

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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**Conservation Stewardship Program
Utah Supplemental Information**

A"High level of IPM is using any four of the Conservation Treatment Techniques listed and defined in the CTR list in the 595 Spec Sheet