

OSUE Agricultural Safety and Health Resource Catalog

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Safety  *Live With It!*
The Agricultural Safety and Health Program



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REQUEST INFORMATION

If you have questions or are interested in obtaining any of the resources in this publication, please email Kathy Henwood, henwood.13@osu.edu or contact her by phone, 614-292-0622.

I. Educational Props

Props available to add a visual aid to any presentation.

Dermascan

Instrument for viewing sun-exposed areas to provide a screening of potential problem areas. DOES NOT DIAGNOSE SKIN CANCER.

Grain Bin

Small-scale grain bin, with clear side to demonstrate the effect of grain flow. Can also be used to demonstrate grain engulfment/entrapment. Volume of grain bin is approximately 3 gallons. Corresponding lesson plan is also available.

Gravity Wagon

Small-scale gravity wagon with clear sides to demonstrate grain flow, engulfment/entrapment. Volume of gravity wagon is approx. 1 gallon. Corresponding lesson plan is also available.

ATV Gear

Includes: helmet, gloves, goggles, long pants, long sleeves and riding boots. Corresponding lesson plan is also available.

Reaction Timer

Test your reaction time against the moving equipment. Demonstrated that within seconds an event can turn into an emergency. Corresponding lesson plan is also available.

Look-A-Like Jars

Canning jars filled with harmful and innocuous substances found around the house. For example: yellow Gatorade and lemon cleaning oil, syrup and motor oil. Corresponding lesson plan is also available.

II. Safety-To-Go

The following kits include props and a PowerPoint presentation with presenter notes.

Electrical Safety

Objectives: To inform about common electrical hazards on the farm and avoidance techniques and tools.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes

Materials needed: AV equipment

Estimated time: 30-45 minutes

Farm Safety Audit

Objectives: Takes audience through the use of a self-inspection checklist to identify hazards and how to take corrective actions to prevent injuries on the farm.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes
Farm Safety Checklist Factsheet

Materials needed: AV equipment

Estimated time: 30- 45 minutes

Fall Protection Safety

Objectives: To inform attendees about the active and passive forms of fall prevention and protection available on the farm. Upon completion of the presentation attendees should be able to describe areas of the farm where fall protection is beneficial and be able to recognize appropriate fall protection equipment.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes

Materials needed: AV equipment

Estimated time: 30- 45 minutes

Grain Bin Safety

Objectives: This presentation discusses the common hazards of working on, around, and in grain bins. Common hazards such as falls, entanglement, electricity and environmental concerns are presented. Corrective measures and hazard avoidance techniques are also discussed.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes

Materials needed: AV equipment

Estimated time: 30-45 minutes

Lockout & Tagout on the Farm

Objectives: To discuss what lockout/tagout means, the types of equipment the process should be used on, when lockout/tagout is needed and identify different lockout tools available.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes

Box of lockout/ tagout supplies

Materials needed: AV equipment

Estimated time needed: 30 minutes

Personal Protective Equipment

Objectives: To communicate the importance of personal protective equipment (PPE) using a PowerPoint presentation and physical examples of PPE

Materials included: Hard hat
N95 Respirator
Pairs of disposable nitrile gloves
Pair of disposable earplugs
Hard copy of PPE presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes

Materials needed: AV equipment

Estimated time: 1 hour

Sharing the Road with Farm Machinery & Horse-Drawn Vehicles

Objectives: For the audience to be able to identify an SMV and when to properly use it, recognize hazardous traffic patterns, acknowledge other risk factors and understand closing distance.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes
Video of Sharing the Road- DVD
Lighting & Marking of Horse Drawn Vehicles & Farm Machinery Factsheets

Materials needed: AV equipment

Estimated time: 30- 45 minutes

Safety Around Livestock

Objectives: To understand the safety concerns when working with livestock, recognize the “flight zone” of animals, and prevention steps.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes
Cattle Handling and Working Facilities factsheet
Working Safely With Livestock factsheet

Materials needed: AV equipment

Estimated time: 30- 45 minutes

Sun Safety

Objectives: To educate the audience on the time to be outdoors, the use canopies and cabs of tractors, personal protective equipment to protect themselves.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes
CD contains- multiple factsheets and activities
Derm-a-scan is also available to those who have the training

Materials needed: AV equipment

Estimated time: 30- 45 minutes

Tractor Safety

Objectives: A look at injury statistics and introduction to tractor safety and the eight points of peril with equipment.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes
“A Tractor Accident Can Happen to Anyone” DVD/ VHS

Materials needed: AV equipment, Video player

Estimated time: 30- 45 minutes

Trenching & Excavation Safety

Objectives: To inform about trenching hazards and devices to make excavations safe from cave-ins, describe safe trenching techniques and equipment useful in stabilizing trench walls.

