



Developing Requirements for Analysis, Visualization, and Reporting in the NEDSS Base System and other NEDSS/PHIN Components

2004 PHIN Stakeholders Conference

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Analysis, Visualization, and Reporting in NEDSS components



- Purposes --
 - ◆ Surveillance
 - ◆ Quality Assurance
 - ◆ Program management and evaluation indicators
- Options
 - ◆ Prepared ('canned') reports
 - ◆ Customizable queries – focus of this session
 - ◆ Ad hoc analysis and data export

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Analysis, Visualization, and Reporting – design questions to address



- What should the user interface be like?
- What data sets should be provided?
 - ◆ How does user choose dataset?
- What stratification options should be provided?
 - ◆ How does user choose options?
- What aspects of the data should be offered for selection?
 - ◆ How does user choose these aspects?
- What features should be offered?
 - ◆ How should they operate?
 - ◆ How does user choose these features?

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Example -- specifying a line-list

- Choose which data file to read records from
- Choose subset of records to be in line list (e.g. only males aged < 20 years with confirmed legionellosis)
- Specify that a line list is wanted
- Choose variables to show on line list, and order of variables (name, address, age, date of onset,....)
- Specify other features to include in line list, like breaks, counts, headings, footnotes, wraparound



Assumptions

- Users are health dept staff with full access to data – no need to worry about privacy
- Programming resources are finite – must set priorities, at least for order of production of desired features

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Some issues

- Simplicity vs power
- Predefined views of complex datasets, or flexible tools to create their own views
- Make choices in fixed sequence, or any order?
- What to do inside NEDSS application vs. in exported file
- Priorities between major types of output: line list, freq, contingency tables, report tables, line graphs, histograms, maps, export datasets

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Choosing variables for display

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TABLE CHART GRAPH MAP DETAILS PRINT

Select Report

Current selection:

County Profile

RESET

OPTIONS

County:

- Ohio Total
- Adams
- Allen
- Ashland
- Ashtabula
- Athens

Year:

- 2002
- 2001
- 2000
- 1999

[FAQs](#) [Help](#)

- Health Indicators/Diseases
 - Births
 - Cancer Incidence
 - Deaths
 - Cancer Deaths
 - Chronic Lower Respiratory Diseases
 - Diabetes Deaths
 - Infant Mortality
 - Injuries
 - Homicide
 - Selected Injuries
 - Suicide
 - Unintentional Injuries
 - Leading Causes
 - Pneumonia and Influenza
 - Total Resident Deaths
 - Population Data
 - STD
 - Tuberculosis (TB)

1. Select a report by clicking on the desired report name.
2. Choose your selection carefully. More selections are available in some categories. When more than one item in a category is selected, use the CTRL key to select items that are not contiguous and the SHIFT key to select contiguous items.
3. Select your desired output by clicking on the Table, Chart, Graph or Map buttons above.
4. Press DETAILS button to get more information about this report.

Community Tools

- County Health Profile Report
- Interactive Community Maps
- Population Estimates
- County Behavioral Risk Factor Data

Health Indicators

- Communicable Diseases
- Chronic Diseases
- Maternal & Child Health
- Environmental Health
- Injuries
- Social & Mental Health

Health Resources Availability

- Population Characteristics

Special Reports

- County Birth Data Comparison
- County Death Data Comparison
- County Health Status Comparison
- More Special Reports

Communicable Diseases

[Home](#) > Communicable Diseases

--Make selection--

- Make selection--
- Enteric Diseases
- HIV/AIDS
- Other Communicable Diseases
- Pneumonia/Influenza
- Sexually Transmitted Diseases (STDs)
- Tuberculosis (TB)
- Vaccine Preventable Diseases
- Zoonotic Diseases

rtable

rts

iology contains data for all reportable, gender, age, county and zip code.

[STD Data from the Bureau of STD Prevention and Control](#)

This site provides detailed statistics for gonorrhea, chlamydia, and syphilis. Data can be grouped by county, year, age and sex.

Tell us what you think! Give us [feedback](#) on the CHARTS system.





AVR Capabilities Available Within NBS



Basic Filter

Advanced Filter

Column Selection

Custom Report for Disease Counts by County

Condition

Diseases:

- AIDS
- Amebiasis
- Anthrax
- Aseptic meningitis
- Babesiosis

Geographic Area

States:

Alabama

Counties:

- Autauga County
- Baldwin County
- Barbour County
- Bibb County
- Blount County

Time

From:

mm/dd/yyyy

To:



AVR Capabilities Available Within NBS



- Home
- Data Entry
- Summary Data
- Investigations
- Reports
- Help
- Logout
- Build Information

Reports

User: Mr.EPI Epidemiologist



Basic Filter Advanced Filter **Column Selection**

Line List of Individual Cases with Program Area and Jurisdiction Security

Please select the column variables you would like to include in this report. Then move them up or down until they are arranged in the order you would like them to appear when the report is run.

Available Columns:

- Age Category Code
- Age Reported
- Age Reported Time
- Age Reported Unit Code
- Birth Gender Code
- Birth Order Number
- Birth Time
- Case Status
- Case Type Code
- City



Selected Columns:

- Investigation ID
- Event Date
- County
- Current Sex Code
- Disease Imported



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Frequencies dialog box – Epi Info

FREQ

ILL	Freq	%
+	20	35%
-	37	65%
Total	57	100%

Weight: []

Output to Table: []

Frequency of: []

All (*) Except

ILL

Stratify by: []

- AGE
- BAKEDHAM
- Beverages
- BROWNbread
- CABBAGESAL
- CAKES
- CHOCOLATE
- CODE_RW

Settings Save Only OK

Clear Help Cancel



Epi Info –dialogue box for line list

LIST

Variables

|

*

BAKEDHAM
Beverages
BROWNBREAD
CABBAGESAL
CAKES
CHOCOLATE
CODE_RW

Display Mode

Web (HTML)

Grid

Allow Updates



Epi Info table dialog box

TABLES [X]

Outcome Variable: ILL

Stratify by: [Empty]

Exposure Variable: VANILLA

Weight: [Empty]

Output to Table: [Empty]

	HEIGHT	+	-
62.0	20	40	
62.5	37	99	

MASHEDPOTA
MILK
NAME
ROLLS
SEX
SPINACH
TIMESUPPER
WATER

Columns per Page
 No Line Wrap

Settings Save Only OK
Clear Help Cancel



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Choose your report options, then click the "**Submit Request**" button below.
 For help with a drop-down menu, left-click on the drop-down menu's title.
 Best viewed with MS Internet Explorer and 800X600 monitor resolution.
 This site does not support Netscape versions prior to 6.0

[Year\(s\) of Report](#)

 ▲

 ▼

[Georgia Counties](#)

 ▲

 ▼

[Event\(s\)](#)

 ▲

 ▼

[Date Range Type](#)

[MMWR Start Week](#)

 ▼

[MMWR Stop Week](#)

 ▼

[Sex](#)

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Case Status(es)

- All
- Confirmed
- Probable
- Suspect
- Unknown
- Missing

Date Type(s)

- All Types
- Onset Date
- Diagnosis Date
- Lab Date
- Rpt County
- Rpt State
- Unknown
- Missing

missing

Imported

- All
- Acquired in State
- Acquired Outside US
- In US, Outside State
- Unknown
- Missing

Outbreak Associated

- All
- Yes
- No
- Unknown
- Missing

Choose Product Type

- Frequency
- Table
- Descriptive Statistics
- Plot
- Bar Chart
- Map
- Line Listing

Primary Analysis Variable

MMWR Year

Optional "Grouped By" Variable

None



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Unknown
Missing

Unknown
Missing

[Outbreak Associated](#)

All
Yes
No
Unknown
Missing

[Choose Product Type](#)

Frequency
Table
Descriptive Statistics
Plot
Bar Chart
Map
Line Listing

[Row Variable](#)

MMWR Year

[Column Variable](#)

MMWR Year

[Optional "Grouped By"](#)

[Variable](#)

None

[Percentage Method](#)

Percent of Row Total

Submit Request

Reset



Choosing type of output

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WEAT interface to BRFSS

CDC's Behavioral Risk Factor Surveillance System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address http://weat.rti.org/cgi-bin/htmsql.exe/weat/Freq_analysis.hsrl

CDC Home Search Health Topics A-Z

National Center for Chronic Disease Prevention and Health Promotion
Behavioral Risk Factor Surveillance System
[BRFSS Home](#) | [BRFSS Analysis Home](#) | [FAQs](#) | [Contact Us](#)

WEAT: Web Enabled Analysis Tool

Cross Tabulation: This procedure allows you to generate tables with frequencies across one or more categorical variables, using the 2002 BRFSS data. Follow the steps as numbered below to select your row, adding a column variable and one or two controls if desired. Press "More" for further instructions and an example.

