



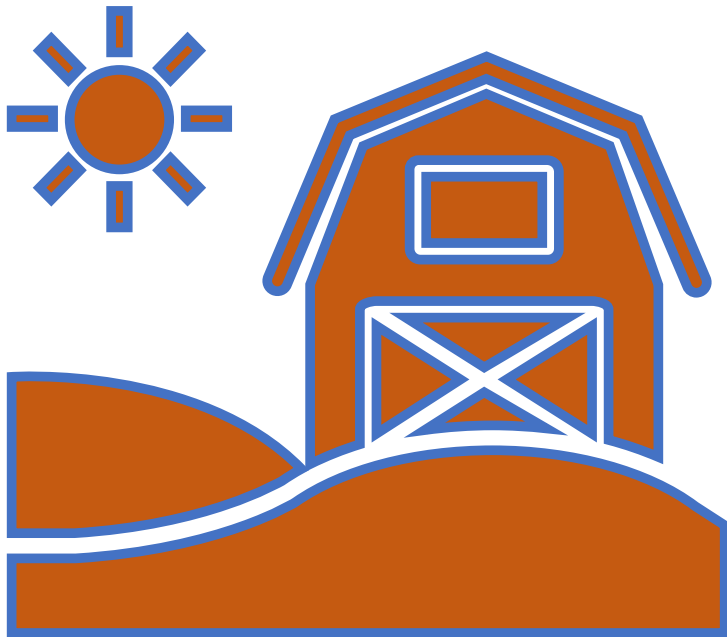
Integrating Safety and Health into Health Care Practice

Producers Perspective

Carolyn Sheridan RN, BSN, COHC
Executive Director, Founder
Ag Health and Safety Alliance



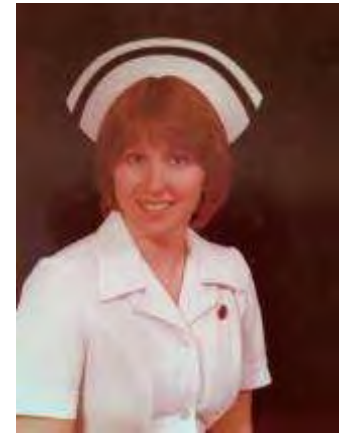
The Power of Ag Producers



- Farmers and farm workers contribute billions of dollars to our economy.
- They have a love of land, community, and heritage.
- Risks are an accepted trait.
- Farmers are self-reliant, stoic and determined to succeed.
- Agriculture includes multi – generations.
- Agriculture includes a wide range of types of operations:
 - family-owned farms, large scale farms, workers and ag businesses.

My Story

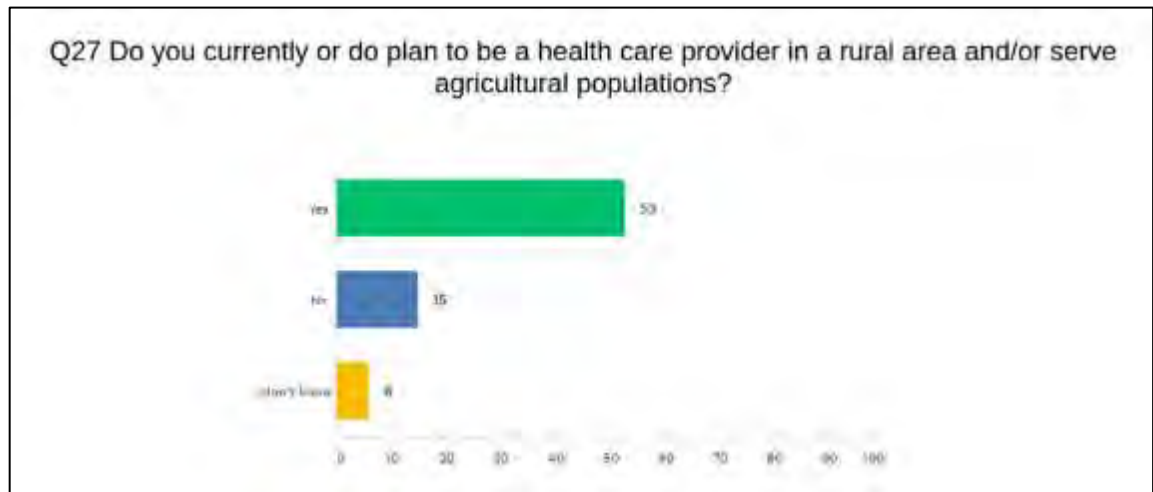
- Farmer, Daughter, Wife, Mother, Grandmother
- CNA, EMT
- Registered Nurse
 - Med Surg
 - Obstetrics
 - Dialysis Director
- AgriSafe of Spencer Hospital
 - College Ag Program
 - 4-7 Program
 - Local clinic
 - Farm Safety Day Camps
- National Program
- Ag Health and Safety Alliance
 - Ag Medicine Training
 - Focus on the next generation of Agriculture





Rural Versus Urban

- Consider the following:
 - ✓ Location
 - ✓ Population
 - ✓ Occupations
 - ✓ Health Care Providers



Health and Safety Issues in Agriculture

Understand what our hazards and exposures are and the risks we are taking to feed the world.

- Respiratory exposures
- Zoonotic disease
- Chemicals / Pesticides
- Sun exposures
- Noise
- Stress
- Musculoskeletal injuries
- Veterinary pharmaceuticals
- Hazardous equipment
- Acute and chronic trauma
- Grain bins
- Ladders, slips, trips and falls

Challenges

Challenges for the ag population seeking care from health care providers in rural agricultural communities:

