This presentation is part of an educational modular program designed to provide new and beginning farmers and ranchers with relevant information to initiate, improve and run their agricultural operations.

This program is funded by the Beginning Farmer and Rancher Development Program (BFRDP)

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Farm Safety

Because of the vast amount of material that can be included in this topic, we have only included a general overview of farm safety concerns.

For each of these subjects there is much more information available from other resources that will go into more detail.
Farm Safety

Because there are many important topics to discuss related to farm safety, we have split this topic into 4 (four) different presentations

Farm Safety 1 = Tractors, equipment, tools, electricity and lifting
Farm Safety 2 = Livestock, chemicals, toxic gases and dust
Farm Safety 3 = Weather and Fire
Farm Safety 4 = Slips/trips/falls, highway traffic, noise, enclosed spaces, manure pits, pond/water, wells

You can read the presentations in any order that you want but we strongly recommend that you read them all
Farm Safety 1
- Tractors
- Machinery/equipment
- Hand tools
- Electricity
- Lifting

Farm Safety 2
- Livestock
- Chemicals
- Toxic gases
- Dust

Farm Safety 3
- Weather
- Fire

Farm Safety 4
- Slips/trips/falls
- Highway traffic
- Noise
- Enclosed spaces
- Manure pits
- Pond/water
- Wells
Why is it important to talk about Farm Safety?
We have all heard the stories of the retiree that wants to go into farming because it will be relaxing and easy.

The office employee that thinks that farming is stress-free.

The family that wants to start a farm because they want to spend time outdoors.
However farming is not a hobby

- It is very physically demanding and is considered to be one of the most dangerous professions
- It has a very high injury rate
- Fatality rate of 25.1/100,000
- Most injuries can be permanent
List of most dangerous jobs (2009)

1. Fishers and related fishing workers

2. Logging workers

3. Farmers and ranchers

4. Structural iron and steel workers

5. Aircraft pilots and flight engineers
Farming can be more dangerous than:
It doesn’t make sense that being such an important element in our society and such a dangerous job, that there aren’t more training programs and support for new and beginning farmers.
Farming is one of the few industries in which the whole family is at risk for fatal and non-fatal injuries.