Materials included: Hard copy of presentation handout with 3 slides per page
CD with PowerPoint presentation with presenter notes

Materials needed: AV equipment

Estimated time: 30- 45 minutes

III. Lesson Plans/ Curricula

Lesson plans can be modified or adapted to any audience. Provided is a list of materials needed for the lesson.

Lessons Plan

- **ATV Action**

Objective: Determine appropriate riding apparel, fitting the rider to the ATV, and identifying where to drive and no passengers.

Materials Needed:

ATV, Helmet, Goggles, Gloves, Long sleeve shirt, Long pants, Riding boots

Approximate Time: 15 – 20 minutes

- **ATV Gear Scramble**

Objective: ATV riders must select the correct ATV gear and explain what this gear provides or does not provide for them while riding and operating an ATV.

Materials Needed:

Helmet, Goggles, Chest protector, Long-sleeve shirts, Riding gloves, Riding pants (jeans, or other sturdy long pants), Over the ankle boots, Variety of other random clothing – Not ATV related (examples: high-heel shoes, mittens, belts, t-shirts, skirts, etc), Clock or watch to mark the time

Approximate Time: 30-45 minutes

- **Riding With a Clear Head**

Objective: ATV riders demonstrate and analyze the limitations and effects related to using drugs and alcohol.

Materials Needed:

Bandanas, Rope, Duct tape, Shoelaces, Old sunglasses, Goggles, Small cones, Vaseline, Helmet (optional)

Approximate Time: 30-45 minutes

- **Ouch- Action/Reaction Time of Youth Compared to Speed of Farm Machinery**

Objective: Demonstrate the reaction time of participants and illustrate pinching points, wrapping points, cutting areas, and crushing potential of farm machinery.

Materials Provided:

Four large deck type cards with pinch, wrap, cut and crush pictures, Reaction Timer

Materials Needed:

Twine, Cord or heavy string, One dollar bill(s), Index cards, Pencils, Stopwatch, 100 foot Tape measurer

Approximate Time: 15-20 minutes

- **“Whoa”- Livestock Safety**

Objective: Distinguish between pets and livestock, demonstrate ways to approach livestock, and identify how to handle livestock using a rope halter.

Materials Needed:

Bale of straw with a calf roper head attached, Rope halter, Pieces of rope

Approximate Time: 15-20 minutes

- **"Yuck"- Farm Chemicals**

Objective: Illustrate how unlabeled poisons can easily be mistaken for harmless substances and demonstrate how farmers use their personal protective equipment to keep themselves safe from deadly chemicals.

Materials Provided:

8 bottles filled with unknown liquids, Chemical bottle handout, Rubber gloves,

Materials Needed:

Pencils, Cotton gloves, Ball cap, Goggles, Respirator, Rubber boots, Rubber apron, Eye wash bottle

Approximate Time: 15-20 minutes

- **Grain Entrapment**

Objective: Illustrate how dangerous grain can be and how easy it is to become trapped in grain.

Materials Provided:

Small-scaled grain storage bin, Transparent miniature hopper wagon, Tape measure, Transparent tabletop demo grain bin

Approximate Time: 15-20 minutes

- **"Gasp"- Drowning on Farms**

Objective: Distinguish the various ways to “drown” on farms, Identify three ways to be safe around water and demonstrate the quickness of flowing grain and hazards associated with it.

Materials Provided:

5-gallon bucket, Mini gravity wagon, Popcorn, Miniature grain bin, Bucket to catch the grain from the demonstration, Play people, Wooden pulling disk attached to a rope

Materials Needed:

Water trough with water, Mini gravity wagon, Popcorn, Miniature grain bin, Bucket to catch the grain from the demonstration, Play people, 18-gallon tub filled with seed corn

Approximate Time: 15-20 minutes

- **Safe Climbing**

Objective: Communicate safe climbing technique using “three points of contact” and “belly button between the feet” rules.

