



Upper Midwest  
Agricultural Safety  
and Health Center

*Research  
Education  
Prevention*

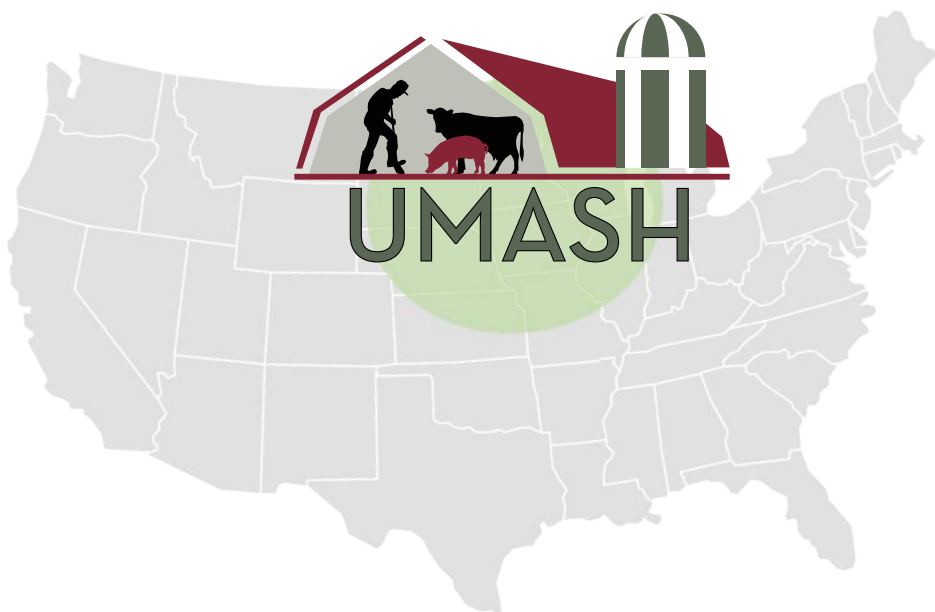


A CENTER OF  
EXCELLENCE DEDICATED TO  
**AGRICULTURAL HEALTH AND SAFETY**  
IN THE UPPER MIDWEST

[umash.umn.edu](http://umash.umn.edu)



*A collaboration of five leading research and health care institutions serving the Upper Midwest region.*



The Upper Midwest Agricultural Safety and Health Center is a collaboration of the University of Minnesota's School of Public Health and College of Veterinary Medicine, the National Farm Medicine Center of Marshfield Clinic, the Migrant Clinicians Network, and the Minnesota Department of Health.

This collaboration brings together unique and complimentary expertise to address existing and emerging occupational health and safety issues in agriculture.

UMASH is one of eleven U.S. Centers for Agricultural Safety and Health funded by the CDC's National Institute for Occupational Safety and Health (NIOSH). These centers support and protect the health, safety, and wellbeing of agricultural workers and their families in each of the regions they represent.

*UMASH is funded by a cooperative agreement from NIOSH, #U54OH010170.*

# AGRICULTURAL HEALTH AND SAFETY: *Healthy and Safe People in Sustainable Agriculture*

The mission of the Upper Midwest Agricultural Health and Safety Center (UMASH) is to improve the health and safety of agricultural workers, their families, and farm visitors in the Upper Midwest region.

## TO ACHIEVE THIS, WE:

- ✓ Provide free, readily accessible resources for farmers, agriculture workers, and their families. *(Many resources are available in Spanish.)*
- ✓ Focus on health and safety issues in the animal agriculture sector.
- ✓ Engage with members of agricultural communities, producers, educators, healthcare, agribusiness, and other health and safety advocates through in-person and virtual community forums.
- ✓ Support innovative partner projects to further the discussions and provide solutions for current and emerging issues.
- ✓ Give special attention to rural, migrant, women, and aging workers through research and translation, education and training, and outreach in the areas of:
  - » Zoonotic and Infectious Diseases
  - » Antimicrobial Resistance
  - » Safety and Injury Prevention
  - » Mental Health
  - » Agricultural Education
  - » Biosecurity
  - » Agritourism

## ONE HEALTH

UMASH embraces a **One Health** approach that recognizes the interconnectedness of human health, animal health, and the environment.

⇒ [umash.umn.edu/one-health](https://umash.umn.edu/one-health)



# RESPONDING TO THE NEED: *Agricultural Health and Safety in the Upper Midwest*

AGRICULTURE IS ESSENTIAL TO THE UPPER MIDWESTERN ECONOMY AND CULTURE.



Farming is the **largest industry in the Upper Midwest** and one of America's most important farming regions.<sup>1</sup>



~67% of the Upper Midwest geography is farmland, supporting **over 276,000** productive agriculture operations.<sup>1,3</sup>



The Upper Midwest is a **leader in animal agriculture**, especially pork, turkey, and dairy.

THE AGRICULTURE INDUSTRY FACES INCREASINGLY COMPLEX CHALLENGES AND RISKS.



Farming is one of the most **hazardous professions** in the U.S. with high rates of stress, injury, disease, depression, and death.



The industry is **rapidly changing**, and an aging and migrant workforce<sup>4</sup> imply future labor shortages.



**Antimicrobial resistance (AMR)** poses a threat to animal and human health, food safety and security, and the economy.<sup>2</sup>

PREPAREDNESS AND PREVENTION ARE KEY TO AGRICULTURAL RESILIENCE.



Most agricultural worker injuries are **preventable** with proper protective equipment and training.



Prevention is often **cheaper** than treatment of injury or disease and related productivity loss.



Innovation in **research, intervention, and outreach** can help the industry adapt to environmental and social change.

1: United States Department of Agriculture, (2017). 2017 Census Volume 1, Chapter 2: State Level Data. State Summary Highlights.

2: Jasovsky et al. (2016). Antimicrobial resistance—a threat to the world's sustainable development.

3: United States Census (2010). State Area Measurements and Internal Point Coordinates.

4: United States Department of Agriculture, Economic Research Service. (2019). Farm Labor.

# EDUCATION THROUGH AWARENESS: *Health and Safety on the Farm Resources*

UMASH provides fact sheets, videos, training materials, and other resources on a variety of agriculture health and safety topics, including:

- ✓ Agritourism
- ✓ Ag Educator Resources
- ✓ Farm Safety
- ✓ Biosecurity
- ✓ Dairy Worker Safety
- ✓ Dairy and Swine Handling
- ✓ Needlestick Prevention
- ✓ Stress and Mental Health



*UMASH resources are available to download and share free of charge for non-commercial, educational purposes.*

⇒ [umash.umn.edu/featured-resources](https://umash.umn.edu/featured-resources)

## ADDRESSING EMERGING ISSUES:

Through our Emerging Issues Program, UMASH identifies and responds to current, emerging or re-emerging issues that may impact the health and well-being of the agricultural workforce and their families.



**AGING ON  
THE FARM**



**STRESS AND  
MENTAL  
HEALTH**



**COVID-19**

⇒ [umash.umn.edu/emerging-issues](https://umash.umn.edu/emerging-issues)



*Connect with UMASH and learn more about health and safety on the farm...*



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