http://www.chaffinfamilyorchards.com/about.php

http://www.ediblesadvocatealliance.org/sustainable-learning-journey-blog/
<table>
<thead>
<tr>
<th>Safety and Physical Agents:</th>
<th>Biological and Chemical Agents:</th>
<th>Agricultural Diseases:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commodity storage &amp; transfer</td>
<td>Asphyxiation/suffocation</td>
<td>Arthritis</td>
</tr>
<tr>
<td>Electricity</td>
<td>Confined space</td>
<td>Dermatoses - caused by</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>Entrapment</td>
<td>• Heat</td>
</tr>
<tr>
<td>• Back injury</td>
<td>(see commodity s.&amp;t.)</td>
<td>• Irritant chemicals</td>
</tr>
<tr>
<td>• Lifting</td>
<td>Fumigation</td>
<td>• Infectious microbes</td>
</tr>
<tr>
<td>• Repetitive trauma</td>
<td>Carbon Monoxide</td>
<td>• Insects</td>
</tr>
<tr>
<td>Farm machinery</td>
<td>(combustion)</td>
<td>• Sensitizing chemicals</td>
</tr>
<tr>
<td>• Balers</td>
<td>Silo gases (NO₂ and CO₂)</td>
<td>• Sunlight</td>
</tr>
<tr>
<td>• Chain saws</td>
<td>Detergents</td>
<td>Noise Induced Hearing Loss</td>
</tr>
<tr>
<td>• Combines</td>
<td>Diesel exhaust</td>
<td>Immunologic diseases</td>
</tr>
<tr>
<td>• Power take-off (PTO)</td>
<td>Disinfectants including</td>
<td>• Allergic rhinitis</td>
</tr>
<tr>
<td>• Roll-over protection</td>
<td>• Chlorine</td>
<td>• Asthma</td>
</tr>
<tr>
<td>• Safety guards</td>
<td>• Quaternary ammonia compounds</td>
<td>• Dermatoses</td>
</tr>
<tr>
<td>• Tractors</td>
<td>• Organic iodides</td>
<td>Noninfectious diseases</td>
</tr>
<tr>
<td>Fire</td>
<td>• Cresol-based compounds</td>
<td>• Cancer</td>
</tr>
<tr>
<td>Fuel storage</td>
<td>• Formaldehyde emitters</td>
<td>(is actually a low risk)</td>
</tr>
<tr>
<td>(leaks and fires)</td>
<td></td>
<td>• Hypertension and heart</td>
</tr>
<tr>
<td>Illumination</td>
<td></td>
<td>• Respiratory diseases</td>
</tr>
<tr>
<td>(poor lighting)</td>
<td></td>
<td>• Asthma</td>
</tr>
<tr>
<td>Lightning</td>
<td></td>
<td>(also immunologic dis.)</td>
</tr>
<tr>
<td>(shock and fire)</td>
<td></td>
<td>• Bagassios</td>
</tr>
<tr>
<td>Liquefied Propane [LP] gas</td>
<td></td>
<td>(from sugar cane)</td>
</tr>
<tr>
<td>Liquefied anhydrous ammonia</td>
<td></td>
<td>• Bronchitis</td>
</tr>
<tr>
<td>Livestock handling injuries</td>
<td></td>
<td>• Byssinosis</td>
</tr>
<tr>
<td>Physical/environmental hazards</td>
<td></td>
<td>(from cotton dust)</td>
</tr>
<tr>
<td>• Noise</td>
<td></td>
<td>• Farmer’s Lung (see also HP below)</td>
</tr>
<tr>
<td>• Thermal</td>
<td></td>
<td>• Hypersensitivity pneumonitis</td>
</tr>
<tr>
<td>(heat and cold)</td>
<td></td>
<td>• Organic dust toxic syndrome (ODTS)</td>
</tr>
<tr>
<td>• Ultraviolet</td>
<td></td>
<td>• Pneumoconiosis (e.g. silicosis)</td>
</tr>
<tr>
<td>(sun light)</td>
<td></td>
<td>• Silo filler’s disease (see also NO₂)</td>
</tr>
<tr>
<td>• Vibration</td>
<td></td>
<td>• Organophosphate poisoning and sequelae</td>
</tr>
<tr>
<td>• Psychological stress</td>
<td></td>
<td>Silo unloader’s disease</td>
</tr>
<tr>
<td>• Sanitation</td>
<td></td>
<td>Zoonotic diseases</td>
</tr>
<tr>
<td>• (field)</td>
<td></td>
<td>• Transportation (on &amp; off road)</td>
</tr>
<tr>
<td>• Transportation</td>
<td></td>
<td>• Welding</td>
</tr>
<tr>
<td>• Pesticides</td>
<td></td>
<td>• (including application and harvest activities)</td>
</tr>
</tbody>
</table>

http://www.osha.gov/SLTC/agriculturaloperations/tables.html#table1
Children safety

- Farm injuries are particularly high among children:
  - Between 100 to 300 youth die on farms annually
  - Children often work on the family farm
  - Children will play on equipment
  - Because children are always present, parents can become complacent

![Bar chart showing the average number of deaths per year by age group.](chart.png)
A good website to go for more information and details on farm safety is:

OSHA
Occupational safety and health administration
http://www.osha.gov/

The OSHA website has important free information and fact sheets on how to safely perform many common farm activities.
Farm Safety

- Always Call 911 if there is an emergency

- Owner/operators should take at a minimum a first aid course, which includes CPR
Weather Fatalities

- 10 Year Average (2000-2009)
- 30 Year Average (1980-2009)
- 8 Year Average (2002-2009)

<table>
<thead>
<tr>
<th>Issue</th>
<th>10 Year Average</th>
<th>30 Year Average</th>
<th>8 Year Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td>64</td>
<td>56</td>
<td>48</td>
</tr>
<tr>
<td>Lightning</td>
<td>41</td>
<td>48</td>
<td>43</td>
</tr>
<tr>
<td>Tornado</td>
<td>57</td>
<td>116</td>
<td>117</td>
</tr>
<tr>
<td>Hurricane</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heat</td>
<td>24</td>
<td>33</td>
<td>44</td>
</tr>
<tr>
<td>Cold</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winter Storm</td>
<td>43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wind</td>
<td>44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rip Currents</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Weather

Weather creates hazards for both people and livestock

- Heat
- Cold
- Rain
- Ice
- Wind
- Snow
- Hail
- Lightning
Heat-related illnesses include:

- **Sun Burn**
  - swelling, blisters, fever and headache.