Step 1 Select Row:

- Select One
- Alcohol: Average drinks in one day (1,2,3-4,5+)
- Alcohol: Binge drinking freq in past month (0,1,2-4,5+)
- Alcohol: Days in past 30 drank alcohol (0,1-7,8-14,15-21,)
- Asthma: Ever told had asthma
- Asthma: Still have asthma
- Colorectal cancer: Ever had sigmoid/colonoscopy
- Colorectal cancer: Ever used home blood stool test kit
- Colorectal cancer: Last blood stool test
- Colorectal cancer: Last sigmoid/colonoscopy

Step 2 Select Column (optional):

- None
- Alcohol: Average drinks in one day (1,2,3-4,5+)
- Alcohol: Binge drinking freq in past month (0,1,2-4,5+)
- Alcohol: Days in past 30 drank alcohol (0,1-7,8-14,15-21,)
- Asthma: Ever told had asthma
- Asthma: Still have asthma
- Colorectal cancer: Ever had sigmoid/colonoscopy
- Colorectal cancer: Ever used home blood stool test kit
- Colorectal cancer: Last blood stool test
- Colorectal cancer: Last sigmoid/colonoscopy

Step 3 Select Control 1 (optional):

- None
- Alcohol: Average drinks in one day (1,2,3-4,5+)
- Alcohol: Binge drinking freq in past month (0,1,2-4,5+)
- Alcohol: Days in past 30 drank alcohol (0,1-7,8-14,15-21,)
- Asthma: Ever told had asthma
- Asthma: Still have asthma
- Colorectal cancer: Ever had sigmoid/colonoscopy
- Colorectal cancer: Ever used home blood stool test kit
- Colorectal cancer: Last blood stool test
- Colorectal cancer: Last sigmoid/colonoscopy

Step 4 Select Control 1 (optional):

- None
- Alcohol: Average drinks in one day (1,2,3-4,5+)
- Alcohol: Binge drinking freq in past month (0,1,2-4,5+)
- Alcohol: Days in past 30 drank alcohol (0,1-7,8-14,15-21,)
- Asthma: Ever told had asthma
- Asthma: Still have asthma
- Colorectal cancer: Ever had sigmoid/colonoscopy
- Colorectal cancer: Ever used home blood stool test kit
- Colorectal cancer: Last blood stool test
- Colorectal cancer: Last sigmoid/colonoscopy

Step 5 Select Statistics:

Sample Size Chi Square

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Select Report

Current selection:

Gonorrhea

RESET OPTIONS

County:

- Ohio Total
- Adams
- Allen
- Ashland
- Ashtabula
- Athens

Year:

- 2002
- 2001
- 2000
- 1999

[FAQs](#) [Help](#)

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[Data & Statistics](#)

Search Options -- Web Page Dialog

GENDER: All - no details All - with details Female Male Unknown/Missing	DIAGNOSIS: All Confirmed	DISPLAY RESULTS USING: Count & Rate* Count Rate** <small>*Available for table output only. **Not available for Unknown value.</small>
---	---------------------------------------	--

You may make a selection from only one of the following lists:

AGE GROUP: All 0-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-54 55-64 65+ Unknown/Missing	RACE: All American Indian/Alaskan Native Asian Pacific Islander Black White Other Unknown/Missing <small>The large proportion of unspecified race should be interpreted with caution; however, other data sources indicate that the proportions are reasonably representative.</small>	ETHNICITY: All Hispanic Not Hispanic Unknown/Missing
--	---	---

If "All" is selected alone or in combination, the table will include the summary total only.

OK CANCEL RESET

Community Tools

- [County Health Profile Report](#)
- [Interactive Community Maps](#)
- [Population Estimates](#)
- [County Behavioral Risk Factor Data](#)

Health Indicators

- [Communicable Diseases](#)
- [Chronic Diseases](#)
- [Maternal & Child Health](#)
- [Environmental Health](#)
- [Injuries](#)
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Special Reports

- [County Birth Data Comparison](#)
- [County Death Data Comparison](#)
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- [More Special Reports](#)

Communicable Diseases

[Home](#) > [Communicable Diseases](#) > Deaths from Influenza & Pneumonia

Indicator:	Deaths from Influenza & Pneumonia
Race:	All <input type="text"/>
Hispanic* (race must be set to ALL):	No <input type="text"/>
Year:	2002 <input type="text"/>
Rate type:	Age-Adjusted Death Rate (AADR) <input type="text"/>
Report Type:	<input checked="" type="radio"/> 3-year discrete average <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="radio"/> 3-year rolling average <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="radio"/> 3 single-year rates <input type="checkbox"/> <input type="checkbox"/> <input type="radio"/> 10 single-year rates <input type="checkbox"/> <input type="checkbox"/> <input type="radio"/> 10 single-year counts <input type="checkbox"/> <input type="checkbox"/> <input type="radio"/> All Rates (YPLL,AADR,Crude) <input type="checkbox"/>
<input type="button" value="Generate data"/>	

*Hispanic rates not available after 2000. Selecting "No" will display Hispanic AND Non-Hispanic data.

[View ICD-10 code\(s\) for this indicator](#)

Tell us what you think! Give us [feedback](#) on the CHARTS system.





- Community Tools**
- [County Health Profile Report](#)
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- [Injuries](#)
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- [Health Resources Availability](#)
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- Special Reports**
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- [County Health Status Comparison](#)
- [More Special Reports](#)

Communicable Diseases

[Home](#) > [Communicable Diseases](#) > Deaths from Influenza & Pneumonia

Here is your selection:

Indicator: **Deaths from Influenza & Pneumonia**
 Race: **All**
 Year: **2002**
 Report type: **3-year discrete average**   
 Rate type: **Age-Adjusted Death Rate (AADR)**

[Instructions for viewing reports \(useful for exporting to Excel\)](#)

[Download Acrobat Reader](#)

[Instructions for county map format](#)

Select county to display trend graph

[Download Acrobat Reader](#)

Select County





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NNDSS Link



BMIRD Data

Choose one of the following:

[Analysis of Georgia NNDSS data](#)

[Rates per 100,000 population estimates](#)

[Aberration Detection](#)

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Output

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National Center for Chronic Disease Prevention & Health Promotion
Behavioral Risk Factor Surveillance System

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- [Select Another Question](#)
- [List All States](#)

Prevalence Data

Hypertension Awareness - 2002

Have you ever been told by a doctor, nurse, or other health professional that you have high blood pressure?

To see a specific state's data, click on the state name.

State:	Yes	No
Colorado	20.0	80.0
District of Columbia	25.7	74.3
Florida	26.5	73.5
Illinois	23.8	76.2
Iowa	24.9	75.1
North Dakota	25.0	75.0
Oregon	25.0	75.0
South Carolina	28.4	71.6
South Dakota	25.2	74.8
Tennessee	30.3	69.7
Virginia	25.4	74.6
Virgin Islands	26.3	73.7

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Behavioral Risk Factor Surveillance System – output, table



Behavioral Risk Factor Surveillance System
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[Select Another Risk Behavior](#)
[No Grouping](#)
[Grouped By Gender](#)
[Grouped By Age](#)

Trends Data

Nationwide

Compare US to Another State
Nationwide

Alcohol Use: Binge Drinking*

Year:	Nationwide Median % # States
1990	15.3 45
1991	14.5 48
1992	14.4 49
1993	14.3 50
1994 ^{***}	No Data
1995	14.1 50
1996 ^{***}	No Data
1997	14.5 52
1998 ^{***}	No Data
1999	14.9 52
2000 ^{***}	No Data
2001	14.7 54
2002	16.1 54

of States includes District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands in applicable years.
*All respondents 18 and older who report having five or more drinks on an occasion, one or more times in the past month.
Denominator includes all survey respondents except those with missing, don't know, and refused answers.



