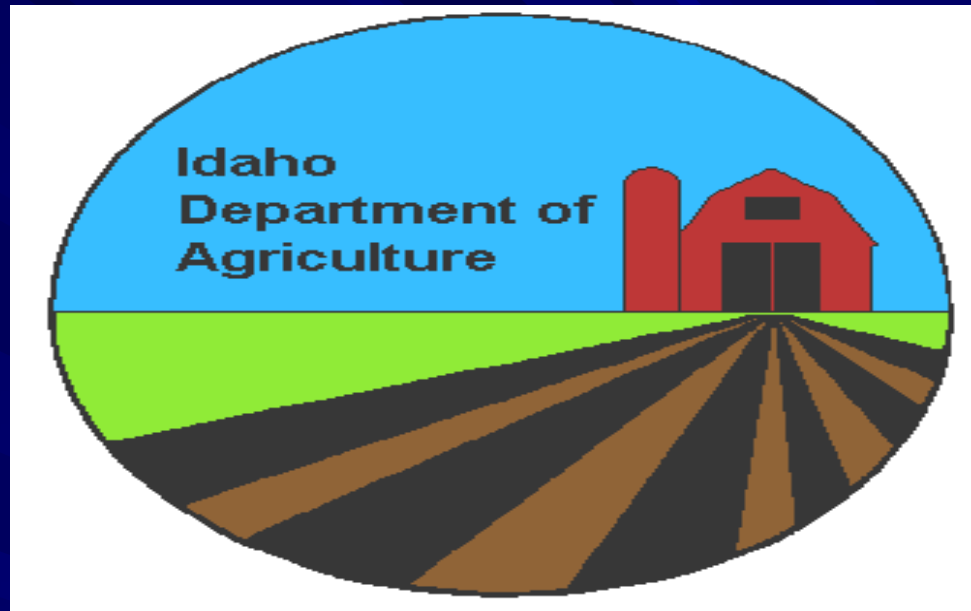


# The Pesticide Stewardship Alliance





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# Topics to be Covered

- Soil Fumigation in Idaho
- Fumigant Management Plans



# Soil Fumigation In Idaho



# ISDA Monitoring

- Since 1999, the ISDA has conducted 49 routine use inspections with over 50% revealing no violations.
- The majority of the cases with violations dealt with lack of PPE; WPS; chemigation equipment; and licensing.
- None of the use inspections revealed any issues with odors or complaints from bystanders.

# Idaho Incidents

- Only 9 reported incidents from 1999 through 2008
  - K-pam shanked in near Parma – Oct 20, 1999
  - Metam spilled on highway near Blackfoot – Nov 01, 1999
  - Metam dripping shanks near mobile home park Nov 15, 2002
  - Odors from shanked in Chloropicrin disrupted Halloween party – Oct 27, 2003
  - Chemigation of Metam onto adjacent lawn – Oct 29, 2003
  - Telone II spill on county road when moving application equipment – Oct 6, 2003
  - Odors from Telone C17 shanked in too shallow – Oct 15, 2004
  - Truck spilling Metam on highway – 11/21/2005
  - Odors from Chemigation of Metam – Oct 13, 2006
- This is not a major issue in Idaho



# Crops Requiring Fumigation

- Potatoes – 415,000 acres
- Sugar Beets – 212,000 acres
- Onions – 9,100 acres

## Total Estimated Acres Fumigated Annually

- 245,000 acres

## Total Number of Certified Applicators

- Approximately 130 total
- Approximately 55 do shank applications

# Potato Cyst Nematode - Idaho

- Approximately 10,000 acres in “Regulatory Area”
  - 224 production fields
  - 459 seed production fields
  - 58 facilities
- Eight fields infected with PCN
  - Two counties: Bonneville and Bingham
- Total number of acres fumigated annually
  - 1061 acres



# Potato Cyst Nematode Control





# Potato Cyst Nematode Control









# Potato Cyst Nematode Control





# Fumigation Management Plans

- ISDA and Registrant provide training to applicators
- Commodity and Space fumigation
  - Nine cases involving commodity fumigation
    - licensing, records, human exposure, deactivation, proper canisters, rep sales, inventory
  - Number of non-compliance without FMP = 3
- Some confusion on whether the facility is responsible parts of the FMP or the applicator is responsible for all of it.

# Fumigation Management Plans

- Label booklet consists of 30 pages
  - It is confusing to know what is applicable and what is not
  - There are 4 pages that address FMP
- Fumigation Management Plan Templates
  - Consist of approximately 18 pages
  - Difficult to get applicators to maintain the State record keeping requirements

# Site-specific Soil Fumigation Management Plans

- General overall support of the idea
- Who will be the “Responsible Party”
  - Farmer
    - Typically involved heavily with harvest activities
    - Relies heavily on crop consultant/fieldman
  - Handler
    - Monitors fumigants applied by chemigation
  - Crop Consultant/Fieldman
    - Mediator for farmer & applicator, but doesn’t want liability
  - Custom Applicator
    - Unfamiliar with area and who to contact
    - Relies on crop consultant/fieldman

# Soil Fumigation Management Plans

- What elements are going to be in the plan?
- Use Commodity/space fumigation plan as a model
- Much more time involved to draft & implement a plan
  - Much larger area to cover (field versus facility)
  - Larger number of people to contact
- Who will be responsible for drafting the plan?



# Soil Fumigation Management Plans

## ■ Labels

- Typical label is approximately 8 pages
- Soil Fumigants will need a label booklet

## ■ Soil Fumigation Management Plan Template

- 8 pages
- There is still a lot of information to fill out

# Summary

- Fumigation Management Plans are doable
  - Need to identify who is responsible for the plan
  - What items to address in the plan
- More education on developing FMPs is needed
  - Can't be too burdensome or they won't get done
- States have the ability to enforce FMPs
  - Use inconsistent with the label



There may be some days when even Jesus can't get it right



# THANK YOU! QUESTIONS?

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