A Appendix

Farm & Ranch Safety Inventory

Editor's Note

Introduction

Completing the Inventory

This "Farm & Ranch Safety Inventory" is included in the *Leader's Guide* for your information in case you would like to incorporate a discussion of conducting a safety inventory in a workshop. You are free to reproduce the inventory for use in your program, or bulk copies can be obtained for a small charge from the Agricultural Safety and Health Program, 1146 AGEN, Purdue University, West Lafayette, IN 47907-1146.

The typical farmstead contains dozens of hazards or dangers. Too often, we may take a hazardous situation for granted because "that's just the way it's always been." Or we simply may not recognize potential hazards. A common example of an "unrecognized hazard" is a large tractor tire leaning against the side of a building. There have been several cases of small children being injured or killed while playing or hiding behind leaning tires.

How do we proceed to eliminate potential hazards? First and foremost, we must identify the hazards. The following "Farm & Ranch Safety Inventory" was designed by Extension safety specialists at Purdue University to help reveal potential hazards on your farm. Completing the inventory will help identify many hazards that could be a source of injury to you or members of your family.

To be most successful, you should set aside 2 to 3 hours when the whole family can participate in this "hazard hunt." Youth will enjoy this activity, and can always be counted on to provide unique perspectives and opinions. The inventory is divided into sections representing various areas or activities on the farm, allowing a systematic approach to the activity. One family member should be designated as the "clerk" to make note of hazards that are found. If possible, photocopy the inventory and give copies to your family members, or discuss the inventory beforehand to allow your family to get an idea of what to look for during the search. As you complete the inventory, check the "OK" box for each item you find acceptable. If a listed item is not applicable, write "NA" as the potential hazard. If you find one of the potential hazards listed on the form (and you will most likely find many), describe the problem in the space provided.

It is a good idea to bring some extra sheets of paper to record items that might not be listed on the form. Although the inventory covers a wide variety of potential hazards, there is no way to anticipate every possibility. You might be able to photograph the more serious hazards and paste them on your refrigerator as a reminder to correct them.

Organizing Your Findings

Categorizing Your Solutions

Prioritizing Your Solutions

Don't be discouraged as you complete the inventory. You could find dozens of problems. Record everything you find, no matter how large or small the problem. Remember, the purpose here is to locate as many hazards as possible. We must first recognize a problem before we can find a solution.

Once you and your family have completed the inventory, you will probably have identified a long list of potential hazards, and be wondering "OK, now what?" Begin the "analysis" part of this exercise by using the included form to rewrite your list of potential hazards.

Once you have rewritten your list of hazards, you can begin to formulate solutions. Be practical when developing these solutions. For example you will probably be more inclined to apply some fluorescent tape and a warning sign above a low-clearance doorway than you will be to tear out the door and make it taller. Also keep in mind that there will be some hazards that will never be completely eliminated. Do your best to devise solutions that will minimize the risk to you, your family, and your employees.

Now that you have a list of problems and solutions, you should begin to categorize your solutions. Most likely, the major considerations in implementing your solutions will be the expense and "hardship" involved. Using your list of problems and solutions, rank each as Easy (E), Moderate (M), or Difficult (D) to accomplish.

After categorizing your solutions according to difficulty or expense, enter each on the appropriate forms (extra forms may be needed). For each list, determine which of the solutions is most important. Situations presenting serious risk of injury to your family should be given the highest priority. Rank each solution as High (H), Medium (M), or Low (L) priority. Then assign a target date for implementing solutions that eliminate or minimize the hazard.

Reducing hazards on your farm will not be an overnight process. Take time to develop solutions and set target dates that are realistic. For simple tasks, or particularly hazardous situations, such as a missing PTO guard, set a completion date in the near future and get the problem solved. Other solutions, especially very expensive ones or those requiring significant changes to the farmstead, may have a target completion date that is months or even years in the future.