Behavioral Risk Factor Surveillance System – stratify/subset



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National Center for Chronic Disease Prevention & Health Promotion
Behavioral Risk Factor Surveillance System
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Trends Data

Nationwide vs. Alabama

Gender: **Male**

Compare US to Another State
 Nationwide

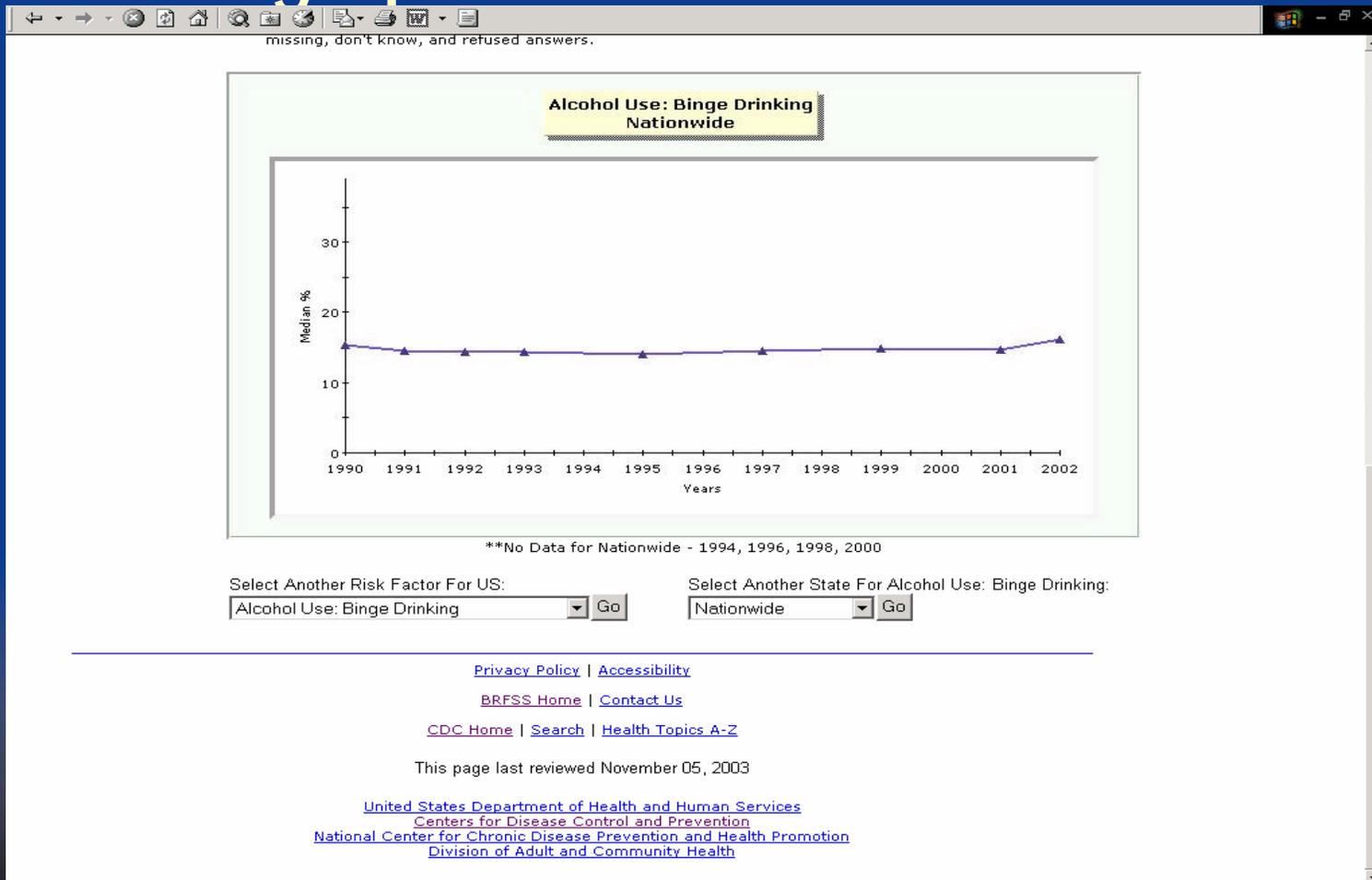
Alcohol Use: Binge Drinking*

Gender:

	Nationwide	Alabama
Year:	Median % # States	% CI n
1990	24.0 45	17.0 (14.4-19.6) 156
1991	22.1 48	20.3 (17.2-23.4) 154
1992	22.1 49	18.0 (15.3-20.7) 166
1993	21.3 50	13.8 (11.3-16.4) 114
1994**	No Data	No Data
1995	21.6 50	22.3 (18.8-25.8) 143
1996**	No Data	23.1 (19.8-26.4) 177
		18.3



Behavioral Risk Factor Surveillance System – output, line graph





BRFSS WEAT from RTI

SAS Output - Microsoft Internet Explorer

Address: http://weat.rti.org/cgi-bin/broker.exe?row=GENHLTH&column=HLTHPLAN&control1=SEX&control2=&SampleSize=on&ColumnPercentage=on&submit=Run+Report&_program

CDC National Center for Chronic Disease Prevention and Health Promotion
Behavioral Risk Factor Surveillance System
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Crosstabulation of:
ROW = Health status: General health by
COLUMN = Health care: Any health care coverage
Controlling for : Demographic: Gender = Male

[Download To Excel Spreadsheet](#)
[Modify The Crosstab Model](#)

Sample Size	Yes	No	Row Total
Column Percentage			
Excellent	19,266 23.5%	2,656 18.2%	21,922 22.6%
Very good	28,274 34.3%	3,891 26.9%	32,165 33.1%
Good	24,572 28.6%	4,671 34.9%	29,243 29.6%
Fair	8,763 9.5%	1,907 15.8%	10,670 10.6%
Poor	3,909 4.1%	700 4.2%	4,609 4.1%
Column Total	84,784 100.0%	13,825 100.0%	98,609 100.0%

Crosstabulation of:
ROW = Health status: General health by
COLUMN = Health care: Any health care coverage
Controlling for : Demographic: Gender = Female

TABLE CHART GRAPH MAP DETAILS PRINT

Select Report

Current selection:

Selected Injuries

RESET OPTIONS

County:

- Ohio Total
- Adams
- Allen
- Ashland
- Ashtabula
- Athens

Year:

- 1999-2001
- 1996-1998
- 1993-1995

[FAQs](#) [Help](#)

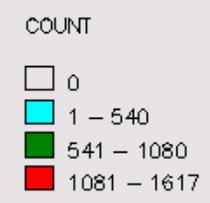
Ohio Selected Injury Mortality By Year

		1999-2001		
		Count	Age-adjusted Rate*	Crude Rate*
Ohio	Motor Vehicle Accidents	4,301	12.6	12.6
	Other Land Transport Accidents	215	0.6	0.6
	Water, Air & Space & Other Unspecified Transport Accidents	142	0.4	0.4
	Falls	1,572	4.5	4.6

Minimize

OhioTotal STD Data: Gonorrhea

Year=2001: 15-19; Confirmed Cases



*Here are the total count and Rate represented in the map.
Place cursor over county and click for additional information.
Zero values are not displayed on charts, graphs and maps

