



CONSERVATION ENHANCEMENT ACTIVITY

E595129Z - Colorado

**CONSERVATION
STEWARDSHIP
PROGRAM**

Reduce ozone precursor emissions related to pesticides by utilizing IPM PAMS techniques

Conservation Practice 595: Integrated Pest Management

APPLICABLE LAND USE: Crop (annual & mixed), Crop (perennial), Pasture

RESOURCE CONCERN ADDRESSED: Air Quality Impacts

Enhancement LIFE SPAN: 1 year

Enhancement Description:

Utilize integrated pest management (IPM) prevent, avoidance, monitoring, and suppression (PAMS) techniques to reduce ozone precursor emissions related to pesticides.

Criteria:

- Documentation of producer's record of integrated pest management meeting all Integrated Pest Management (595) general criteria
- Utilize **at least four activities from the techniques below:**
 - Prevention activities include cleaning equipment and gear when leaving an infested area, attracting natural enemies, using resistant varieties, pest-free seeds and transplants, properly storing pesticides, and irrigation scheduling to limit situations that are conducive to disease development.
 - Avoidance activities include maintaining healthy and diverse plant communities, using pest resistant varieties, crop rotation, and refuge management.



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- Monitoring activities include pest scouting both pests and beneficial organisms, degree-day modeling, and weather forecasting to help target suppression strategies and avoid routine preventative treatments.
- Suppression activities include judicious use of cultural, mechanical/physical, biological and chemical control methods that reduce or eliminate a pest population or its impacts while minimizing risks to non-target organisms. Optimizing application timing, using precision application equipment, or substituting lower risk pesticides. When selecting an activity include at least one suppression activity to reduce emissions of ozone precursors, such as choosing low-emission application methods, selecting alternatives or avoiding use of emulsifiable concentrate (EC) formulations, use of precision application, solarization, or biofumigants.



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Documentation and Implementation Requirements:

Participant will:

- Prior to implementation, provide documentation for review showing producer's record of integrated pest management meeting all Integrated Pest Management (595) general criteria.
- During implementation, keep documentation, such as records, plans, receipts, showing the implementation of the activities selected.
- After implementation, make documentation available for review by NRCS to verify implementation of the enhancement.

NRCS will:

- Prior to implementation, provide and explain NRCS Conservation Practice Standard Integrated Pest Management (CPS 595) as it relates to implementing this enhancement.
- As needed, provide technical additional assistance to the participant as requested.
- After implementation, verify implementation by reviewing records kept during enhancement implementation.

State Documentation Requirements

- a) Plan map and a soils map showing sensitive areas
- b) A list of prevention and avoidance strategies that are being used or will be implemented, refer to CPS 595.
- c) A monitoring scouting plan including pest identified and economic threshold levels for each pest, if applicable.
- d) Environmental Risk assessment of planned suppression techniques (copy of USDA-NRCS Win-PST soil/pesticide interaction report), including the 595 IR mitigation spreadsheet to reduce environmental risk (minimum level of mitigation is based on WIN-PST soil/pesticide interaction rating hazard.
- e) For identified resource concerns associated with Air Quality-Chemical Drift, the minimum mitigation Index Score required is 20. For identified resource concerns associated with Volatile Organic Compounds (VOCs), apply at least one pesticide volatilization IPM technique. In some cases, an IPM technique such as Application timing, Ambient temperature, may provide sufficient mitigation for a VOC resource concern.
- f) Avoid the use of emulsifiable concentrate (EC) formulations
- g) Provide documentation of selected activity to reduce emissions of ozone precursors.

For additional information on BMPs in Colorado for agricultural pesticide use, visit: [Best Management Practices for Agricultural Pesticide Use](#)



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NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name _____ Contract Number _____

Total Acres Applied _____ Fiscal Year Completed _____

NRCS Technical Adequacy Signature

Date



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