- **Heat Syncope**
  - dizziness or fainting

- **Heat Cramps**
  - Heavy sweating followed by painful muscle spasms in the legs, arms, or stomach

- **Heat Exhaustion**
  - headache, nausea, clammy moist skin, pale complexion with a normal or slightly elevated body temperature

- **Heat Rash**
  - caused when clothes remain damp in hot humid conditions.
Losing your cool

The body cools itself by evaporating sweat on the skin. But prolonged heat can cause a breakdown in this physiological mechanism, leading to heat exhaustion, and the most severe form of heat illness, heat stroke.

<table>
<thead>
<tr>
<th>WHAT IS IT?</th>
<th>Heat exhaustion</th>
<th>Heat stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face pale; headache; nausea; skin is cool and clammy; sweating profusely</td>
<td>Sweating mechanism breaks down, overheating the body.</td>
<td></td>
</tr>
<tr>
<td>IF NOT TREATED</td>
<td>Collapse, heat stroke</td>
<td>Confusion, shock, coma, death</td>
</tr>
<tr>
<td>IMMEDIATE AID</td>
<td>Cool shade; drink water with two teaspoons of salt per liter</td>
<td>Cool victim down; place in shade; wrap in cool, wet sheet; call for medical assistance</td>
</tr>
</tbody>
</table>

PRECAUTIONS

- **Stay indoors**
  - Spend as much time indoors as possible on very hot days.
- **Outdoor activities**
  - Schedule vigorous activities and sports for cooler times of the day.
- **Drink water**
  - Drink a lot of water, get enough salt especially during outdoor activities.
- **Sun protection**
  - Stay in the shade, protect yourself from the sun with lightweight clothing.

Heat emergencies are of three types: heat cramps (caused by loss of salt), heat exhaustion (caused by dehydration) and heat stroke (shock). Remove the victim from the heat and have him lie down. Apply cool compresses, elevate the feet, drink fluids and use a fan to blow cool air. Get medical help if needed.
Every year many farm workers are treated in hospitals for heat stroke and heat exhaustion

Prevent heat related injuries by:

- Avoiding hard work during the hottest part of the day
- Wear light loose-fitting clothing that is light in color
- Wear a wide brim hat
- Drink lots of fluids periodically, don’t drink alcohol
- Take frequent breaks in cool and shaded areas
- Work at a slower pace
- Get acclimatized to the weather prior to working
- Learn how to recognize the signs of heat exhaustion and stroke
Most common problems of cold weather in the farm

Hypothermia
Frostbite
Chilblains
Dehydration
Sunburn
Snow blindness
HYPOTHERMIA FIRST AID

ALL CASES
- Move victim to dry shelter and warmth
- Handle gently
- Remove wet clothes — cut off if necessary
- Apply mild heat (comfortable to your skin) to head, neck, chest and groin — use hot water bottles, warm moist towels
- Cover with blankets or sleeping bag; insulate from cold — including head and neck

MILD CASES
- Primary task is to prevent further heat loss and allow body to rewarm itself
- Give warm, sweet drinks — no alcohol
- Apply mild heat source to stabilize temperature and/or
- Exercise to generate heat
- Hot shower to point of perspiring
- Keep victim warm for several hours

MODERATE CASES
- Same as above
- Offer sips of warm liquids only if victim is fully conscious and able to swallow without difficulty — no alcohol
- Have victim checked by doctor

SEVERE CASES
- Obtain medical advice as soon as possible using your radio
- Assist victim, but avoid jarring him — rough handling may cause cardiac arrest or ventricular fibrillation of heart
- No food or drink
- Observe for vomiting and be prepared to clear airway
- Ignore pleas of “Leave me alone, I’m O.K.” Victim is in serious trouble — keep continuous watch over victim
- Lay victim down in bunk, wedge in place, elevate feet, keep immobile; no exercise
- Apply external mild heat to head, neck, chest and groin — keep temperature from dropping, but avoid too rapid a temperature rise.
- Transport soon, gently, to hospital

