

WASHINGTON CONSERVATION PRACTICE 595: JOBSHEET AND SPECIFICATION

Pest management: utilizing environmentally sensitive prevention, avoidance, monitoring and suppression techniques to manage weeds, insects, diseases, animals and other organisms that directly or indirectly cause damage or annoyance.

Purposes for Pest Management:

- Enhance the quantity and quality of agricultural products.
- Minimize the negative impacts of pest management activities on; **Soil, Water, Air, Plant, Animal and Human Resources.**



Pest Management Guidelines include:

- A site specific inventory of crop systems, targeted pests and resource concerns.
- Assessment of the environmental impacts of the current pest management activities.
- Purposes, resource concerns and client objectives for Pest Management planning.
- Evaluate and selection of alternative Integrated Pest Management (IPM) Strategies.
- Planned Prevention, Avoidance, Monitoring and suppression activities.
- Implementation and maintenance of planned mitigation activities and practices
- Evaluation of the plan's effectiveness at addressing the resource concerns and objectives.
- Operate and maintain the plan according to Pest Management 595 practice standard.
- Implement Pest Management as a component of a Resource Management System (RMS)

Benefits from Pest Management include:

Maximize economic returns.

Improve food, water, and air quality.

Minimize environmental risks.

Adapt and improve management techniques.

Integrated Pest Management IPM; is a systems approach used to identify, understand and effectively manage pest populations and infestations. IPM strategy includes **Prevention and Avoidance** techniques such as crop rotation, variety selection, planting and harvest dates, trap crops, sanitizing equipment and managing undesirable host plants. **Monitoring** techniques for target pests and beneficial species to document the populations or environmental conditions that determine when **Treatment Thresholds** are reached and **Suppression** techniques need to be implemented. Suppression techniques include **mechanical, biological and cultural** methods such as cultivation, pruning, mulch, fertility/pH management, preserving beneficial / predator populations and habitat, use of mating disruptors and other biological pesticide applications. **Chemical** suppression techniques such as the application of herbicides, miticides, nematicides, fungicides and general insecticides are important suppression techniques. Pesticides are applied according to label directions and often used as part of an integrated pest suppression strategy.

Resource Management Systems

Pest management is used as a component of a resource management system (RMS). Pest Management impacts and is impacted by other conservation practice standards when used within a system. Examples include use of Pest Management with crop residue management, nutrient management, Irrigation Water Management, conservation buffers, wildlife habitat improvement and other conservation practices to effectively address both natural resource concerns and the operator's objectives.



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General Criteria

- Integrated Pest Management (IPM) strategies shall be incorporated into the selection and evaluation of planned alternative methods.
- Implemented IPM strategies shall comply with all Federal, State, Tribal and local regulations; including Pesticide label directions.
- Mitigation techniques and practices must be planned, implemented and maintained to reduce identified environmental risks.
- Pest management plans that are components of an overall conservation plan shall recognize the requirements of all component practices standards.
- Address the additional criteria for specific resource concerns and identified purposes outlined in Pest Management 595 standard

Plans and Specifications minimum requirements:

- Map information: location and attributes of fields, soils, topography, sensitive resource areas and application setbacks.
- Resource concerns and client objectives from the benchmark inventory and risk assessments.
- Integrated Pest Management strategies, mitigation alternatives and relationships to resource concerns.
- Environmental risk assessment and interpretation using WinPst3 for all planned pesticide applications.
- Completed site specific Job Sheet and plan Specification worksheet.
- Documentation of operation and maintenance requirements including record keeping.

**An IPM worksheet template is available from NRCS to assist clients with Integrated Pest Management strategy evaluation and selection of appropriate prevention, avoidance, monitoring and suppression (PAMS) approaches to pest management. Attach to the Plan's Specification sheet.

**The Washington Practice and Management Mitigation Effectiveness Guide is available from NRCS to assist client with pest management techniques and conservation practices that have the potential to reduce pesticide impacts on water quality. The Effectiveness Guide is included with the Washington 595 Practice Standard. Selected mitigation of pest management activities shall be attached to the plan's specification worksheet.

Operation and Maintenance:

- Review and update the plan in order to incorporate new IPM technology and respond to crop system, pest complex and resistance changes.
- Develop and maintain pesticide safety and emergency spill response plans that address the risks of human exposure, unexpected spill or pesticide misapplications. Provide contact information including telephone numbers and addresses of local emergency treatment centers, poison control centers and spill response resource organizations. Complete and maintain the attached Pesticide Safety information section.
- Follow label requirements for mixing/loading setbacks from wells, drainage ditches, wetlands, all surface water and ground water resources.
- Post signs and follow restricted entry intervals according to pesticide label direction and Federal, State, Tribal and local regulations.
- Dispose of pesticides and pesticide containers in accordance with label directions and Federal, State, Tribal and local regulations.
- Read and follow label directions and maintain appropriate Material Safety Data Sheets (MSDS).
- Calibrate application equipment according to Extension and/or manufacturer guidance prior to Pesticide applications.



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Operation and Maintenance (continued):

- Maintain application equipment and replace worn nozzle tips, cracked hoses and faulty gauges.
- Maintain records of pest management for a minimum of two years. Pesticide application records shall be in accordance with the USDA Agricultural Marketing Service's Pesticide Record Keeping Program and Washington State - specific requirements.
- Maintain all mitigation techniques and practices identified in the plan in order to ensure continued effectiveness.

Safety:

The national 24-hour CHEMTREC number is 1-800-424-9300.

The National Pesticide Information Center (NPIC) 1-800-858-7384)

Washington State - POISON CONTROL CENTER - Pesticides
Emergencies, information and prevention: 1-800-222-1222

The National Pesticide Telecommunications Network (NPTN)
Phone: 1-800-424-7378 in Corvallis, OR.

Emergency:

Washington Department of Ecology contacts include:

Northwest Office, Bellevue: 1-425-649-7000
Southwest Office, Olympia: 1-360-407-6300
Central Office, Yakima: 1-509-575-2490
Eastern Office, Spokane: 1-509-456-2926

Local contact information:

Acknowledgement:

The Pest Management Plan has been designed and implemented according to the definition, purpose, criteria and specifications required by the current Washington State Pest Management 595 Conservation Practice Standard. The plan documents treatment strategies to effectively manage pests and address the identified resource concerns and client objectives. The client has received a copy of the pest management plan and understands the contents and requirements. The client agrees to the operation and maintenance requirements of this Pest Management plan and attached plan specification.

Client signature: _____

Date: _____

Pest Management Specialist: _____

Date: _____

NRCS certification:

I have appropriate job approval authority and have completed a review of the pest management plan and site specific specifications provided. I certify the plan is designed and applied in accordance with the current Washington State Pest Management 595 Conservation Practice Standard requirements.

Certified by: _____

Date: _____

District Conservationist or Pest Management Certified Planner

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**Client Goals and Objectives for Pest Management Plan:
Include Conservation Program scenarios to be incorporated with this Pest Management Plan.**

Document the purposes for implementing the Pest Management 595 conservation practice standard.

Protect crop yield (quantity and quality)	Protect air resources
Protect soil resources	Protect plant resources
Protect water resources	Protect animal and Human Resources

**Attach documentation of the site and operation specific Integrated Pest Management Strategies developed, evaluated and selected by the client. An IPM planning worksheet is available from NRCS to assist with IPM plan development and maintenance. The IPM planning worksheet is designed to document target pests, beneficial species and alternative Pest Management techniques that utilize prevention, avoidance, monitoring and suppression approaches.

