701) (0.337,1.631) (0.000,0.000)	88.17% ³ 87.47% ³ 73.00% ^{1,2}	(81.67%,94.68%) (80.72%,94.21%) (70.32%,75.68%)	2.86 [*] 2.68 [*] 1.00	(1.50,5.48) (1.40,5.11) n/a
Who Completed Survey (Q62) (0.1211)	Fire Chief Safety Officer Training Officer Other/Missing	74.09% 77.94% 78.67% 67.95%	(70.93%,77.25%) (62.76%,93.12%) (69.13%,88.22%) (61.79%,74.11%)	$\begin{array}{r} 0.420^{*} \\ 0.197 \\ 0.456 \\ 0.000 \end{array}$	(0.069,0.772) (-0.733,1.127) (-0.207,1.119) (0.000,0.000)	74.92% ⁴ 70.72% 75.56% 66.71% ¹	(71.82%,78.02%) (53.27%,88.18%) (65.02%,86.11%) (60.40%,73.02%)	$ \begin{array}{r} 1.52^{*} \\ 1.22 \\ 1.58 \\ 1.00 \end{array} $	(1.07,2.16) (0.48,3.09) (0.81,3.06) n/a

Model 72: Q43. How often have you seen NIOSH reports that describe recent firefighter fatalities and make recommendations for avoiding similar incidents? Once a year or more

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b	8	Beta ^c	Predict	ted Marginal ^d	Adjuste	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		72.70%	(69.65%,75.75%)	0.473	(-0.089,1.035)	72.70%	(69.65%,75.75%)		
Region (0.7519)	Northeast South Midwest	73.78% 70.88% 71.37%	(67.53%,80.04%) (65.12%,76.64%) (65.98%,76.77%)	-0.240 -0.256 -0.273	(-0.799,0.319) (-0.768,0.256) (-0.790,0.244)	72.41% 72.11% 71.77%	(65.83%,78.99%) (66.57%,77.64%) (66.46%,77.08%)	0.79 0.77 0.76	(0.45,1.38) (0.46,1.29) (0.45,1.28)
	West	78.04%	(70.86%,85.23%)	0.000	(0.000, 0.000)	76.79%	(69.30%,84.28%)	1.00	n/a
Department Type (0.6691)	All Career All Volunteer Combination	82.28% ^{2,3} 73.45% ¹ 71.33% ¹	(76.60%,87.96%) (68.13%,78.77%) (67.29%,75.37%)	-0.270 0.000 -0.007	(-0.875,0.335) (0.000,0.000) (-0.378,0.364)	67.58% 72.97% 72.85%	(55.58%,79.58%) (67.40%,78.55%) (68.91%,76.78%)	0.76 1.00 0.99	(0.42,1.40) n/a (0.69,1.44)
Jurisdiction Type (0.0294)	Urban Rural/Missing	83.29% ² 70.11% ¹	(78.43%,88.14%) (66.51%,73.72%)	0.541*	(0.054,1.027)	80.59% ² 71.02% ¹	(73.82%,87.35%) (67.52%,74.52%)	1.72 [*] 1.00	(1.06,2.79) n/a
Jurisdiction Size ^f (0.0025)	50,000+ 5,000-50,000 0 - 5,000	$\frac{90.19\%^{2,3}}{78.35\%^{1,3}}$ 68.68% ^{1,2}	(86.19%,94.20%) (74.16%,82.55%) (64.38%,72.99%)	1.194 [*] 0.346 0.000	(0.514,1.873) (-0.017,0.709) (0.000,0.000)	88.27% ^{2,3} 76.61% ¹ 70.05% ¹	(81.94%,94.61%) (71.83%,81.40%) (65.73%,74.38%)	3.30 [*] 1.41 1.00	(1.67,6.51) (0.98,2.03) n/a
FFFIPP/ Fatality (0.0175)	Fatality with Investigation Fatality - No Investigation No Fatality	90.64% ^{2,3} 76.97% ¹ 72.49% ¹	(85.01%,96.27%) (68.20%,85.73%) (69.37%,75.60%)	0.980 [*] 0.202 0.000	(0.292,1.668) (-0.349,0.753) (0.000,0.000)	87.25% ³ 76.26% 72.55% ¹	(79.88%,94.63%) (67.04%,85.48%) (69.45%,75.66%)	2.66 [*] 1.22 1.00	(1.34,5.30) (0.71,2.12) n/a
Who Completed Survey (Q62) (0.0047)	Fire Chief Safety Officer Training Officer Other/Missing	73.52% ^{3,4} 84.32% ⁴ 84.96% ^{1,4} 63.26% ^{1,2,3}	(69.90%,77.13%) (69.51%,99.14%) (76.21%,93.72%) (55.65%,70.87%)	$\begin{array}{r} 0.595^{*} \\ 0.886 \\ 1.143^{*} \\ 0.000 \end{array}$	(0.194,0.996) (-0.288,2.060) (0.377,1.908) (0.000,0.000)	$ \begin{array}{r} 74.30\%^4 \\ 79.36\% \\ 83.19\%^4 \\ 61.82\%^{1.3} \end{array} $	(70.75%,77.85%) (61.10%,97.62%) (73.59%,92.79%) (53.97%,69.68%)	1.81 [*] 2.43 3.14 [*] 1.00	(1.21,2.71) (0.75,7.85) (1.46,6.74) n/a

Model 73: 0	Q45. Have you read	part or all of a NIOSH Fire I	ighter Fatalit	y Investigation re	port in the last	12 months? Yes
	`					

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted	l Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		68.45%	(65.19%,71.71%)	0.353	(-0.203,0.908)	68.45%	(65.19%,71.71%)		
Region	Northeast	74.77% ^{3,4}	(68.60%,80.93%)	0.767^{*}	(0.253,1.281)	75.23% ^{3,4}	(69.13%,81.32%)	2.15^{*}	(1.29,3.60)
(0.0220)	South	69.76%	(63.73%,75.79%)	0.476	(-0.008,0.960)	69.49%	(63.45%,75.53%)	1.61	(0.99,2.61)
	Midwest	65.07%1	(59.28%,70.86%)	0.304	(-0.175,0.782)	65.76% ¹	(59.96%,71.57%)	1.36	(0.84,2.19)
	West	60.86% ¹	(51.95%,69.76%)	0.000	(0.000, 0.000)	58.73% ¹	(49.35%,68.11%)	1.00	n/a
Department	All Career	77.84% ³	(71.87%,83.81%)	0.282	(-0.253,0.817)	76.88% ³	(67.90%,85.86%)	1.33	(0.78,2.26)
Type	All Volunteer	71.35%	(65.77%,76.92%)	0.000	(0.000,0.000)	71.57%	(65.82%,77.32%)	1.00	n/a
(0.1253)	Combination	65.80% ¹	(61.42%,70.17%)	-0.275	(-0.641,0.092)	65.77% ¹	(61.26%,70.28%)	0.76	(0.53,1.10)
Jurisdiction	Urban	72.86%	(67.08%,78.64%)	-0.079	(-0.509,0.351)	67.07%	(58.86%,75.29%)	0.92	(0.60,1.42)
(0.7180)	Rural/Missing	67.32%	(63.51%,71.14%)	0.000	(0.000,0.000)	68.76%	(65.09%,72.43%)	1.00	n/a
Jurisdiction	50,000+	$74.58\%^{3}$	(68.08%,81.07%) (68.15% 77.47%)	0.175	(-0.436, 0.787)	70.30%	(59.20%,81.39%) (66.66% 76.92%)	1.19	(0.65, 2.20) (0.90, 1, 83)
(0.3817)	0 - 5.000	65.69% ^{1,2}	(61.14%, 70.24%)	0.000	(0.000.0.000)	66.57%	(61.88%,71.27%)	1.00	(0.90,1.03) n/a
FFFIPP/ Fatality	Fatality with Investigation	71.93%	(63.85%.80.01%)	-0.023	(-0.464.0.417)	68.00%	(58.90%,77.10%)	0.98	(0.63.1.52)
(0.8288)	Fatality - No Investigation	66.96%	(56.88%,77.04%)	-0.152	(-0.640,0.336)	65.21%	(54.92%,75.49%)	0.86	(0.53,1.40)
	No Fatality	68.44%	(65.11%,71.77%)	0.000	(0.000, 0.000)	68.50%	(65.18%,71.81%)	1.00	n/a
Who	Fire Chief	67.80%	(63.89%,71.72%)	0.068	(-0.346,0.481)	68.26%	(64.37%,72.15%)	1.07	(0.71,1.62)
Completed	Safety Officer	71.410/	(63.55%,91.85%)	0.508	(-0.441,1.458)	76.82%	(61.20%,92.45%)	1.66	(0.64, 4.30)
(0.7335)	Other/Missing	68.19%	(60.63%,75.75%)	0.199	(0.000,0.000)	66.81%	(58.92%,74.70%)	1.22	(0.02,2.39) n/a

Model 74: Q52a. Agree/disagree with the following statements about the NIOSH recommendations: Recommendations are practical - Agree or Strongly Agree