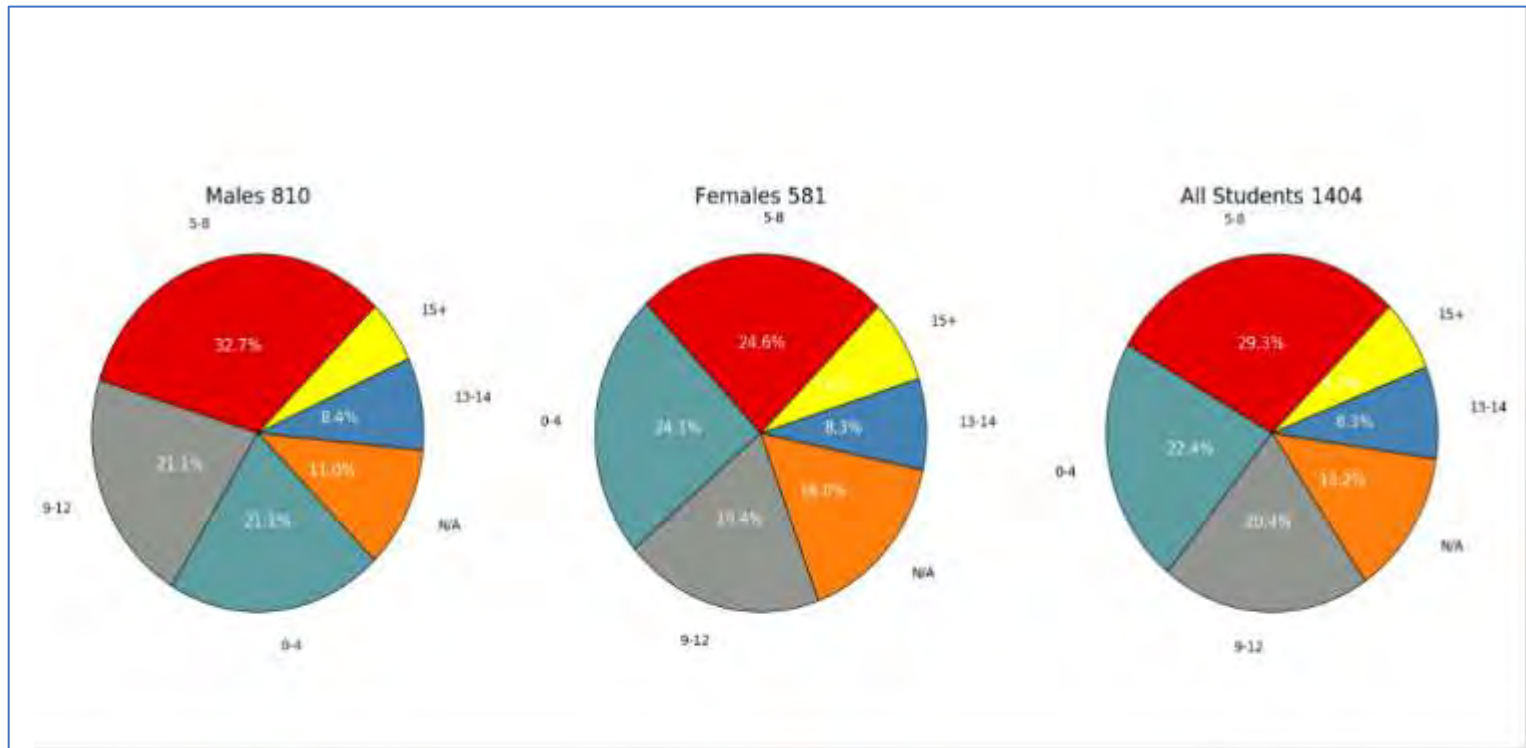
- Few Ag businesses and large Ag operations have identified safety managers
- Health care providers may have limited access to education and training in ag medicine
- Health care providers have limited resources related to agricultural prevention strategies
- Regulations change and we are required to perform our jobs differently.



We Need Trained Agricultural Health Care Providers

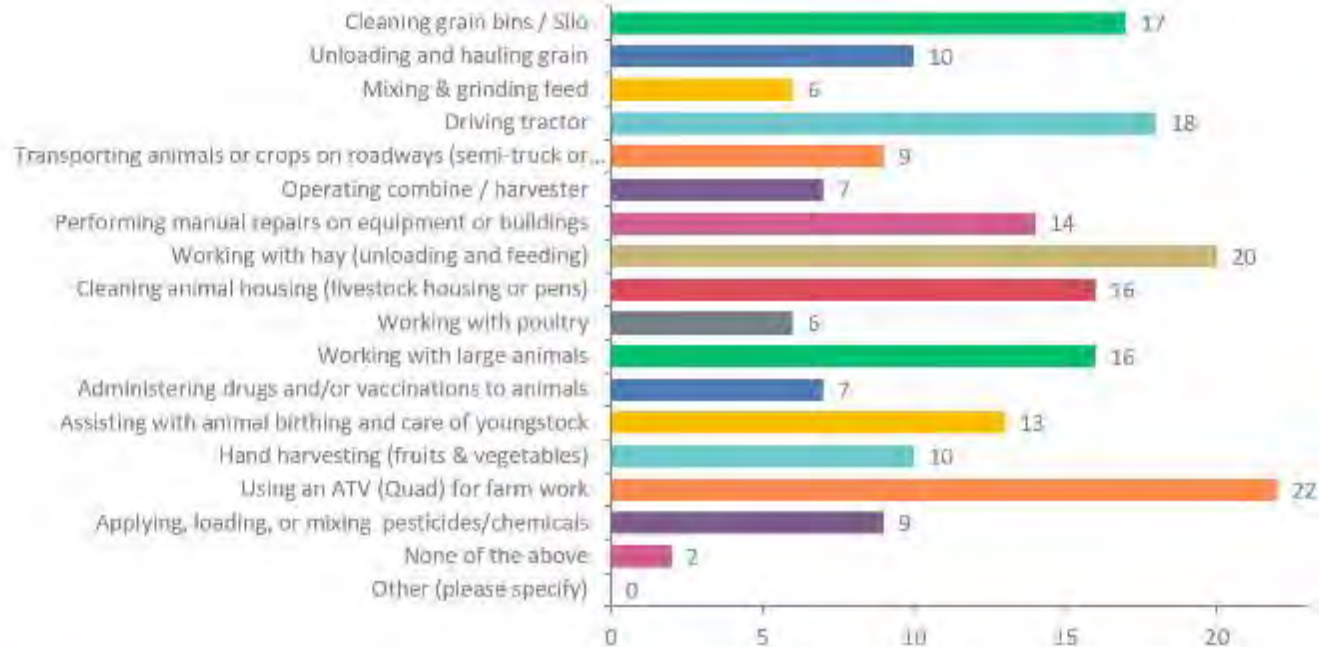
- The health care community has little, if any, training in agricultural occupational health.
- Knowledge of farm exposures, ergonomics, work practices, social/cultural differences, economics, and health care utilization can improve the health of the farming community.

Q4: How old were you when you first started helping/working on the farm?



Q25: Please check the farming activities you participated in before the age of 14.

