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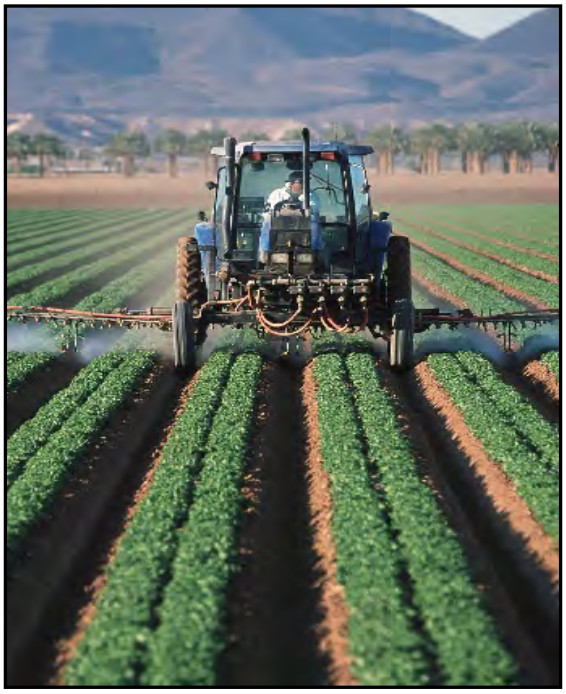
Water Quality Enhancement Activity – WQL13 –High Level Integrated Pest Management to Reduce Pesticide Environmental Risk.



Enhancement Description
Utilize advanced Integrated Pest Management (IPM) prevention, avoidance, monitoring, and suppression techniques, and only apply the lowest risk pesticides available (or if higher risk pesticides are used appropriate mitigation techniques are used to ameliorate the risk) in an environmentally sound manner when monitoring indicates that an economic pest threshold has been exceeded. Pesticide applications must follow all label requirements.

Land Use Applicability
This enhancement is applicable on crop, pasture, forest and range land.

Benefits
This enhancement will improve water and air quality by reducing toxic pesticide runoff, leaching, drift and volatilization, and also reduce pesticide impacts on pollinators and other beneficial insects.

Criteria for utilizing high level Integrated Pest Management (IPM)
IPM is a sustainable approach to pest control that combines the use of prevention, avoidance, monitoring and suppression strategies, to maintain pest populations below economically damaging levels, to minimize pest resistance, and to minimize harmful effects of pest control on human health and environmental resources. High level IPM suppression systems include effective agro-chemicals and cost effective biological and cultural controls as well as the lowest risk pesticides available that can sustain the cropping system.

High level IPM includes:

1. This enhancement requires a written IPM plan and implementation of activities that include:
    a. Prevention techniques such as cleaning equipment and gear when leaving an infested area, using pest-free seeds and transplants, irrigation scheduling to avoid situations conducive to disease development, etc.
    b. Avoidance techniques such as maintaining healthy and diverse plant communities, using pest resistant varieties, crop rotation, refuge management, etc.

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c. Monitoring techniques such as pest scouting, degree-day modeling, weather forecasting, etc. to help target suppression strategies and avoid routine preventative treatments.
d. Suppression techniques such as cultural, biological and low risk chemical control methods, used judiciously to reduce or eliminate a pest population or its impacts while minimizing risks to non-target organisms.

Documentation Requirements for utilizing high level Integrated Pest Management (IPM)

1. A description of the high level IPM system that is utilized on all of the offered acres. This description should include each of the following items:
    - Pest prevention techniques
    - Pest avoidance techniques
    - Pest monitoring (scouting) techniques
    - Economic pest thresholds
    - Pesticide environmental risk analysis tool that was utilized (e.g., the NRCS Windows Pesticide Screening Tool - WIN-PST)
    - Pesticide application records with the specific management techniques that were utilized to reduce pesticide environmental risk (i.e., spot treatment, banding, pheromone traps, pesticide incorporation, etc.)

2. If formal IPM Guidelines with a numeric scoring system have been developed and approved by Extension, a completed set of those guidelines can be substituted for the documentation requirements in number 1 above.

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State Criteria

- This enhancement requires a written IPM plan and implementation of activities (techniques) that include:
  - Prevention, examples include:
    - Clean tillage and harvest equipment and gear between fields,
    - Using pest free seeds and transplants,
    - Irrigation scheduling to avoid situation conductive to disease development;
  - Avoidance, examples include:
    - Maintaining healthy and diverse plant communities,
    - Using pest resistant varieties,
    - Crop rotations,
    - Trap crops for pests,
    - Refuge management;
  - Monitoring, examples include
    - Pest scouting,
    - Degree-day modeling,
    - Weather forecasting; and
  - Suppression through cultural, biological and low risk chemical control methods.

Documentation Requirements

1. Provide a map indicating treatment area.
2. Provide a copy of IPM written plan including determinations for economic thresholds.
3. Provide copy of pesticide risk report (i.e. NRCS Windows Pesticide Screening Tool – WIN-PST, or UNL Weedsoft).
4. Complete the IPM and pesticide application table on the follow page for implemented IPM plan for all offered acres.

I certify that the following information meets specifications and has been provided to NRCS:

1. Written documentation of the activity performed per documentation requirements.
2. Copies of dated receipts for equipment or services purchased.

I understand that it is my responsibility to obtain all necessary permits and to comply with all laws, regulations and ordinances pertaining to the application of these activities.

Certified by: _____ Date:_____

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Field Information		Crop	Pest of Concern	Pest Prevention Techniques Used				If Pesticide Used			
Tract & Field	Acres			List Pest Prevention	List Pest Avoidance	List Pest Monitoring	Suppression Technique Used (Cultural, Biological, or Chemical)	Name	Date Applied	Rate Applied per acre	Method Applied
F123 & T1	*78.9*	*Bean*	*Broadleaf*	*Clean equipment in-between field*	*Crop rotation*	*Scouting*	*Chemical*	*Roundup*	*6/16/09*	*32 oz/a*	*Broadcast*