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

	Agree of Strong	Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		69.51%	(66.28%,72.75%)	0.613*	(0.042,1.184)	69.51%	(66.28%,72.75%)		
Region (0.2475)	Northeast South	74.17% 70.27%	(67.99%,80.36%) (64.24%,76.31%)	0.459	(-0.070,0.988) (-0.257,0.731)	74.43%	(68.18%,80.69%) (63.99%,76.11%)	1.58 1.27	(0.93,2.69) (0.77,2.08)
	Midwest West	66.00% 66.68%	(60.17%,71.83%) (58.17%,75.19%)	0.081	(-0.412,0.573) (0.000,0.000)	66.72% 64.94%	(60.83%,72.61%) (55.91%,73.97%)	1.08 1.00	(0.66,1.77) n/a
Department Type (0.0286)	All Career All Volunteer Combination	84.14% ^{2,3} 72.31% ¹ 66.39% ¹	(79.02%,89.26%) (66.79%,77.84%) (62.03%,70.74%)	0.539 0.000 -0.254	(-0.011,1.089) (0.000,0.000) (-0.625,0.117)	81.58% ^{2,3} 72.18% ¹ 66.85% ¹	(73.68%,89.48%) (66.39%,77.97%) (62.39%,71.31%)	1.71 1.00 0.78	(0.99,2.97) n/a (0.54,1.12)
Jurisdiction Type (0.7007)	Urban Rural/Missing	76.57% ² 67.70% ¹	(71.08%,82.05%) (63.88%,71.51%)	0.087	(-0.359,0.533)	70.99% 69.19%	(63.00%,78.98%) (65.50%,72.89%)	1.09 1.00	(0.70,1.70) n/a
Jurisdiction Size ^f (0.5505)	50,000+ 5,000-50,000 0 - 5,000	81.12% ³ 73.91% ³ 66.41% ^{1,2}	(75.27%,86.96%) (69.25%,78.57%) (61.89%,70.93%)	0.211 0.203 0.000	(-0.412,0.833) (-0.165,0.570) (0.000,0.000)	72.35% 72.19% 68.01%	(61.41%,83.29%) (66.82%,77.56%) (63.41%,72.61%)	1.23 1.22 1.00	(0.66,2.30) (0.85,1.77) n/a
FFFIPP/ Fatality (0.6175)	Fatality with Investigation Fatality - No Investigation No Fatality	77.85% ³ 75.44% 69.36% ¹	(70.11%,85.59%) (65.99%,84.88%) (66.05%,72.67%)	0.154 0.221 0.000	(-0.332,0.641) (-0.313,0.754) (0.000,0.000)	72.55% 73.83% 69.44%	(63.29%,81.80%) (64.12%,83.54%) (66.14%,72.73%)	1.17 1.25 1.00	(0.72,1.90) (0.73,2.13) n/a
Who Completed Survey (Q62) (0.9065)	Fire Chief Safety Officer Training Officer Other/Missing	68.59% 79.26% 71.68% 70.50%	(64.70%,72.49%) (64.17%,94.35%) (60.21%,83.14%) (63.02%,77.97%)	0.029 0.380 0.063 0.000	(-0.394, 0.451) (-0.635, 1.396) (-0.621, 0.747) (0.000, 0.000)	69.37% 76.20% 70.08% 68.78%	(65.55%,73.20%) (59.13%,93.27%) (58.07%,82.10%) (60.86%,76.70%)	1.03 1.46 1.06 1.00	(0.67,1.57) (0.53,4.04) (0.54,2.11) n/a

Model 75: Q52b. Agree/disagree with the following statements about the NIOSH recommendations: Recommendations are easy to understand -Agree or Strongly Agree

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

9		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		57.99%	(54.52%,61.45%)	0.269	(-0.271,0.810)	57.99%	(54.52%,61.45%)		
Region	Northeast	61.22%	(54.23%,68.20%)	0.181	(-0.310,0.671)	61.02%	(53.87%,68.18%)	1.20	(0.73,1.96)
(0.3219)	South	60.25%	(53.92%,66.58%)	0.152	(-0.310,0.614)	60.35%	(54.00%,66.69%)	1.16	(0.73,1.85)
	Midwest	53.07%	(46.99%,59.14%)	-0.133	(-0.592,0.326)	53.41%	(47.30%,59.52%)	0.88	(0.55,1.39)
	West	57.30%	(48.28%,66.32%)	0.000	(0.000, 0.000)	56.68%	(47.34%,66.02%)	1.00	n/a
Department	All Career	67.98% ^{2,3}	(61.23%,74.74%)	0.334	(-0.146,0.813)	65.35%	(54.96%,75.74%)	1.40	(0.86,2.25)
Type	All Volunteer	57.92% ¹	(51.80%,64.04%)	0.000	(0.000,0.000)	57.52%	(51.11%,63.93%)	1.00	n/a
(0.3765)	Combination	57.02% ¹	(52.46%,61.59%)	0.001	(-0.342,0.345)	57.55%	(52.84%,62.25%)	1.00	(0.71,1.41)
Jurisdiction	Urban	62.96%	(56.63%,69.29%)	0.142	(-0.263,0.547)	60.71%	(52.34%,69.09%)	1.15	(0.77,1.73)
1ype (0.4921)	Rural/Missing	56.72%	(52.68%,60.76%)	0.000	(0.000,0.000)	57.31%	(53.30%,61.32%)	1.00	n/a
Jurisdiction	50,000+	66.74% ³	(59.79%,73.69%)	0.004	(-0.550,0.558)	58.19%	(46.54%,69.84%)	1.00	(0.58, 1.75)
S12e	5,000-50,000	58.99%	(53./5%, 64.23%)	-0.015	(-0.352,0.322)	57.75%	(51.92%, 63.57%)	0.99	(0.70,1.38)
FFFIPP/ Fatality	Fatality with Investigation	66.05%	(57.44%,74.67%)	0.174	(-0.252,0.599)	62.04%	(52.36%,71.72%)	1.19	(0.78,1.82)
(0.6415)	Fatality - No Investigation No Fatality	62.59% 57.85%	(52.10%,73.07%) (54.31% 61.39%)	0.137	(-0.338,0.611)	61.17% 57 91%	(50.51%,71.84%) (54.38% 61.44%)	1.15	(0.71,1.84) n/a
	110 I alanty	57.6570	(51.5170,01.5570)	0.000	(0.000,0.000)	57.9170	(31.3070,01.1170)	1.00	11/ u
Who	Fire Chief	56.89%	(52.72%,61.06%)	-0.073	(-0.460,0.314)	57.37%	(53.21%,61.52%)	0.93	(0.63, 1.37)
Survey (062)	Training Officer	58 07%	(33.03%, 00.14%) (45.57%, 70.56%)	0.303	(-0.306, 1.234)	07.40% 57.13%	(47.00%, 03.20%) (11.37%, 60.80%)	1.44	(0.00, 3.43) (0.50, 1.71)
(0.7688)	Other/Missing	60.07%	(52.21%,67.93%)	0.000	(0.000,0.000)	59.13%	(50.94%,67.32%)	1.00	n/a

Model 76: Q52c. Agree/disagree with the following statements about the NIOSH recommendations: Recommendations are specific and concrete - Agree or Strongly Agree

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predicted Marginal ^d Adjusted Oc		d Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		57.41%	(54.43%,60.40%)	0.303	(-0.177,0.784)	57.41%	(54.43%,60.40%)		
Region	Northeast	66.81% ^{2,3}	(60.64%,72.99%) (46.91% 57.73%)	0.230	(-0.232, 0.692)	65.60% ^{2,3}	(59.19%,72.02%) (47.18% 58.01%)	1.26	(0.79,2.00)
(0.0210)	Midwest West	54.66% ¹ 61.01%	(49.51%, 59.80%) $(52.83%, 69.18%)$	-0.200	$\frac{(-0.619, 0.219)}{(0.000, 0.000)}$	55.65% ¹ 60.38%	(47.18%, 50.01%) (50.51%, 60.78%) (52.08%, 68.69%)	0.82	(0.54,1.24) n/a
Department Type (0.4048)	All Career All Volunteer Combination	77.13% ^{2,3} 58.99% ¹ 54.87% ¹	(71.27%,82.99%) (53.60%,64.38%) (51.02%,58.72%)	0.194 0.000 -0.128	(-0.281,0.669) (0.000,0.000) (-0.423,0.166)	63.55% 59.11% 56.09%	(53.35%,73.75%) (53.62%,64.61%) (52.21%,59.96%)	1.21 1.00 0.88	(0.75,1.95) n/a (0.66,1.18)
Jurisdiction Type (0.0183)	Urban Rural/Missing	73.68% ² 54.03% ¹	(68.13%,79.24%) (50.61%,57.45%)	0.476 [*] 0.000	(0.081,0.871)	66.70% ² 55.72% ¹	(58.78%,74.61%) (52.37%,59.06%)	1.61 [*] 1.00	(1.08,2.39) n/a
Jurisdiction Size ^f (0.0005)	50,000+ 5,000-50,000 0 - 5,000	$\frac{85.22\%^{2,3}}{64.81\%^{1,3}}$ 52.87 $\%^{1,2}$	(80.33%,90.10%) (60.28%,69.34%) (48.90%,56.83%)	1.129 [*] 0.262 0.000	(0.564,1.693) (-0.033,0.558) (0.000,0.000)	78.73% ^{2,3} 61.27% ¹ 55.04% ¹	(70.08%,87.37%) (56.06%,66.48%) (50.98%,59.09%)	3.09 [*] 1.30 1.00	(1.76,5.44) (0.97,1.75) n/a
FFFIPP/ Fatality (0.4502)	Fatality with Investigation Fatality - No Investigation No Fatality	68.32% ³ 67.43% ³ 57.23% ^{1,2}	(60.17%,76.47%) (57.83%,77.04%) (54.19%,60.26%)	0.037 0.305 0.000	(-0.398,0.471) (-0.170,0.781) (0.000,0.000)	58.19% 64.33% 57.34%	(48.29%,68.10%) (54.17%,74.49%) (54.31%,60.36%)	1.04 1.36 1.00	(0.67,1.60) (0.84,2.18) n/a
Who Completed Survey (Q62) (0.9627)	Fire Chief Safety Officer Training Officer Other/Missing	56.78% 61.07% 60.47% 58.00%	(53.14%,60.41%) (44.25%,77.89%) (49.46%,71.48%) (51.47%,64.53%)	0.021 -0.188 0.010 0.000	(-0.303,0.346) (-0.985,0.610) (-0.553,0.573) (0.000,0.000)	57.66% 52.71% 57.40% 57.16%	(54.06%,61.27%) (34.69%,70.73%) (45.80%,68.99%) (50.54%,63.78%)	1.02 0.83 1.01 1.00	(0.74,1.41) (0.37,1.84) (0.58,1.77) n/a

