

# Pest Management



Client: \_\_\_\_\_ Date \_\_\_\_\_

Farm #: \_\_\_\_\_ Tract #: \_\_\_\_\_ Field (s) #: \_\_\_\_\_



## Definition

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

## Purposes

Pest management is applied to: **(check all that applies)**

- Enhance the quantity and quality of agricultural commodities.
- Minimize the negative impacts on soil resources.
- Minimize the negative impacts on water resources.
- Minimize the negative impacts on air resources.
- Minimize the negative impacts on Plant Resources.
- Minimize the negative impacts on Animal Resources.
- Minimize the negative impacts on Humans.

## Pest Management Includes

- Environmental risks of pest management.
- Mitigation alternatives to minimize environmental risks.
- Adoption of Integrated Pest Management (IPM).
- Implementation of a pest management component of an overall conservation plan.

## Resource Management System

Pest management may be a component of a Resource Management System (RMS) or can be a stand-alone Pest Management Plan. It should be used in conjunction with conservation practices such as a filter strip, conservation crop rotation, irrigation water management and/or nutrient management on a site-specific basis to address both natural resource concerns and the producer's objectives.

## Web Links

- Texas USDA – NRCS Standard:  
[www.efotg.nrcs.usda.gov/](http://www.efotg.nrcs.usda.gov/)
- Texas Pest Management Association:  
[www.tpma.org](http://www.tpma.org)
- Texas Cooperative Extension IPM:  
<http://txipmnet.tamu.edu/index.html>
- Texas Department of Agriculture:  
[www.agr.state.tx.us/pesticide/](http://www.agr.state.tx.us/pesticide/)

## Plans and Specifications

As a minimum, the pest management component of a conservation plan shall include:

1. Identify Purpose of Plan.
2. A plan map and soil map of the managed site (if not part of an overall conservation plan).
3. Sensitive areas and setbacks identified.
4. Operation and Maintenance requirements.
5. A summary of the IPM plan:
  - a. Crops to be grown and anticipated pest problems
  - b. A field scouting plan and economic thresholds of anticipated pests (or a notation of IPM unit, independent private consultant or scouting service that will perform this function).
6. Completed PAMS Index (TX 595, Appendix 2)
7. Identify pesticides (TX 595, Appendix 4) that may impact water quality (TX 595, Appendix 4) that are used on the farm and indicate how they will be applied.
8. An environmental risk analysis (Win\_Pst) for pesticides identified in item # 7.
9. Completed Loss via Surface Runoff and/or Leaching worksheets (TX 595 Appendices 5A or 5B) if potential hazard rating is Intermediate or higher in step 8.
10. If Soil Resources are a concern, RUSLE2, SCI, STIR and/or WEQ calculations will be included.

Check Attached  
Appendices:

Pest Management Plan Summary \_\_\_\_\_

PAMS Index (TX-595, Appendix 2) – (will need a PAMS Index on each major land use) \_\_\_\_\_

Identify Pesticides that may impact water quality (TX-595, Appendix 4) \_\_\_\_\_

If **No** Pesticide listed on TX-595,  
**Attach Plan Summary and Appendices referenced above, Sign below and Stop** \_\_\_\_\_  
(If a Pesticide on Appendix 4 is used, proceed to the next statement.)

Environmental Risk Analysis (include Win-PST runs as appropriate) \_\_\_\_\_

Select practices or activities that will be implemented to reduce the potential for pesticide loss by surface runoff (TX-595, Appendix 5a) \_\_\_\_\_

or

Select practices or activities that will be implemented to reduce the potential for pesticide loss by leaching (TX-595, Appendix 5b) \_\_\_\_\_

**Producer:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Plan by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Plan Approved by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## Operation, Maintenance & Safety

The National Pesticide Information Center (NPIC) telephone number for non-emergency information is:

**1-800-424-7378**

For advice and assistance with emergency spills that involve agrichemicals, call the national 24-hour CHEMTREC:

**1-800-424-9300**

- Review and update the plan periodically in order to incorporate new IPM technology, respond to cropping system and pest complex changes, and avoid the development of pest resistance.
- Maintain mitigation techniques identified in the plan in order to ensure continued effectiveness.
- Develop a safety plan for individuals exposed to chemicals including telephone numbers and addresses for emergency treatment centers and the telephone number for the nearest poison control center.
- Mix chemicals down gradient and a minimum of 150 feet from a well or surface water body. Never leave a spray tank unattended.
- Post signs according to label directions and/or Federal, State, and local laws around sites that have been treated. Follow restricted entry intervals.
- Keep the filler hose out of the spray tank at all times or install an anti-siphon device to prevent back flow.
- Pesticides used in chemigation shall be labeled for this method of application. All chemigation systems must be fitted with an anti-siphon device to prevent back flow.
- Post signs according to label directions and/or Federal, State, and local laws around sites that have been treated. Follow restricted entry intervals.
- Dispose of pesticides and pesticide containers in accordance with label directions and adhere to Federal, State, 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 recommendations before each seasonal use and with each major chemical change.
- Replace worn nozzle tips, cracked hoses, and faulty gauges.
- Maintain records of pesticide application in accordance to Texas Department of Agriculture guidelines. TDA regulations and record keeping may be found at the following web site: <http://www.agr.state.tx.us/pesticide/>

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Pest Management  
Plan Summary

Crops Planned / Anticipated Pest Problems

Crop	Pest	IPM services provided by: (name, phone #) *	When scouting will occur	Threshold / Treatment Based on what reference

- \* For IPM activities conducted by a consultant, fill out columns 1, 2, and 3.
- \* For IPM activities conducted by the operator, fill out all columns.

## Appendix 2 Pest Management (595)

<b>Integrated Pest Management Practices for the PAMS Index</b>	<b>Name:</b>		
<b>Management Unit:</b>			
<p>Identify pest management concern(s), and then place an "X" in the box of all practices that will be implemented as part of the IPM strategy on all fields with pest management planned.</p> <p style="text-align: right;">Identify Concern(s)</p>	<b>Insects</b>	<b>Weeds</b>	<b>Disease</b>
<p><b>* Essential components if insects are a pest of concern.</b></p> <p><b>Prevention (at least 1 practice required for each concern)</b></p>	<b>Insects</b>	<b>Weeds</b>	<b>Disease</b>
1. Plant pest resistant or pest tolerant varieties		N/A	
2. Clean cultivating/harvesting equipment to reduce the spread of pests			
3. Maintain proper vegetative heights before/after grazing or haying	N/A		N/A
4. Proper irrigation timing and amount based on soil, plant, and weather monitoring			
5. Other preventative measures. (specify)			
<b>Avoidance (at least 2 practices required for annual crops. Only #9 must be done for est. perennial crops)</b>			
6. Rotate Crops to reduce pest injury			
7. Follow Recommended planting dates/windows			
8. Time crop termination with plant monitoring		N/A	N/A
9. Soil and/or plant sampling to determine proper fertilizer rate			
10. Other Avoidance measures. (specify)			
<b>Monitoring (at least 2 practices required)</b>			
<b>11. Use economic threshold *</b>		N/A	
<b>12. Scout for pests *</b>			
13. Use traps, sticky cards and/or soil sampling to monitor pests		N/A	
14. Plant monitoring to follow crop development			
15. Keep records of pests/pesticide application			
16. Use crop/pest development models if available			
17. Other monitoring measures. (specify)			
<b>Suppression (at least 2 practices required)</b>			
18. Plant at recommended seeding/planting rate			
19. Consider natural enemies in treatment decisions		N/A	
20. Cultivate (or shred) to suppress weeds	N/A		N/A
21. Conserve natural enemies by selecting products or rates less detrimental		N/A	
22. Provide alternative crops/habitats adjacent to crop for natural enemies		N/A	
23. Alternate pesticides to avoid/delay resistance			
24. Use low impact/reduced risk pesticides			
25. Hand hoe for weed suppression	N/A		N/A
26. Use other animals, e.g. deer, goats to suppress vegetation	N/A		N/A
27. Other suppression methods. (specify)			





**Appendix 5A  
Pest Management (595)  
Practices to Address Pesticide Loss via Surface Runoff**

If you plan to use any of the chemicals listed in **Appendix 4** on a field resulting in a **High or Extra High Hazard Rating**, **select at least 2** of the management activities listed below. If you plan to use any of the chemicals listed in **Appendix 4** on a field resulting in an **Intermediate Hazard Rating**, **select at least 1** of the management activities listed below. The selections below must be in addition to items selected in the PAMS index.