Materials Provided:

Laminated red and green cards, Pictures of correct & incorrect ladder use

Materials Needed:

1 Folding ladder, 8-10 Filled water balloons, Chair that pivots, with wheels

Approximate Time: 15 – 20 min.

Curricula- Available for self-paced learning or training an audience.

- **Business Continuity Planning (BCP)**

Objective: This business continuity planning curriculum was designed to enhance the emergency preparedness needs of Cooperative Extension Services (CES) and their clientele. This curriculum is comprehensive and multifarious in its use. It can be utilized as a framework and guide for developing a statewide business continuity planning program within CES, for developing a regional CES pilot program, for developing a county office business continuity plan, or as an educational program offering to CES clientele. The train-the-trainer components are useful for both internal and external CES program delivery.

Target Audience: It is written specifically for State CES Administrators, Regional Directors, State Specialists, and County Directors for application to all levels of CES. A background in emergency and disaster planning and management is helpful; it is not required to utilize this curriculum.

Delivery method: CD-Rom Available from the OSUE Ag Safety office

Approximate Time: Self-paced: approximately 4 hours

- **Plant Biosecurity Management Course**

Objective: Designed for Extension advisors, agents, and specialists who understand the urgency of plant protection and will have the opportunity to teach plant biosecurity management to those involved in the U.S. agricultural sector.



Target Audience: Extension advisors, agents, specialists, agricultural producers, emergency managers, and public health officials.

Delivery method: Interactive, online at

<http://eden.lsu.edu/EDENCourses/PlantBio/Pages/default.aspx>

Approximate Time: Self-paced; approximately 8 contact hours

- **OnGuard: Protecting America's Food System Resources to Educate the Public about Food Protection and Defense**

Objective: This course will enable Extension professionals to teach consumers about: how specific food products are created and how they move through the food system; how our government protects against threats to the U.S. food system; food-related actions your family can take to prepare for any type of disaster or emergency; what consumers and agricultural producers can do to protect against intentional threats to our food system; and lessons learned from actual cases of intentional attacks on our food systems.



Target Audience: Consumers, agricultural producers, and workers

Delivery Method: Interactive, classroom delivery

Approximate Time: Flexible 1-4 hours

- **Animal Agrosecurity and Emergency Management**

Objective: Threats to livestock production include natural disasters, disease outbreaks, agroterrorism, and other emergencies. Proper animal agrosecurity and emergency management reduces the effects of these incidents.

The EDEN Animal Agrosecurity and Emergency Management Course is a vital educational resource to help all people involved protect animals and ensure a safe food and fiber supply. The EDEN Animal Agrosecurity and Emergency Management course will prepare you with the knowledge and skills necessary to teach others in your community how to: apply emergency management principles to animal emergencies, recognize threats, identify vulnerabilities, establish an action plan for animal disasters and partner with interagency representatives in an interdisciplinary effort to address animal emergency issues.



Target Audience: Extension personnel, animal industry stakeholders, emergency responders

Delivery Method: Interactive online or classroom

Approximate Time: approximately 8 hours total

- **4-H Teen CERT: Turning Disasters into Success**

Objective: What do you do when you feel the earth move under your feet, smoke gets in your eyes, or you're wondering, who'll stop the rain? Could disaster recovery be different if youth were ready to act and direct the efforts, not just thinking, we didn't start the fire? What can youth do now that will make a difference when the walls come tumbling down? 4-H Teen CERT is a groundbreaking new program that empowers youth to prepare for, stay safe during, and respond after a major disaster.

<http://www1.cyfernet.org/confav/05-08-CERT.ppt>

Target Audience: High school youth

Delivery Method: Classroom, hand-on, and interactive

Approximate Time: self-paced

D. Available Programming

PowerPoint Presentations- *These are PowerPoint presentations that you can use to fill a programming need. The presentation includes presenter notes to guide the presenter. Just contact the office and the presentation will be emailed to you!*

Rental Tool Safety

This presentation provides information about common risks encountered while using rental tools and steps to avoid the hazards.

