


Farm Hazard Analysis

Module 3




RURAL FIREFIGHTERS DELIVERING AGRICULTURE SAFETY & HEALTH



1

Hazards & Risk

Hazard: Any existing or potential condition, which by itself, or in interacting with other variables, can result in injury, illness, death, or other losses. *Short-hand - potential for causing injury or loss.* It's objective!




Risk: A measure of the combined probability and severity of possible harm; mathematically, risk is the product of probability x severity. *Short-hand - how likely is it to happen?* It's subjective!



2

Hazards & Risk

Hazard: Any existing or potential condition, which by itself, or in interacting with other variables, can result in injury, illness, death, or other losses. *Short-hand - potential for causing injury or loss.* It's objective!



Risk: A measure of the combined probability and severity of possible harm; mathematically, risk is the product of probability x severity. *Short-hand - how likely is it to happen?* It's subjective!

3

Identifying Hazards and Assessing Risk

SaferFarm Hazard Analysis Tool:

- Recognizes hazards are not typically “Yes” or “No”
- Allows for evaluating & ranking of hazard

SaferFarm.org – Farm Hazard Analysis Tool

Agricultural Machinery

PTO Drivelines

Least Protection

1. Driveline shaft shield is missing or has loose ball end.
2. Driveline shaft shield is in place but is bent, cracked, shored, and/or does not rotate freely.
3. Driveline shaft shield is in place, is in good condition, and it can easily catch by hand. Chain connectors should have coatings.

Most Protection

Item	1	2	3	4	5
1					
2					
3					

Farm: _____
Inspector: _____
Date: _____

FarmMedicine PennState



7

SaferFarm.org – Farm Hazard Analysis Tool

Tractors

Hydraulic Hoses

Least Protection

1. Hoses are leaking fluid and/or external rubber layer is separated from steel braiding.

2. Hoses have numerous cracks and gouges. Hoses are taped or modified to cover cracks and gouges.

3. Hoses have some restorable cracks and gouges. The hoses are not coiled.

4. Hoses are in good condition, show some wear, excessive hose is coiled.

5. Hoses have brand new appearance, excessive hose is coiled.

Most Protection

Item	1	2	3	4	5
1					
2					
3					
4					
5					

Farm: _____
Inspector: _____
Date: _____

FarmMedicine PennState



8

SaferFarm.org – Farm Hazard Analysis Tool

Tractors

ROPS

Least Protection

1. No ROPS installed on the tractor or tractor with weather capability.

2. A modified or homemade ROPS.

3. Two-post ROPS.

4. ROPS cab with missing or improperly chocking door or missing window glass, a 4-post ROPS.

5. ROPS cab with all glass in place and a door that shuts properly.

Most Protection

Item	1	2	3	4	5
1					
2					
3					
4					
5					

Farm: _____
Inspector: _____
Date: _____

FarmMedicine PennState



9

Hazard Identification and Assessment

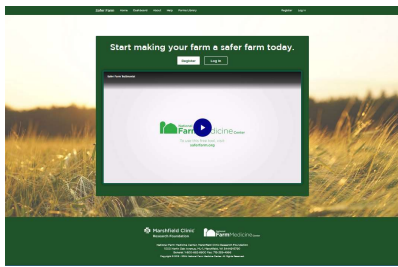
SaferFarm
Understanding Hazard Audit Results

RANK	PROTECTION	HAZARD LEVEL	CORRECTIVE ACTIONS
1	LEAST PROTECTION	SEVERE OR HIGH	Hazard should be fixed, repaired, or improved immediately.
2		MODERATE	Hazard should be fixed, repaired, or improved soon.
3		NEGLECTABLE OR LOW	Hazard should be fixed, repaired, or improved when possible.
4			
5	MOST PROTECTION		