Answered: 29 Skipped: 1

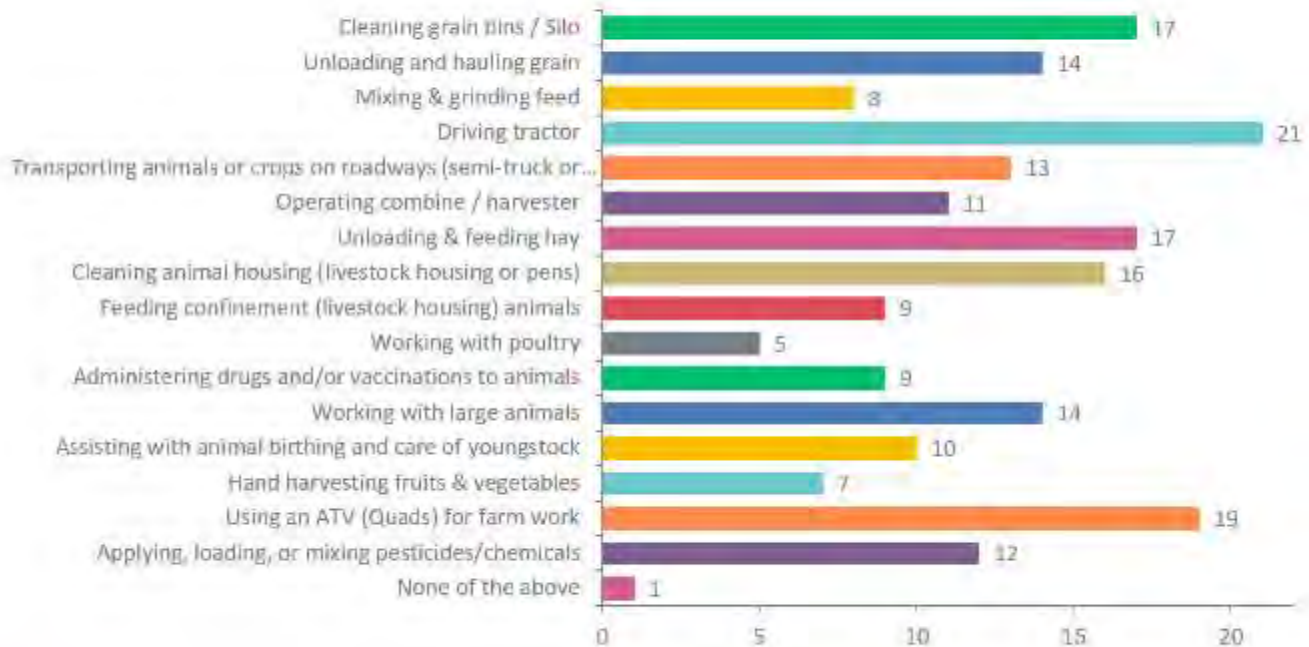


Powered by  SurveyMonkey

WHAT ACTIVITIES DID YOU PARTICIPATE IN BEFORE THE AGE OF 14?

Q26: Please check the farming activities you participated in the past 12 months.

Answered: 28 Skipped: 2

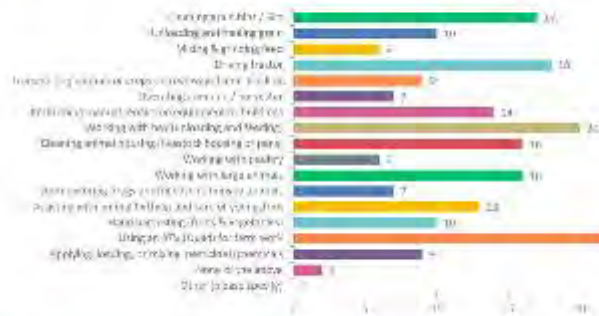


Powered by  SurveyMonkey

Q5: WHAT ACTIVITIES DID YOU PARTICIPATE IN THE LAST 12 MONTHS?

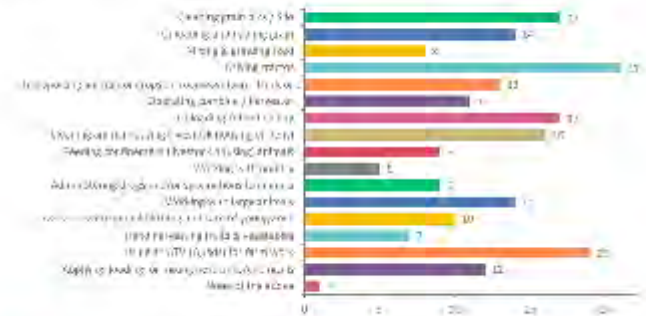
Q25: Please check the farming activities you participated in before the age of 14.

Answered: 25 (100%)

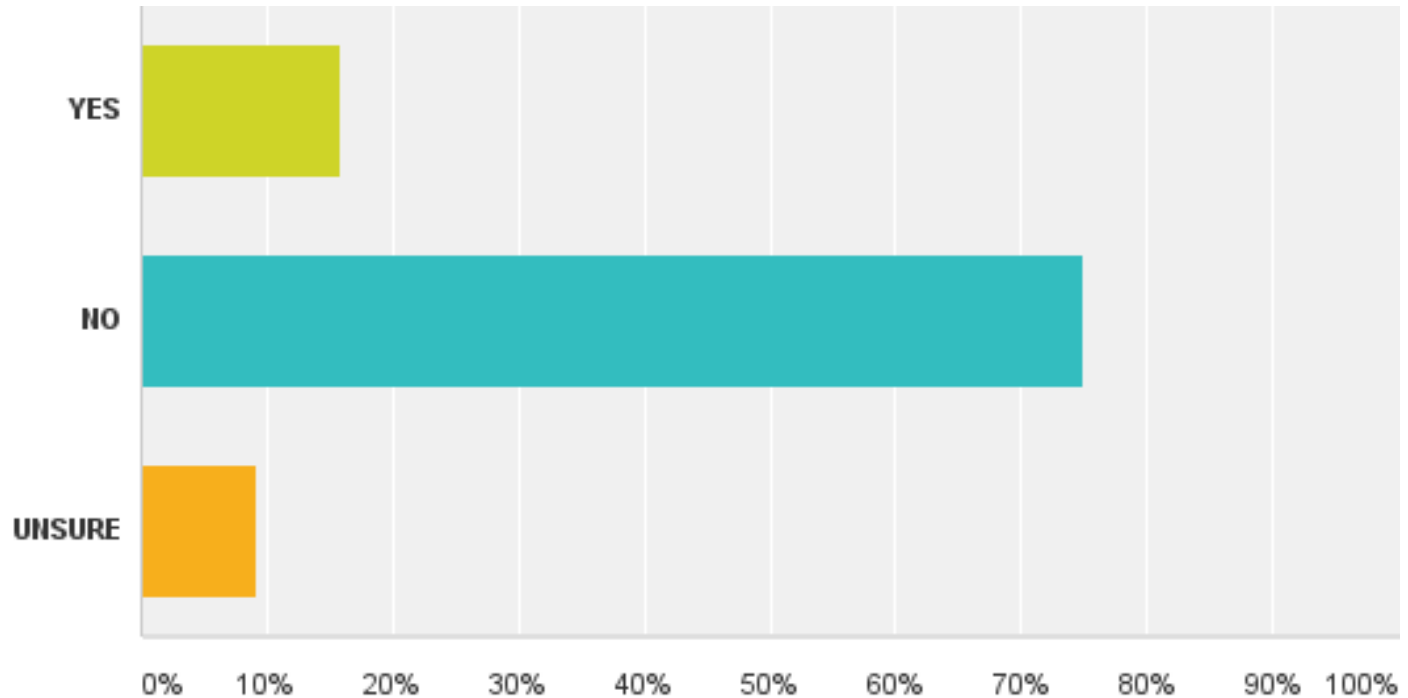


Q26: Please check the farming activities you participated in the past 12 months.

Answered: 20 (100%)



**VERY SIMILAR
BEFORE 14
YOUNG ADULT**



Has your doctor or other healthcare provider discussed farm-related health or safety injuries or illness with you?

Continuum of life

All stages of life can be impacted when we are living and working in the agricultural workplace which is also our home.





Continuum
of Life



Extended
Families

Next Generations



PRIORITIES



Ways, we can protect ourselves from hazards in the best-case scenario.



