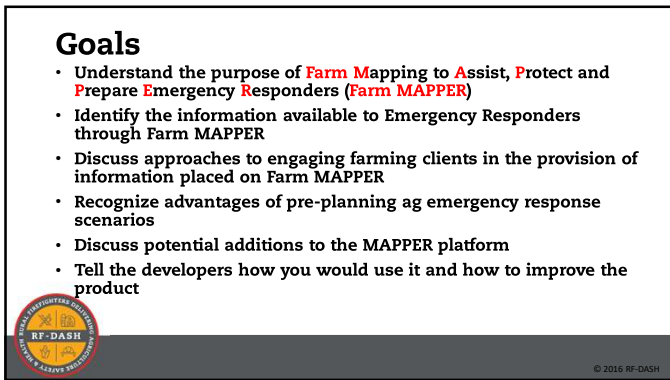
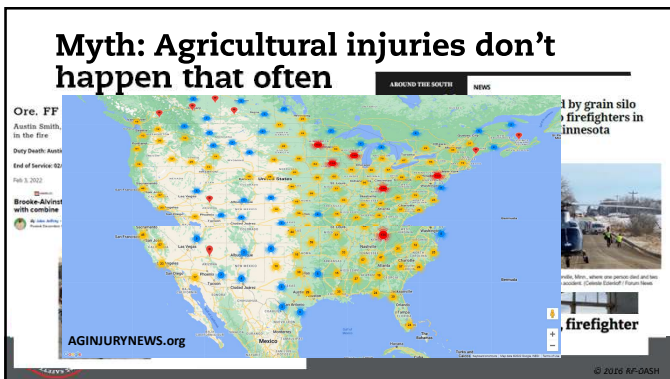


1



2



3

When you've seen one farm, you've seen one farm

- Each farm is a Puzzle to be solved
 - Right of entry not usually yours
 - Stuff gets moved
 - There is dangerous stuff about
 - Emergency access



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Benefits of Pre-Planning and Mapping Farms

- Protect Fire/EMS personnel
- Diverse agricultural operations
 - "When you've seen one farm, you've seen *one farm*"
- Improve and expedite responses
 - Efficient use of resources
 - Improved coordination
 - Reduction of injuries
- Build relationships with farmers



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Pre-Planning Farm Emergencies



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Pre-Planning Farm Emergencies



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Pre-planning Farm Emergencies

- Farms are industrial facilities with many hazards
- Understand what emergencies can happen
- Visit each farm in your district to walk around/tour
- Preplan exercise-commit to writing-SOP/SOG
- Set up scenarios to test procedures and guidelines



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Farm Pre-Plan: Tour



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Farm Pre-Plan: SOP/SOGs



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Farm Pre-Plan: Animal Emergencies



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Farm Pre-Plan: Machinery Issues



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Farm Pre-Plan: Test SOP/SOGs



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Extrication & Treatment Issues

- How to extricate
- How to treat patient
- What resources are needed?
 - Mutual aid personnel
 - Mutual aid tools
 - Wreckers
 - Helicopter, ALS
 - Etc.



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Toolbox and Special Tools



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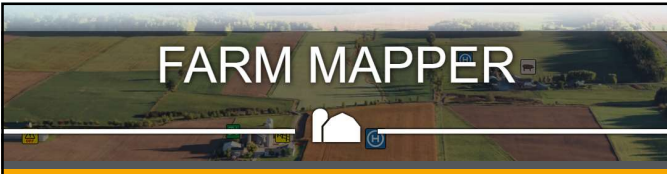
Special Resources - Machinery



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FARM MAPPER



Farm MAPPER

A Tool for Pre-Planning and Mapping Farm Responses



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Farm

- Farms are complex, dangerous, changing, unpredictable places
 - Hazards and Challenges
 - Chemicals
 - Fuels
 - Large dangerous animals
 - Confined spaces
 - Manure lagoons
 - Questionably maintained roads and bridges
 - Large distances
 - Widely dispersed structures



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Mapping

The screenshot shows a web-based mapping application titled 'MAPPER'. The main area displays a satellite-style map of a residential or commercial development with several numbered markers (1-8) and colored icons. A sidebar on the right contains a 'Filter' section with checkboxes for 'All', 'New', 'Old', and 'Deleted'. Below the map, there are fields for 'Map Style', 'Map Data', 'Map Labels', and 'Map Scale'. The bottom left corner features the RF-DASH logo, and the bottom right corner has the text '© 2016 RF-DASH'.

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to Assist

The 'to Assist' section contains two photographs. The left photo shows two firefighters in full gear, including helmets and oxygen tanks, standing in front of a red fire truck. The right photo shows a fire truck with a crane attachment at a farm scene, with a yellow crane lifting a large object. The RF-DASH logo is in the bottom left, and '© 2016 RF-DASH' is in the bottom right.

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to Protect

Discovery Bay: Bull put down after rancher found dead in field
Shirley Depue died after she was attacked by a bull while working in a field.

Courtesy of East Bay Times News

Irritated bull hampers first responders in Calvert County, Md.
Members of the Saint Leonard Volunteer Fire Department responded to a 911 call when they were met by a protective Texas Longhorn.

Courtesy of WUSA Channel 9 News

The 'to Protect' section features two news stories. The left story is about a bull in Discovery Bay, with a photo of a man in a field. The right story is about an irritated bull in Calvert County, Md., with two photos: one showing a close-up of a bull's face with a yellow circle around its eye, and another showing a black Texas Longhorn bull in a field. The RF-DASH logo is in the bottom left, and '© 2016 RF-DASH' is in the bottom right.

