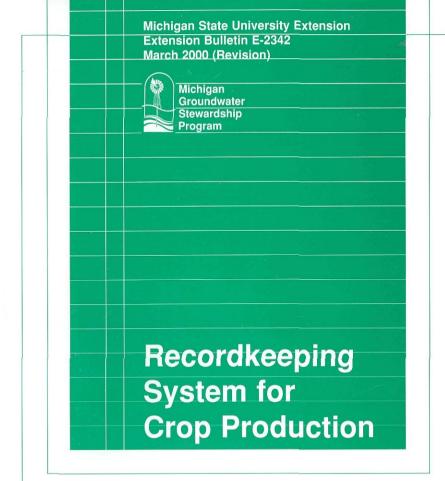
MSU Extension Publication Archive

Archive copy of publication, do not use for current recommendations. Up-to-date information about many topics can be obtained from your local Extension office.

Recordkeeping System for Crop Production – Annual Record Book
MSU Extension Service
Michigan Ground Water Stewardship Program
L.W. Jacobs, S.U. Dohm, and B. A. MacKellar, MSU Department of Crop and Soil Sciences
Revised March 2000
47 pages

The PDF file was provided courtesy of the Michigan State University Library

Scroll down to view the publication.



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.

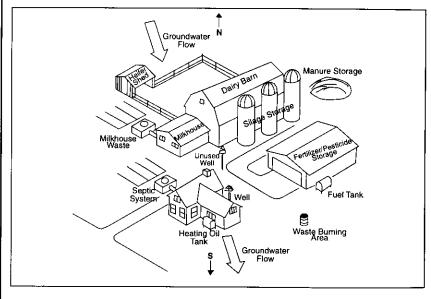


Groundwater Jips

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.

Agriculture Supports MICHIGAN STATE POLICE STORY Groundwater Stewardship EXTENSION

Index for Individual Fields

Field No.	Field ID	Field Description/Location
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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.

 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

	Pesticide Name and Formulation	EPA Registration Number	Active Ingredients	REI (hrs.)
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Pesticide Applicator Information

1 esticide Applicator			
Applicator Name	Certification Nu	nbe	r
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To apply the correct amount of fertilizers mal manures to your field, application equip proper management of nutrients and pesticion should be known. This will ensure efficient crop production and minimal risk of enviror For guidance regarding procedures that calibration of equipment, contact your count tension office.	ment should be calibrates, the amounts per actualization of these mannental pollution. an be followed to account	ated. cre a teria	For spplied als for ish
Date of last "fertilizer spreader" calibratio	n Mo	nth	Year
Name of 1st Spreader		<u></u> -	
Name of 2nd Spreader			
Date of last "pesticide applicator" calibrat	ion		
Name of 1st Applicator			
Name of 2nd Applicator			
Date of last "manure spreader" calibration	1		
Name of 1st Spreader			

Name of 2nd Spreader

Field II	D		Acre	s	Manure	Applied*				
Crop P	Production Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreade Setting
Crop	Pesticio	de	<u> </u>			17144141			\ \ \ \ \ \ \	
Nutrients	s Needed (lb/acre) N	P ₂ O ₅	$_{5}$ K_{2}	0			 			
Plantin	g Information									<u> </u>
Planting	Date				Manure ir	corporated on	(Date)			
	on/seeding rate used				* If the	whole field was i	not covered,	note area treate	ed on the F	ield Sketch.
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Date (Mo	onth/Day/Year)								_	
Time App	plication Completed									
	l Applied (Trade d Formulation)						_			,
Rate per										
	nount Applied									
	Additives Used†									
	of Application*, **									
	est**			-			—⊣ l			

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.