- Situational awareness
- Attention to hazards
- Windows of increased risk (harvest)
- Apply managerial skills to health and safety for overall well being
- Have a plan for external demands while maintaining health.

Hierarchy of Controls

What does that mean to us?
Where does PPE fit?



Engineering Controls

Previous survey results from >800 Midwestern young adults in the AHSA Gear Up for Ag™ Program show that 56% have rolled an ATV, yet 76% report allowing extra riders and only 18% report wearing helmets when operating the device

Student Pre Surveys
Questions related to ATVs are part of the Standardized Gear Up for Ag™ pre and post survey.

1574 of **2252**
intermediate-level students took the pre survey

56% have rolled an ATV/Quad

17% never | **59%** sometimes | **19%** always allow extra riders when operating an ATV/Quad

76% never | **18%** sometimes | **18%** always wear a helmet when operating or riding an ATV/Quad

Pre Survey Data provides understanding of how students are doing prior to the delivery of the program.

Sharing real data with students gives us the opportunity to open up discussion about the statistics visible in the program.

www.aghealthandsafety.com

GearUp
for Ag Health & Safety™

**Crush Protection Device (CPD)
as a Strategy to Prevent ATV Fatalities and Injuries**

The Ag Health and Safety Alliance's Gear Up for Ag Health and Safety™ program focuses on educating the next generation of agriculture by interacting with students at Ag colleges and high schools.

Data from the Ag Health and Safety Alliance's standardized survey indicates there is a need for increased attention to ATV safety.

Crush Protection Device (CPD)

- Helmets
- No Extra Riders
- Personal Protective Equipment (PPE)

Ag Health and Safety Objectives:

- 1. Agricultural and Occupational Health and Safety education equips the user of CPDs on ATVs through safety education and awareness.
- 2. Equip and safety messages are conveyed to the users of CPDs on ATVs.
- 3. ATV industry results (RIS on ATVs) similar to ROPS on tractors.
- 4. Development of CPD engineering standard.

Traditionally, a hierarchy of controls has been used as a means of determining how to best control a risk and reduce or eliminate it. The Crush Protection Device (CPD) on an ATV is a control for ATVs that is used as a control to prevent, reduce, or eliminate the risk of injury and fatality for ATVs based on the use of ROPS on tractors. Control hierarchy reduction focuses primarily on the use of controls. PPE is not always available.

Student Post Surveys
264 students completed the post survey. Since the Gear Up for Ag™ program, students reported the following:

20% never | **49%** sometimes | **17%** always allow extra riders when operating an ATV/Quad

16% never | **64%** sometimes | **14%** always wear a helmet when operating or riding an ATV/Quad

Starting in October 2016, additional education and a post survey question related to the use of a Crush Protection Device was included in the Gear Up for Ag™ program.

How likely are you to get a Crush Protection Device for your ATV? Of the **166** students who took the updated post survey, **6%** stated they are very likely to get a CPD, and **25%** somewhat likely to get a CPD.

Resources
Addition of CPD to educational displays and materials

Use of Appropriate Personal Protective Equipment



We want Choice and Comfort

What are your hazards?

What Personal Protective Equipment (PPE) do you need?

Head ✓ 3" Brim ✓ ANSI Z89.1 ✓ CSA Z94.1	<ul style="list-style-type: none"> Sun Safe Hat - COST varies <i>Donated by Coaldhar - Value is \$89</i> Hard Hat - COST Varies 	
Eyes ✓ Right Size & Shape ✓ 99% - 100% UVA/UVB ✓ ANSI Z87.1/ CSA Z94.3	<ul style="list-style-type: none"> Safety Glasses Clear - COST: \$2.10 Safety Glasses Tinted - COST: \$3.25 3M™ SecureFit with foam COST: \$ 8.50 Goggles COSTS: Honeywell Uvex Futura COST - \$12.50 Honeywell Uvex Stealth® COST - \$18.00 Welding Helmet: COST varies 	
Ears ✓ NRR Rating ✓ Noise above 85dB ✓ Good fit	<ul style="list-style-type: none"> Earsplugs (3M Pelton) COST: \$17.00 Ear Plugs: COST: \$2.00 per pair for non-truck type Moldex Rock bands - Cost: \$6.50 each 	
Body ✓ Read Label	<ul style="list-style-type: none"> Reusable chemical resistant gloves COST: \$2.20 each Single Use chemical resistant gloves: COST: \$25 box of 50 pairs/ \$.05 pair Chemical Resistant Boots: COST varies Coverall- COST: \$8 - \$10 each 	
Skin ✓ SPF 30 ✓ UPF 30	<ul style="list-style-type: none"> Sun Safe Hat - COST varies <i>Donated by Coaldhar (Value is \$89)</i> Sun Safe Clothing- COST varies Sunscreen - COST varies 	
Feet ✓ ASTM F-2412 1905 ✓ Chemical Resistant	<ul style="list-style-type: none"> Work Shoes Steel Toed Shoes Chemical Resistant Boots Crampon Ice cleats COST for all items varies 	

Prevention Strategies

Q19 I would find value in receiving personal protective equipment such as hearing protection, chemical gloves, coverall, respirator and safety glasses.



Appropriate Respiratory Protection

- Understand Respiratory Hazards
- Engineering controls- what is feasible
- Avoid High Risk Exposures if Possible
- **Protection – how can you help?**
 - Understand what is the right mask for the job so you can help us.
 - The right fit for the mask. Be able to do fit testing.
 - Are masks available? Find out where so you can help us find the right respirator.
 - Be able to education us on the care, maintenance and storage of respirators.



Respirator Fit Testing Business Case

Community-Based Respirator Fit Testing

Respirator fit testing is a growing need in many agricultural communities due to changes in the Worker Protection Standard requirements for producers who apply pesticides. Respirator fit testing is also important for other types of exposures, but many communities do not have someone who is trained to perform fit testing.

One individual may have the capacity to perform all aspects of the respirator fit test including administering the questionnaire, review of the medical questionnaire, medical evaluation and perform the fit test but this is not common. In most cases people will need to rely on more than one individual to accomplish having a respirator fit test that complies with OSHA standards. This will require building a network consisting of individuals and organizations to ensure individuals can easily receive a respirator fit test. The chart on the previous page provides appropriate roles and responsibilities for a variety of individuals and professionals that may be responsible for respirator fit testing. Two different examples of how these individuals can work together are as follows:

Example #1 ABC Manufacturing Company

- ABC Manufacturing Company determines their employees need a respirator fit test and implements a Respiratory Fit Test Program.
- The Safety Officer at ABC Manufacturing Company administers the medical questionnaire.
- A registered nurse (RN) or licensed health care professional (LHCP) reviews the medical questionnaire to determine if a medical evaluation is required.
- A local physician does the medical evaluation for the employee(s).
- The safety officer at ABC Manufacturing Company is qualified to perform respirator fit testing.
- The safety officer establishes and maintains a Respiratory Program per OSHA requirements. This includes education, respirator cleaning, storage and cartridge changing schedule.



