What are our priorities?
The Pacific Northwest Agricultural Safety and Health Center (PNASH) is one of 11 agricultural research and prevention centers funded by the National Institute for Occupational Safety and Health (NIOSH). Founded in 1996, PNASH addresses local needs for our farming, fishing, and forestry work forces, and is now entering a new cycle (2016-2021) with multiple innovative research projects. PNASH works with partners in industry, labor, health services, professional organizations, and academia.

We focus on the needs of vulnerable populations including women, farmworkers, and immigrant forestry workers. Our current priorities include:

- Reducing exposure to high-risk pesticides in agricultural work and communities
- Preventing heat-related illness among agricultural workers
- Addressing serious injuries among dairy, forestry, and commercial fishing workers

What do we do?
- Conduct field studies to evaluate new technologies, controls, and practices to reduce hazards.
- Work with industry partners and employees to identify and design system and workplace-based solutions.
- Provide training workshops and tools for safety educators, health care providers, and industry professionals.
- Develop analytical systems for surveillance research that bridge multiple agency data to assess trends and address hazards.
- Practice community-based and participatory action research to understand priorities, and partner in the development of injury and illness prevention programs.
- Mentor students in Bachelor’s, Master’s and PhD degree projects.

What have we accomplished?
- Demonstrated through research that new tower sprayers can reduce pesticide drift up to 35%. In conducting this study, also developed novel methods for tracking pesticide drift using micronutrients.
- Released new forestry services educational resources in English and Spanish for employers and workers, including brief “Safety Talks.”
- Measured improvement in vineyard worker health (including BMI, fat, and blood pressure) with team participation in our new Total Worker Health® intervention, ”BeSuper! Agriculture.” In English and Spanish.
- Demonstrated the effectiveness of an Integrated Pest Management strategy for dairies to reduce dependence on pyrethroid pesticides for fly control. Resulted in adoption of the feed-through larvicide.
- Conducted an ergonomic evaluation with workers using new mobile platform technology in tree fruit. Results showed a reduction in ergonomic stressors and physical work demands compared to the use of orchard ladders.
- Launched Ag Medicine, a new elearning course and lecture series developed for mid-level providers. Free with CME/CNE credits available.

What’s next?
- Work with WA employers and workers on a work-based training curriculum and setting a national model to prevent sexual harassment for farmworker women. View video trailer.
- Provide a visual, interactive web-based data base, enhancing access to NW agricultural injury, demographic, and geographic data.
- Develop a drift determinant model to assist orchardists in assessing risks in certain weather conditions. We will be validating our data-driven research on the probability of pesticide drift with field studies.
- Introduce timely heat safety guidance to employers through an alert system hosted by partner, WSU Ag Weather Net.
- Deliver and evaluate a training program on Slips, Trip and Fall prevention to WA Dairies in English and Spanish.
- Collaborate with WA dairies and 100 newly employed workers to assess if there is a “healthy dairy” effect, where workers adapt and develop immune benefits. (See quote to right).