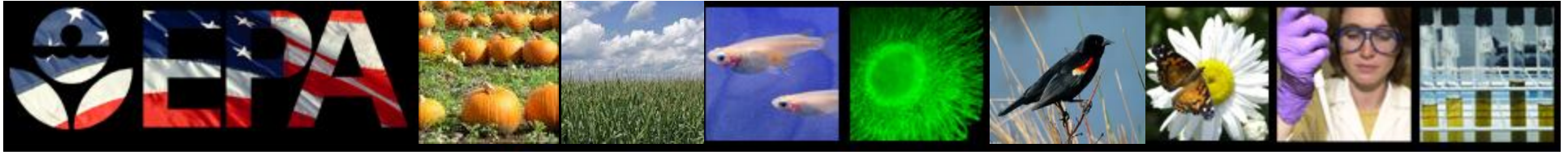


# *Methyl Bromide Reregistration Status*

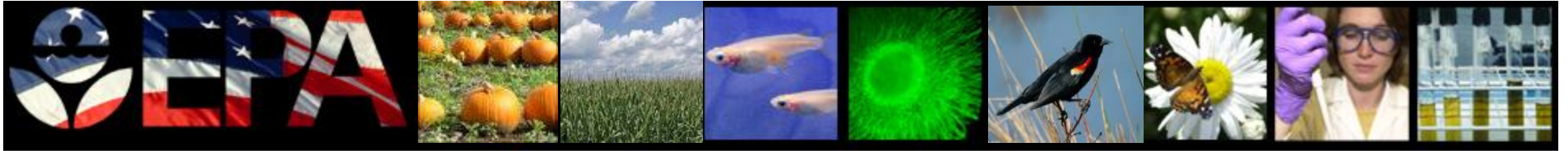
Methyl Bromide and Alternatives in Food Plants:  
Past, Present and Future

May 11, 2010



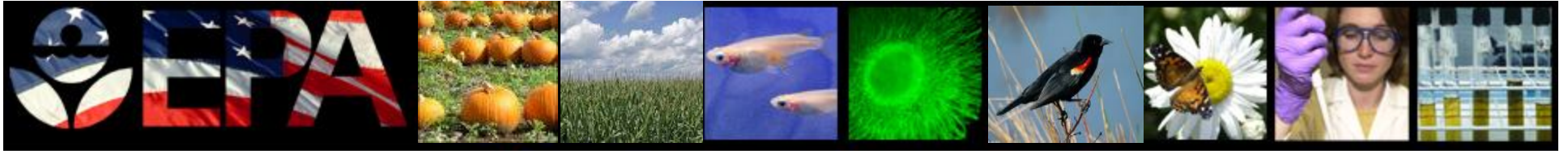
# *Overview of Regulatory Process*

- Decision Issued in August 2006
  - Covers registered “commodity uses”
  - Developed through a 6-phase public participation process
- Soil uses of methyl bromide are addressed through a separate decision



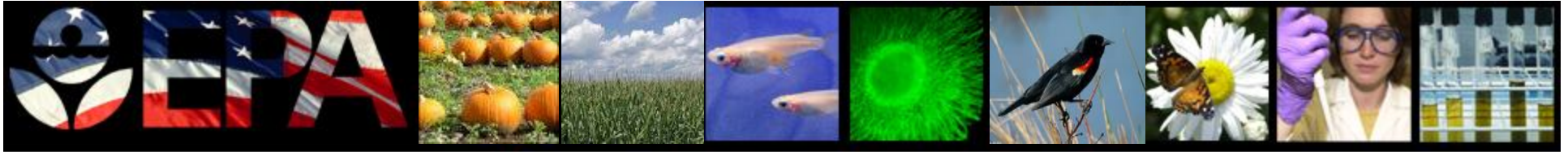
# ***Risk Assessment Overview***

- Dietary and drinking water exposures do not exceed levels of concern
- Concerns for acute exposures to residential bystanders
- Concerns for acute worker risks



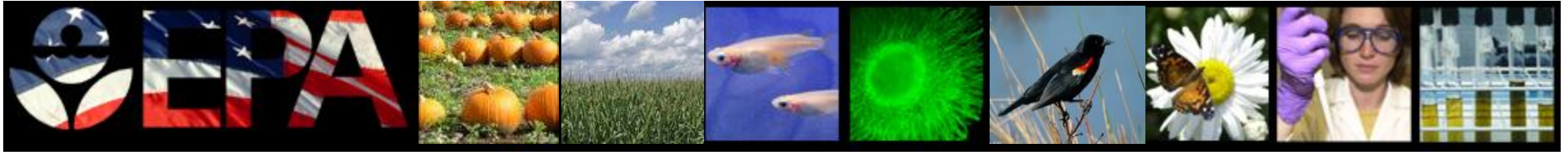
# *Mitigation Measures*

- Site-specific FMPs
- Buffer zones
- Posting of treated areas and commodities
- Respiratory and air monitoring
- New aeration procedures
- Record keeping