Example #2 Farmer Swanson Applies Pesticides

- Farmer Swanson determines his family members need a respirator fit test based on the pesticide label.
- Farmer Swanson contacts his health care provider (HCP Office) to find out how to get a respirator fit test.
- The HCP Office discusses the need for a medical questionnaire to be completed with Farmer Swanson. She/he directs Farmer Swanson pick up the medical questionnaire or sends it by mail or email to Farmer Swanson and his family members.
- Farmer Swanson and family members complete the medical questionnaire and return it to the HCP Office.



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Community-based Respirator Fit Testing Business Case

Finding a way to make respirator fit testing accessible in communities can be challenging. In many cases, several organizations and/or individuals may need to be involved to accomplish a respirator fit test program that complies with OSHA and/or the Worker Protection Standard.

Having all aspects of respirator fit testing in one organization is the easiest but not always feasible. A health care provider has the potential to have this ability by having an individual(s) trained in performing respirator fit testing within the office.

In other scenarios, someone trained in fit testing would refer to a health care provider for the medical evaluation services. In all scenarios, communication, networking and establishing a fee structure is important. The following items will most likely require some type of fee for service structure:

- Medical evaluation questionnaire review
- Medical evaluation (this may include a physical and a lung function test)
- Respirator Fit Test
- Respirator use education
- Respirator program administration
- Retail sales of respirator supplies

Fit testing a respirator is an important part of the entire process of appropriate respiratory protection. Other aspects of respirator fit testing include the availability of respirators and cartridges for specific respiratory hazards. Individuals or health care providers who perform respirator fit testing and assist with the administration of a respirator program are many times also the resource for assisting the individual in finding the right respirator and purchasing decisions. Creating a community-based respirator fit test model will assist in making certain that all aspects of appropriate respirator protection are available.

Questionnaire

Community-based Respirator Fit Test Program Planning

When establishing a community-based respirator fit testing in your community consider the following items:

1. What are your qualifications? (Safety officer, nurse, pharmacist, farmer, farm wife, physician, nurse practitioner)
Are you willing and able to administer the OSHA Medical Questionnaire? Yes / No
If no, who can administer this questionnaire?
2. Are you qualified and willing to review the medical questionnaire? Yes / No
If no, who can review the medical questionnaire?
3. Are you qualified and willing to perform the medical evaluation? Yes / No
If no, who can perform the medical evaluation?
4. Do you plan to perform respirator fit tests in your community? Yes / No
If no, who would be able to do this?
5. Are you confident in your ability to recommend appropriate respiratory protection? Yes / No
If no, who would be your resource to recommend appropriate respirator protection?
6. List the organizations or individuals who would be part of your community-based respirator fit testing:
 - a. Medical professional _____
 - b. Safety professional _____
 - c. Professional Licensed Health Care Providers (PLHCP) _____

 - d. Others _____
7. Where can people purchase respiratory protection in your community?
 - a. Research what respirators are available in the community
 - b. Make a list (including prices) for people seeking fit testing
 - c. If respiratory protection is not available or is limited in your community, where else can people buy respiratory protection.
8. Do you know the cost of respirators of all types? Yes / No
 - a. Make a list of respirators commonly used
 - b. Research local and online prices of respirators

Have good resources available that are easy to follow.

Respirator Selection Quick Reference Guide

In agriculture, you may encounter hazardous particles in the air while you are working. A respirator can protect you from breathing in these particles.

To select and use the appropriate respirator:

- ✓ Identify the hazard
- ✓ Understand the hazard
- ✓ Select the appropriate respirator
- ✓ Use NIOSH approved respirators
- ✓ Have your respirator fit tested
- ✓ Do a user seal check

NIOSH Approved: A respirator must be certified by the National Institute for Occupational Health and Safety (NIOSH) and worn properly to provide appropriate protection. NIOSH's classification ratings describe the ability of the device to protect the wearer from dust and liquid droplets in the air.

Disposable Respirators

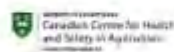
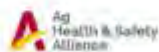
Generally single use but repurposing may be appropriate in some situations.

N95 filtering facepiece respirators are the most common types of disposable respirators. They are used in agriculture for working with hay, handling grain, in livestock housing, with infected livestock, and while welding or shop work. They are also recommended for use when working with moldy materials. Certain types of pesticide labels will recommend the use of N95 respirators.

Disposable Respirator Examples						
Uses	Organic Dust, Mold, Livestock, Healthy Hogs, Cattle, Hog Grain, Woodworking, Pesticide Handling (only tubular, 2-piece), Disease Prevention					Welding, Grinding, Metal Work
Benefits	<ul style="list-style-type: none"> • Light weight • Easy to use • Comfortable 	<ul style="list-style-type: none"> • Excellent value • Small face shape • Nylon packaging 	<ul style="list-style-type: none"> • Excellent value • Good fit over most points of wear • Good for large face shapes 	<ul style="list-style-type: none"> • Excellent value • Good for use with all eyes • Good seal • Tracheal sealant 	<ul style="list-style-type: none"> • Excellent value • Good straps • Longer use • Good seal • Tracheal sealant 	<ul style="list-style-type: none"> • Excellent value • Excellent option for welders • Flame resistant construction
Particulate Filter Types: NIOSH-approved filters are listed as 95, 99, P95, P99, P99.9, P100, P100.1, P100.2, P100.3, P100.4, P100.5, P100.6, P100.7, P100.8, P100.9, P100.10, P100.11, P100.12, P100.13, P100.14, P100.15, P100.16, P100.17, P100.18, P100.19, P100.20, P100.21, P100.22, P100.23, P100.24, P100.25, P100.26, P100.27, P100.28, P100.29, P100.30, P100.31, P100.32, P100.33, P100.34, P100.35, P100.36, P100.37, P100.38, P100.39, P100.40, P100.41, P100.42, P100.43, P100.44, P100.45, P100.46, P100.47, P100.48, P100.49, P100.50, P100.51, P100.52, P100.53, P100.54, P100.55, P100.56, P100.57, P100.58, P100.59, P100.60, P100.61, P100.62, P100.63, P100.64, P100.65, P100.66, P100.67, P100.68, P100.69, P100.70, P100.71, P100.72, P100.73, P100.74, P100.75, P100.76, P100.77, P100.78, P100.79, P100.80, P100.81, P100.82, P100.83, P100.84, P100.85, P100.86, P100.87, P100.88, P100.89, P100.90, P100.91, P100.92, P100.93, P100.94, P100.95, P100.96, P100.97, P100.98, P100.99, P100.100. The number 95, 99 or 100 (99.97%) indicates the percent NIOSH filtration efficiency. N-Series: Used for particulate environments free of oil aerosols. P-Series: Used for oil and non-oil particles with true size distributions approved by NIOSH. P-Series: Used for oil and non-oil particles with true size distributions specified by manufacturer.						
Exhalation valves are designed to improve breathability by allowing hot, humid exhaled breath to quickly exit the filter media and reduce heat build-up and moisture inside the facepiece. They can help prevent fogging of glasses. An exhalation valve can also prevent the inhalation of vapors and should not be worn for protection during a pandemic.						