Field ID	- .		Acres_
Crop Pro	oduction Plans		
Crop	Pesticide		
			V O
Nutrients r	Needed (lb/acre) N	P ₂ O ₅	K ₂ O
Planting Planting D	Information ate /seeding rate used	P ₂ U ₅	

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†	<u> </u>		
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
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Manure in	corporated on	(Date)	<u> </u>	<u> </u>	

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

Notes or Harvest Information	Date		

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Field Sketch

Field I	D		Acr	es	Manı	ire A	pplied				
	Production Plans				Date		Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
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Plantin	ng Information							<u> </u>		<u> </u>	
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Date	Type & Analysis	Applied	Appl	ication	-				_		
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Time App	plication Completed										
	l Applied (Trade d Formulation)										
Rate per	Acre**				1	_					
Total An	nount Applied										
Carriers,	Additives Used†										
Method o	of Application*, **										
Target Pe	est**										
Crop Gro	wth Stage†							_]			
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Temperat	ture†										

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.

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Spreader

Setting

Field II	ield ID Acres				Manure Applied*					
Crop	Production Plan Pestic	cide			Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreade Setting
Nutrients Needed (lb/acre) NP_2O_5 K_2O Planting Information Planting Date Population/seeding rate used Tillage used Fertilizer/Lime Application					* If the	corporated on whole field was r	not covered,	note area treate	ed on the F	ield Sketch.
Date	Type & Analysis	Rate Applied		nod of ication		Trai vest m				
Date (Mo	le Applications onth/Day/Year) plication Completed I Applied (Trade	1st	2nd	3rd	4th	5th		Field	Sketch	

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^{*}If the whole field was not covered, note area treated on the Field Sketch. †Not required.

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	g Information									
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Date	Type & Analysis	Rate Applied		nod of ication						
Date		Пррисс	L I						· · · · · · · ·	
Date		Прриси								
	le Applications	1st	2nd	3rd	4th	5th		Field	l Sketch	
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^{*}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.

	Field ID
<6	Crop Production Plans

Acres	

Crop	Pesticide _			
Nutrients Needed (lb/acre) N	P ₂ O ₅	K ₂ O	

P	lan	ting	Inform	nation
_				

Planting Date		
Population/seeding rate used_	<u>.</u>	
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.

Manure Applied*

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

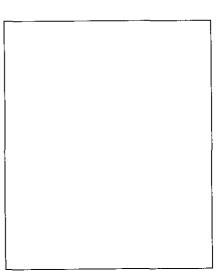
Manure incorporated on (Date)

Notes or Harvest Information Date

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Field Sketch



^{**}Recommended by Right To Farm management practices but not required by Federal law.

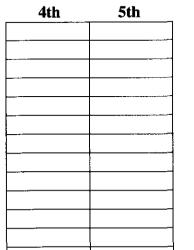
^{*} If the whole field was not covered, note area treated on the Field Sketch.

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Fertilizer/Lime Application Date Type & Analysis Rate Applied			hod of ication		narvest III				Date	
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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			_

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**Recommended by Right To Farm management practices but not required by Federal law.



Field Sketch					
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Spreader

Setting

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Field II	D		Acre	es	Manure Applied*					
_	roduction Plan				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
	Pestic									
Nutrients	Needed (lb/acre)	NP ₂ O	5 K	₂ O						
Dlantin	a Information									
	g Information) //i		(Data)	<u> </u>	· .	<u> </u>
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	on/seeding rate use sed				" If the	whole held was i	of covered,	note area treate	a on the r	eid Skeich.
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Fertiliz	er/Lime Applic	ation			Notes of	narvest in	tormauc)11	ĺ	Date
Date	Date Type & Analysis			nod of ication						
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Pesticid	le Applications	1st	2nd	3rd	4th	5th	\neg	Field	Sketch	
Date (Mo	nth/Day/Year)									
Time App	olication Completed									
	Applied (Trade						\dashv \mid			
_	d Formulation)						_			
Rate per										
	ount Applied									
	Additives Used†						-			
_	of Application*. **						\dashv			
Target Pe										
Crop Grov	wth 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.

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			

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Field II	Field ID			Manure Applied*						
	roduction Plans	de		Date	Source of Manure	No. of Loads	Spreader used	Sp (n		
Nutrients	Needed (lb/acre) N	P ₂ O ₅ _	K ₂ O	-						
Plantin	g Information									
Populatio	~				ncorporated on whole field was n					
Fertiliz	er/Lime Applica	tion		Notes or	· Harvest In	formatio	n			
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.