Model 77: Q53. What other NIOSH materials have you seen: Pocket guide to chemical hazards

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b	Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		13.78%	(11.81%,15.75%)	-2.977 [*]	(-3.641,-2.313)	13.78%	(11.81%,15.75%)		
Region	Northeast	16.99% ⁴	(12.29%,21.69%)	0.528	(-0.067,1.123)	15.55%	(11.03%,20.06%)	1.70	(0.94,3.07)
(0.3658)	South	13.06%	(9.57%,16.56%)	0.385	(-0.176,0.945)	13.79%	(10.05%,17.54%)	1.47	(0.84,2.57)
	Midwest West	13.95% 9.76% ¹	(10.50%, 17.40%) (5.67%, 13.84%)	0.405	(-0.147, 0.958) (0.000, 0.000)	9.88%	(10.56%, 17.50%) (5.75%, 14.00%)	1.50	(0.86,2.61) n/a
Department	All Career	$20.06\%^2$	(15.01%,25.11%)	0.031	(-0.511,0.574)	11.68%	(6.74%,16.62%)	1.03	(0.60,1.78)
1 ype (0.1653)	All Volunteer Combination	11.32%	(8.35%, 14.28%) (11.88%, 17.37%)	0.000	(0.000, 0.000) (-0.024, 0.750)	11.36%	(8.37%, 14.36%) (12.58%, 18.33%)	1.00	$\frac{n/a}{(0.98.2.12)}$
Jurisdiction Type	Urban	20.28% ²	(15.53%,25.03%)	0.277	(-0.173,0.726)	16.51%	(11.22%,21.79%)	1.32	(0.84,2.07)
(0.2270)	Rural/Missing	12.43% ¹	(10.27%,14.60%)	0.000	(0.000, 0.000)	13.09%	(10.87%,15.31%)	1.00	n/a
Jurisdiction Size ^f (0.0003)	50,000+ 5,000-50,000 0 - 5,000	$\frac{26.25\%^{2,3}}{17.99\%^{1,3}}$ $11.34\%^{1,2}$	(20.13%,32.38%) (14.39%,21.60%) (8.90%,13.78%)	$\frac{1.187^{*}}{0.480^{*}}$	(0.592,1.782) (0.114,0.846) (0.000,0.000)	29.55% ^{2,3} 17.29% ^{1,3} 11.51% ^{1,2}	(18.72%,40.38%) (13.60%,20.98%) (9.03%,13.98%)	3.28 [*] 1.62 [*] 1.00	(1.81,5.94) (1.12,2.33) n/a
FFFIPP/ Fatality (0.5094)	Fatality with Investigation Fatality - No Investigation No Fatality	21.07% ³ 19.10% 13.67% ¹	(14.05%,28.08%) (11.44%,26.76%) (11.67%,15.68%)	0.161 0.281 0.000	(-0.318,0.639) (-0.259,0.822) (0.000,0.000)	15.69% 17.31% 13.73%	(9.64%,21.75%) (10.09%,24.52%) (11.72%,15.73%)	1.17 1.32 1.00	(0.73,1.90) (0.77,2.27) n/a
Who Completed	Fire Chief Safety Officer	14.21% 13.52%	(11.76%,16.66%) (3.73%,23.32%)	0.311 0.022	(-0.160,0.782) (-0.919,0.963)	14.38% 11.23%	(11.92%,16.84%) (2.56%,19.91%)	1.36 1.02	$(0.85,2.19) \\ (0.40,2.62) \\ (0.25,2.50) \\ (0.40,2.62) \\ (0.25,2.50) \\ (0.25,2.50) \\ (0.25,2.50) \\ (0.25,2.19) \\ $
(0.3846)	Other/Missing	17.96%	(9.66%,26.26%) (7.20%,14.98%)	0.553	$\frac{(-0.146, 1.253)}{(0.000, 0.000)}$	17.55%	$\frac{(9.21\%, 25.89\%)}{(7.03\%, 15.01\%)}$	1./4	(0.86,3.50) n/a

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^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b	Beta ^c		Predict	ted Marginal ^d	Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		27.99%	(25.31%,30.67%)	-1.187 [*]	(-1.686,-0.688)	27.99%	(25.31%,30.67%)		
Region	Northeast	31.24%	(25.24%,37.24%)	0.130	(-0.348,0.608)	30.51%	(24.35%,36.67%)	1.14	(0.71,1.84)
(0.8145)	South	26.32%	(21.65%, 30.99%)	-0.057	(-0.499,0.385)	26.71%	(21.96%,31.47%)	0.94	(0.61,1.47)
	Midwest	27.39%	(22.80%,31.98%)	-0.013	(-0.457,0.432)	27.59%	(22.98%, 32.20%)	0.99	(0.63,1.54)
	West	28.15%	(20.82%,35.48%)	0.000	(0.000, 0.000)	27.84%	(20.39%,35.29%)	1.00	n/a
Department	All Career	34.53%	(27.97%,41.09%)	-0.017	(-0.480,0.446)	27.38%	(18.72%,36.04%)	0.98	(0.62,1.56)
Туре	All Volunteer	27.51%	(22.79%, 32.24%)	0.000	(0.000, 0.000)	27.72%	(22.84%, 32.60%)	1.00	n/a
(0.9828)	Combination	27.70%	(24.23%,31.18%)	0.024	(-0.292,0.340)	28.20%	(24.60%,31.80%)	1.02	(0.75,1.40)
Jurisdiction	Urban	34.01% ²	(28.29%,39.74%)	0.211	(-0.189,0.611)	31.56%	(24.02%,39.10%)	1.23	(0.83,1.84)
(0.3009)	Rural/Missing	$26.74\%^{1}$	(23.73%,29.74%)	0.000	(0.000,0.000)	27.21%	(24.16%,30.26%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5,000-50,000	$\frac{41.21\%^{2,3}}{30.07\%^{1}}$	(34.50%,47.92%) (25.65%,34.49%)	0.504	(-0.025,1.032) (-0.240,0.413)	38.06% 28.86%	(27.24%,48.88%) (23.98%,33.75%)	1.65 1.09	(0.98,2.81) (0.79,1.51)
(0.1465)	0-5,000	26.48% ¹	(23.02%,29.94%)	0.000	(0.000,0.000)	27.13%	(23.43%,30.83%)	1.00	n/a
FFFIPP/ Fatality	Fatality with Investigation	47.86% ^{2,3}	(39.18%,56.54%)	0.677^{*}	(0.296,1.058)	43.03% ³	(33.99%,52.08%)	1.97*	(1.34,2.88)
(0.0022)	Fatality - No Investigation	$32.76\%^{1}$	(23.37%,42.14%)	0.175	(-0.279,0.629)	31.46%	(22.14%,40.79%)	1.19	(0.76,1.88)
	NO Patanty	27.8070	(23.0770,30.3270)	0.000	(0.000,0.000)	27.0470	(23.12%, 30.30%)	1.00	11/ <i>a</i>
Who Completed	Fire Chief Safety Officer	28.20% 31.62%	(24.95%,31.45%) (16.41%,46.82%)	0.158	(-0.186, 0.501) (-0.644, 0.946)	28.49% 28.37%	(25.22%,31.77%) (13.15%,43.58%)	1.17	(0.83, 1.65) (0.53, 2.58)
Survey (Q62)	Training Officer	31.55%	(21.07%,42.03%)	0.266	(-0.308,0.840)	30.74%	(20.15%,41.32%)	1.30	(0.74,2.32)
(0.7631)	Other/Missing	25.68%	(20.09%,31.26%)	0.000	(0.000,0.000)	25.42%	(19.79%,31.04%)	1.00	n/a

Model 79:	Q53. What other NIOSH materials have	you seen: CDs of firefighter program materials