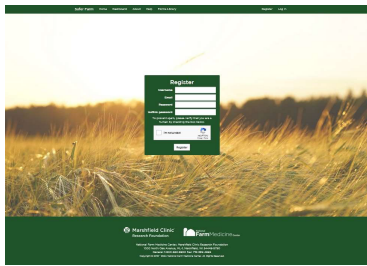
10

Mobile friendly website – <https://saferfarm.org/>

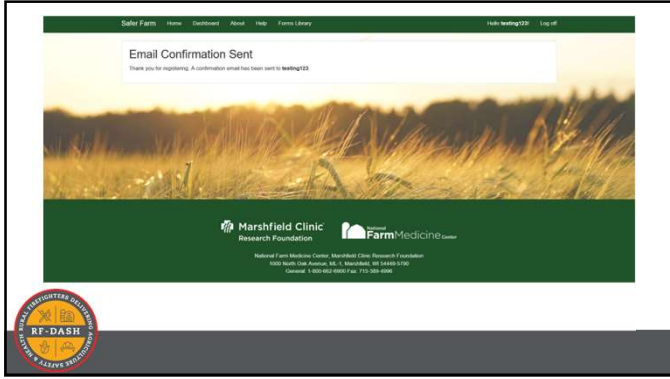


11

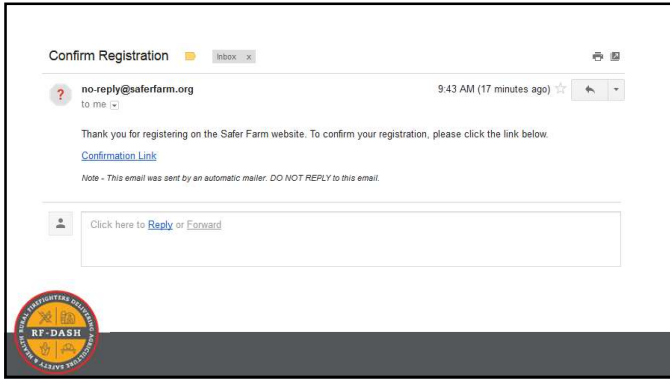
Mobile friendly website



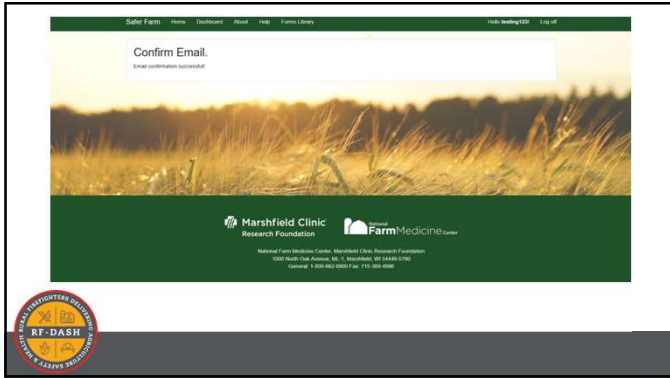
12



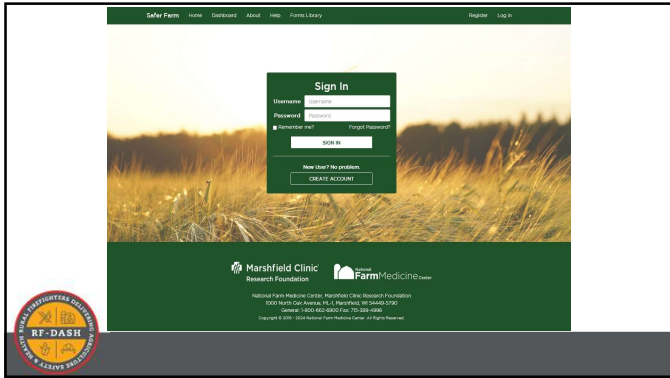
13



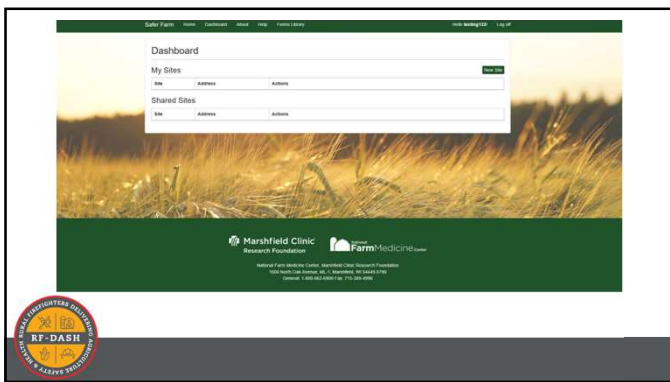
14



15



16



17

Starting a New Inspection	
Steps	Inspection Groups
1. Select "Dashboard"	1. Geo-located (barns, electrical panels, tanks, silos, etc.)
2. Select "New Site"	2. Not Geo-located (tractors, implements, etc.)
3. Create site name, e.g. <i>Brown's Farm</i> , and enter address information	3. Grouped Items (tractors, buildings, implements, etc.)
4. From the Dashboard, select "Inspections" associated with new site	3. Non-Grouped Items (tanks, ponds, etc.)
5. Select "New Inspection"	
6. Create inspection name, e.g. <i>Bendixen-IdahoFallsFire-11-2-2017</i>	
7. The first inspection will require you to verify address/map - toggle through suggested addresses; select the most accurate - gold star icon is the saved location	
8. Select the "Menu" tab (three dots)	

18

Questions?

Connect with us!

1-800-662-6900

nfmcs@mcrcf.mfldclin.edu



@FarmMedicine
@nccrahs
@umash_umn