CRITICAL CASES
- Always assume patient is revivable — don’t give up — pulse very difficult to feel
- Handle with extreme care
- Tilt the head back to open the airway — look, listen and feel for breathing and pulse for one to two full minutes
- If there is any breathing or pulse, no matter how faint or slow, do not give CPR, but keep a close watch on vital sign changes
- Stabilize temperature with available heat sources, such as naked chest-to-back warming by other crew member (leave legs alone)
- If no breathing or no pulse for one to two full minutes, begin CPR immediately
- Medical help imperative — hospitalization needed

WARNING
- First aid for severe and critical hypothermia is to add heat to stabilize temperature only. Rapid rewarming, such as a hot shower or bath, may be fatal; it will, at least, cause complications. Allow body to rewarm itself slowly.
- Body core temperature lags behind skin temperature during rewarming. Keep victim protected for extended period after apparent full recovery or medical help arrives. Many hours are required for return to normal temperature.
- Always assume hypothermia is present in all man-overboard situations in which the victim has been exposed for more than 10-15 minutes.
- Victims may also be suffering from near drowning, thus needing oxygen. Observe for vomiting.
- In a helicopter rescue, protect victim — including the head — from rotor blast wind chill.

Hypothermia

Confusion
Lack of Coordination
Shivering
Cold Body
Urge to Urinate
Rain can cause flooding of roads and fields
  - If flooding occurs livestock needs to be able to get to higher ground or they will drown

  - Flooding can also ruin equipment that is left on low lying areas

  - Every year hundreds of people die trying to drive though flooded roads. Don’t drown, turn around!

  - Rain can also cause electrical problems if roofs leak
    - Electrical fences are also an important risk

  - Even if roads are not flooded they will be slippery and visibility will be lower. Hydroplaning is also a concern
Flood

Pile of dead cows after a flood in Seattle, 2007
HAIL

Getting caught out in a hail storm with no protection can be painful and deadly.

Large hail has been known to kill livestock and destroy gardens and field crops.

Hail can also damage buildings, vehicles, and equipment.

Hail damaged tomatoes
ICE

- It increases the chance of fall related injuries
- Makes driving and all jobs more dangerous
- Ice can also build up on trees and cause them or their branches to fall
ICE

Ice can form over water sources for livestock preventing them from drinking.

Ice on ponds can be a danger as kids love to play on frozen ponds and if it is not thick enough they may fall through and drown.
Snow

- Similar to ice, snow makes driving and walking much more difficult
- Snow can also build up on building and cause roofs to collapse
- Snow can make it hard for animals to access feed and water
- Snow also increases the number of falling accidents
Wind

Wind can cause damage to buildings, topple trees, cause branches to fall and damage buildings.

- In rural areas wind storms often result in power outages
- Watch out for downed power lines
  - They may still be electrified and can kill if touched

- In strong winds flying debris can cause injury or death to both people and livestock
Tornado
Lightning

- Lightning strikes the Earth’s surface about 100 times every single second

About 2,000 people are killed worldwide by lightning each year

- Many more survive strikes but suffer from lasting symptoms such as, memory loss, dizziness, weakness, numbness, and other life-altering ailments

Remember when it comes to lightning there is NO SAFE place outdoors

Dead cows lined along a metallic fence. Lighting struck the fence, and the current traveled along the fence killing the cows

(Ruth Lyon-Bateman)

Dead cows after a bolt of lightning hit the tree where they were huddled under to get out of a rainstorm

A reminder why you should never seek shelter under a tree during a thunderstorm

http://www.srh.noaa.gov/jetstream/lightning/lightning_safety.htm
LIGHTNING KILLS
Play It Safe!

Lightning Facts...
✓ No place outside is safe during a thunderstorm.
✓ Lightning kills more people annually than tornadoes or hurricanes.
✓ If you hear thunder, you’re likely within striking distance of the storm.