72 Appendix

Name of Farm	-	Date Evaluated
Farmstead and Buildings	OK	Corrective Actions Needed
Farmstead and buildings free of trash, debris, or junk which could cause falls or be a fire hazard.		
Buildings, outdoor work areas are well lighted.		
Above ground fuel tanks are at least 40 feet from any building.		
"NO SMOKING" signs are displayed near fuel storage and refueling areas.		
Weeds and other easily combustible materials are kept away from fuel storage areas.		
Telephones are located in each major farm building	· 🗌	
Emergency phone numbers are clearly posted.		
Fully charged ABC fire extinguisher is located in each farm building.		
Well maintained first aid kit is located in each major farm building.		
Electrical wiring is in good condition, supported in conduit.		
Wiring insulation is in good condition, not cracked, broken, or brittle.		
Electric outlets are 3-prong grounded type.		
Stairs, ladders are in good condition.		
Stairs are clear of objects and slippery substances, and have handrails.		
Floors are free of broken concrete, slickspots, or bad spots which could cause falls.		

Farm & Ranch Safety Inventory

OK	Corrective Actions Neede	d
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Entrances to grain, feed, or silage storage areas can be secured.	
Flowing grain hazard warnings are posted at storage facilities.	
Silo and bin ladders are in good condition.	
All bins have both inside and outside ladders.	
Fully charged ABC type fire extinguisher is available in crop storage area.	
Approved respirators are available when handling dusty grain or feed, or cleaning bin.	
Warnings concerning dangers of silo gas are posted.	
Storage and drying area free of trash or other fire hazards.	
Electric motors are placed in areas with adequate ventilation, and free of trash or other fire hazard.	
Overhead power lines are located away from bins	
Chemical Storage Areas	
Crop chemicals are stored in a secured room or building to keep out children and animals.	
Chemical storage area entrance clearly marked and posted concerning hazards inside.	
Chemicals stored in labeled, original containers.	
Chemical containers are properly disposed.	
Smoking is prohibited in and around chemical storage buildings and "NO SMOKING" signs posted.	

Crop and Feed Storage Areas

OK

Tractors

Corrective Actions Needed

All PTO master shields are in place.	
Reflectors, SMV emblems are clean and unfaded.	
Tractors are equipped with ROP's.	
ROP's equipped tractors have seat belts.	
Five pound (minimum) ABC type fire extinguisher is mounted on each tractor.	
All lights and flashers are in working order.	
Cab windows and mirrors are clean to maintain good visibility.	
Operator's platform is kept clear of grease, mud, and tools.	
Fuel, oil, and hydraulic systems are free of leaks, and are maintained at proper fluid levels.	
Tires are in good condition and kept at recommended pressure.	
Muffler and exhaust system is properly maintained.	
Each tractor is equipped with a No Rider decal.	
Tillage/Planting Equipment	
Equipment is marked with reflectors and lights for highway travel.	
Belts, chains, and shafts are adequately shielded.	
PTO components are properly shielded.	
Hydraulic components appear in good shape and free of leaks.	
Hydraulically raised equipment has transport locks to take load off hydraulic system during transport.	
Tires are inflated to recommended pressure.	

Wagons & Hauling Equipment

OK Corrective Actions Needed

Lights and reflectors are in place and working.	
Belts, pulleys, shafts, chains are properly shielded.	
Each piece of equipment has clean, unfaded SMV emblem.	
Tires appear to be in good condition and properly inflated.	
Wheel lugs are in place and tightened.	
Safety hitch pins are used.	
Harvesting Equipment	
Guards and shields are in place.	
Ladders and steps are in good repair.	
Each machine is equipped with an SMV emblem.	
Combine equipped with at least 10 pound ABC type fire extinguisher.	
Operator's manual is in cab for reference when making adjustments.	
Fuel, oil, and hydraulic system is free of leaks.	
Belts and chains are properly adjusted.	
Safety latch, jack stand, and/or safety locks are in working order.	
Flashers and lights are working.	
For PTO operated machines, PTO components are properly shielded.	

Chemical Application Equipment

Necessary personal protective equipment (gloves, goggles, etc.) is available for each applicator.	
Fittings, hoses, and lines are in good condition	
Control valves work easily by hand without leakage.	
All pressure gauges read accurately.	
Sprayer tank covers fit snugly to prevent spillage.	
On PTO-driven applicators, driveline components	

Anhydrous Ammonia Application Equipment

Valves and fittings are in good repair.	
Worn hoses are replaced promptly.	
Rubber gloves and splash goggles are available for use with each applicator.	
Each nurse tank or applicator has five gallons of fresh water mounted on it (as required by law).	
Nurse tanks or applicators moved on public highways are equipped with SMV emblems.	
Tires and running gears on nurse tanks are in good condition.	