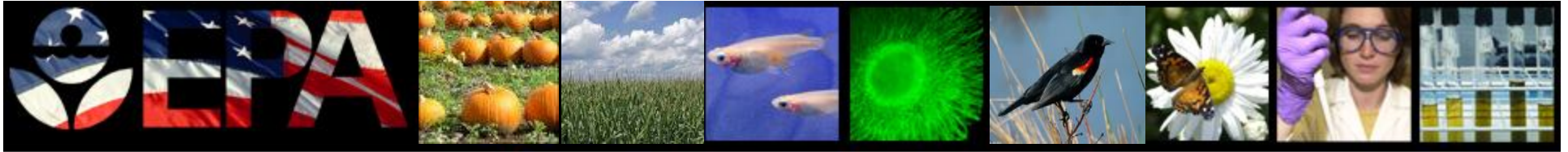
# ***Fumigant Management Plans***

- Fumigant users must prepare a written, site-specific plan before fumigation begins
- FMPs help:
  - Ensure fumigators successfully plan all aspects of a safe and effective fumigation
  - Prevent accidents, ensure label compliance, and identify appropriate procedures in case of accidents or unforeseen events
  - Demonstrate compliance with label requirements and are a tool for verifying compliance



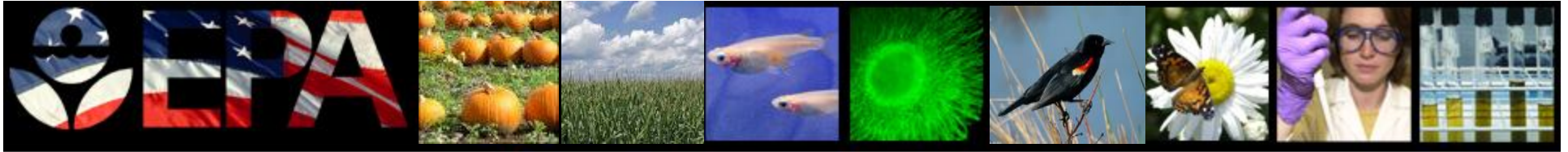
# *Major Elements of FMPs*

- General site and applicator information
- Treatment and aeration procedures
- Buffer zones
- Authorized on-site personnel
- Personal protective equipment
- Posting and notification plans
- Record keeping
- Emergency procedures
- Site security
- Hazard communication



# ***Buffer Zones***

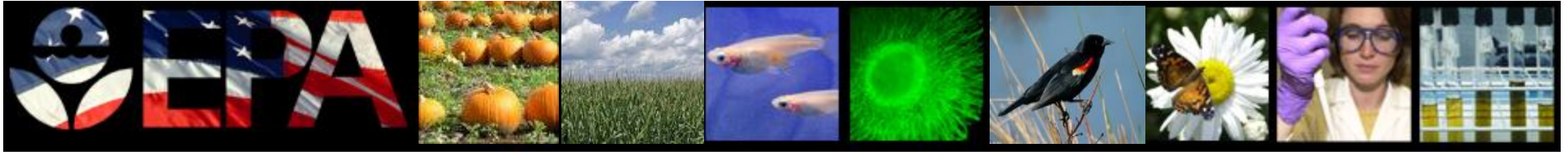
- Required during treatment and aeration periods
- Minimum buffer of 10 feet
- Based upon application rates, loss rates, ventilation systems, and enclosure/chamber/structure volumes



# ***Posting and Notification***

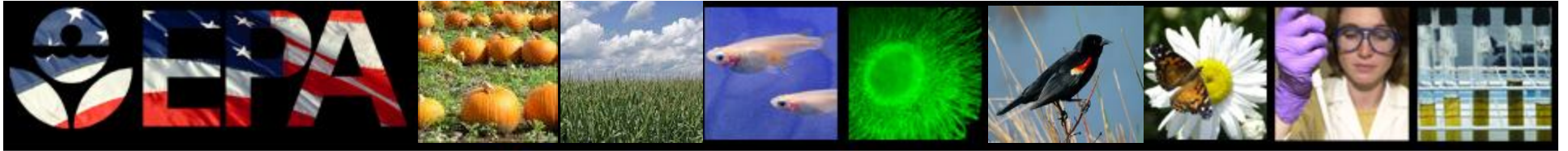
- Provide workers with access to material safety data sheets
- Treated areas and treated commodities must be clearly identified
- Vehicles leaving the fumigation site must be placarded with appropriate DOT warning signs
- Provisions for community notification