Anhydrous Ammonia Safety

This presentation discusses incident situations, personal protective equipment, labels, marking and safety signs, care and maintenance of equipment, highway safety and preventing theft of anhydrous ammonia.

Grain Handling Safety

An extensive look at grain handling safety from the field to storage in the grain bin.

Safety Around Manure Pits

Safe practices for working around manure pits and lagoons.

Agricultural Environmental Emergency Response

Introduction to the types of agricultural environmental emergencies and initial response procedures.

Workshop & Trainings- *This listing is of specialized workshops or training an OSUE Ag Safety staff member can present or coordinate for your audience. Contact the office for more information.*

AgrAbility

The Ohio AgrAbility Program is part of a national program that promotes independence for people in agriculture who want to continue to farm after experiencing a disabling condition. The program's goal is to provide education, resources, and technical assistance to those individuals and their families so they may continue to be successful in agriculture. The Ohio AgrAbility Program has resources to assist agricultural workers and their families with congenital, accidental, or age-related conditions including:



- arthritis
- head or spinal cord injury
- amputation
- paralysis
- back pain or injury
- stroke
- diabetes
- visual or hearing impairment
- respiratory problems.

Expanding Universal Design to the Farmstead

Taking an extensive look at Universal Design concepts for the garage, farm shop, barn, and outdoor agricultural areas. Universal Design refers to a broad-spectrum solution that produces buildings, products and environments that are usable and effective for everyone, not just people with disabilities. The intent of universal design is to simplify life for everyone by making products, communications, and the built environment more usable for as many people as possible at little or no extra cost. Universal design benefits people of all ages and abilities. Examples include: Smooth ground surfaces of entranceways - without stairs, larger handles on buckets, utensils, and tools, lever handles for opening doors rather than twisting knobs, light switches with large flat panels rather than toggle switches, accessible cabinets, storage spaces, and work stations.

Assistive Technologies for Farm Use

Assistive technologies used by individuals with a disability or limitation to maintain productivity and safety in agriculture. Assistive technology includes any kind of device, modification, or service that will help a person with a disability work and live more independently. It may be low or high tech; expensive or inexpensive but ultimately it can help make it possible for someone to complete a job that might otherwise be difficult. Examples include: modified steps or handles, hand controls, lever extensions, outdoor mobility aids, motorized lifts and battery operated tools and equipment.



Agricultural Emergency Response Courses

The Ohio Fire Academy offers two agricultural rescue courses; *Down on the Farm* and *Farm Rescue*. *Down on the Farm* focuses on the patient care aspect of farming incidents. This course provides 6 hours EMS continuing education credits. *Farm Rescue* provides rural fire/rescue responders with a systematic approach to farm rescue procedures that address that safety of both patients and responders. This course provides 12 hours continuing education credits. Both of these courses are available on-site at community locations via an OFA Farmedic Instructor or in-house at the Ohio Fire Academy. **Audience:** Fire Fighters and EMT

ATV Rider Course training course

This is a 4-hour hands-on ATV training course. A riding area of 200 x 150 ft is needed. Class size is 4-8 (8 is max and 4 is needed by end of registration to hold the class.) Age of participants is 9 years and older. Pre-registration is required. Contact the Ag. Safety & Health office to obtain a pre-registration form sample. Deadline for registration is one week before the class date. Participants need to provide their own properly-sized ATV. If they do not have one, please assist parent and instructor with trying to locate one. Participants are required to bring ATV riding approved helmet, goggles, gloves, long sleeves, pants, and over-the-ankle boots. We do not charge a fee, if you would like to charge a small fee to cover use of facilities, snacks, etc, your office may do so.

Grain Bin Rescue Awareness Workshops

OSU Extension has partnered with industry and first responders to offer grain bin rescue awareness workshops. The purpose of these workshops is to educate first responders on the hazards associated with grain bins, the reasons farmers enter bins, the rescue techniques for grain engulfment, and the technical proficiencies needed to perform this type of emergency rescue. Farmers, families, and workers are taught the actions to take prior to the arrival of first responders and what type of resources to have ready available in the event of a grain bin engulfment. The workshops consist of a presentation and live demonstration.