OK Corrective Actions Needed

Livestock Facilities	_	
Doorways and aisles are free of obstructions and sharp projections.		
Ceilings are 8 - 12 feet and door frames are at least 8 ft. high with a minimum width of 4 feet.		
Windows are inaccessible to horses and livestock, covered with bars or screening and made of safety glass.		
Water sources are grounded to prevent accidental electrical shock.		
Cross-ties and other tying areas with safety release snaps are provided.		
Grooming and wash stalls are in open areas; clean and well-drained to prevent wet and/or icy barn floors.		
Hay is stored away from heat and electrical sources, and in a separate building from where livestock and horses are housed.		
Hay and bedding are stacked so as not to fall on top of anyone.		
Tack rooms have adequate racks and storage areas to keep equipment off the floor and out of the path of traffic.		
Turnout paddocks and pasture fencing is 4 - 6 feet in height and free of protrusions.		
Gates are at least 4 feet wide, swing freely and have no sharp edges or corners.		
Ponds, irrigation and open drainage ditches are fenced.		

OK

Corrective Actions Needed

Personal Protective Equipment	ОК	Corrective Actions Needed
Safety glasses available at all grinders and other sources of eye hazards.		
Arc welding helmets and welding goggles are in good condition and fitted with the appropriate lenses.		
Respirators are available for dusty tasks such as sanding.		
Face shields are available for every power tool.		
Hard hats are available for construction activities.		
Wash-up area provided.		
First aid kit available and maintained.		
Shop		
All fuses and circuit breakers are clearly identified.		
Floors are clean and free of grease and tripping hazards.		
No flammable waste.		
Air used for cleaning is regulated to not more than 35 psi.		
Stacked materials secured against falling.		
Adequate ventilation is provided.		
Load capacity plainly marked on each lifting device.		
Safety hooks used on all chains.		
Jack stands available. (no concrete blocks)		

OK Corrective Actions Needed

All hammer handles in good condition.	
Punches and chisels in good condition. (no mushroomed heads)	
Tools free of grease and oil.	
Cutting tools are sharp.	
All stationary power tools are secured to the floor.	
All stationary power tools and equipment are grounded.	
Table saw equipped with guard and push stick available.	
Grinders have guards and properly adjusted work rests.	
Battery charging area away from welding area.	
All belts, pulleys, and chains guarded.	
Extension cords and portable power tool cords are in good condition.	
Welding area kept dry.	
Compressed gas cylinders are secured in place.	
Cylinders turned off when not in use.	
Arc welding cables in good condition.	
Ventilation adequate to dissipate welding fumes.	

Shop Tools

Portable Augers and Elevators	UK	Corrective Actions Needed
All belts and chains are properly shielded.		
Auger inlet is shielded to prevent contact with flighting.		
Winch is in good working order and equipped to prevent "freewheeling".		
Winch cable is free of corrosion or damage.		
PTO operated components are properly shielded.		
No overhead power lines are located near where portable augers or elevators are commonly used.		
Fields and Roadways		
Fields are free of stumps, large rocks, or other obstacles to cropping operations.		
Large immovable obstacles are flagged or well marked for visibility, even in tall crops.		
Buffer zones along drainage ditches give tractors or combines ample turning room.		
Low branches of trees are trimmed to allow machinery to pass underneath.		
There is clear vision in both directions as you enter the highway from the farm driveway.		
The driveway entrance is wide enough to permit entering or exiting without swinging truck, tractor, or combine into opposite lane of traffic.		
The corners of all intersections on farm are kept clear of tall crops which might block vision of drivers on the road.		

OK Corrective Actions Needed

Problem/Hazard	Proposed Solution	Difficulty

Problem/Hazard	Proposed Solution	Difficulty
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Solution or Corrective Action to be Taken	Priority Rank	Target Date
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Solution or Corrective Action to be Taken	Priority Rank	Target Date