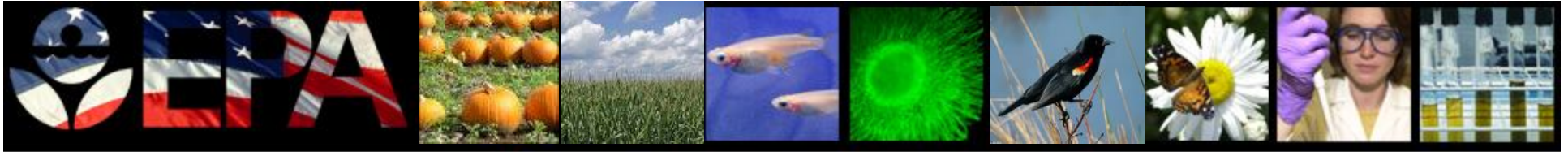
# ***Respiratory Protection***

- Required for anyone entering any area where concentrations exceed 1 ppm for an 8-hour TWA
- Procedures established for discontinuing the use of respiratory protection



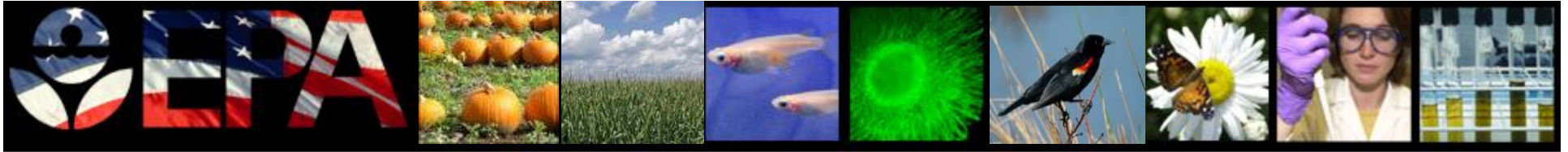
# *Aeration Procedures*

- Minimum aeration times
  - 4 hours if mechanically ventilated
  - 12 hours if passively ventilated
- Concentration within the treated commodity must be no greater than 5 ppm at the end of the aeration process



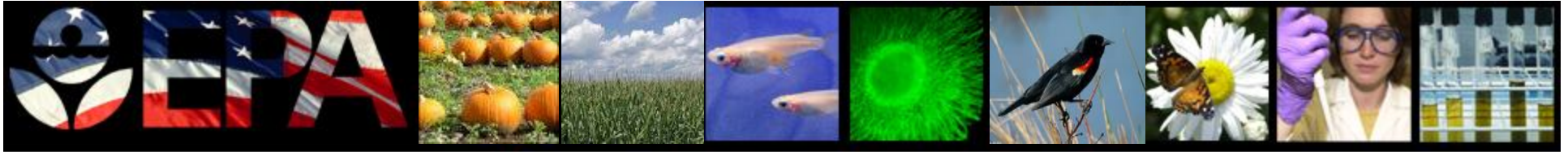
# *Record keeping*

- Records must be kept on-site
- Must be made available to all fumigation workers, other on-site workers and government authorities
- Maintain for at least 2 years



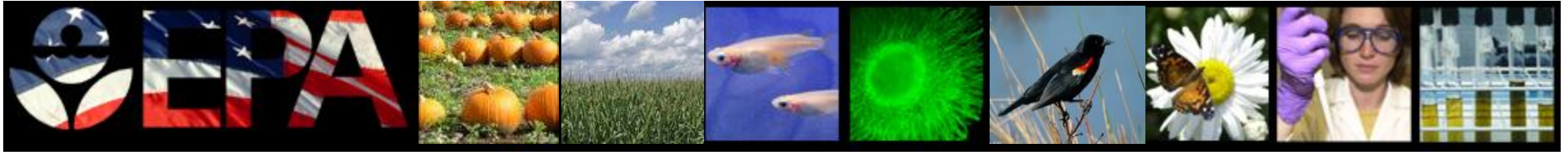
# *Post-Decision Activities*

- Data Call-In issued in July 2009
- Buffer zones were re-modeled for several scenarios based on new data
- Site-specific buffer zones were modeled for certain sites administered by USDA-APHIS
- Buffer zone calculator and compliance manual are under development
- Discussions of protocols to characterize exposures from handler and forklift work activities and measure area and/or breathing zone air concentrations
- Voluntary cancelation of unsupported uses



# ***Additional Changes Being Considered***

- Updating FMP, posting, PPE, record keeping requirements
- Amending the aeration requirement to ensure risks are not exceeded
- Changes to labeling of treated commodities
- Including best management practices on labels
- Including Information on labels on how to comply



# *Future Activities*

- Continue to work with stakeholders on potential changes to mitigation
- Amend TRED/RED
- Issue another DCI that calls for new product labels (new labels would not appear for at least 8 months after DCI issued)
- Implement reassessed tolerances
- Respond to comments
- Develop templates and tools to help users comply with labels
- Registration Review