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjustee	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		31.71%	(29.01%,34.41%)	-1.458*	(-1.940,-0.975)	31.71%	(29.01%,34.41%)		
Region	Northeast	38.76% ^{2,3}	(32.46%, 45.07%)	0.119	(-0.330,0.568)	36.55% ³	(30.20%,42.90%)	1.13	(0.72,1.76)
(0.1348)	South Midwest	$29.81\%^{1}$ $27.26\%^{1}$	$\frac{(25.08\%, 34.54\%)}{(22.79\%, 31.73\%)}$	-0.147 -0.302	(-0.558, 0.264) (-0.715, 0.112)	$\frac{30.94\%}{27.88\%^1}$	$\frac{(26.08\%, 35.79\%)}{(23.42\%, 32.34\%)}$	0.86	(0.57, 1.30) (0.49, 1.12)
	West	34.89%	(27.51%,42.27%)	0.000	(0.000, 0.000)	33.99%	(26.76%,41.21%)	1.00	n/a
Department	All Career	49.44% ^{2,3}	(42.99%,55.89%)	-0.019	(-0.448,0.410)	31.46%	(23.38%,39.54%)	0.98	(0.64,1.51)
(0.9953)	Combination	32.14% 29.98% ¹	(27.40%, 30.82%) (26.43%, 33.52%)	-0.010	(0.000, 0.000)	31.65%	(27.10%, 30.00%) (28.01%, 35.30%)	0.99	(0.73.1.34)
Jurisdiction Type (0.0623)	Urban Rural/Missing	47.32% ² 28.46% ¹	(41.27%,53.36%) (25.46%,31.47%)	0.364	(-0.019,0.747)	38.07% 30.26%	(30.43%,45.70%) (27.18%,33.34%)	1.44	(0.98,2.11)
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\frac{62.95\%^{2,3}}{41.33\%^{1,3}}$ $\frac{26.00\%^{1,2}}{26}$	(56.62%,69.27%) (36.64%,46.03%) (22.58%,29.43%)	1.387 [*] 0.541 [*] 0.000	(0.896,1.878) (0.237,0.845) (0.000,0.000)	59.00% ^{2,3} 38.75% ^{1,3} 27.19% ^{1,2}	(48.85%,69.15%) (33.68%,43.82%) (23.54%,30.83%)	4.00 [*] 1.72 [*] 1.00	(2.45,6.54) (1.27,2.33) n/a
FFFIPP/ Fatality (0.2418)	Fatality with Investigation Fatality - No Investigation No Fatality	48.42% ³ 41.73% ³ 31.48% ^{1,2}	(39.72%,57.13%) (31.91%,51.56%) (28.73%,34.23%)	0.242 0.301 0.000	(-0.151,0.635) (-0.165,0.766) (0.000,0.000)	36.73% 38.01% 31.60%	(28.33%,45.13%) (28.08%,47.95%) (28.86%,34.34%)	1.27 1.35 1.00	(0.86,1.89) (0.85,2.15) n/a
Who Completed Survey (Q62)	Fire Chief Safety Officer Training Officer	$ 32.63\%^{4} \\ 43.69\%^{4} \\ 43.44\%^{4} \\ 23.44\%^{4} $	(29.30%,35.96%) (27.52%,59.86%) (32.19%,54.70%)	0.607* 0.654 0.891*	(0.255,0.959) (-0.130,1.437) (0.315,1.467)	$ 33.73\%^{4} 34.73\% 40.00\%^{4} 2200\%^{13} $	(30.41%,37.05%) (18.76%,50.69%) (28.57%,51.43%)	1.84 [*] 1.92 2.44 [*]	$(1.29,2.61) \\ (0.88,4.21) \\ (1.37,4.34)$
(0.0022)	Other/Missing	23.31%	(18.19%,28.42%)	0.000	(0.000, 0.000)	22.20%	(17.14%,27.26%)	1.00	n/a

Model 80: Q53. What other NIOSH materials have you seen: Alerts

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

		Pre	evalence ^b		Beta ^c	Predict	ted Marginal ^d	Adjustee	d Odds Ratio ^e
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		16.60%	(14.36%,18.84%)	-1.759 [*]	(-2.353,-1.165)	16.60%	(14.36%,18.84%)		
Region	Northeast	19.82%	(14.62%,25.02%)	0.173	(-0.374,0.721)	19.48%	(14.19%,24.77%)	1.19	(0.69,2.06)
(0.4670)	South	14.09%	(10.29%,17.90%)	-0.201	(-0.726,0.324)	14.28%	(10.45%,18.11%)	0.82	(0.48,1.38)
	Midwest	16.84%	(13.03%,20.66%)	0.000	(-0.511,0.511)	16.91%	(13.07%,20.75%)	1.00	(0.60,1.67)
	West	17.10%	(11.12%,23.07%)	0.000	(0.000, 0.000)	16.91%	(10.91%,22.90%)	1.00	n/a
Department	All Career	18.49%	(13.48%,23.50%)	-0.064	(-0.608,0.481)	14.88%	(8.29%,21.46%)	0.94	(0.54,1.62)
Туре	All Volunteer	15.43%	(11.47%,19.39%)	0.000	(0.000, 0.000)	15.70%	(11.58%,19.81%)	1.00	n/a
(0.7912)	Combination	17.09%	(14.18%,20.01%)	0.115	(-0.278,0.509)	17.27%	(14.25%,20.30%)	1.12	(0.76,1.66)
Jurisdiction	Urban	18.86%	(14.07%,23.64%)	0.030	(-0.442,0.503)	16.95%	(11.12%,22.78%)	1.03	(0.64,1.65)
(0.8995)	Rural/Missing	16.13%	(13.62%,18.65%)	0.000	(0.000,0.000)	16.52%	(13.98%,19.07%)	1.00	n/a
Jurisdiction Size ^f	50,000+ 5,000-50,000	$23.92\%^{3}$ 17.71%	(17.90%,29.93%) (14.02%,21.40%)	0.566	(-0.044,1.176) (-0.247,0.508)	24.80% 17.61%	(14.80%,34.80%) (13.61%,21.61%)	1.76 1.14	(0.96,3.24) (0.78,1.66)
(0.1855)	0-5,000	15.79%	(12.89%,18.68%)	0.000	(0.000,0.000)	15.80%	(12.80%,18.81%)	1.00	n/a
FFFIPP/ Fatality (0.4817)	Fatality with Investigation	22.91%	(15.74%,30.07%)	0.256	(-0.184,0.696)	20.37%	(13.45%,27.29%)	1.29	(0.83,2.00)
	Fatality - No Investigation	19.56%	(11.48%,27.63%)	0.142	(-0.401,0.685)	18.60%	(10.75%,26.44%)	1.15	(0.67,1.98)
	No Fatality	16.53%	(14.25%,18.80%)	0.000	(0.000,0.000)	16.55%	(14.28%,18.82%)	1.00	n/a
Who Completed	Fire Chief Safety Officer	16.65% 20.87%	(13.90%,19.40%) (8.55%,33.20%)	0.032	(-0.384, 0.449) (-0.599, 1.031)	16.61% 19.30%	(13.86%,19.36%) (7.54%,31.05%)	1.03 1.24	(0.68, 1.57) (0.55, 2.80)
Survey (Q62)	Training Officer	16.57%	(8.66%,24.49%)	0.036	(-0.633.0.706)	16.66%	(8.64%,24.69%)	1.04	(0.53,2.03)
(0.9655)	Other/Missing	15.88%	(11.13%,20.62%)	0.000	(0.000,0.000)	16.17%	(11.31%,21.03%)	1.00	n/a

Model 81: Q53. What other NIOSH materials have you seen: Hazard IDs

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).
		Prevalence ^b		Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		12.50%	(10.55%,14.44%)	-1.974*	(-2.589,-1.358)	12.50%	(10.55%,14.44%)		
Region (0.1956)	Northeast South Midwest West	15.25% 11.24% 10.43% 15.85%	(10.58%,19.92%) (7.89%,14.60%) (7.45%,13.41%) (10.24%,21.47%)	-0.106 -0.402 -0.504 0.000	(-0.689,0.476) (-0.949,0.144) (-1.047,0.039) (0.000,0.000)	14.75% 11.42% 10.44% 16.12%	(9.97%,19.53%) (7.98%,14.86%) (7.44%,13.45%) (10.33%,21.91%)	0.90 0.67 0.60 1.00	(0.50,1.61) (0.39,1.15) (0.35,1.04) n/a
Department Type (0.8355)	All Career All Volunteer Combination	13.58% 12.97% 12.14%	(9.14%,18.03%) (9.51%,16.43%) (9.63%,14.66%)	-0.181 0.000 -0.036	(-0.775,0.413) (0.000,0.000) (-0.456,0.383)	10.97% 12.85% 12.45%	(5.52%,16.43%) (9.29%,16.41%) (9.83%,15.08%)	0.83 1.00 0.96	(0.46,1.51) n/a (0.63,1.47)
Jurisdiction Type (0.8887)	Urban Rural/Missing	14.78% 12.02%	(10.51%,19.05%) (9.85%,14.19%)	-0.035	(-0.531,0.461)	12.19% 12.57%	(7.60%,16.78%)	0.97	(0.59,1.59) n/a
Jurisdiction Size ^f (0.0401)	50,000+ 5,000-50,000 0 - 5,000	$\frac{17.08\%^3}{15.73\%^3}$ 10.83\%^{1,2}	(11.83%,22.33%) (12.22%,19.24%) (8.41%,13.25%)	$\frac{0.750^{*}}{0.440^{*}}$	(0.092,1.408) (0.036,0.845) (0.000,0.000)	$\frac{20.23\%}{15.72\%^3}$ 10.75\% ²	(10.86%,29.61%) (11.92%,19.53%) (8.30%,13.21%)	2.12^{*} 1.55^{*} 1.00	(1.10,4.09) (1.04,2.33) n/a
FFFIPP/ Fatality (0.3741)	Fatality with Investigation Fatality - No Investigation No Fatality	17.12% 16.97% 12.41%	(10.83%,23.41%) (9.50%,24.44%) (10.44%,14.39%)	0.254 0.313 0.000	(-0.237,0.746) (-0.260,0.886) (0.000,0.000)	15.44% 16.20% 12.43%	(9.28%,21.59%) (8.88%,23.53%) (10.46%,14.40%)	1.29 1.37 1.00	(0.79,2.11) (0.77,2.43) n/a
Who Completed Survey (Q62) (0.3632)	Fire Chief Safety Officer Training Officer Other/Missing	13.23% 8.81% 11.90% 10.80%	(10.78%,15.68%) (1.66%,15.96%) (4.92%,18.89%) (7.03%,14.57%)	0.275 -0.432 0.047 0.000	(-0.193,0.743) (-1.391,0.526) (-0.746,0.841) (0.000,0.000)	13.51% 7.19% 11.08% 10.63%	(11.00%,16.01%) (1.28%,13.10%) (4.25%,17.92%) (6.82%,14.44%)	1.32 0.65 1.05 1.00	(0.82,2.10) (0.25,1.69) (0.47,2.32) n/a

Model 82: Q53. What other NIOSH materials have you seen: Workplace Solutions

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

Note: A superscript numeral indicates that the estimate is significantly different from the estimate in the row number denoted by the superscript.