OSHA

The OSHA program at the College of Food Agricultural and Environmental Science is responsible for assisting the college with compliance to all applicable OSHA standards. The program coordinator conducts facility and laboratory inspections and makes recommendations for safety improvements. The coordinator is available for safety consultations and presentations to university personnel and audiences outside the university through OSU Extension. Available programming includes:

- OSHA 10 and 30 hour general industry and construction safety courses
- CPR training
- Fire extinguisher training

E. Educational Displays & Posters

Sun Safety Protect Yourself (formally known as AP500)

This three-panel exhibit (can be adapted depending on space availability) addresses skin cancer statistics and identification, environmental factors, and sun safe behaviors. This display comes in two versions. Please specify which version you would like.

Version A: includes three laminated posters that include statistics, tips, and overall sun safety information.



Version B: contains the same information but is presented in smaller, individual pieces rather than posters.

Sun Safety Kit for Youth

This display is specifically designed for youth and teaching overall sun safety. Four sun safe hats are included with stands, along with seven small, cardboard posters with sun safe tips.



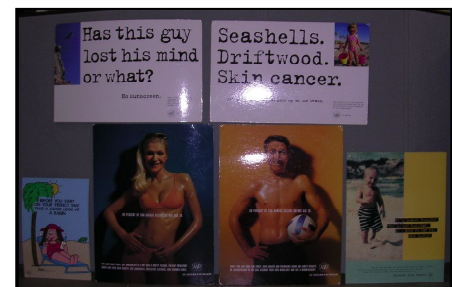
Is It Time To Change Your Hat?



This display is comprised of multiple posters examining the pros and cons of the different styles of sun hats. The posters are hard back and have Velcro attachments. This display also includes eight sun safe hats. Four that are hung as part of the display and four hats that sit in front of the display for audiences to try.

American Academy of Dermatology Posters

The American Academy of Dermatology display contains six hardback posters in a variety of sizes that contain Sun Safety and Skin Cancer Awareness sayings.



ATV Safety- Fit Guidelines

Four posters discussing proper rider fit guidelines along with details that help riders further understand if the machine is “too big” or “too small” or “just right”.



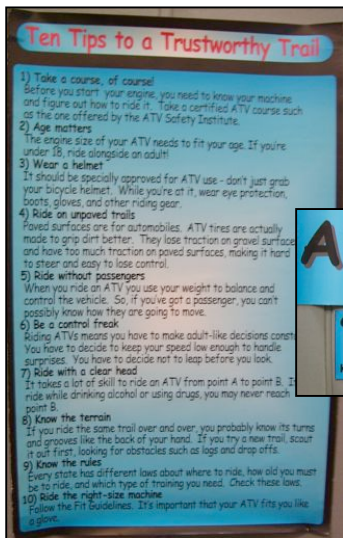
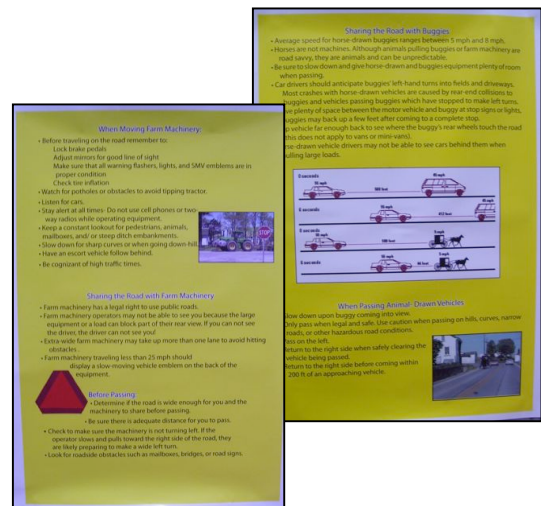
Grain Bin Safety Series

This series features posters that address the following: Electrical Clearance, Fixed Ladders, Inside Full Bin, Emptying Bin, Engulfment Rescue Steps, Control Boxes



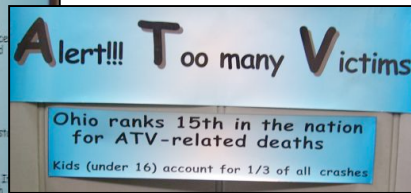
Rural Roadway

Three posters discussing information on sharing rural roadways with tractors, machinery, and horse-drawn buggies, as well as the normal conditions of rural roads.



