

Keeping Producers/Ag Workers and their Families Safe A Team Approach

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Injuries in Agriculture: The Big Picture

- Ag workers ~8 times more likely to die on the job than all other workers*
- 40% higher rate of non-fatal injuries*
- Animal agriculture workers have higher rates of injury than other ag workers 6.7 vs 5.5 injuries/100 workers*
- Costs of agricultural injuries are enormous;
 - \$7.6 Billion in medical and lost productivity costs*

Source: *Bureau of Labor Statistics #Derived from Leigh, et al. 2001





Silo and Grain Bin Deaths

Working Towards Farm Safety After 4th Grain Bin Fatality

by Grace Brandt Sep 18, 2019 20



LOCAL

Authorities: Central Minnesota man dies in fume-filled silo while trying to save brother, nephew

The brother and nephew were hospitalized after being found unconscious.

By Libor Jany Star Tribune DECEMBER 21, 2019 — 9:37PM

A man died after breathing toxic fumes Saturday in central Minnesota while trying to save his brother and nephew, who had fallen unconscious inside of a silo, according to the Douglas County Sheriff's Office.



Bring Me (MN) the News

Farmer trampled to death by cow in Otter Tail County

The 85 year old was trying to tag a calf.

ADAM UREN · APR 10, 2018









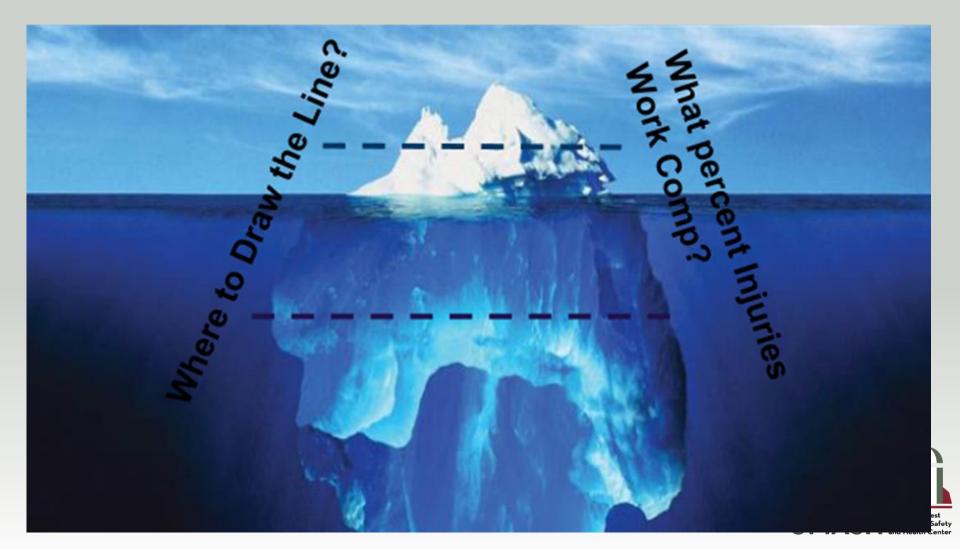


Most Commonly Reported Injuries/Fatalities Minnesota, 2017 - 2019

2017	2018	2019	
Equipment related (11)	Equipment related (13)	Grain bin/Silo (11)	
ATV/Skid steer (7)	Tractor (9)	Car/Tractor (9)	
Tractor (6)	Car/Tractor Incident (6)	Equipment related (8)	
Car/Tractor incidents (6)	ATV/Skid steer (5)	Tractor (4)	
Grain bin (1)	Grain bin (4)	ATV/Skid steer (2)	

Ag Injury News - https://www.aginjurynews.org/

Work Injury and Illness



Upper Midwest Agricultural Safety and Health Center



Funding from the National Institute for Occupational Safety and Health



Evolving Challenges

- Farmers face multifaceted challenges
- Need to be responsive to the evolving conditions of farming
 - Changing climatic conditions
 - Economics
 - Diseases



Support Collaborative and Novel Approaches



GRAIN HANDLING SAFETY CHECKLIST

Potential Hazard	Yes	Needs Correction	Date Corrected or Notes
Has equipment been powered off at main disconnect and locked and tagged?			
If there is potential for combustible gas, vapors or toxic agents, has the oxygen level been tested with a gas monitor?			
Is a rope and harness available for anyone entering a grain bin?			
If a worker enters, is an observer present and in communication?			
Is the observer trained and able to initiate rescue?			
Is rescue equipment provided and specifically suited for entry?			
Are there NIOSH approved masks or respirators available?			
Are grain and feed bins clearly labeled to warn of the hazards of flowing grain or feed?			
Do all bins have permanent ladders inside and outside?			
Are hearing protectors available for wearing around noisy equipment?			
Are equipment guards and shields in place and in good condition?			





Other Collaborative Projects

- Stress and Mental Health
- Volunteer Fire
 Department Training
- Animal Handling Education
- Transmission of airborne viruses
- Immigrant worker training



Create Responsive Team for the Emerging Issues

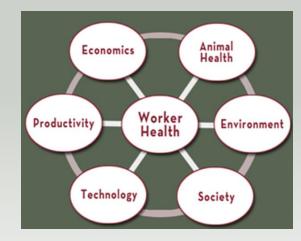
- Educators
- Community leaders
- Extension
- Health care providers
- Veterinarians
- Nutritionists
- Industrial hygienist
- Others?





Summary Thoughts

- Support broad initiatives (i.e. training, education, outreach) with the varied challenges impacting farmers
- Create multidisciplinary teams to:
 - Understand farming/community
 - Identify hazards
 - Provide appropriate
 prevention/control measures





Questions?





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