FSN: \_\_\_\_\_ Tract: \_\_\_\_\_ Field: \_\_\_\_\_

**Conservation system, practice, or management activities** **Check all that apply.**

Substitute mechanical treatment for high or extra high hazard rating chemical treatment.	
Select Alternative Pesticide with lower hazard rating, <b>especially when hazard rating is extra high.</b>	
Utilize Banding, reduced rates, or incorporate pesticides.	
Utilize and maintain Contour Buffer Strips and Contour Farming.	
Utilize and maintain Basin Terraces and Contour Farming.	
Utilize and maintain grassed waterways in areas of concentrated flow not protected by other conservation practices.	
Utilize and maintain Terraces and Contour Farming.	
Utilize and maintain Filter Strips or Riparian Forest Buffers along second order or greater streams and water courses.	
Utilize and maintain Field Borders at the lower edge(s) of fields to filter runoff	
Utilize Furrow Diking.	
Utilize a Crop Rotation consisting of at least two different crops in a 3 year time frame.	
Establish small grain cover crops and plant primary crops into terminated cover.	
Utilize Residue Management No-Till, Strip Till; Ridge Till or Mulch Till.	
Utilize and maintain Irrigation Water Management.	
Utilize and maintain Prescribed Grazing or Forage Harvest Mgt. (Perennial Vegetation)	
Establish and maintain Conservation Cover.	
Utilize and maintain Contour or Field Strip Cropping.	
Waste utilization or Mulching increase SCI to > 0.2.	
Utilize tail water recovery.	
Utilize and maintain Level or Graded Border Irrigation System	

I agree to establish and/or maintain existing conservation systems, practices, and/or management activities indicated above and include them in my conservation plan. All practices will be established and implemented according to NRCS Practice Standards.

\_\_\_\_\_  
Initials

**Appendix 5B  
Pest Management (595)  
Practices to Address Pesticide Loss via Leaching**

If you plan to use any of the chemicals listed in **Appendix 4** on a field resulting in a **High or Extra High Hazard Rating, select at least 2** additional of the management activities listed below. If you plan to use any of the chemicals listed in **Appendix 4** on a field resulting in an **Intermediate Hazard Rating, select at least 1** additional of the management activities listed below. The selections below must be in addition to items selected in the PAMS index.

FSN: \_\_\_\_\_ Tract: \_\_\_\_\_ Field: \_\_\_\_\_

**Conservation system, practice, or management activity** **Check all that apply.**

Substitute mechanical treatment for high or extra high hazard rating chemical treatment..	
Select Alternative Pesticide with lower hazard rating, <b>especially when hazard rating is extra high.</b>	
Utilize Banding, reduced rates, less soluble formulation, or incorporate pesticides.	
Follow special label restrictions pertaining to erosion, leaching, runoff, and setbacks. <b>(Required)</b>	<b>X</b>
Utilize a Crop Rotation consisting of at least two different crops in a 3 year time frame.	
Establish small grain cover crops and plant primary crops into terminated cover	
Utilize and maintain Irrigation Water Management	
Prescribed Grazing or Forage Harvest Mgt. (Perennial Vegetation)	
Establish and maintain Conservation Cover or convert to other perennial grass or tree cover.	
Well decommissioning.	
Waste utilization or mulching to increase SCI to > 0.2	

I agree to install and/or maintain the conservation practices indicated above and include them in my conservation plan. All practices will be established and implemented according to NRCS Practice Standards.

\_\_\_\_\_  
Initials