Outdoors...
✓ Plan outdoor activities to avoid thunderstorms.
✓ Monitor weather conditions. If you hear thunder, get inside a substantial building immediately.
✓ If a substantial building is not available, get inside a hard-topped metal vehicle.
✓ Avoid open areas and stay away from isolated tall objects.

Indoors...
✓ Avoid contact with any equipment connected to electrical power, such as computers or appliances.
✓ Avoid contact with water or plumbing.
✓ Stay off corded phones.
✓ Stay away from windows and doors.
✓ Remain inside for 30 minutes after the last rumble of thunder is heard.

If Someone Is Struck...
✓ Victims do not carry an electrical charge and may need immediate medical attention.
✓ Call 911 for help.
✓ Monitor the victim and begin CPR or AED, if necessary.

For more information, visit:
www.lightningsafety.noaa.gov
Lightning

- When lightning is in the area the National Weather Service suggests:
  - Get to a safe building
    - Safe buildings are enclosed with wiring and plumbing that will ground any lightning strikes
  - Get to a safe vehicle
    - Safe vehicles are fully enclosed with metal tops. Convertibles, golf carts, open cab tractors, and boats without cabins are unsafe
  - Wait 30 minutes after the last lightning to return outdoors

[Diagram showing lightning casualties in US (1959-1994)]
Lightning can strike up to 25 miles away from a thunderstorm cloud

Copyright Robert A. Prentice, 1990
Fire
Farm fire prevention and safety

- A fire in your farm can rapidly put your life at danger, but also the lives of your family members, employees and animals
- Your farm buildings, equipment and livelihood can be wiped out in minutes

Safe fire prevention strategies can make a great difference
Farm fire prevention and safety

Fire prevention should be considered at all times

- When constructing any structure for the farm, try to use noncombustible and fire retardant materials
- Cut and clear all grasses, weeds and brush from around buildings
- Motors and all equipment should be kept free of dust and grease

- Inspect all wiring and electric motors and appliances for exposed wires, broken insulation, improper grounding and improper installation
- Check gas and fuel oil systems for leaks and unsafe installations
Farm fire prevention and safety

- Prevent fires by keeping all ignition sources away from all combustible materials
- Keep work areas clean, dry and unobstructed
- If you have animals, check for excessive accumulation of dust, cobwebs, roofs and rafters

Rodents can gnaw on electrical wires and cause a fire

This is just one more reason why rodents and other pests must be kept under control in all buildings and areas of the farm
Farm fire prevention and safety

- Inspections and fire drills should be part of your normal farm activities
  - Test your fire or smoke system at least once a year

- Read the instructions on the extinguishers on your property. You should practice using an extinguisher before you ever need one
  - When the pressure in an extinguisher is going low, you can use that one to practice, so that you will be prepared when you need to use one in a real fire

Some fire departments host safety days when they will show you how to operate the fire extinguishers
All your family members and employees should be trained in fire prevention and safety
Farm fire prevention and safety

- Get adequate fire insurance coverage for your animals, buildings, equipment
- Invite your local fire department to your farm, ask for their expert opinion to make your farm more fire-safe and fire-proof

A quick inspection of your buildings can help you identify dangerous spots

The fire department can also help with the inspection of your fire extinguishers and teach you how to maintain and inspect them
Farm fire prevention and safety

- NO SMOKING inside any buildings or areas where flammable and combustible materials are stored
- NO SMOKING near storage, shipping or receiving areas where boxes and containers can easily catch on fire
- NO SMOKING near areas where gasoline is stored or used
- NO SMOKING near animals, storage areas, manure pits as several gases can be flammable

Plus, smoking is bad for you and everybody around you!!
Farm fire prevention and safety

- Fire extinguishers
  - Select and provide fire extinguishers
  - Always make sure that each area has an extinguisher that matches the kind of fire that could develop in that area
  - Using the wrong type of extinguisher on a fast moving fire can cause the fire to spread faster
  - Read the extinguisher instructions to learn how to use the extinguisher before a fire ever starts
Farm fire prevention and safety

Follow the “PASS” acronym and you will easily figure it out

PASS

Pull the Pin at the top of the extinguisher. The pin releases a locking mechanism and will allow you to discharge the extinguisher.

Aim at the base of the fire, not the flames. This is important – in order to put out the fire, you must extinguish the fuel.