Non-Respirator

These mask types are not certified by NIOSH for use as a respirator and will not provide protection from occupational or agricultural hazards. They are only effective for nuisance dusts and can help prevent the spread of viruses.



Reusable Respirators

Reusable Respirators are cost effective options that offer protection from hazardous gases, vapors, and particles found in many agricultural environments.

Half Facepiece
Different sizes available, can add cartridges.



Full Facepiece
Includes eye protection and provides more protection.



Cartridge Options	P100 Pink or White		Organic Dust, Grain, Feeds, Hogs, Poultry, Welding, Mold, Woodworking, Shopwork
	Particulate Pre-Filter		Can be used with the gas cartridges below to also filter particulates.
	Organic Vapor Black		Pesticides, Paints Use Pre-Filter/Fiber Cover
	Amonia Green		Anhydrous Ammonia (rescue to exit situations), Hogs, Poultry Use Pre-Filter/Fiber Cover
	Organic Vapor Acid Gas Yellow		Paints, Disinfectants, Bleach Use Pre-Filter/Fiber Cover
	Multi Gas Blue		Paints, Disinfectants, Bleach Use Pre-Filter/Fiber Cover

Remember: Schedule times to change your cartridges based on all the variables on the product label. Schedule times become difficult to track, so it's better you take note or wear the facepiece.

Advanced Respirators

Powered Air Purified Respirator (PAPR)

Use for cleaning out grain bins, working with hay, in dirty livestock buildings, shop work (grinding, cutting, power washing, pesticide handling) (with cartridges if label specifies). Can be used with a heated or medical condition such as asthma, claustrophobia, heart, or lung conditions.



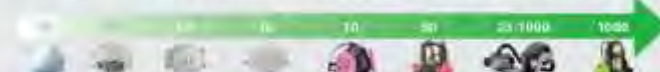
Self-Contained Breathing Apparatus (SCBA)

Use in confined spaces that may be low in oxygen such as storage bins, tankers, and manure pits with high levels of hydrogen sulfide. An SCBA should be used in situations where airborne hazards are immediately dangerous to life and health.



Assigned Protection Factor

The assigned protection factor (APF) describes the decrease of harmful substances in inhaled air. It is used to describe how well a respirator can protect someone. The higher the number the higher the APF. The protection factor is only true if the respirator fits the wearer and is being used properly.



Respirator Fit Test: Everyone has a unique face size and shape. A fit test should be conducted by qualified personnel before an individual wears the respirator in a hazardous environment.

User Seal Check: Do not confuse a fit test with a user seal check. Once you have identified a fitting respirator, a "seal check" should be performed each time you wear the respirator to make sure it is properly on the face and adjust as needed.

Pesticides

Have the ability to help us read the label or MSDS/SDS

Information on Personal Protective Equipment

I am thinking about application rate not the precautionary statement.

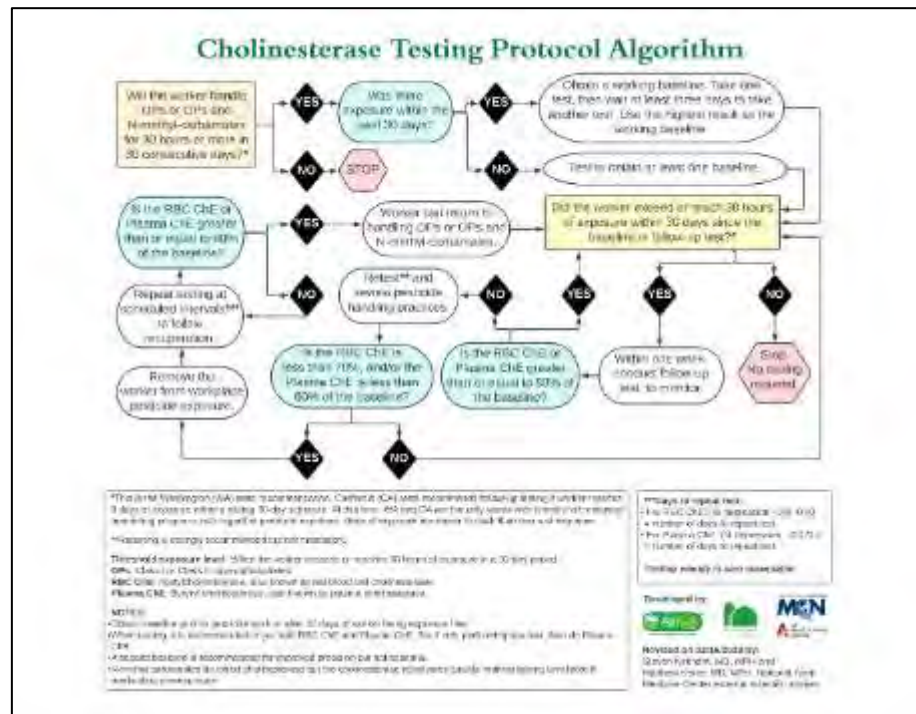
Ask me the right questions: Have you been applying pesticides?



Understand the Cholinesterase Protocol

Ask me what pesticides I use. Know if I should be tested.

- Whom to Test?
- Testing
- Post Exposure Testing
- Medical Removal
- Level of Return to Handling
- Review of Handling Practices



Personal Protective Equipment Fit, Education and Sales



Availability -Information

Agricultural Occupational Health

- Identification of High-Risk Areas
 - Producer /worker
 - Young adults
 - Women in agriculture
 - Older adults
 - Spouse, children, other family members



Occupational Health Services

Know the difference between Occupational and Agricultural Health Services

Agricultural Specific Screening Services

- Occupational History
- Lung Function screening
- Hearing Test
- Skin Cancer Screening
- Back/Spine Lifting Safety Assessment
- Cholinesterase
- Tetanus Immunization