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

the Field Sketch.

Date

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Field Sketch		

11 F	Field ID	Acres	
	Crop Production Plans Crop Pesticide _		
	Nutrients Needed (lb/acre) N	 K ₂ O	
	Planting Information		
P	lanting Date		
P	opulation/seeding rate used	 	

Fertilizer/Lime Application

Date	Type & Analysis	Rate Applied	Method of Application
			

Tillage used _____

Pesticide Applications 1st 2nd 3rd

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^{*}If the whole field was not covered, note area treated on the Field Sketch. †Not required.

Manure Applied*

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

Manure incorporated on (Date)

Notes or Harvest Information	Date

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^{**}Recommended by Right To Farm management practices but not required by Federal law.

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

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Field ID	ield ID Acres				Manure	Applied*				
Crop Production		,			Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreade Setting
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Fertilizer/Lime A	plica	tion			Notes or	· Harvest In	formatio	n		Date
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Date (Month/Day/Year)] r		 	
Time Application Comple	ted						_			
Chemical Applied (Trade Name and Formulation)							\dashv \parallel			
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.

/ Field ID		Acres_
Crop Production Plans		
Crop Pesticide		
Nutrients Needed (lb/acre) N	$_{-}_{P_2O_5}$	K_2O

Fertilizer/Lime Application

Planting Information Planting Date _____

Pesticide Applications

Temperature† Name of Applicator

Date	Type & Analysis	Rate Applied	Method of Application

1st

2nd

3rd

Population/seeding rate used _____

Tillage used _____

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†

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 Harve	Date	
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Field Sketch				

^{*}If the whole field was not covered, note area treated on the Field Sketch. †Not required.

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Field ID		Acre	es	Manure	Applied*				
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Fillage used									
Fertilizer/Lime Applica	ation			Notes or	· Harvest In	formatio	on	1	Date
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Rate per Acre**									ļ
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Carriers, Additives Used†				<u> </u>		_			
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.

Acres	
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Crop	Pesticide _		
Nutrients Neede	d (lb/acre) N	P_2O_5	K ₂ O

Planting	Informa	tion
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Planting Date	_	
Population/seeding rate used _		
Tillage used		

Fertilizer/Lime Application

Date	Type & Analysis	Rate Applied	Method of Application

Pesticide Applications 1st 2nd 3rd

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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*, **		į	
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.

Manure Applied*

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

Manure incorporated on (Date) _____

Notes or Harvest Information Date

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^{**}Recommended by Right To Farm management practices but not required by Federal law.

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

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.

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

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^{**}Recommended by Right To Farm management practices but not required by Federal law.

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	ount Applied			· · ·						
Carriers,	Additives Used†									
Method o	of Application*, **									
Target Pe	est**									
Crop Gro	wth Stage†									
Wind Spe	ed†									
Wind Dir	ection†									
Temperat	nret	ľ		1						Ì

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.

Field I	D		Acres_
_	roduction Plans		
Crop	Pesticio	de	
Nutrients	s Needed (lb/acre) N	P_2O_5	K ₂ O
Planting Population	g Information Date on/seeding rate used sed		
Fertiliz	er/Lime Applica	tion	
Date	Type & Analysis	Rate Applied	Method of

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.

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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^{**}Recommended by Right To Farm management practices but not required by Federal law.

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.

Field I	D		Acr	es	Manure	Applied*				
_	Production Plans Pesticion				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
Nutrient	s Needed (lb/acre) N	P ₂ O	5K	20						
	ng Information Date					4.1	(D. (.)			
Population	on/seeding rate used used					ncorporated on whole field was r				
Fertiliz	zer/Lime Applica	tion			Notes or	: Harvest In	formatic	on		Date
Date	Type & Analysis	Rate Applied		hod of lication						
Pesticio	le Applications	1st	2nd	3rd	4th	5th		Field	l Sketch	1
	onth/Day/Year)							<u></u>		-
	plication Completed I Applied (Trade						\dashv			
	d Formulation)									
Date nor	Acre**			1						

concide Applications	lst	2nd	3rd
Date (Month/Day/Year)			
Time Application Completed			
Chemical Applied (Trade Name and Formulation)			
Rate per Acre**			
Total Amount Applied			
Carriers, Additives Used†	-		<u> </u>
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.