		Pre	evalence ^b	Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		25.18%	(22.51%,27.85%)	-0.779 [*]	(-1.345,-0.212)	25.18%	(22.51%,27.85%)		
Region	Northeast	18.24% ^{2,3}	(13.15%,23.32%)	-0.193	(-0.749, 0.363)	$19.46\%^{2,3}$	(14.06%,24.86%)	0.82	(0.47, 1.44)
(0.1005)	Midwest West		(23.21%, 33.20%) $(23.37%, 32.85%)$ $(15.18%, 29.59%)$	0.273	$\begin{array}{r} (-0.222, 0.772) \\ \hline (-0.221, 0.770) \\ \hline (0.000, 0.000) \end{array}$	27.55% ¹ 22.58%	(22.87%, 32.23%) $(15.32%, 29.83%)$	1.32 1.32 1.00	(0.80,2.16) (0.80,2.16) n/a
Department Type (0.8463)	All Career All Volunteer Combination	$ \begin{array}{r} 14.12\%^{2,3} \\ 24.98\%^{1} \\ 26.22\%^{1} \end{array} $	(8.92%,19.32%) (20.13%,29.83%) (22.80%,29.64%)	0.165 0.000 -0.020	(-0.446,0.776) (0.000,0.000) (-0.362,0.322)	28.41% 25.32% 24.96%	(17.01%,39.81%) (20.31%,30.32%) (21.60%,28.31%)	1.18 1.00 0.98	(0.64,2.17) n/a (0.70,1.38)
Jurisdiction Type (0.2815)	Urban Rural/Missing	14.07% ² 27.49% ¹	(9.67%,18.48%) (24.40%,30.58%)	-0.272	(-0.768,0.223)	21.07% 25.78%	(13.61%,28.53%) (22.86%,28.70%)	0.76	(0.46,1.25) n/a
Jurisdiction Size ^f (0.0000)	50,000+ 5,000-50,000 0 - 5,000	$\begin{array}{r} 5.47\%^{2,3} \\ \hline 15.86\%^{1,3} \\ \hline 30.26\%^{1,2} \end{array}$	(2.31%,8.63%) (12.35%,19.37%) (26.60%,33.92%)	-1.998 [*] -0.733 [*] 0.000	(-2.812,-1.184) (-1.094,-0.372) (0.000,0.000)	$\frac{5.46\%^{2,3}}{16.89\%^{1,3}}$ $29.54\%^{1,2}$	(1.51%,9.42%) (12.87%,20.90%) (25.77%,33.30%)	$\frac{0.14^{*}}{0.48^{*}}$ 1.00	(0.06,0.31) (0.33,0.69) n/a
FFFIPP/ Fatality (0.0249)	Fatality with Investigation Fatality - No Investigation No Fatality	10.24% ³ 14.04% ³ 25.41% ^{1.2}	(4.85%,15.63%) (6.64%,21.44%) (22.70%,28.12%)	-0.671* -0.623 0.000	(-1.312,-0.030) (-1.275,0.028) (0.000,0.000)	$\frac{15.05\%^3}{15.65\%^3}$ $\frac{25.33\%^{1.2}}{25.33\%^{1.2}}$	(7.21%,22.89%) (7.50%,23.81%) (22.62%,28.03%)	0.51 [*] 0.54 1.00	(0.27,0.97) (0.28,1.03) n/a
Who Completed Survey (Q62) (0.3965)	Fire Chief Safety Officer Training Officer Other/Missing	24.81% 26.89% 19.49% 27.98%	(21.60%,28.02%) (10.73%,43.04%) (10.37%,28.61%) (21.89%,34.06%)	-0.230 0.260 -0.404 0.000	(-0.599,0.138) (-0.699,1.219) (-1.069,0.260) (0.000,0.000)	24.24% 33.85% 21.30% 28.54%	(21.07%,27.42%) (14.42%,53.28%) (11.74%,30.85%) (22.36%,34.71%)	0.79 1.30 0.67 1.00	(0.55,1.15) (0.50,3.38) (0.34,1.30) n/a

Model 83: (Q53. What other NIOSH materials have y	you seen: None. I have not seen any	y NIOSH materials.
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^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

Note: A superscript numeral indicates that the estimate is significantly different from the estimate in the row number denoted by the superscript.

		Pre	evalence ^b	Beta ^c		Predicted Marginal ^d		Adjusted Odds Ratio ^e	
Characteristic ^a		Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval	Estimate	Conf Interval
Intercept		69.73%	(66.56%,72.90%)	0.313	(-0.243,0.869)	69.73%	(66.56%,72.90%)		
Region (0.0822)	Northeast South	70.84% 74.41% ⁴	(64.29%,77.39%) (68.80%,80.01%) (61.01%,72.20%)	0.442 0.617 [*]	(-0.086, 0.969) (0.122, 1.111) (0.226, 0.761)	70.92% 74.33% ⁴	(64.30%,77.55%) (68.73%,79.92%) (61.05%,72.00%)	1.56 1.85 [*]	(0.92,2.63) $(1.13,3.04)$ $(0.81,2.14)$
	West	$63.30\%^2$	(61.01%, 72.29%) (54.56%, 72.05%)	0.278	(0.000,0.000)	67.52% $61.33\%^2$	$\frac{(61.95\%, 73.09\%)}{(52.14\%, 70.52\%)}$	1.32	(0.81,2.14) n/a
Department Type (0.0106)	All Career All Volunteer Combination	$\frac{83.45\%^{2,3}}{74.58\%^{1,3}}$ $65.68\%^{1,2}$	(78.14%,88.76%) (69.20%,79.96%) (61.42%,69.94%)	0.435 0.000 -0.438*	(-0.133,1.003) (0.000,0.000) (-0.819,-0.057)	$\frac{81.97\%^3}{74.75\%^3}$ 65.82 $\%^{1,2}$	(73.87%,90.07%) (69.14%,80.36%) (61.41%,70.23%)	1.55 1.00 0.65*	(0.88,2.73) n/a (0.44,0.94)
Jurisdiction Type (0.3669)	Urban Rural/Missing	76.40% ² 68.10% ¹	(70.80%,82.00%) (64.40%,71.80%)	0.202	(-0.237,0.642)	73.05% 69.00%	(65.51%,80.59%) (65.39%,72.61%)	1.22 1.00	(0.79,1.90) n/a
Jurisdiction Size ^f (0.9707)	50,000+ 5,000-50,000 0 - 5,000	79.82% ³ 72.59% 67.62% ¹	(73.71%,85.93%) (67.91%,77.26%) (63.24%,72.00%)	0.033 0.044 0.000	(-0.611,0.677) (-0.313,0.401) (0.000,0.000)	70.10% 70.33% 69.42%	(58.37%,81.84%) (65.01%,75.64%) (65.03%,73.81%)	1.03 1.05 1.00	(0.54,1.97) (0.73,1.49) n/a
FFFIPP/ Fatality (0.0038)	Fatality with Investigation Fatality - No Investigation No Fatality	89.74% ^{2,3} 71.68% ¹ 69.54% ¹	(84.11%,95.37%) (61.95%,81.41%) (66.30%,72.77%)	1.102 [*] 0.059 0.000	(0.455,1.748) (-0.453,0.572) (0.000,0.000)	87.05% ^{2.3} 70.80% ¹ 69.59% ¹	(79.98%,94.13%) (60.95%,80.65%) (66.37%,72.82%)	<u>3.01</u> * <u>1.06</u> 1.00	(1.58,5.75) (0.64,1.77) n/a
Who Completed Survey (Q62) (0.1146)	Fire Chief Safety Officer Training Officer Other/Missing		(66.17%,73.82%) (54.62%,89.50%) (68.05%,88.89%) (58.08%,72.64%)	0.397 0.282 0.743 [*] 0.000	(-0.000,0.794) (-0.730,1.294) (0.050,1.436) (0.000,0,000)	$ \begin{array}{r} 70.98\% \\ 68.62\% \\ 77.42\%^4 \\ 62.45\%^3 \end{array} $	(67.22%,74.75%) (48.21%,89.03%) (66.86%,87.98%) (54.73%,70.18%)	$ \begin{array}{r} 1.49 \\ 1.33 \\ 2.10^{*} \\ 1.00 \end{array} $	(1.00,2.21) (0.48,3.65) (1.05,4.20) n/a

Model 84: Q53a. How satisfied or dissatisfied are you with these NIOSH materials? - Satisfied or Very Satisfied

^aNumbers in parentheses in this column are the p-values associated with tests of whether all betas for the effect are simultaneously equal to zero.

^bWeighted prevalence estimate.

^cBeta associated with the logistic model.

^dPredicted Marginal. This is the average predicted response of all the observations assuming all observations were in the effect specified by the row, controlling on all other variables in the model.

^eAdjusted Odds Ratio. This provides a measure of the probability that the dependent measure occurs for the effect specified in the row relative to the probability that the dependent measure occurs for the reference level of the effect, while controlling on all other variables.

^fEstimated Population Covered

*Indicates estimate is significantly different from zero (for Betas and Adjusted Odds Ratio only).

Note: A superscript numeral indicates that the estimate is significantly different from the estimate in the row number denoted by the superscript.

Nonresponse Follow-up Survey Forms

Exhibit D-1. Nonresponse Survey Instrument

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation RTI PROJECT 0208235.030.009

Nonresponse Follow-up Survey

						Case ID # TI Name Date of Interview	2006
DID F	RESPO		GIVE CON	SENT TO PAR'	FICIPATE?		
			1L5		110		
DO NO	OT REAL	D TEXT	IN ALL CAPS SEC	TION 1. TRAINING	G AND SAFET	Y	
1.	Does	your de	epartment ha	ve a Safety Off	icer?	·	
		No Yes	→ SKIP TO	O QUESTION 9			
	1a.	What the S	kind of a po afety Office	osition does you r position a	r Safety Offi	cer have within your	department? Is
			Full-time J Part-time J Volunteer Other (Ple	paid position paid position position ase specify:)	
			SECTION 2.	HEALTH AND S	AFETY INFORI	MATION	
9.	How Progr	familia am (FF	r are you wit FIPP)? Wou	h NIOSH's Fire ld you say	e Fighter Fata	ality Investigation and	Prevention
		Not a Not V Some Very	t All Familia Very Familia What Famili Familiar	ar r ar			
11.	In wh MAR	at ways K ALL 7	has your de	epartment used] Y	NIOSH record	mmendations? Have	you

-] Made changes to training program?
- Developed new SOPs/SOGs?
- Made changes to SOPs/SOGs?
- Justified current budget/staffing?
- Made new budget/staffing requests?
- Justified grant applications?