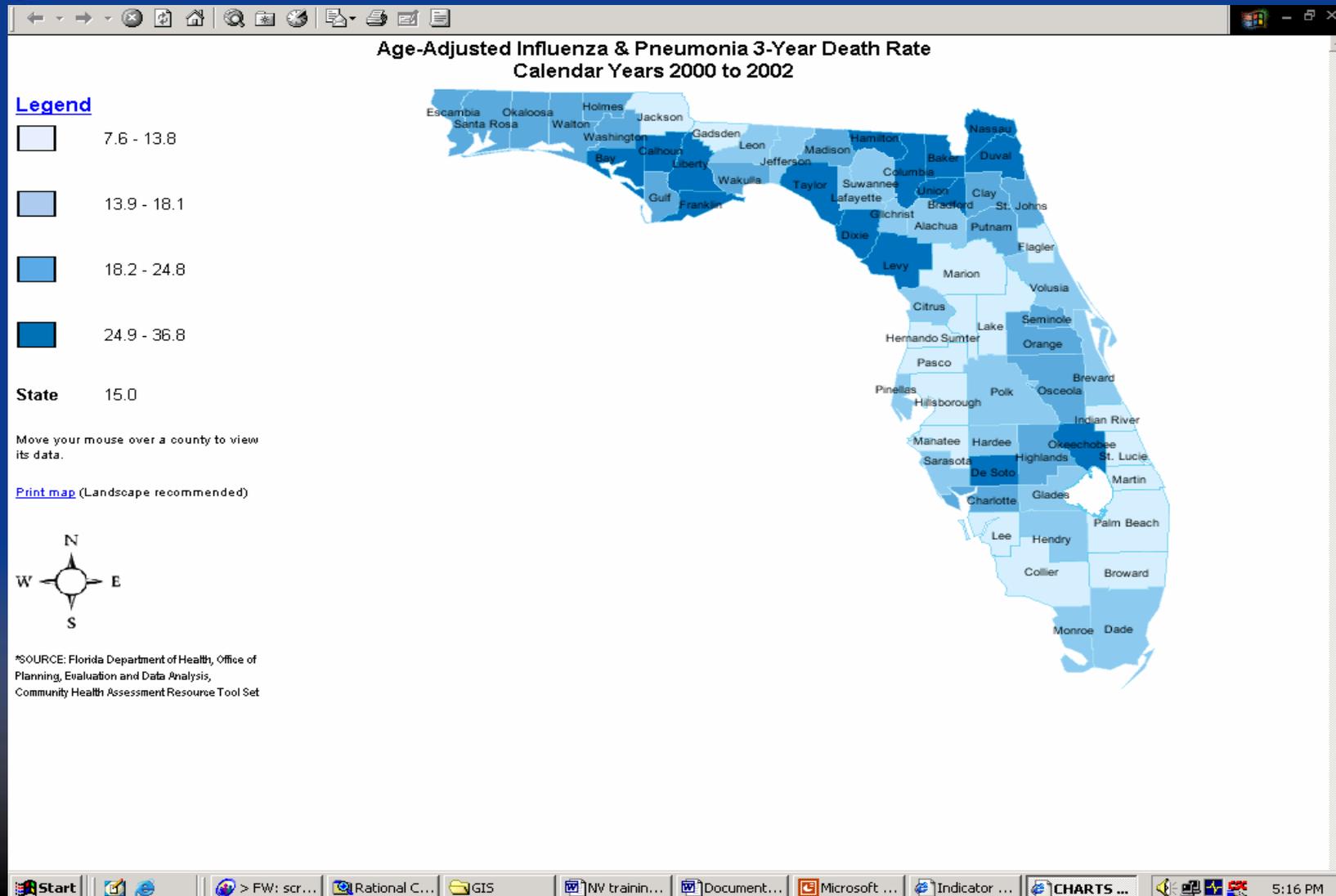
Ohio Department of Health - Last updated: January 9, 2004

County Codes

AD = Adams	DK = Dake	HK = Hocking	MM = Miami	SC = Scioto
AL = Allen	DF = Defiance	HL = Holmes	MN = Monroe	SN = Seneca
AS = Ashland	DL = Delaware	HU = Huron	MT = Montgomery	SH = Shelby
AB = Ashtabula	ER = Erie	JK = Jackson	MG = Morgan	ST = Stark
AT = Athens	FA = Fairfield	JF = Jefferson	MW = Morrow	SU = Summit
AU = Auglaize	FY = Fayette	KN = Knox	MU = Muskingum	TR = Trumbull
BE = Belmont	FR = Franklin	LK = Lake	NO = Noble	TU = Tuscarawas
BR = Brown	FU = Fulton	LW = Lawrence	OT = Ottawa	UN = Union
BU = Butler	GA = Gallia	LI = Licking	PA = Paulding	VW = Van Wert
CA = Carroll	GE = Geauga	LG = Logan	PE = Perry	VN = Vinton
CH = Champaign	GR = Greene	LR = Lorain	PC = Pickaway	WR = Warren
CK = Clark	GU = Guernsey	LU = Lucas	PK = Pike	WS = Washington



Florida Charts – output, map





Florida Charts – output, table

Printer-friendly version | View a map of this indicator | Export to PDF | Export to MS Excel | Help

Age-Adjusted Influenza & Pneumonia 3-Year Death Rate

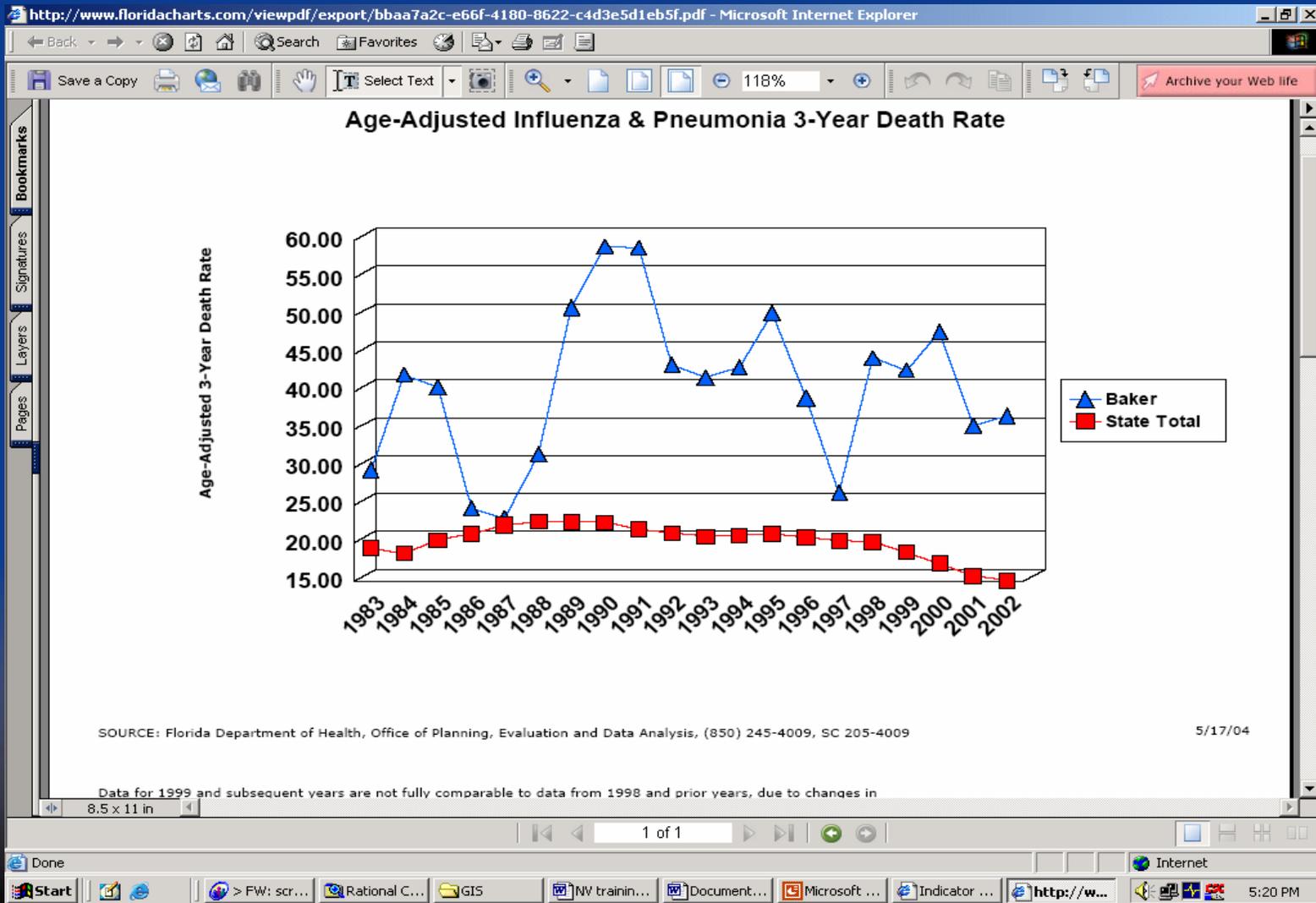
Discrete Three Year Rates for All Races All Sexes
(Click on column headers to sort data)

