USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

# Integrated Pest Management (IPM)

## *Virginia Conservation Practice Job Sheet 595*

### Definition

A site-specific combination of pest prevention, avoidance, monitoring, and suppression strategies ("PAMS") that controls pests and prevents or mitigates risks to natural resources.

### General Criteria Applicable to All Purposes

Develop a comprehensive IPM plan to document how pests will be managed as well as how site-specific risks to natural resources from planned pest management activities will be prevented or mitigated. The IPM plan must be crop- and/or land-use specific and consistent with Virginia Land Grant & Extension recommendations.

If a comprehensive IPM plan is not feasible, document at least one planned pest management activity and the techniques / practices that will serve to prevent / mitigate risks to natural resources from that pest management activity.

### Additional Criteria to Prevent / Mitigate Off-Site Pesticide Risks to Water Quality from Leaching and/or Solution or Sediment Runoff

Use WIN-PST to assess potential risk to humans and fish from pesticide movement to water via three pathways – leaching, solution runoff, adsorbed (sediment) runoff.

Use WIN-PST results and the following table to determine minimum level of mitigation:

| WIN-PST Identified | Minimum Mitigation |
|---|---|
| Hazard Rating | Index Score Required |
| Low or Very Low | None |
| Intermediate | 20 |
| High | 40 |
| Extra High | 60 |

Using *Agronomy Tech Note 5, Pest Management in the Conservation Planning Process* ("Tech Note 5"), verify that the sum of mitigation scores from planned IPM techniques (Tech Note 5, Table 1) and conservation practices (Tech Note 5, Table 2) provide adequate mitigation.

### Additional Criteria to Prevent / Mitigate Off-Site Pesticide Risks from Drift / Volatilization

For drift concerns, minimum mitigation score required is 20. Verify that the sum of mitigation scores from planned IPM techniques (Tech Note 5, Table 1) and conservation practices (Tech Note 5, Table 2) provide adequate mitigation.

For Volatile Organic Compound (VOC) emissions concerns, apply at least one technique from volatilization section (p. 6) of Tech Note 5.

### Additional Criteria to Prevent / Mitigate On-Site Pesticide Risks to Pollinators / Non-Target Species through Direct Contact

For direct contact pesticide concerns for on-site pollinators or other non-target species, apply at least two techniques from the pesticide direct contact section (p. 6) of Tech Note 5.

### Additional Criteria to Prevent / Mitigate Cultural, Mechanical, and Biological Pest Suppression Risks to Natural Resources

For natural resource concerns resulting from cultural, mechanical, or biological pest suppression methods (e.g., tillage, etc.), plan adequate conservation to achieve FOTG quality criteria for those concerns (e.g., "T" for erosion).

**NOTE: This summary does not address all requirements and considerations in the VA IPM Conservation Practice Standard (VA-595). Consult the Conservation Practice Standard for further details.**

## General Information

Client: ---------- County: ----------

Field Office: ---------- Contract #: ----------

Farm #: ---------- Tract #: ----------

Field # and acreage: ----------

## Client's Purpose(s) (check all that apply)

- ☐ Prevent/mitigate off-site pesticide risk to water from leaching, solution runoff, or adsorbed runoff
- ☐ Prevent/mitigate off-site pesticide risks to S.W.A.P.A. from drift and/or volatilization losses
- ☐ Prevent/mitigate on-site pesticide risks to pollinators / non-target species through direct contact
- ☐ Prevent/mitigate cultural, mechanical, and biological pest suppression risks to S.W.A.P.A.

## Practice Specifications

**Follow all specifications and recommendations below for practice installation & implementation.**

**Comprehensive IPM Plan– See Attached (check box if applicable)** ☐

*Standard recommends following whenever possible a comprehensive plan for prevention, avoidance, monitoring, and suppression of anticipated pests. The plan must be crop- and/or land use-specific and all pesticide, scouting, threshold, and other pest management elements of the plan must be consistent with Land Grant University and Extension recommendations.*

**Plan Map – See Attached**

*Standard requires a map showing the following minimum elements: (a) Fields or areas to be treated; (b) Soil types; (c) Location and type of sensitive resources and setbacks (if any).*

**Pesticide Water Quality and/or Drift Concerns (if applicable)**

*List site-specific pesticide concerns for water quality and/or drift, WIN-PST output, planned mitigation, and mitigation index scores.*

| Planned pest management activity or pesticide use | Associated site-specific natural resource concerns: WIN-PST Water Quality Hazard Ratings (VL= very low; L = low; I = intermediate; H = high; EH = extra high) | | | | | | Drift (Check if a concern) | Planned Mitigation Techniques / Practices (From Tech Note 5, Tables 1 & 2) | Mitigation Index Score | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Leaching | | Solution Runoff | | Adsorbed Runoff | | | | Leaching | Solution | Adsorbed | Drift |
| | Human | | Human | | Fish | | ☐ | | | | | |
| | Fish | | Fish | | | | | | | | | |
| | Human | | Human | | Fish | | ☐ | | | | | |
| | Fish | | Fish | | | | | | | | | |
| | Human | | Human | | Fish | | ☐ | | | | | |
| | Fish | | Fish | | | | | | | | | |
| | Human | | Human | | Fish | | ☐ | | | | | |
| | Fish | | Fish | | | | | | | | | |

**Pesticide VOC (Volatile Organic Compound) Emissions Concerns (if applicable)**

*Specify VOC emissions concerns and list at least one mitigating technique from the volatilization section (page 6) of Tech Note 5.*

**Pesticide Direct Contact to On-Site Pollinators / Non-Target Species (if applicable)**

*Specify direct contact concerns and list at least two mitigating techniques from the direct contact section (page 6) of Tech Note 5.*

**Natural Resource Concerns due to Cultural/Mechanical/Biological Pest Suppression (if applicable)**

*Specify other natural resource concerns and practices planned to mitigate those concerns. Refer to attachments as needed.*

**Additional Specifications & Recommendations**

*Specify additional requirements, recommendations, or details about planned IPM or conservation practices to mitigate pesticide or other pest management risks to natural resources. Refer to attachments as needed.*

## Operation & Maintenance (O&M)

**Carry out all of the following actions to ensure that the planned IPM system functions as intended.**

**Minimum O&M Requirements**:

1. Review and update plan to incorporate new IPM strategies, respond to cropping system and pest complex changes, and avoid development of pest resistance.
2. Maintain planned mitigation techniques (e.g., buffers, etc.) to ensure their continued effectiveness.
3. Calibrate application equipment before each season of use and with each major chemical change.
4. Maintain records of pest management for at least two years (also follow all other pesticide-related recordkeeping required by federal, state, and local law).

**Additional O&M Recommendations**

*Provide any additional practical guidance for actions to ensure the long-term effectiveness of practice.*

## Planner Certification

The Integrated Pest Management practice planned in this job sheet fulfills minimum requirements of Virginia NRCS Conservation Practice Standard 595.

| --- | --- | --- |
| Signature | Title | Date |

## Certification of Practice Completion

The Integrated Pest Management practice planned in this job sheet has been completed and maintained according to Virginia NRCS specifications (indicate in Practice Specifications any changes to planned activities and acreage).

| --- | --- | --- |
| Signature | Title | Date |

If needed, an aerial view or a side view of the practice can be shown below. Other relevant information, complementary practices and measures, and additional specifications may be included.

Scale 1"= _____ ft. (NA indicates sketch not to scale: grid size=1/2" by 1/2")

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| **Additional Specifications and Notes:** |
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