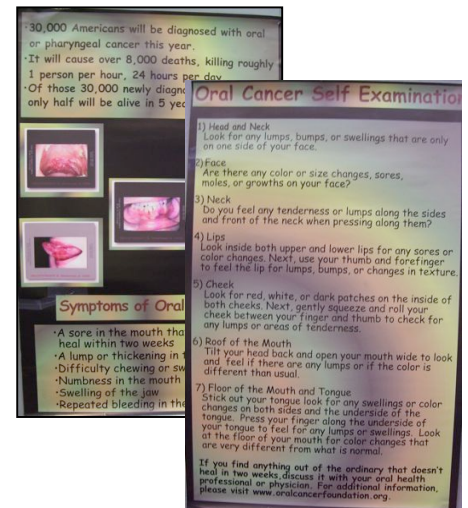
Alert! Too Many Victims

Tips to safe ATV riding and how to properly fit an ATV.



For Those of You Who Chew!

Display on the effects of smokeless tobacco and how to do an oral cancer self-examination.



F. Factsheets

List of available factsheets from Ohioline (ohioline.osu.edu)

- Tailgate Safety Training for Landscaping and Horticultural Services, AEX-192-07
- Additional Marking of Horse Drawn Vehicle = Additional Safety, AEX-598.1-99
- Agricultural Tailgate Training Safety
- Barnyard Animals, AEX-992-96
- Barnyard Drowning, AEX-995-97
- Boosting Visibility of Ag Equipment, AEX-598-08
- Careful in the Country, AEX-996-98
- Cows, Critters, and You, AEX-992.1-98
- Extending Universal Design Principles onto the Farmstead, AEX-983.1-10
- Farm Safety for Children: What Job Is Right for My Child? AEX-991.1-08
- Farm Safety For Children: What Parents and Grandparents Should Know, AEX-991-92
- Fire Protection in Rural Areas, AEX-422-98
- Hand Signals for Agricultural Safety, AEX-591
- Ice Safety, AEX-392-03
- Machinery Hazards, AEX-994-97
- Look for the Sign, AEX-994.1-98
- New Requirements for On-Farm Storage of Bulk Fertilizers, AEX-594.2-04
- Noise on the Farm Can Cause Hearing Loss, AEX 590-08
- Points of Peril, AEX-994.3-04
- Preventing Farm Machine Hazards, AEX 593-08
- Preventing Theft of Anhydrous Ammonia, AEX-594.1-02
- PTO Power, AEX-994.2-04
- Recognize and Manage the Stress of Farm Life, AEX-693-97
- Rotary Agricultural Mower Safety, AEX 592-08
- Safe Handling of Anhydrous Ammonia, AEX-594
- Safe Operation of Utility Type Vehicles (UTVs), AEX-597.1-10
- Skin Cancer: Are You at Risk?, AEX-694-97
- Tractor Talk, AEX-993.1-98
- Tractor Tips, AEX-993-96
- Working Safely With Livestock, AEX 990-08

Ohio AgrAbility Series

- Overexertion Causing Secondary Injury, AEX-981.5-10
- Secondary Injury Caused by Lifting, AEX-981.1-10
- Secondary Injury Prevention: Caught-in, Caught-between, or Struck by Objects, AEX-981.2-10
- Secondary Injury Prevention: Ergonomics for the Farm, AEX-981.6-10
- Secondary Injury Prevention: Farming with a Pacemaker, AEX-981.8-10
- Secondary Injury Prevention: Heat Stress, AEX-981.4-10
- Secondary Injury Prevention: Safety for Senior Farmers, AEX-981.7-10
- Secondary Injury Prevention: Walking and Working Surfaces, AEX-981.3-10

G. Videos

Videos available from the OSUE Ag Safety and Health are listed on the website under "Publications and Resources". (www.agsafety.osu.edu) Please review the list online if you are interested in a video. Several of the videos are available in Spanish as well as English.

We ask that you borrow the videos for a two-week period of time then return them to the office.

Please contact 614-292-0622 if you have questions or are interested in borrowing a video.