Click county name for trend graph

County	Average Number of Deaths			Average Number of Total Population			Age-Adjusted 3-Year Death Rate		
	1994-96	1997-99	2000-02	1994-96	1997-99	2000-02	1994-96	1997-99	2000-02
State Total	3,782	3,757	3,299	14,409,121	15,333,757	16,419,798	20.8	18.8	15.0
Alachua	40	37	31	197,667	208,972	224,387	28.2	23.2	17.9
Baker	4	6	5	20,207	21,027	22,711	39.1	42.8	36.8
Bay	39	31	35	137,273	144,552	150,753	33.2	24.8	25.3
Bradford	7	10	9	24,627	25,544	26,298	30.2	40.5	32.6
Brevard	95	99	103	442,338	461,915	487,700	18.4	16.4	15.4
Broward	321	329	275	1,438,537	1,552,370	1,653,447	15.9	15.0	11.6
Calhoun	1	2	4	12,144	12,671	13,142	10.2	13.9	28.2
Charlotte	117	92	79	129,175	135,983	145,775	42.6	28.9	23.5
Citrus	41	45	40	107,090	113,917	121,157	19.2	19.3	15.4
Clay	24	21	23	121,814	133,018	145,746	28.8	22.2	20.4
Collier	29	37	36	199,351	230,084	267,784	10.1	10.7	8.3
Columbia	10	15	14	49,963	54,283	57,525	22.2	28.1	25.2
Dade	524	516	400	2,088,158	2,183,998	2,291,894	24.5	22.7	16.4
Desoto	7	11	10	27,896	30,386	32,701	19.4	30.2	25.7
Dixie	4	3	4	12,323	13,219	14,189	36.1	20.6	30.7
Duval	186	189	182	723,677	757,689	798,025	32.8	30.7	27.2
Escambia	71	69	64	277,303	288,999	297,551	28.5	25.7	21.4
Flagler	7	8	8	38,160	44,977	54,168	13.3	11.3	9.4
Franklin	5	3	5	9,569	9,668	10,032	40.6	23.0	35.8
Gadsden	14	7	6	43,645	44,968	45,521	34.5	17.6	12.9
Gilchrist	2	5	2	12,140	13,490	14,811	21.3	35.4	16.8



Florida Charts – output, trend



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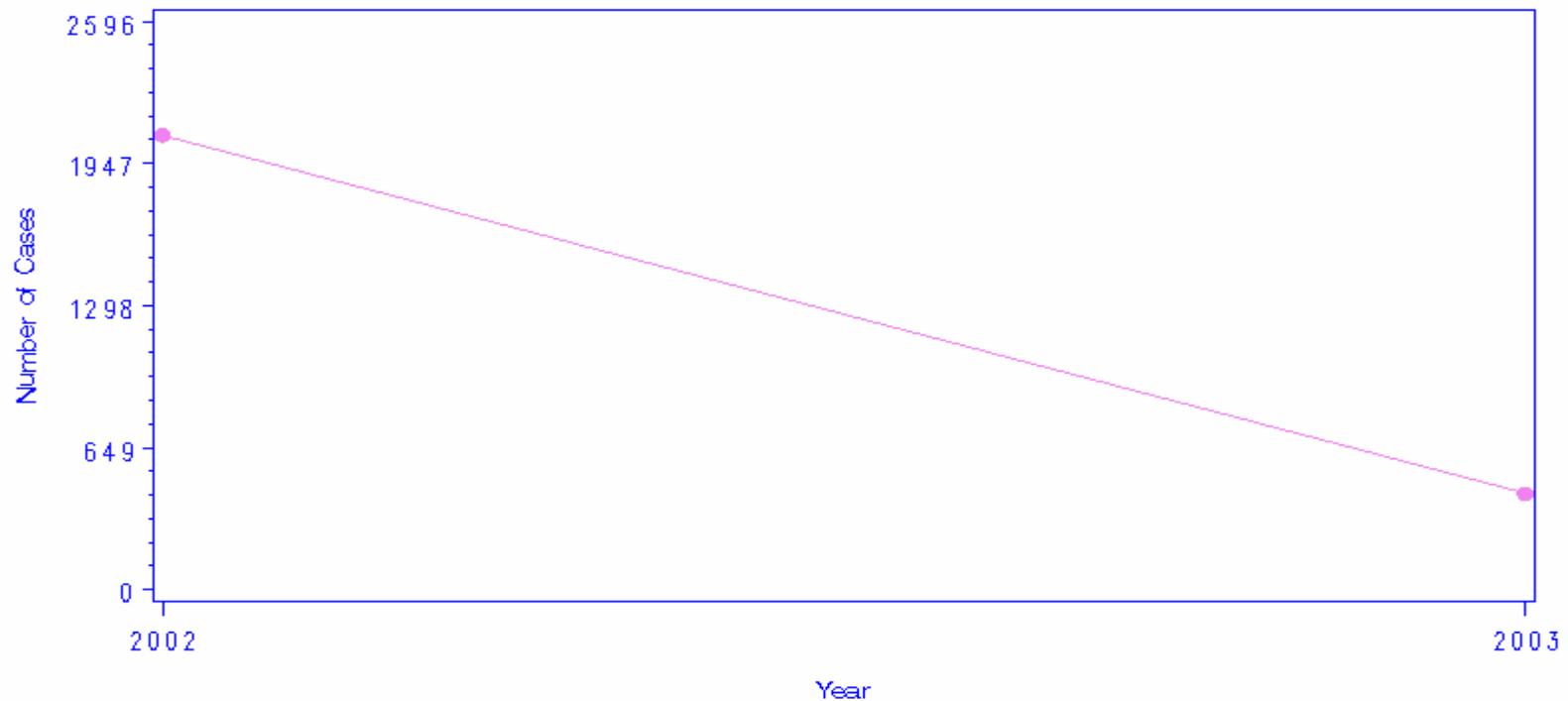


AVR Capabilities Available Within NBS



Cases of Varicella (Chickenpox) by Year of Report

For Tennessee From 2002 To 2003



This report was built using the following criteria:

Report run on: 02/19/2004 19:23:00
Data refreshed on:

Diseases: Varicella (Chickenpox)
States: Tennessee
Event Date: From 2002 To 2003



AVR Capabilities Available Within NBS



Selected Cases of Notifiable Diseases by County

For Tennessee and From 09/27/2002 To 06/09/2003

Disease/Condition	County				Total
	Anderson County	Davidson County	Hamilton County	Shelby County	
Anthrax	0	1	0	1	2
Babesiosis	0	3	0	0	3
Bacterial meningitis, other	0	1	0	0	1
Botulism, wound	0	2	0	0	2
Coccidioidomycosis	0	0	43	0	43
Total	0	7	43	1	51

This report was built using the following criteria:

Report run on: 02/19/2004 19:35:00

Data refreshed on:

Diseases: Anthrax Aseptic meningitis Babesiosis Bacterial meningitis, other Botulism, foodborne Botulism, wound Cholera Coccidioidomycosis

States: Tennessee

Counties: Anderson County Davidson County Hamilton County Henderson County Shelby County

Event Date: From 09/27/2002 To 06/09/2003



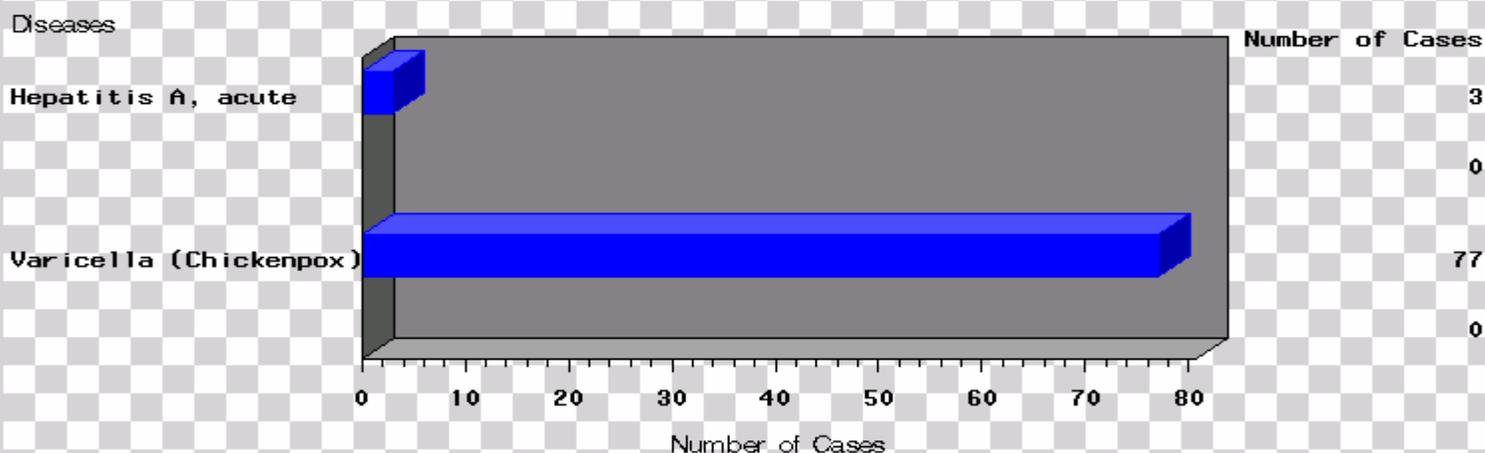
AVR Capabilities Available Within NBS



Year to Date Cases of Selected Diseases

For Tennessee
02/19/2004

Current YTD Five Year Median YTD



This report was built using the following criteria:

