

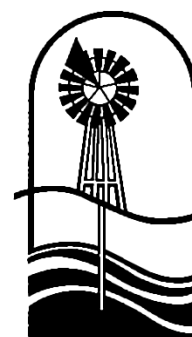
Michigan State University Extension  
Extension Bulletin E-2342  
March 2000 (Revision)



Michigan  
Groundwater  
Stewardship  
Program

# Recordkeeping System for Crop Production

**Annual Record Book**  
**Year** \_\_\_\_\_



## ***What is the Michigan Groundwater Stewardship Program?***

The Michigan Groundwater Stewardship Program (MGSP) is a statewide, locally-driven program to help pesticide and fertilizer users reduce risks of groundwater contamination. The program is funded through fees on pesticides and nitrogen fertilizer sales.

## ***How do I learn more about the program?***

To learn more about the Michigan Groundwater Stewardship Program, contact your groundwater stewardship staff representative located at your county Conservation District or MSU Extension office, or contact the Michigan Department of Agriculture, Environmental Stewardship Division: 517-335-6529.

<http://www.mda.state.mi.us/environm/index.html>

## ***What is the role of records in environmental stewardship?***

Recordkeeping is a good stewardship practice. Accurate production records make managing information easier by helping you analyze the performance of your farm business. Good records allow you to evaluate your nutrient and pest management practices, as well as cropping systems.



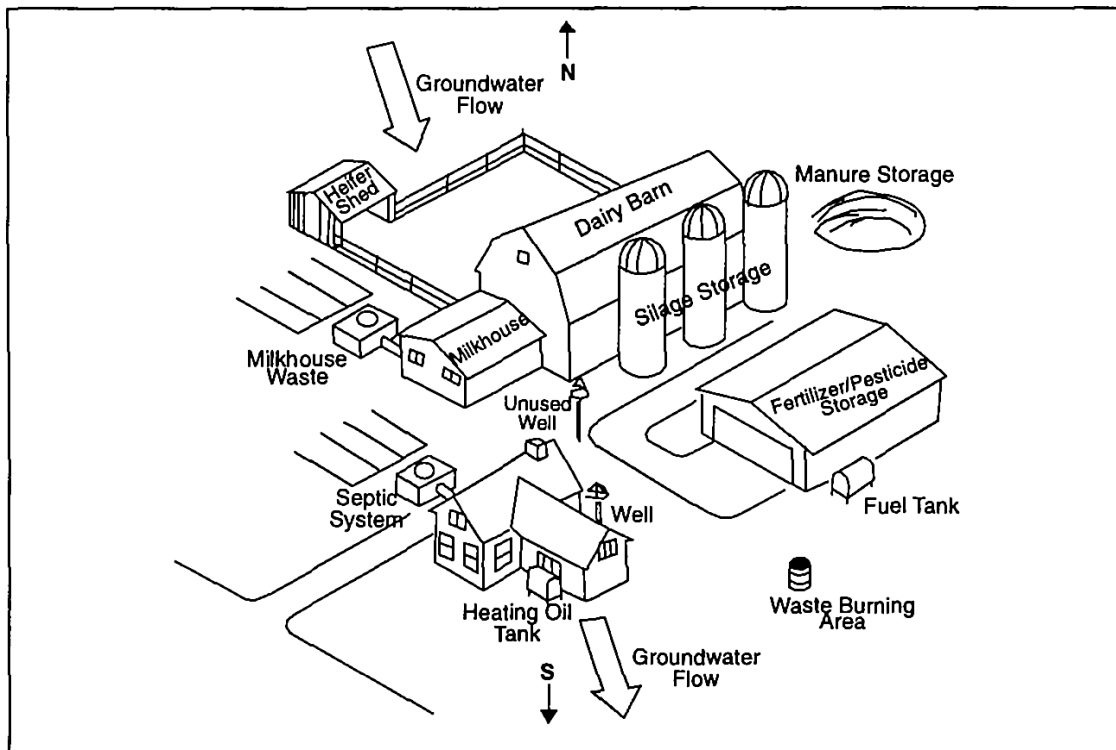
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# Groundwater Tips

## Farmstead Operations and Groundwater Contamination



Michigan farmsteads are busy places. It is important to remember that many farmstead operations can generate pollution risks from nitrates, toxins and microorganisms.



The Farm\*A\*Syst program is designed to help farmers identify potential risks associated with farmstead operations and to develop voluntary action plans to reduce high risks.

Michigan Groundwater Stewardship Program technicians and staff can work with you to reduce the risk of contamination on your farm and develop a groundwater stewardship plan. Contact your Conservation District, MSU Extension, or USDA NRCS office for more information on local assistance.

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# Index for Individual Fields

Field No.	Field ID	Field Description/Location
1.		
2.		
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## Laws Related to Pesticide Recordkeeping

The federal pesticide recordkeeping regulations and the worker protection standard are laws that require recording certain pesticide application information. Michigan Right To Farm “generally accepted agricultural and management practices” advocate keeping some additional records to reduce liability, but these practices are voluntary. **In the Pesticide Applications chart for individual field records, required and recommended information items are in bold print, in addition to required pesticide and applicator information in the following charts.**

1. The federal pesticide recordkeeping regulations require that you record any restricted use pesticide (RUP) applications within 14 days of the application and that you keep the records for two years.
2. The worker protection standard requires that you post application information for at least 30 days after the end of the restricted-entry interval (REI). For more information about laws related to pesticide recordkeeping, contact your county Michigan State University Extension office.