Squeeze the lever slowly. This will release the extinguishing agent in the extinguisher. If the handle is released, the discharge will stop.

Sweep from side to side. Using a sweeping motion, move the fire extinguisher back and forth until the fire is completely out. Operate the extinguisher from a safe distance, several feet away, and then move towards the fire once it starts to diminish. Be sure to read the instructions on your fire extinguisher – different fire extinguishers recommend operating them from different distances. Remember: Aim at the base of the fire, not at the flames!!!!
Farm fire prevention and safety

Types of fire extinguishers
Fire extinguishers are divided into 5 categories based on different types of fires

<table>
<thead>
<tr>
<th>Category</th>
<th>Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Common Combustibles</td>
</tr>
<tr>
<td>B</td>
<td>Flammable liquids and gases</td>
</tr>
<tr>
<td>C</td>
<td>Live electrical equipment</td>
</tr>
<tr>
<td>D</td>
<td>Combustible metals</td>
</tr>
<tr>
<td>K</td>
<td>Cooking media</td>
</tr>
</tbody>
</table>

Each fire extinguisher also has a numerical rating that serves as a guide for the amount of fire the extinguisher can handle. The higher the number, the more fighting power.
Always keep at least a 5 lb. extinguisher (a 10 lb. is better!)
## Farm fire prevention and safety

### Fire Extinguisher Chart

<table>
<thead>
<tr>
<th>Extinguisher</th>
<th>Type</th>
<th>Solids (wood, paper, cloth, etc)</th>
<th>Flammable Liquids</th>
<th>Flammable Gasses</th>
<th>Electrical Equipment</th>
<th>Cooking Oils &amp; Fats</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water</strong></td>
<td></td>
<td>![Checkmark]</td>
<td>![Cross]</td>
<td>![Cross]</td>
<td>![Cross]</td>
<td>![Cross]</td>
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<tr>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
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<tr>
<td><strong>Foam</strong></td>
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<td>![Checkmark]</td>
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<td>![Cross]</td>
<td>![Cross]</td>
<td>![Checkmark]</td>
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<td></td>
<td>Yes</td>
<td></td>
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<tr>
<td><strong>Dry Powder</strong></td>
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<td>![Checkmark]</td>
<td>![Checkmark]</td>
<td>![Checkmark]</td>
<td>![Checkmark]</td>
<td>![Cross]</td>
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<td></td>
<td>Yes</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td><strong>Carbon Dioxide (CO2)</strong></td>
<td></td>
<td>![Cross]</td>
<td>![Checkmark]</td>
<td>![Cross]</td>
<td>![Cross]</td>
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</tbody>
</table>
Fire extinguishers

Did you know that a big water/foam extinguisher last about 1 minute (more or less)?

A CO₂ extinguisher usually lasts 10-20 seconds!

Don’t squeeze the lever until you are ready to aim at the base of the fire!

A fire extinguisher must be at all exterior doorways of all buildings in the farm and next to the electrical panel box.
Fire extinguishers

Depending on how careful you’ve been, a fire extinguisher can last for 7-12 years

• But there are several common problems that many fire extinguishers face that can damage them
  • The seal around the fire extinguisher can weaken or break down, allowing the compressed air to escape
  • The container can rust and weaken or break down (allowing compressed air to escape)
  • Hoses may crack or break
  • Safety pin may get lost or unsealed
  • The handle can break or come loose
Fire extinguishers

- If your fire extinguisher has any of these problems, it is time to replace it!
  - Call the fire department in your area for instructions on how to recharge or dispose of a fire extinguisher
  - Corroded fire extinguishers can easily explode, call the fire department before trying to move it yourself
  - Never throw away a fire extinguisher in the trash. Because it is filled with chemicals and kept under pressure it can explode or become flammable
Farm fire prevention and safety

- When a fire has been burning for several MINUTES, the heat starts to build up and intensify.
- Once that happens, you are past the point of the use of extinguishers and trying to control it yourself.

Get out of the building and call the fire department.
This presentation was prepared by:

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This project is the result of the collaboration of these institutions:
<table>
<thead>
<tr>
<th>Organization</th>
<th>Website</th>
</tr>
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<tbody>
<tr>
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