Report run on: 02/19/2004 19:40:00

Diseases: Hepatitis A, acute Varicella (Chickenpox)

Data refreshed on:

States: Tennessee

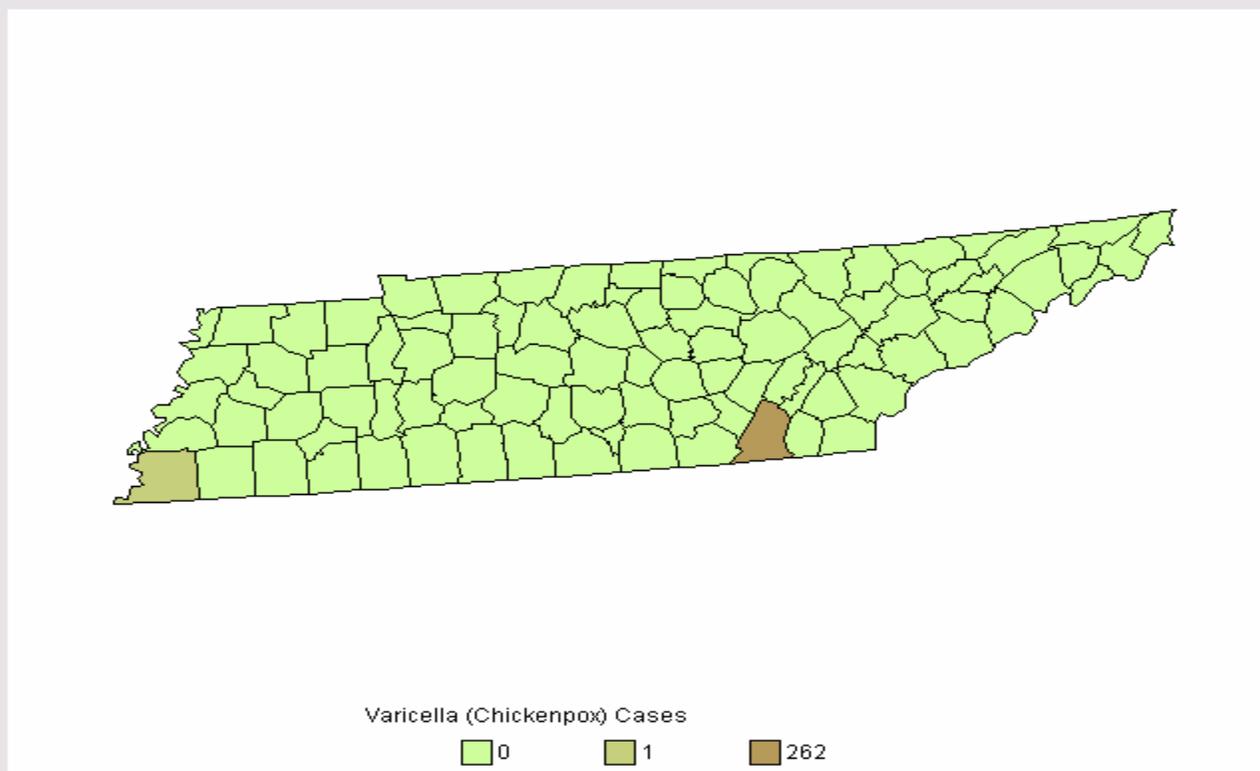


AVR Capabilities Available Within NBS



Cases of Varicella (Chickenpox) by County

For Tennessee From 09/27/2002 To 06/09/2003



This report was built using the following criteria:

Diseases: Varicella (Chickenpox)

States: Tennessee

Event Date: From 09/27/2002 To 06/09/2003

Report run on: 02/19/2004 19:42:00

Data refreshed on:

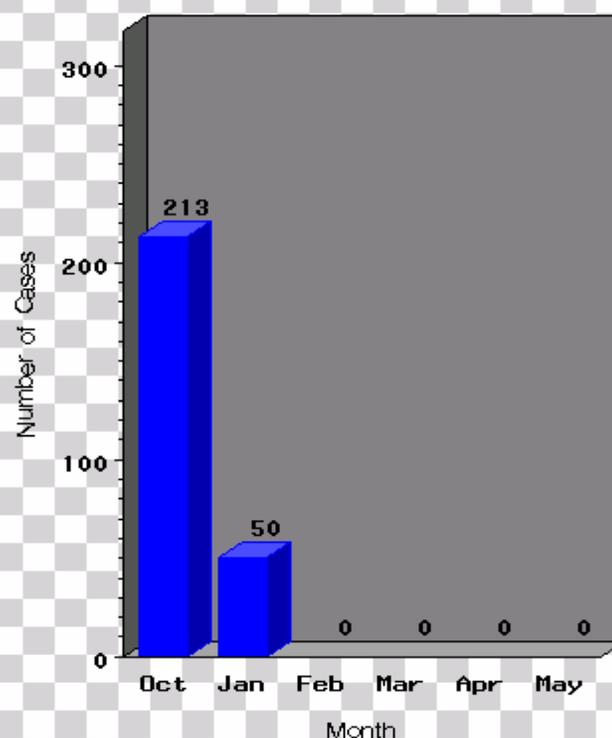


AVR Capabilities Available Within NBS



Cases of Varicella (Chickenpox) by Month

For Tennessee, From 09/27/2002 To 06/09/2003



This report was built using the following criteria:

Report run on: 02/19/2004 19:44:00

Data refreshed on:

Diseases: Varicella (Chickenpox)

Event Date: From 09/27/2002 To 06/09/2003

States: Tennessee



AVR Capabilities Available Within NBS



Custom Report For Table: PHCDemographic

Investigation ID	Event Date	County	Current Sex Code	Disease Imported
470203381	09/22/2002 00:00:00	Gibson County	M	Out of jurisdiction
470206665	05/06/2001 00:00:00	Gwinnett County	M	Out of state
470222209	10/17/2002 00:00:00	Hamilton County	F	
470222230	10/17/2002 00:00:00	Hamilton County	F	
470223859	10/21/2002 12:39:07	Kent County	U	
470231807	09/30/2001 00:00:00	Hamilton County	M	Unknown
471028408	12/03/2003 16:03:27	Chittenden County	M	Indigenous

This report was built using the following criteria:

Report run on: 02/19/2004 19:47:00

Data refreshed on:

Diseases: Varicella (Chickenpox)

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Epi Info – Simple frequencies output

C:\Epi_Info\OUT1.htm

Previous Next Last History Open Bookmark Print Maximize

Male 26.8% 69.4%

[Previous Dataset](#) [Results Library](#)

FREQ ILL

[Next Procedure](#)

[Forward](#)

Ill?	Frequency	Percent	Cum Percent	
Yes	46	61.3%	61.3%	<div style="width: 61.3%; background-color: yellow;"></div>
No	29	38.7%	100.0%	<div style="width: 38.7%; background-color: yellow;"></div>
Total	75	100.0%	100.0%	<div style="width: 100%; background-color: orange;"></div>

95% Conf Limits

Yes 49.4% 72.4%

No 27.6% 50.6%



Epi Info – Frequencies, stratified

C:\Epi_Info\OUT1.htm

Previous Next Last History Open Bookmark Print Maximize

Ill?, Sex:=Female

[Forward](#)

Ill?	Frequency	Percent	Cum Percent	
Yes	30	68.2%	68.2%	
No	14	31.8%	100.0%	
Total	44	100.0%	100.0%	

95% Conf Limits
Yes 52.4% 81.4%
No 18.6% 47.6%

Ill?, Sex:=Male

[Back](#) [Forward](#) [Current Procedure](#)

Ill?	Frequency	Percent	Cum Percent	
Yes	16	51.6%	51.6%	
No	15	48.4%	100.0%	
Total	31	100.0%	100.0%	

95% Conf Limits



Epi Info line list output

AGE	SEX	ILL	VANILLA
25	Male	Yes	Yes
11	Female	No	No
74	Male	Yes	Yes
12	Female	Yes	Yes
44	Female	Yes	No
53	Female	Yes	Yes
37	Male	No	No
24	Female	No	No
69	Female	No	No
7	Male	No	No
17	Female	Yes	Yes
8	Female	Yes	Yes
11	Female	No	No
17	Male	No	Yes
36	Female	No	No
21	Female	Yes	Yes
60	Male	Yes	Yes
18	Female	Yes	Yes
14	Female	No	Yes
52	Male	Yes	Yes
45	Female	Yes	Yes
11	Male	No	No
52	Female	Yes	Yes
65	Male	Yes	Yes
59	Female	Yes	Yes
13	Female	No	No
63	Female	Yes	Yes
70	Male	Yes	Yes
40	Female	Yes	Yes
15	Female	Yes	No
33	Female	Yes	Yes
65	Male	No	Yes
38	Female	No	Yes
62	Female	No	No
10	Male	Yes	Yes
25	Male	No	Yes
32	Female	Yes	Yes
62	Female	Yes	Yes
36	Male	Yes	Yes
11	Male	No	No
33	Female	Yes	Yes



Epi Info – 2 x 2 table

C:\Epi_Info\OUT2.htm

Previous Next Last History Open Bookmark Print Maximize

[Forward](#)

ILL?