### Required Pesticide Information

	<b>EPA Registration Number</b>	<b>Active Ingredients</b>	<b>REI (hrs.)</b>
1.			
2.			
3.			
4.			
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## Pesticide Applicator Information

Applicator Name	Certification Number
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____
9. _____	_____
10. _____	_____

## Calibration of Application Equipment

To apply the correct amount of fertilizers, pesticides, ag lime, and/or animal manures to your field, application equipment should be calibrated. For proper management of nutrients and pesticides, the amounts per acre applied should be known. This will ensure efficient utilization of these materials for crop production and minimal risk of environmental pollution.

For guidance regarding procedures that can be followed to accomplish calibration of equipment, contact your county Michigan State University Extension office.

<b>Date of last “fertilizer spreader” calibration</b>	Month	Year
Name of 1st Spreader _____	_____	_____
Name of 2nd Spreader _____	_____	_____
<b>Date of last “pesticide applicator” calibration</b>		
Name of 1st Applicator _____	_____	_____
Name of 2nd Applicator _____	_____	_____
<b>Date of last “manure spreader” calibration</b>		
Name of 1st Spreader _____	_____	_____
Name of 2nd Spreader _____	_____	_____



Field ID \_\_\_\_\_

Acres \_\_\_\_\_

### Crop Production Plans

Crop \_\_\_\_\_ Pesticide \_\_\_\_\_

Nutrients Needed (lb/acre) N \_\_\_\_\_ P<sub>2</sub>O<sub>5</sub> \_\_\_\_\_ K<sub>2</sub>O \_\_\_\_\_

### Planting Information

Planting Date \_\_\_\_\_

Population/seeding rate used \_\_\_\_\_

Tillage used \_\_\_\_\_

### Fertilizer/Lime Application

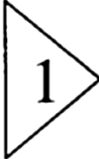
Date	Type & Analysis	Rate Applied	Method of Application

### Pesticide Applications

	1st	2nd	3rd
Date (Month/Day/Year)			
Time Application Completed			
Chemical Applied (Trade Name and Formulation)			
Rate per Acre**			
Total Amount Applied			
Carriers, Additives Used†			
Method of Application*, **			
Target Pest**			
Crop Growth Stage†			
Wind Speed†			
Wind Direction†			
Temperature†			
Name of Applicator			

\*If the whole field was not covered, note area treated on the Field Sketch. †Not required.  
 \*\*Recommended by Right To Farm management practices but not required by Federal law.

# Manure Applied\*



Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting

Manure incorporated on (Date) \_\_\_\_\_

\* If the whole field was not covered, note area treated on the Field Sketch.

Notes or Harvest Information	Date

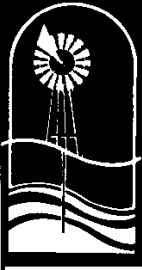
**4th**

**5th**


## Field Sketch







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# Groundwater Tips

All pesticide applicators in Michigan need a

## Pesticide Spill Recovery Kit



As careful as people try to be, pesticide spills can and do happen. Be ready for spills with a spill kit designed to contain, absorb and provide for safe and proper disposal. Spill kits on your sprayer and in the mixing and loading area can protect the groundwater from pesticide contamination.

You can make an inexpensive spill kit or buy one from commercial agricultural suppliers.



### Contents of a Spill Recovery Kit

- A container – a 5-gallon plastic bucket or a trash can with cover (labeled “SPILL KIT”).
- Absorbent material - oil dry, pet litter, activated charcoal or spill pillows.
- Shovel, broom and dustpan.
- Rubber gloves and boots.
- Heavy-duty plastic bags to hold collected material.
- Emergency telephone numbers.

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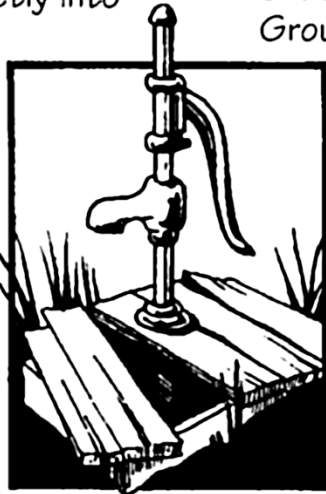
# Groundwater Tips

## Plug Abandoned Wells



Many farms have abandoned wells. If not properly plugged, they can allow runoff water (carrying bacteria, fertilizer, pesticides and other contaminants) to flow directly into groundwater.

Costs for closing abandoned wells vary, typically between \$50 and \$500. Since an unplugged, abandoned well can contaminate



your water supply (and your neighbor's), the cost of plugging is a wise investment.

Under the Michigan Groundwater Stewardship Program, farmers may qualify for technical and cost-share assistance to plug abandoned wells. Contact your local Groundwater Stewardship technician for more information.

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Report any pesticide, fertilizer or manure spills to:

Michigan Department of Agriculture  
**AGRICULTURE POLLUTION  
EMERGENCY HOT LINE**

**1-800-405-0101**

General agriculture information questions should be directed to MDA's general information number

**1-800-292-3939**

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This is one component of a paper Recordkeeping System for Crop Production. The total system includes Annual Record Books (*E-2341 pocket-size* and *E-2342, full-size*), Field File Folders (*E-2343*), Manure Management Sheets (*E-2344, 4 sheets*), and Enhanced Recordkeeping Sheets (*E-2345, 3 sheets*). The MSU bulletin, "Recordkeeping System for Crop Production," (*E-2340*) explains the use of the system.

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