DOES NOT APPLY. WE HAVE NOT USED NIOSH RECOMMENDATIONS. → SKIP TO QUESTION 13 11a. Please describe the changes you made:

11b.	Can you identify topics of NIOSH recommendations that you have used <u>for</u> <u>training purposes</u> ? Have you used NIOSH recommendations concerning for training purposes? MARK ALL THAT APPLY
	 Traffic hazards Personal protective equipment and clothing SCBAs PASS systems Incident Command systems Radio communications Physical fitness and cardiovascular disease (CVD) Building code compliance (e.g., warning against the use of wooden trusses) Another topic (Please specify:)
	DOES NOT APPLY. WE HAVE NOT USED NIOSH RECOMMENDATIONS FOR TRAINING PURPOSES.

- 13. How often do your firefighters receive screenings for cardiovascular disease (CVD) and its risk factors? Would you say ...
 - One time, when they first join the department
 - Less frequently than once a year
 - One time a year
 - More than time a year
 - DOES NOT APPLY. FIREFIGHTERS ARE NOT REQUIRED TO RECEIVE CVD SCREENINGS.

SECTION 4. DRIVING SAFETY

18. About how often do you think your firefighters use their seatbelts when riding in the emergency vehicles? Would you say ...

Never
Some of the time
About half the time
Most of the time
Always

 \square

SECTION 5. STRUCTURE FIRES

The following questions ask about your department's experience with as well as policies and procedures for dealing with structure fires.

20. Of the emergency calls your department responded to in the past 12 months, about how many of these were structure fires?

Total number of structure fires

21. How often is Incident Command established when responding to structure fires? Would you say ...

Never
Rarely
About half the time
Most of the time

- Always
- 24. About how often does an Incident Commander assign an Incident Safety Officer when responding to structure fires? Would you say...

Never
Some of the time
About half the time
Most of the time
Always

32. Does your department have Self Contained Breathing Apparatuses (SCBA) for your firefighters to use when combating structure fires?

	Ī	

NO \rightarrow SKIP TO QUESTION 45 YES

33. Do your firefighters ever have to share facepieces for SCBAs?

NO
YES

SECTION 6. EDUCATIONAL MATERIAL

The following questions ask about your policies and procedures for providing educational material to firefighters and others within your department.

45. Have you read part or all of a NIOSH Fire Fighter Fatality Investigation report in the last 12 months?



NO \rightarrow SKIP TO QUESTION 62 YES 47. Overall, how would you rate the amount of detail in the NIOSH reports? Would you say...

Too little detail

About the right amount of detail

] Too much detail

50. Does the fire department disseminate the information it receives from NIOSH to the firefighters?



50a. How is this information disseminated to firefighters? Is it disseminated through ... MARK ALL THAT APPLY.

Regular staff meetings?
Training sessions?
Provide copies of NIOSH reports to firefighters?
Provide copies of NIOSH report summaries to firefighters?
Provide summaries prepared by department to firefighters?
Postings on bulletin boards?
Post report on the department website?
Send message to firefighters by email?
Another means? (Please specify:
)

51. NIOSH reports always include recommendations that are designed to help improve the health and safety of firefighters. How much do you agree or disagree with the following statements about the NIOSH recommendations? Please tell me if you strongly agree, disagree, neither agree nor disagree, agree, or strongly agree.

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
a. Recommendations are practical					
b. Recommendations are easy to understand					
c. Recommendations are specific and concrete					

62. What is your position in the fire department? [WHO COMPLETED THIS SURVEY?]

)

Those are all the questions we have for you. Thank you for taking the time to answer this survey!

Exhibit D-2. Informed Consent Script

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation (RTI Project 0208235.030.009)

Introduction and Informed Consent Script

Step 1: **Confirm Fire Department Identity** 1. CORRECT FIRE DEPARTMENT? YES \rightarrow SKIP TO 3 NO Hello, is this the _____ [NAME OF FIRE DEPARTMENT] ? 2. YES \rightarrow SKIP TO 3 NO OR, FOR NON-BUSINESS NUMBERS: Hello, I'm calling to speak to [Chief _____ / the Chief] of the _____ Fire Department. IF THE NAME OF THE DEPARTMENT, FIRE CHIEF OR PHONE NUMBER HAS CHANGED, PROBE:

Does this fire department still exist? OR

Can you tell me the name of the current Fire Chief for this Fire Department? OR

I'm sorry. I must have the wrong number for that department. Do you happen to have the correct number?

□ YES

→ OBTAIN CORRECT PHONE NUMBER AND RECORD ON CONTACT SHEET

❑ YES, BUT IT HAS MERGED WITH ANOTHER DEPARTMENT → CODE INELIGIBLE ON CONTACT SHEET

Okay, in that case I won't need any additional information from you. Thank you so much for your time!

NO (PROBE, IF NEEDED, TO DETERMINE IF FIRE DEPARTMENT IS STILL A SELF-STANDING DEPARTMENT) → IF NOT, CODE INELIGIBLE ON CONTACT SHEET

Okay, in that case I won't need any additional information from you. Thank you so much for your time!

OTHER (EXPLAIN: _____)

Step 2: Identify Respondent

3. (Hello, I'm calling on behalf of the National Institute of Occupational Safety and Health.)

May I speak with Chief ___ [LAST NAME]? OR May I speak with the Fire Chief?

WRONG NAME:

I'm sorry. The name we had on our records must be out of date. I'd like to speak with the current Fire Chief. Could you tell me his or her name? → **RECORD** NAME OF FIRE CHIEF ON CONTACT SHEET

May I speak with Chief ___ [CORRECT LAST NAME] ?

CHIEF IS UNAVAILABLE:

Is there another officer on duty I could speak with about a research study?

YES CHIEF IS UNAVAILABLE, BUT SOMEONE ELSE IS:

(TRY TO TALK TO ANOTHER OFFICER SUCH AS THE ASSISTANT CHIEF, A BATTALION CHIEF, ADMINISTRATIVE CHIEF, TRAINING OFFICER, OR SAFETY OFFICER.)

→ NOTE NAME OF PROXY RESPONDENT ON CONTACT SHEET

Thank you. May I speak with ____ [PROXY RESPONDENT]?

NO CHIEF IS UNAVAILABLE. CALL BACK:

Thank you. I'll try to call again later. Could you tell me when would be a good time to call him/her back?

→ NOTE POSSIBLE CALL BACK TIMES ON CONTACT SHEET

STEP 3: Initial Contact with Fire Chief (or Proxy)

Hello, this is ____ [YOUR NAME], calling from RTI International in North Carolina. I'm calling in connection with a study that the National Institute of Occupational Safety and Health (NIOSH) is conducting. NIOSH is an agency in the U.S. Centers for Disease Control and Prevention (CDC). We sent a questionnaire to your department a few weeks ago, and I'm just following up to ask a few questions.

"If you send me a new copy of the questionnaire, I'll fill it out for you."

Thank you. I'll be glad to send it. Just to confirm the mailing address, is it: [RESPONDENT'S NAME] ?

_____ [STREET ADDRESS – NOT P.O. BOX] ? _____ [CITY] ____ [STATE] _____ [ZIP] ?

→ CORRECT ADDRESS AS NEEDED ON CONTACT SHEET

<u>OPTIONAL</u> [WE HAVE LIMITED COPIES AVAILABLE; NOT ENOUGH FOR ALL SAMPLE MEMBERS.]:

I'll also enclose (another) copy of the FFFIPP CD-ROM if you would like one. The CD-ROM includes all of the FFFIPP reports that have been published. Should I enclose one along with the questionnaire?

→ INDICATE REQUESTS ON THE RESEND QUESTIONNAIRE FORM

STEP 4: Informed Consent

In case you didn't see the materials we sent to you earlier, I need to tell you a few things more about why I am calling. This is part of NIOSH's evaluation of their program to develop knowledge about firefighter safety. NIOSH investigates firefighter fatalities and disseminates information about the fatalities to the fire service. The program is called FFFIPP (the Fire Fighter Fatality Investigation and Prevention Program). NIOSH hired my company, RTI International, to conduct this evaluation. The purpose is to help them identify ways of improving their dissemination efforts. We have already conducted focus groups in North Carolina and at the recent FDIC in Indianapolis and we are just finishing a mail survey of fire departments across the country.

I am calling you today as part of the follow-up to that Fire Department Survey. Your fire department was one of the 3,000 fire departments that were selected for that original Fire Department Survey. Your department should have received materials about the survey in the mail a few weeks ago. For the follow-up telephone calls we are doing now, we randomly selected about 200 of the departments that have not yet returned the Fire Department Survey. Your department is one of those.

The interview takes about 4 to 5 minutes. I'd like you to know that participating in this short interview is voluntary, and the answers you give me will be kept confidential. Also, the information we give NIOSH will not identify the source of information or the identity of the fire departments that participate.

Finally, if you have any questions about this telephone survey or about the study as a whole, you can call the study leader, Dr. Kristina Peterson, at RTI. Her toll-free number is 1-800-334-8571, x7722. If you have a question about your rights as a study participant, you can also call RTI's Office of Research Protection toll-free at 1-866-214-2043. You may also contact Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533-8222. Do you have any questions about this telephone follow-up survey?

If it's all right, we can just get started now.