General Health Screening Services

- Height/weight evaluation
- Blood Pressure
- Cholesterol

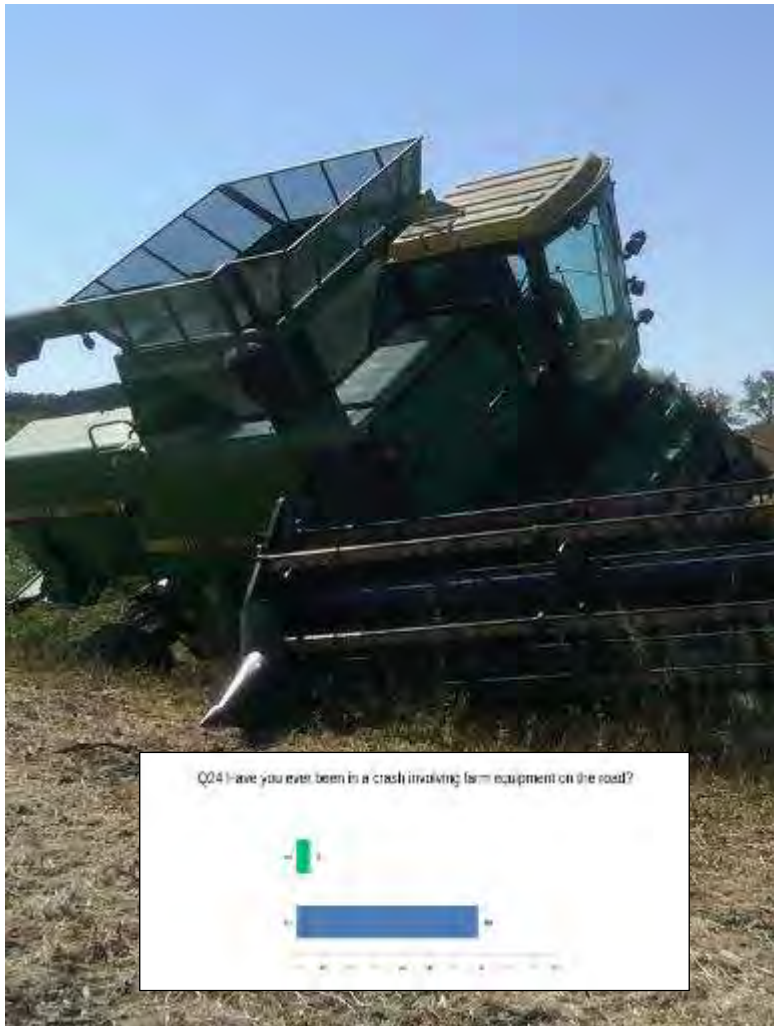


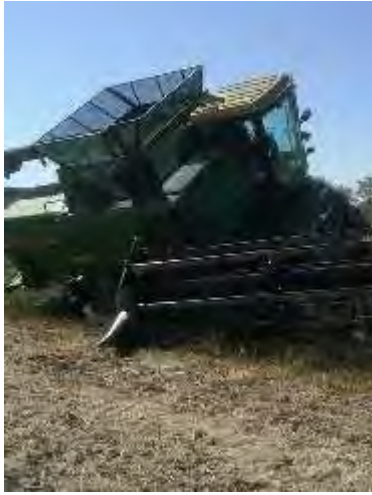
Where I Seek CARE

- Family Physicians
 - Nurses
- Advanced Practice Nurse
- Nurse Practitioner
- Hospitals
- Public Health
- Emergency Departments
- Specialists
 - Ear/Nose/ Throat
 - Pulmonologists
 - Audiologists
- Chiropractor
- Mental Health Services
- Pharmacists
- Social Services
- Occupational Health
- Public Health Nurses
- *Veterinarian*

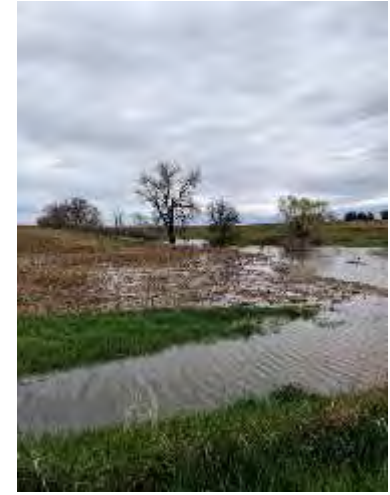
Natural Disasters & Man made Disasters

Q25 Have you ever been in a near-miss incident with farm equipment on the road?





Outcomes



Immediate

- Safety
- Reaction to event (neighbors, family, friends)

Immediate

- Stress
- Reaction to event (neighbors, family, friends)
- Watching and Waiting

Short term

- Harvest
- Stress
- Insurance

Short term

- Stress
- Modify established farming practice
- Crop Insurance

Long term

- Financial
- Behavior change
- Motivators (Experience? Incentives?)

Long term

- Stress
- Modify established farming practice
- Crop Insurance
- Financial



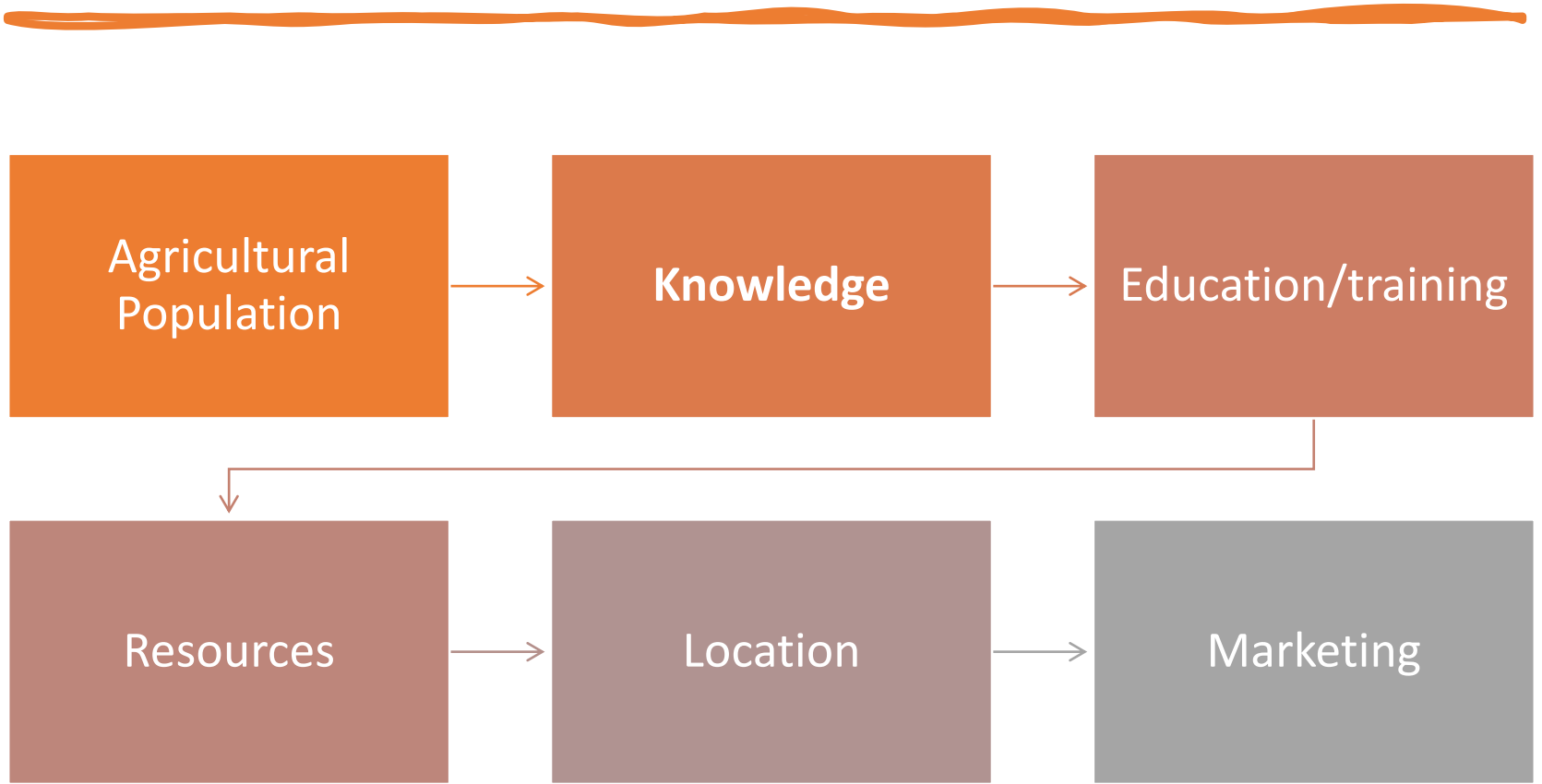
INTEGRATING AGRICULTURAL HEALTH INTO EXISTING SERVICES

What you can do to help us.