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.

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^{*}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.

Field II)		Acr	es	Manure	Applied*				
	roduction Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
Nutrients	Needed (lb/acre) l	NP ₂ O	5K	20						
	g Information Date									
Populatio	on/seeding rate used	J				corporated on whole field was r				
Fertiliz	er/Lime Applica	ation			Notes or	· Harvest In	formatic	n		Date
Date	Type & Analysis	Rate Applied		hod of lication						
Pesticide	e Applications	1st	2nd	3rd	4th	5th		Field	d Sketch	1
Date (Mor	nth/Day/Year)									
	lication Completed									
1	Applied (Trade Formulation)									
Rate per A				, 						
	ount Applied									
Carriers, A	Additives Used†									

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.

- Collection 11ppnettions	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.

Field ID			Acre	es	Manure	Applied*				
	oduction Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreade: Setting
Nutrients N	Pestic Needed (lb/acre) l	ndeP ₂ O	5K	2O						
Dl4:	Information									
_	Information						<u> </u>			<u> </u>
Planting D		1			Manure it	ncorporated on	(Date)		_	
	/seeding rate used				* If the	whole field was i	not covered,	note area treat	ed on the F	ield Sketch.
Fertilize	r/Lime Applic	ation			Notes 0	r Harvest In	formatic	on		Date
rei mizei	7 Emic Applic	411011	I		Notes of	i iidi vest iii			ı	
Date	Type & Analysis	Rate	Meth	nod of		<u></u>				
Date	Type & Analysis	Applied	Appli	ication						
										
										
								-		
Pesticide	Applications	1st	2nd	2-1		PAL.		Fiel	d Sketc	h
Date (Mont		15t	<u> </u>	3rd	4th	5th	\neg			
	cation Completed	-	· w				 -}			
	pplied (Trade			-						
1	Formulation)				-					!
Rate per Ac	re**	``	_							
Total Amou	nt Applied		_		-					
Carriers, Ac	lditives Used†			77117		-				
Method of A	Application*, **		."		1	-				
Target Pest	**									
Crop Growt	h 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.

Acres	
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Manure Applied

Crop Production Plans					
Crop	Pesticide				
Nutrients Needed	(lb/acre) N	P_2O_5	K ₂ O		

Planting	Inform	ation

Planting Date	
Population/seeding rate used	
Tillage used	

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

Date	Manure	Loads	used	(mph)	Setting
		<u>"</u>			
		1			
		+	· • • · · · · · · · · · · · · · · · · ·		
		-			
Manure in	corporated on	(Date)			

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

Fertilizer/Lime Application

Date	Type & Analysis	Rate Applied	Method of Application
	·		
		,	

Notes or Harvest Information	Date

Pesticide Applications 3rd 2nd

 	014

4th	5th

Field Sketch									

^{*}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.

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Field II	D	Manure	Applied*							
	roduction Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
Nutrients	s Needed (lb/acre) N	NP ₂ O	5K	₂ O						
Planting Population	g Information Date on/seeding rate used	i			Manure in	ncorporated on whole field was	(Date)	note area treate	ed on the F	ield Sketch.
	er/Lime Applic				Notes of	r Harvest In	ıformatio	on	l	Date
Date	Type & Analysis	Rate Applied		hod of ication						
Pesticid	le Applications	1st	2nd	3rd	- 4th	n 5th		Fiel	d Sketc	h
Date (Mo	onth/Day/Year)						г			
Time App	plication Completed	1	<u> </u>		Ī 					
Chemical	l Applied (Trade		*] <u> </u>					
	d Formulation)				<u> </u>					
Rate per					ļ		_			
	ount Applied				 					
	Additives Used†						_			
	of Application*, **				<u> </u>	_				
Target Pe										
	wth Stage†				├	_				
Wind Spe						-	_			
Wind Dir	ection†	1		Ì	<u> </u>					ì

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.