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and Prepare




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Emergency Responders





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Farm Mapping to Assist, Protect and Prepare Emergency Responders

- **Farm:**
 - Designed to be used for agricultural operations.
- **Mapping:**
 - Explore and place icons representing resources and hazards.
- **To Assist:**
 - On-site, usable information to help with incident response.
- **To Protect:**
 - On-site identification of potential hazards.
- **To Prepare:**
 - Interact with agricultural community in pre-event staging drills, etc.
- **Emergency Responders:**
 - Firefighters and EMS personnel.

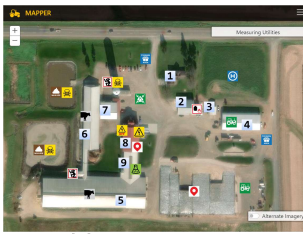


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FARMMAPPER.ORG
 FARM MAPPING TO ASSIST, PROTECT AND PREPARE EMERGENCY RESPONDERS

Farm MAPPER is a free, interactive, and data secure web-based tool developed by the National Farm Medicine Center (NFMC) to assist first responders with pre-planning farms and ranches. The tool aims to make responding to farm emergencies safer by providing first responders with onsite information about the *hazards, resources, and physical layouts* of agricultural operations.



Features include:

- Farm-specific icons
- Ability to input image & text descriptions of farm implements
- Tools to measure distance & area
- Password-protected data accessible only to the original mapper




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Farm MAPPER Details

- Mapped data is only accessible to the original mapper
 - Fire departments are encouraged to have a department account
 - A 'sharing' feature is in the works
- The tool is evolving
 - We want to hear from you!
- Building relationship with agricultural community is key

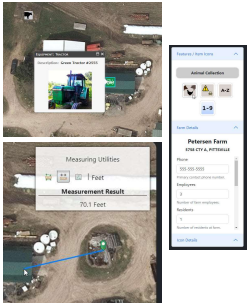



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FARM MAPPER 2.0

- ESRI conversion for improved imagery and features
- Measuring tool to calculate
 - Distances
 - Square footage of buildings
 - Markers
- Alternate imagery toggle
- Enhanced data for each placed marker, offering more context and content
- Image upload capabilities
- Quick-access to add new farm sites and navigate between existing farms easily
- More updates will be continued to be rolled out in the future!






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Top 10 Mappable Items

Don't get kinked up!
 This is our top ten list of important items to know about when pre-planning your farm emergency response. It's completely up to you with how you want to organize or change what you believe is important information to know!

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Number 1
Meeting place - Locate and verify the safety of each person.

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Number 2
Utility Shut offs - Electricity - Gas (Butane -LP - Natural Gas)
Look up for over head wires (Aerial fire operations)
Link phone numbers to dispatch - Know the utility







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Number 3

Chemical Storage – Pesticides, Fertilizers, Fuels, Others





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Number 4

Water Supply (fire response)





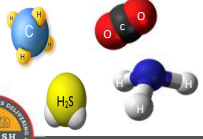
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Number 5

Manure Storage – Above ground or below

- Hydrogen Sulfide
- Ammonia
- Carbon Dioxide
- Carbon Monoxide
- Methane



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Number 6

Confined Space



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Number 7

Machinery - High \$\$\$ Storage




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Number 8


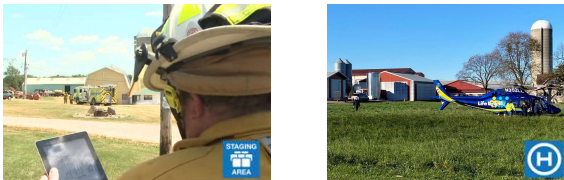
Special Hazards (unique to the normal farm)
Special Occupancy - health of the farm.
Security



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Number 9
Staging and LZ info



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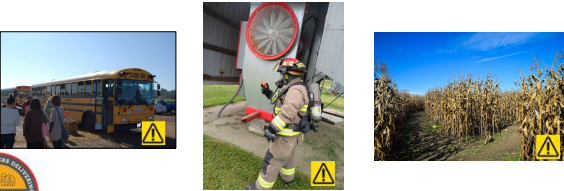
Number 9
Staging and LZ info



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Number 10
Other - Something unique to this operation!
For example: Agri-tourism; unusual traffic and personnel.



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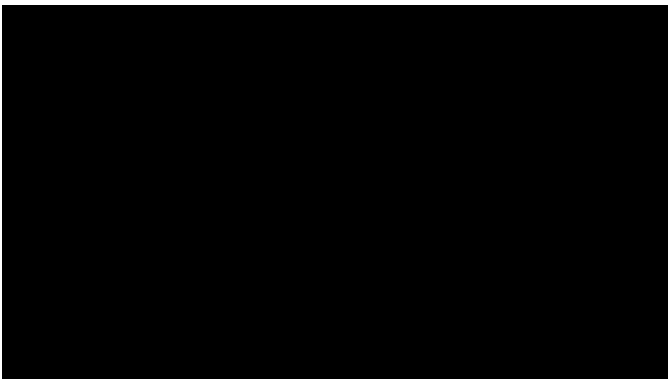
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Questions?

Connect with us!
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nfmcsh@mcrf.mfidclin.edu



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