- Provide services that fit the need in your area.
- Include Ag specific questions in exam
- Research what is currently available in PPE
- Review current literature
- Incorporate element of preventive health care into current job
- Be a reliable resource
- Have appropriate products available
- Find ways to ask what they need & want
- Be the expert
- Know what is happening in agriculture
- Learn how to do fit testing



IMPORTANT STEPS IN DEVELOPING AGRICULTURAL HEALTH AND SAFETY SERVICES



SERVICE LOCATIONS

- Commodity Groups Meetings/conferences
- Pesticide Applicator Training
- Farm Association Meetings/conferences
- Grain Elevators
- County Fairs
- Seed Dealers
- Stockyards
- Machine Dealerships

Example: Clay County Fair

9 days

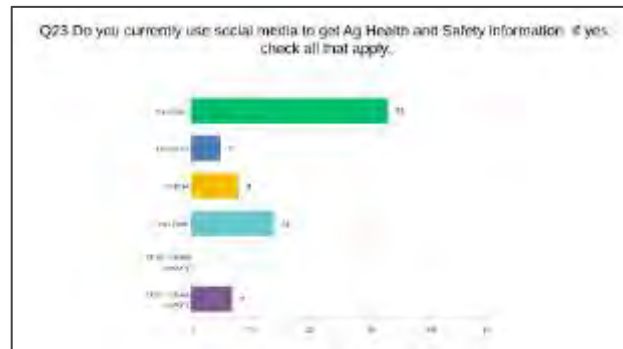
\$7000 PPE Sales

Contacts



Health and Safety Messages

- Social Networking
 - Facebook – live streaming
 - Instagram
 - Snap Chat
 - Blogs
 - Twitter
- Radio Show
- Internet Newsletters
- Displays in new places
- Online catalogs and ordering
- New Partners



Ag Health and Safety Alliance
RESOURCES

Check out our website and online RESOURCES

Thank you for your interest in our resources! We hope you find them helpful. If you have any questions, please contact us at 800.455.4622. We have a great resource available for the agriculture population.

Motion Graphics

360/VR Resources

Ag Health & Safety Alliance

GearUp for Ag Health & Safety

Ag Health and Safety Alliance
Published by Carolyn Sheridan · 20m · 10

Last week on Ag in the Attitudes Al Tews and Carolyn Sheridan talked about July 4th safety and the importance of Farm First Aid Kits. Join them today for "But 2 - First Aid Kits for Agriculture" to learn more specific information on having the right first aid kit for your farm because for you, related to farm-related injuries is critical.

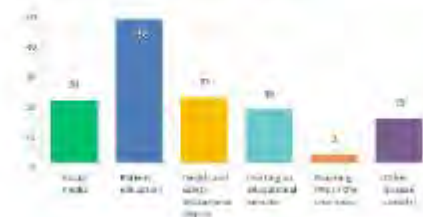
Certain conditions exist on a farm that can turn a minor injury into a life-threatening situation before professional medical treatment is available. Agriculture injuries often occur at remote locations and go undetected for long periods of time. Being prepared for medical emergencies and knowing the basics of first response can help minimize the extent of injuries.

To find out what kind of injuries are happening in your community and region visit the National Farm Medicine Center Ag Injury News: <http://www.aginjurynews.org> website.

For more information and resources - read the photo captions with this post: Upper Midwest Agricultural Safety and Health Center Agriculture National Emergency Center for Agricultural Safety

Ag Health & Safety Alliance

Q29 How do you plan to share your Ag Health and Safety knowledge with your patients?



Pick something

SOMETHING!

Anything

DO SOMETHING

DO

Just

To Do List

Learn about Ag in your region

Demonstration PPE

Find out what PPE is available locally

Set up programs

Be the expert at something (hearing, respiratory, PPE)

Network

Resources

GearUp

for Ag Health & Safety™



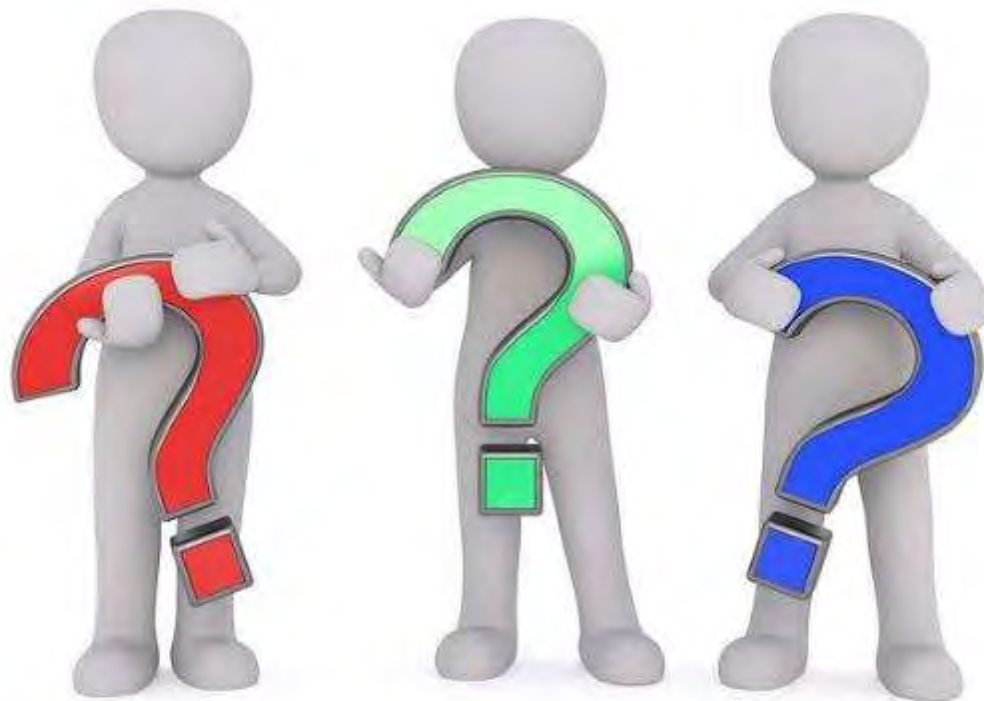
Protection From Hazards

Farming as an Occupation

Not just a Life Style

Work Place is also Home





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