Vanilla Ice Cream	Yes	No	TOTAL
Yes	43	11	54
Row %	79.6	20.4	100.0
Col %	93.5	37.9	72.0
No	3	18	21
Row %	14.3	85.7	100.0
Col %	6.5	62.1	28.0
TOTAL	46	29	75
Row %	61.3	38.7	100.0
Col %	100.0	100.0	100.0

Single Table Analysis

	Point Estimate	95% Confidence Interval	
		Lower	Upper
PARAMETERS: Odds-based			
Odds Ratio (cross product)	23.4545	5.8410	94.1811 (T)
Odds Ratio (MLE)	22.1490	5.9280	109.1473 (M)
		5.2153	138.3935 (F)
PARAMETERS: Risk-based			
Risk Ratio (RR)	5.5741	1.9383	16.0296 (T)
Risk Difference (RD%)	65.3439	46.9212	83.7666 (T)
(T=Taylor series; C=Cornfield; M=Mid-P; F=Fisher Exact)			
STATISTICAL TESTS			
	Chi-square 1-tailed p	2-tailed p	
Chi square - uncorrected	27.2225	0.0000013505	
Chi square - continuity	26.8506	0.0000013888	



Epi Info – stratified tables

C:\Epi_Info\OUT2.htm

Previous Next Last History Open Bookmark Print Maximize

Vanilla Ice Cream : Ill?, Sex:=Female

[Forward](#)

ILL?

Vanilla Ice Cream	Yes	No	TOTAL
Yes	27	4	31
Row %	87.1	12.9	100.0
Col %	90.0	28.6	70.5
No	3	10	13
Row %	23.1	76.9	100.0
Col %	10.0	71.4	29.5
TOTAL	30	14	44
Row %	68.2	31.8	100.0
Col %	100.0	100.0	100.0

Vanilla Ice Cream : Ill?, Sex:=Male

[Back](#) [Forward](#) [Current Procedure](#)

ILL?

Vanilla Ice Cream	Yes	No	TOTAL
Yes	16	7	23
Row %	69.6	30.4	100.0
Col %	100.0	46.7	74.2
No	0	8	8
Row %	0.0	100.0	100.0
Col %	0.0	53.3	25.8



Sample 3 by 4 table

Hepatitis C for Fulton and Dekalb Counties by Case Status and Age, Race and Gender

	Hepatitis C, acute																Hepatitis C, chronic							
	Confirmed		2002		2003		Probable		2002		2003		Confirmed		2002		2003		Probable		2002			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%		
Fulton County																								
African American																								
<i>15 - 19 years</i>																								
Female	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%
Male	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%
<i>20 - 24 years</i>																								
Female	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%
Male	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%
White																								
<i>15 - 19 years</i>																								
Female	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%
Male	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%
<i>20 - 24 years</i>																								
Female	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%
Male	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%
Dekalb County																								
African American																								
<i>15 - 19 years</i>																								
Female	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%
Male	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%	2	10%
<i>20 - 24 years</i>																								
Female	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%	3	10%
Male	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%	5	20%
White																								
<i>15 - 19 years</i>																								
Female	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%	8	30%
Male	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%
<i>20 - 24 years</i>																								
Female	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%	10	40%
Male	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%	12	50%

Note: The numbers in this report are fictional and for demonstration purposes only.

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NNDSS-Link frequency distr.

ANALYSIS OF GEORGIA BAC. MENIN. & INV. RESP. DIS. (BMIRD) DATA, YEAR=2004, EVENT=ALL EVENTS
COUNTY=ALL COUNTIES, STATUS=ALL STATUSES, DATE TYPE=ALL DATE TYPES, SEX=ALL SEX VALUES
RACE=ALL RACE VALUES, ETHNICITY=ALL ETHNIC VALUES, IMPORTED=ALL IMPORTED VALUES, OUTBREAK ASSOCIATED=ALL
OUTBREAK VALUES
TIME WINDOW=MMWR WEEKS 1 THROUGH 53

EVENT NAME				
EVNTNAME	Frequency	Percent	Cumulative Frequency	Cumulative Percent
HAEMOPH. INFLUENZA	55	8.74	55	8.74
LEGIONELLOSIS	6	0.95	61	9.70
LISTERIOSIS MONOCY.	4	0.64	65	10.33
NEISSERIA MENINGITIS	12	1.91	77	12.24
STREP PNUEM DRUG-RES	148	23.53	225	35.77
STREP PNUEM INV DIS	41	6.52	266	42.29
STREPTOCOCCAL, GRP A	140	22.26	406	64.55
STREPTOCOCCAL, GRP B	223	35.45	629	100.00



NNDSS-Link tabular output

ANALYSIS OF GEORGIA BAC. MENIN. & INV. RESP. DIS. (BMIRD) DATA, YEAR=2004, EVENT=ALL EVENTS
COUNTY=ALL COUNTIES, STATUS=ALL STATUSES, DATE TYPE=ALL DATE TYPES, SEX=ALL SEX VALUES
RACE=ALL RACE VALUES, ETHNICITY=ALL ETHNIC VALUES, IMPORTED=ALL IMPORTED VALUES, OUTBREAK ASSOCIATED=ALL
OUTBREAK VALUES
TIME WINDOW=MMWR WEEKS 1 THROUGH 53

EVENT NAME	SEX						TOTAL	
	MALE		FEMALE		UNKNOWN		CASES	% OF TOTAL
	CASES	% OF TOTAL	CASES	% OF TOTAL	CASES	% OF TOTAL		
HAEMOPH. INFLUENZA	25	45.5	29	52.7	1	1.8	55	100.0
LEGIONELLOSIS	4	66.7	2	33.3	0	0	6	100.0
LISTERIOSIS MONOCY.	3	75.0	1	25.0	0	0	4	100.0
NEISSERIA MENINGITIS	6	50.0	6	50.0	0	0	12	100.0
STREP PNUEM DRUG-RES	72	48.6	76	51.4	0	0	148	100.0

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NNDSS-Link stratified tables

SAS Output - Microsoft Internet Explorer

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ANALYSIS OF TEXAS BACTERIAL DATA, YEAR=2003, EVENT=SALMONELLOSIS
COUNTY=ALL COUNTIES, STATUS=ALL STATUSES, DATE TYPE=ALL DATE TYPES, SEX=ALL SEX VALUES
RACE=ALL RACE VALUES, ETHNICITY=ALL ETHNIC VALUES, IMPORTED=ALL IMPORTED VALUES, OUTBREAK ASSOCIATED=ALL
OUTBREAK VALUES
TIME WINDOW=MMWR WEEKS 1 THROUGH 53

SEX=MALE

COUNTY NAME	RACE								TOTAL	
	ASIAN/PAC. ISL.		BLACK		WHITE		OTH./UNK.		CASES	% OF TOTAL
	CASES	% OF TOTAL	CASES	% OF TOTAL	CASES	% OF TOTAL	CASES	% OF TOTAL		
ANDERSON	0	0	0	0	1	33.3	2	66.7	3	100.0
ANDREWS	0	0	0	0	0	0	1	100.0	1	100.0
ANGELINA	0	0	0	0	0	0	2	100.0	2	100.0
ARANSAS	0	0	0	0	2	50.0	2	50.0	4	100.0
ARCHER	0	0	0	0	1	100.0	0	0	1	100.0
ATASCOSA	0	0	0	0	3	60.0	2	40.0	5	100.0
BANDERA	0	0	0	0	3	75.0	1	25.0	4	100.0
BASTROP	0	0	0	0	0	0	2	100.0	2	100.0
DAVIES	0	0	0	0	1	100.0	0	0	1	100.0