"I don't have time now"

I can try to call again later. (We estimate the interview will take 4 to 5 minutes.) Could you tell me when would be a good time to call?

"If you send me a new copy of the questionnaire, I'll fill it out for you." SAME PROCEDURE AS ABOVE, STEP 3

→ ANSWER QUESTIONS, AS NEEDED. INDICATE THAT RESPONDENT GAVE CONSENT AT THE TOP OF THE QUESTIONAIRE

Step 5: Conduct Interview

[IF THE RESPONDENT DOES NOT OBJECT] The first question is..... [GO TO QUESTIONNAIRE]

Exhibit D-3. Frequently Asked Questions

Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) Evaluation (RTI Project 0208235.030.009)

Frequently Asked Questions

What is the FFFIPP?

The Fire Fighter Fatality Investigation and Prevention Program (FFFIPP) is conducted by the National Institute for Occupational Safety and Health (NIOSH). This program examines fire fighter deaths and serious injuries. NIOSH then provides recommendations that may prevent similar deaths and injuries from happening again.

The goals of the program are to: 1. Learn about the events that lead to fire fighter deaths; 2. Think of ideas to keep deaths and injuries from occurring again, and 3. Share these strategies with the fire service.

What is the FFFIPP Evaluation?

The FFFIPP Evaluation will give NIOSH information to improve the value of the program. We have already collected information from a mailed survey and from focus groups of active firefighters.

The Fire Department Survey was sent to fire department chiefs. It asks about the training and safety procedures at the fire department. It also asks how the FFFIPP reports are used by the department.

How will this evaluation help my department?

Taking part in this study gives NIOSH the chance to learn what information is useful to your fire department. NIOSH will use that knowledge in the Fire Fighter Fatality Investigation and Prevention Program to better meet your needs.

Who is doing this evaluation?

This study is being done by the National Institute for Occupational Safety and Health. NIOSH is part of the Centers for Disease Control and Prevention (CDC) in the U.S. Department of Health and Human Services. NIOSH provides research, products and services to prevent work-related illness, injuries, and death. NIOSH and CDC have asked RTI International (RTI) to conduct the study.

What is RTI?

RTI is a non-profit research organization located in Research Triangle Park, NC. RTI is committed to improving the human condition through research. RTI is closely associated with Duke University, the University of North Carolina at Chapel Hill, and North Carolina State University. RTI does research for government and industrial clients.

How did you select my fire department?

Most fire departments were selected from a list of all fire departments in the country. Some departments were chosen at random. Other fire departments were chosen on purpose based on their size and whether they have had a FFFIPP investigation. About 3,000 fire departments will be asked to answer the Fire Department Survey.

I am calling because your department was on the original list of departments to participate in the Fire Department Survey. Yours is among about 1,400 fire departments that have not yet responded to the survey. In order to make certain that our results are as accurate as possible, we selected a random sample of about 200 of these fire departments to call and ask a few of the questions from the main survey.

What Does this Interview Involve?

I will ask you (or someone you designate) a series of about 16 questions over the phone. It takes about 4 to 5 minutes to do. There is nothing else involved.

Are there any risks?

There are no risks in taking part in the study.

What will my department get for participating in the survey?

Participating also gives you the chance to give information to NIOSH about how it communicates information from the FFFIPP investigations back to the fire service. We can also ask NIOSH to place you or your department on its mailing list for future FFFIPP reports if you are not already receiving them.

How long will it take?

These questions will take no more than about 4 to 5 minutes to complete.

Am I required to participate?

No, your participation is voluntary. You are an important part in this research study, so we hope you participate. By answering these few questions, you will help us to determine the reliability of the other information we collected from the survey.

Participating also gives you the chance to give information to NIOSH about how it communicates information from the FFFIPP investigations back to the fire service.

What about confidentiality?

No identifying facts about you, your fire department, or your co-workers will be seen by anyone outside of the research team. We do not use names in our results. The answers we collect from you will be combined with answers from other fire departments.

Where do I get more information?

Information about FFFIPP is available online at: http://www.cdc.gov/niosh/firehome.html.

If you have other questions about this evaluation, you can call Dr. Kristina Peterson at RTI. Her toll-free number is 1-800-334-8571, x7722.

If you have a question about your rights as a study participant, you can also call RTI's Office of Research Protection toll-free at 1-866-214-2043. You may also contact Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533-8222.

If you need help as a result of thinking about these issues, you may contact the National Suicide Prevention Lifeline at 1-800-273-

E Focus Group Materials

Exhibit E-1. Announcement

ANNOUNCEMENTS: Focus Group Recruiting Announcement

FDIC Fire Engineering Conference (Indianapolis) Announcement:

Firefighter Safety Research Opportunity

Are you attending the FDIC Fire Engineering conference in Indianapolis this spring?

If so, you may be eligible to participate in a focus group on firefighter safety.

The focus groups are part of a nationwide evaluation of the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). This is a program of the National Institute of Occupational Safety and Health (NIOSH). NIOSH is part of the Centers for Disease Control and Prevention (CDC). The focus groups will be organized by professional staff from RTI International. RTI is conducting the FFFIPP evaluation for NIOSH and CDC.

The purpose of the focus groups is to tell the researchers about fire safety issues from the firefighters' perspective.

To be eligible for the focus group, you must have worked with your current fire department for at least one year and be an active firefighter who is involved with fire suppression. Most officers are not eligible for the focus groups. These include Chiefs, Station Captains or Commanders, Safety Officers, Training Officers, and Administrative Officers.

The focus group will take 1 ½ hours of your time. They will take place at the conference. A meal will be provided. Each focus group will have up to 9 participants.

For further information about these focus groups, please contact Murrey Olmsted at RTI. He can be reached toll free at 1-800-334-8571, ext. 5506 or by email at <u>MOImsted@rti.org</u>.

Exhibit E-2. Screening Script

Evaluation of the Fire Fighter Fatality Investigation & Prevention Program (FFFIPP)

Participant Eligibility Screening Form

	Staff initials:
STEP 1: RECORD CO	ONTACT INFORMATION
FOCUS GROUP VEN	UE: Firehouse Expo FDIC – West Other (Specify)
Name:	Eligible? 🗌 Yes 🗌 No
Fire Department:	Agreed? Yes No
City and State:	Time Zone: EST CST MST PST
Telephone (DAY):	Telephone (OTHER):
Best day(s) to call:	Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Best time(s) to call:	AM PM

Record of Calls:

Day	Date	Time	Notes

STEP 2: CONDUCT SCREENING INTERVIEW

READ: Hello, this is _____ [NAME] from RTI International. I am calling about the focus group discussion on firefighter safety that we are organizing [this Spring / during the upcoming _____ Conference]. I understand that you may be interested in participating and I wanted to tell you some more about it. We are conducting a study on behalf of the National Institute for Occupational Safety and Health. It is an evaluation of their Fire Fighter Fatality Investigation and Prevention Program.

A focus group is a discussion among a small group of people that is facilitated by a moderator. The group we are planning will be moderated by a professional moderator from RTI. There will be about eight to nine other people in the group with you at the same time. The focus group will discuss firefighter safety information, safety guidelines, and common problems encountered in using safety practices. We will tape record and take notes during the discussion to be certain we get all the information that the group provides.

You may be able to provide valuable information on how to improve the health and safety of firefighters. Before we go any further, I first need to find out if you qualify to participate in the focus group. I have just a few questions for you about your own and your department's background. They will take less than five minutes to cover, and they will help me understand whether you have the characteristics we need for this study.

1. Have you been with your current fire department for at least 1 year?

□ NO → NOT eligible. Thank them and terminate the call
 □ YES

2. Do your duties at the fire department involve fire suppression?

□ NO → NOT eligible. Thank them and terminate the call
 □ YES

- 3. What is your job title in your department?
 - □ Firefighter

	Chief Station captain or com Safety officer Training officer	→ mar →	NOT eligible. Thank them and terminate the call oder \rightarrow NOT eligible. Thank them and terminate the call. NOT eligible. Thank them and terminate the call NOT eligible. Thank them and terminate the call
	Administrative officer	→ →	NOT eligible. Thank them and terminate the call
ш	Other	7	nor engible unless their primary role is as a menginter.
	If other, specify:		
aree	r or volunteer firefighter?	2	

- 4. Are you a career or volunteer firefighter?
 - CAREER FIREFIGHTER
 - U VOLUNTEER FIREFIGHTER
 - OTHER (Please specify: ______
- 5. About how many firefighters are currently employed by your fire department?

- □ FEWER THAN 30
- □ BETWEEN 30 AND 50
- □ MORE THAN 50
- 6. What kind of jurisdiction does your fire department serve? Is it rural or urban?
 - □ RURAL
 - □ URBAN
- **READ**: It looks like you are eligible to take part in our study. The focus group will be conducted at (PLACE, DATE, & TIME). If you decide to participate, anything say during the session will be kept confidential and private. As a way of thanking you for the time you spend with us, we will be providing a meal and other refreshments during the focus group. Overall, it will take about 1 ½ hours of your time to participate in the study.

Do you think you would like to participate in the focus group?

- □ NO [PROBE]
- □ YES
- **READ**: I'm glad that you are interested. We are currently in the process of compiling a list of eligible firefighters. The project team will be making the selections for the groups over the next few weeks. I will get back to you then about whether you have been selected for a focus group. To make it easier to get back to you later about whether you have been selected and to let you know about the schedule of the groups, I would like to ask you for some additional contact information.

NOTE: UPDATE CONTACT INFORMATION ON PAGE 1.

