



## Minnesota Ecological Science Job Approval Authority Fact Sheet



### Pest Management Conservation System (595)

#### DEFINITION:

A system that combines an integrated pest management (IPM) decision-making process with natural resource conservation to address pest and environmental impacts.

#### ESJAA INFORMATION:



Job Classes	Control Factors	
	Pesticide Loss Pathways Addressed	Land Use
Job Class I	Drift	Pasture/Range Land
Job Class II	Drift and Surface Runoff	Forest
Job Class III	Drift, Surface Runoff, Leaching to Groundwater	Standard row crops
Job Class IV	Drift, Surface Runoff, Leaching to Groundwater, and Beneficial Organisms	Specialty/Vegetables Crops
Job Class V	All	Organic Crops /Orchards /Vineyards

#### CONTROL FACTORS:

The Pest Management Conservation System (595) practice has two controlling factors and units. They are Pesticide Loss Pathways as a controlling factor with loss pathway as the units, and Land Use as a controlling factor with Land Management Activity as the units.

#### KNOWLEDGE, SKILLS, AND ABILITIES (KSA):

1. Knowledge of crops, grazing, and forestry production systems for the geographic area
2. Ability to use the current Pesticide Screening tool (WIN-PST)
3. Ability to use the wind and water Erosion Prediction Tools
4. Completion of the initial Pest Management training technical assistance with supervision; on the job training (OJT)
5. Completion of the Pest Management course
6. Have a current Pest Management Applicator license as required by law in the state of practice

#### Minnesota KNOWLEDGE, SKILLS, AND ABILITIES (KSA)

##### All Practice Phases

- Understand CPS 595 Pest Management Conservation System, IR, & 595 Statement of Work
- Understand USDA-NRCS GM-190-404 Pest Management Policy

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## **Minnesota KNOWLEDGE, SKILLS, AND ABILITIES (KSA) needed:**

### **Job Class I (Drift)**

- Ability to document IPM/PAMS activities.
- Knowledge of Mitigation Techniques needed for Drift from National AGR-TN-5 *Pest Management in the Conservation Planning Process*.
- Complete a PMCS plan using *595 MN IR* (Additional Criteria Requirement not required). (Plan will be reviewed by ARC; planner must demonstrate understanding of PAMS techniques)
- Ability to find information on a pesticide label related to Environmental Hazards and Active Ingredients.

### **Job Classes II (Surface Runoff), III (Leaching), IV (Beneficial Organisms) and V (all) –**

- Knowledge of pesticide (insecticides, herbicides, fungicides, etc.) used in Minnesota agriculture, forests, conservation land and associated ag land to properly interview producers on use.
- Ability to calculate Active Ingredients (A.I.) applied per acre.
- Must be able to utilize current NRCS wind and water erosion prediction tools.
- Complete *Using WIN-PST for Conservation Planning* (NRCS-NEDC-000483) – AgLearn. Demonstrate ability to use the current Pesticide Screening tool (WIN-PST).
- Ability to plan Mitigation Techniques needed for surface and ground water from national AGR-TN-5 *Pest Management in the Conservation Planning Process*.
- Complete a pest management plan using *595 MN IR* including all requirements for Additional Criteria. (Plan will be reviewed by ARC; planner must demonstrate understanding of PAMS techniques and mitigation practices/techniques)

### **Job Class IV (Beneficial Organisms)**

- Ability to plan Mitigation Techniques needed for beneficial organisms from national AGR-TN-9 *Preventing or Mitigating Potential Negative Impacts of Pesticides on Pollinators Using Integrated Pest Management and Other Conservation Practices*.

### **Job Class V**

- Understanding of limiting factors in organic cropping systems and use of pest management strategies common in Minnesota

## **COMMON ASSOCIATED PRACTICES:**

Pest Management Conservation System (595) is commonly associated with conservation practices such as Conservation Crop Rotation (328), Nutrient Management (590), Conservation Cover (327), and Cover Crop (340).

## **ADDITIONAL MATERIALS:**

- [Minnesota Agronomy Technical Note No. 5](#)
- [Minnesota Agronomy Technical Note No. 9](#)
- National Information System for the Regional IPM Centers – IPM Elements and Guidelines:  
<http://www.ipmcenters.org/>  
<https://www.ncipmc.org/planning/index.php>

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- [USDA-AMS National Organic Program, National List of Allowed and Prohibited Substances.](#)
- [USDA-NRCS GM-190-404 Pest Management Policy](#)
- [USDA-NRCS-Minnesota Pest Management Site](#) Tools and information needed to implement Pest Management (595) including Minnesota NRCS Pest Management Planning Policy.
- [Minnesota Dept. of Agriculture – Voluntary BMPs](#)
- [Minnesota Dept. of Agriculture-Endangered Species Protection Program](#)
- [Windows Pesticide Screening Tool \(WIN-PST\)](#)
- [Minnesota Department of Agriculture-Agricultural Chemical Spill and Safety](#)
- [Minnesota Department of Agriculture-Acetochlor](#)
- [Minnesota Department of Agriculture-Pesticide Regulation and Enforcement Program](#)
- [Minnesota Department of Agriculture-Pesticide Applicator Licensing and Certification Program Commercial and non-commercial pesticide applicator licensing](#)
- [Minnesota Department of Agriculture-Private Pesticide Applicator certification](#)
- [Minnesota Department of Health Groundwater webpage](#) containing Health Risk Limits (HRLs) for drinking water

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