Done Trusted sites



NNDSS-Link continuous variable

ANALYSIS OF GEORGIA BAC. MENIN. & INV. RESP. DIS. (BMIRD) DATA, YEAR=2004, EVENT=ALL EVENTS
COUNTY=ALL COUNTIES, STATUS=ALL STATUSES, DATE TYPE=ALL DATE TYPES, SEX=ALL SEX VALUES
RACE=ALL RACE VALUES, ETHNICITY=ALL ETHNIC VALUES, IMPORTED=ALL IMPORTED VALUES, OUTBREAK ASSOCIATED=ALL
OUTBREAK VALUES
TIME WINDOW=MMWR WEEKS 1 THROUGH 53

Variable: AGE (AGE)

Moments			
N	593	Sum Weights	593
Mean	43.8010118	Sum Observations	25974
Std Deviation	29.2818468	Variance	857.426553
Skewness	-0.2111835	Kurtosis	-1.131256
Uncorrected SS	1645284	Corrected SS	507596.519
Coeff Variation	66.8519872	Std Error Mean	1.20246133

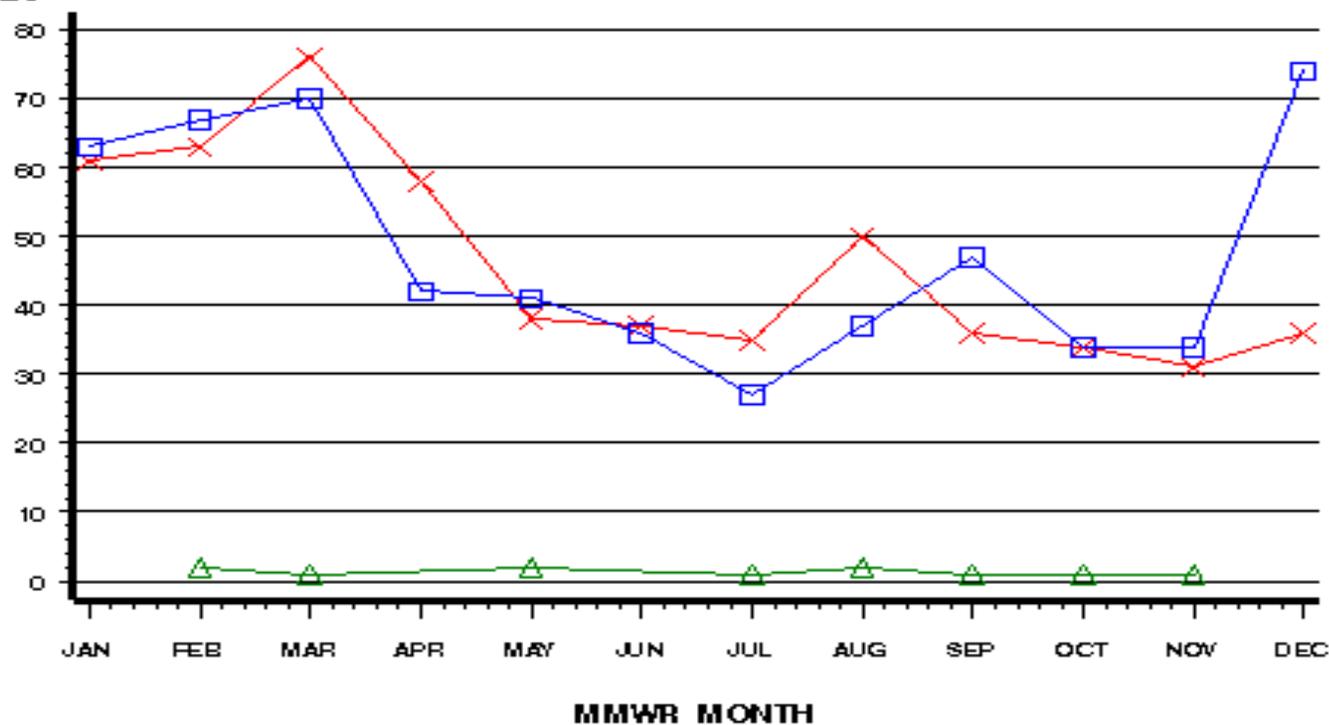
Basic Statistical Measures			
Location		Variability	
Mean	43.80101	Std Deviation	29.28185



NNDSS-Link line graph

**ANALYSIS OF GEORGIA BAC. MENIN & INV. RESP. DIS. (BMIRD) DATA, YEAR=2003, EVENT=ALL EVENTS
COUNTY=ALL COUNTIES, STATUS=ALL STATUSES, DATE TYPE=ALL DATE TYPES, SEX=ALL SEX VALUES
RACE=ALL RACE VALUES, ETHNICITY=ALL ETHNIC VALUES, IMPORTED=ALL IMPORTED VALUES, OUTBREAK ASSOCIATED=ALL OUTBREAK VALUES
TIME WINDOW=MMWR WEEKS 1 THROUGH 53**

NUMBER OF CASES



SEX x-x-x MALE □-□-□ FEMALE △-△-△ UNKNOWN

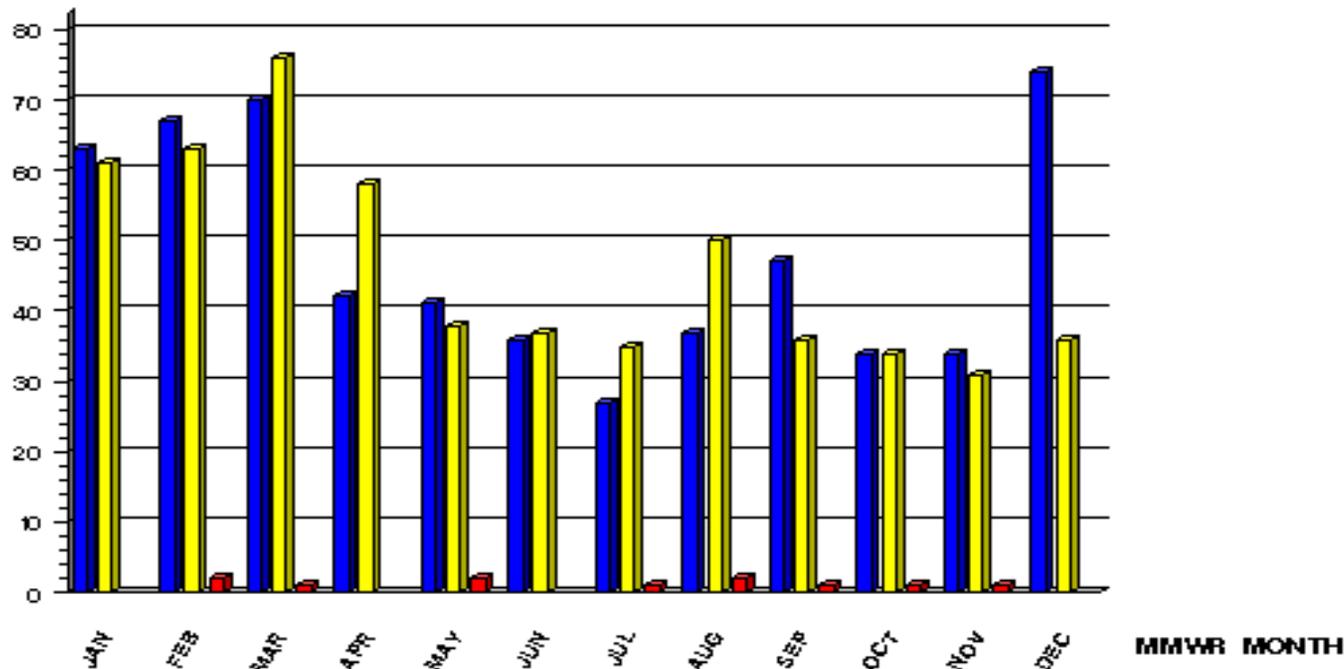
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NNDSS-Link histogram

**ANALYSIS OF GEORGIA BAC. MENIN & INV. RESPIR DIS. (BMIRD) DATA, YEAR= 2003, EVENT= ALL EVENTS
COUNTY= ALL COUNTIES, STATUS= ALL STATUSES, DATE TYPE= ALL DATE TYPES, SEX= ALL SEX VALUES
RACE= ALL RACE VALUES, ETHNICITY= ALL ETHNIC VALUES, IMPORTED= ALL IMPORTED VALUES, OUTBREAK ASSOCIATED= ALL OUTBREAK VALUES
TIME WINDOW= MMWR WEEKS 1 THROUGH 53**

CASE COUNT



SEX



FEMALE



MALE



UNKNOWN

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