STEP 3: INVITE ELIGIBLE PARTICIPANTS

- **READ**: Hello, this is ______[NAME] from RTI International. If you remember, I recently talked with you about participating in a focus group related to an evaluation of the Fire Fighter Fatality Investigation and Prevention Program. You had agreed to participate if selected for this study, and I am now calling back to let you know the decision of the project team.
- **READ**: I'm happy to let you know that you have been selected to participate in a focus group. The focus group will be conducted at ______ (PLACE, DATE, & TIME). Overall the focus group will take 1 ½ hours. We will provide a meal/other refreshments during the focus group discussion.

NOTE: PROVIDE PARTICIPANT WITH DETAILS OF WHEN AND WHERE THE FOCUS GROUPS WILL OCCUR. ANSWER ANY QUESTIONS.

STEP 4: MAKE REMINDER CALL TO FOCUS GROUP PARTICIPANTS

READ: Hello, this is _____ [NAME] from RTI International. I am calling to remind you that we will be having a focus group at _____ (PLACE, DATE, & TIME). Are you still planning on attending the focus group? (IF NO, ASK WHY. TRY TO FIND A WORK AROUND SO

HE/SHE CAN ATTEND. IF YES, THEN PROCEED.) I look forward to seeing you at the focus group. We will finalize the order for ____ [lunch/ the meal] in the next few days. Do you have any dietary restrictions we should know about?

Evaluation of the Fire Fighter Fatality Investigation & Prevention Program (FFFIPP)

Informed Consent for Focus Group Participants

What is the purpose of this focus group? This focus group is part of a research study. The study is being conducted by the Centers for Disease Control and Prevention (CDC), the National Institute for Occupational Safety and Health (NIOSH). This is one of six focus groups that are being held around the country. In addition to these focus groups, the overall study also includes a survey of fire departments across the country. The purpose of the focus group is to learn more about how safety information is used by fire departments. We are interested in the impact of safety guidelines on fire departments and firefighters, and in common problems encountered in following these safety guidelines. In addition, we are interested in how we can improve the safety reports and guidelines developed by NIOSH's Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). The answers from this study can help the FFFIPP better serve the needs of fire departments and can help prevent future firefighter fatalities or injuries.

Why was I chosen? You are being asked to be part of a focus group discussion because you responded to announcements or were identified by a fire service organization as someone who might be interested in being in this study.

What will happen during the focus group? The focus group will last about an hour and a half. There will be about eight to nine other people in the group with you at the same time. The topics for discussion will include how safety information is handled in your fire department, the impact of safety guidelines on departments and firefighters. and common problems encountered in using safety practices. We also plan to talk about the safety information provided by NIOSH and other organizations. Specifically, we are interested in your ideas about how we can improve the way this information is distributed to fire departments and firefighters. The focus group will be led by a staff person from RTI International (RTI). RTI is a non-profit organization headquartered research in Research Triangle Park, NC. RTI is conducting the focus groups for NIOSH as part of the FFFIPP Evaluation. The RTI staff will take notes during the focus group. The discussion will also

be tape recorded. The tapes will help us get what all of you have to say.

We will be providing you with a meal and/or other refreshments during the focus group time. This is a token of our appreciation for your time and your inconvenience for being a part of this study. The only cost to you for being in our study is the time you spend and what it costs you to get here today.

Can I tell others what is discussed in the group? In the course of the focus group you may learn certain facts about others in the group (or other people who are not in attendance). For instance, you may learn their names, what department they are from, and the common safety problems they encounter. Some of what you hear might be private. Please treat all information as confidential. We ask that you not share any of this information with others. This includes not talking about any details of what you heard here today outside of this focus group. We are asking all the other participants agree to do the same. However, we cannot guarantee that other participants will not repeat things you say in this group outside the group.

Are there risks? We do not expect any risks to you from being in this study. It is an open discussion, so it is possible that some of the things we discuss could make you feel uneasy. You might also talk about private things and later wish you had not.

Will this be kept private? The project will not use your name in any written reports. The reports will put together what we learn from everyone in this study. Everything we learn will be kept private by RTI staff to the fullest extent of the law. We will keep what you tell us in a locked file cabinet or on a secure computer file. At the end of the study, we will destroy all records that could in any way be linked to you.

Do I have to participate? You are free to join the study or not. You can stop being in the discussion at any time. You can also refuse to answer any question. Your choice to take part will not have any impact on your fire department's benefits from the FFFIPP.

Who do I call if I have questions? If you have any questions about the study, you can call the Project Leader, Dr. Kristina Peterson. Her toll free number is 1-800-334-8571, x7722. If you have any questions about your rights as a study participant, you can also call RTI's Office of Research Protection and Ethics toll-free at 1-866-214-2043. You may also call Dr. Michael J. Colligan with the NIOSH Human Subjects Review Board (HSRB) at (513) 533 – 8222.

If you need help as a result of talking about the issues raised during the focus group discussion, you may contact the National Suicide Prevention Lifeline at 1-800-273-TALK (8255).

By signing below, you are saying it is your choice to be in this study. You are also saying we have given you a copy of this consent form. If there is any part of this form that is not clear to you, be sure to ask about it. You are also saying you have read this form and you agree to the terms above. Sign here only when you have gotten answers to all your questions and you are ready to be a part of this study.

Name

Date

Evaluation of the Fire Fighter Fatality Investigation & Prevention Program (FFFIPP)

Focus Group Moderator's Guide

(Estimated Total Time: 90 minutes)

READ: Thank you for participating in today's focus group about fire department safety and the Fire Fighter Fatality Investigation and Prevention Program (FFFIPP). Today's focus group is one of 6 that we are conducting around the country with firefighters to try to more fully understand factors that impact the safety and wellbeing of firefighters. The focus groups are part of a larger study that is evaluating the impact of FFFIPP. The complete study includes a survey of fire departments, discussions with stakeholders, and these focus groups. Specifically, we are interested in issues such as the safety climate of your department, safety problems that you encounter, and the safety training and information you receive.

Over the next 90 minutes, we will be asking you all as a group to talk about a series of questions we have about these issues. The discussion will be led by _____ [NAMES]. We will ask questions and take notes throughout the discussion to make sure that we fully understand your answers to our questions. With your permission, we will record the session so that we can check our notes for accuracy. The recording will not be used for any other purpose, and will be destroyed as soon as the analysis of your information is completed. All individual responses will be kept private. No identifying information will be used in our notes so comments will not be able to be tracked back to you.

We encourage you to raise issues or ask questions throughout the discussion if you feel that there are additional issues related to the topics being discussed today. There is no right or wrong answer to any of the questions discussed, but we do expect that you will respect the opinions of others. Your participation is completely voluntary so if at any time you feel uncomfortable, you are free to leave without any explanation.

NOTE: OBTAIN INFORMED CONSENT. HAVE PARTICIPANTS READ AND SIGN THE FORM BEFORE PROCEEDING TO THE GROUP DISCUSSION.

Public reporting burden of this collection of information is estimated to average 90 minutes per session, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information, unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-XXXX).

1. Tell us your first name, what fire department you are from, and what kind of job you hold in your department.

(This is a question to introduce the participants. It will get them talking and will help to get people oriented to who is in the room with them.)

2. We are interested in what your experience with firefighter safety problems has been. We would like to ask about your best and worst experiences with firefighter safety.

- What is the worst safety incident that you have experienced in your career?
- What is the best example of a safety success that you have experienced in your career?

3. [FOR NON-JURISDICTIONAL FOCUS GROUPS ONLY] What do you think is the general attitude toward safety in your fire department?

- Your fellow firefighters?
- Your officers and senior officers?
- Are there safety recommendations or procedures that people tend to ignore? If so, what are they?

4. How do you usually get your safety information?

- What are your favorite sources? Why?
- What are your least favorite sources? Why?
- What kind of safety information do you usually receive from your department?
- What kind of safety information do you usually have to find on your own?

5. How does your department deliver safety information?

- Is the current approach effective? Why, or why not?
- Is this information seen as important by firefighters and officers?
- How well is it received by firefighters and officers?

6. Does the safety information you and your department receive have an impact on what people do either in training or fighting fires?

- Do you change the way you do things after you have read or heard a presentation on new safety guidelines?
- Have you noticed any changes in the way your department does things as a result of new safety guidelines?
- Have there been events within your department that have had an impact on how your department follows safety guidelines?

7. How familiar are you with the National Institute for Occupational Safety and Health (NIOSH) and its Fire Fighter Fatality Investigation & Prevention Program (FFFIPP)?

- What do you know about the program?
- Have you seen or read any of the Fire Fighter Fatality Investigation reports or any other NIOSH fire safety reports?
- If you have read these reports, what did you think about them?
- What kind of impact have these FFFIPP reports and other materials had on your department?

8. (PASS OUT COPIES OF A FFFIPP REPORT TO PARTICIPANTS) What can NIOSH do to improve the FFFIPP materials to better meet firefighter needs?

9. Are there other concerns you have about safety that are not being addressed by either your department or NIOSH at this point?

NOTE: THE PURPOSE OF THE FOCUS GROUPS:

- To identify the impact of FFFIPP on the knowledge of firefighters.
- To identify the impact of FFFIPP on fire department operations (for example, training, standard operating procedures, and standard operating guidelines).
- To identify the impact of FFFIPP on safety practices.



National Suicide Prevention Lifeline

On the phone at **1-800-273-TALK (8255)** On the Web at http://www.suicidepreventionlifeline.org/crisis.aspx

If you are in **CRISIS** Call **1-800-273-TALK** (1-800-273-8255) TTY: 1-800-799-4TTY (4889)

If you are in crisis

If you need help, please call us

If you need help for yourself, a friend, or family member, call **1-800-273-TALK (8255)** right away.

- Call for yourself.
 - Call for someone you care about.
- Call to talk.
- Call to get help.
- Call to save a life.

We can help:

- The hotline is staffed by trained counselors,
- We are available 24 hours a day, 7 days a week,
- We have information about support services that can help you.

TTY Users

If you are a TTY user, please use our TTY number: 1-800-799-4TTY (4889)

Home



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