Field II	D		Acr	es	Manure	Applied*				
	roduction Plan				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
Crop Nutrients	Pesti s Needed (lb/acre)	oideP ₂ O	5K	₂ O						
Plantin	g Information									
Population	Dateon/seeding rate use sed	ed				corporated on whole field was				
Fertiliz	er/Lime Appli	cation			Notes or	· Harvest In	formatie	on	,	Date
Date	Type & Analysi	s Rate Applied					_			
Pesticid	le Applications	1st	2nd	3rd	4th	5th		Field	l Sketch	
	onth/Day/Year)									
	olication Completed									
1	l Applied (Trade d Formulation)						_			
Rate per				 			_			
	ount Applied	-			-		\dashv			
	Additives Used†					_	-			
	of Application*, **						-			
Target Pe	est**						\dashv			
Crop Gro	wth 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.

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Field I	D		Acr	es	Manure	Applied*		No. of Loads used (mph) Setting Date Date Covered, note area treated on the Field Sketch. Field Sketch		
	Production Plans				Date	Source of Manure	1		1 -	} -
Crop	Pestici s Needed (lb/acre) N	de	T7							
Nument	s Needed (16/acre) N	P ₂ O	5 K	₂ O						
Planting Population	ng Information Date on/seeding rate used sed	·			Manure in	ncorporated on whole field was r	(Date)	note area treate	ed on the Fi	eld Sketch.
Fertiliz	er/Lime Applica				Notes or	r Harvest In	formatio	on	ı	Date
Date	Type & Analysis	Rate Applied	Method of Application							
		The state of the s								
Pesticid	le Applications	1st	2nd	3rd	4th	5th		Field	Sketch	
	nth/Day/Year)									
	olication Completed									
	Applied (Trade d Formulation)									
Rate per							-			
	ount Applied									
Carriers,	Additives Used†									
Method o	f 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.

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.

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Field II	D		Acr	es	Manure	Applied*				
_	roduction Plan				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
Nutrients	s Needed (lb/acre)	NP ₂ O	5 K	₂ O						
Planting Population	g Information Date on/seeding rate use sed	ed				acorporated on whole field was r				
Fertiliz	er/Lime Appli	cation			Notes or	· Harvest In	formatio	n	1	Date
Date	Type & Analysi	S Rate Applied								
Pesticid	le Applications	1st	2nd	3rd	4th	5th		Field	Sketch	
	onth/Day/Year)									
Chemical	l Applied (Trade d Formulation)				:					
Rate per	Acre**									
Total Am	ount Applied									
	Additives Used†									
	of Application*, **		_							
Target Pe					ļ					
	wth Stage†		·· 							
Wind Spe					<u> </u>					
Wind Dire					<u> </u>		_			
Temperati	ure†	1								

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.

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Field ID	Acres
Crop Production Plans Crop Pesticide	
Nutrients Needed (lb/acre) N	
Planting Information Planting Date Population/seeding rate used Tillage used	
Fertilizer/Lime Application	on

 Date	Type & Analysis	Rate Applied	Method of Application
		_	

Pesticide Applications 1st 2nd 3rd Date (Month/Day/Year)

		_	
		_	
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	-	_	
	**		

^{*}If the whole field was not covered, note area treated on the Field Sketch. †Not required.

Manure Applied*

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

Notes or Harvest Information	Date

4th	5th
 	

Field Sketch		

^{**}Recommended by Right To Farm management practices but not required by Federal law.

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

resucide 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.

П	Pians			
_	Pesticide	*****	 	

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Planting	Inform	ation
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Nutrients Needed (lb/acre) N_

Crop_

Planting Date		
Population/seeding rate used	 	
Tillage used	 	

Fertilizer/Lime Application

Date	Type & Analysis	Rate Applied	Method of Application

Pesticide Applications 1st 2nd 3rd

	136	 JIU
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.

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	

5th 4th

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Field Sketch

^{**}Recommended by Right To Farm management practices but not required by Federal law.

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Field ID		Acre	es	Manure	Applied*				
Crop Production Plans	S			Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreade Setting
Crop Pestic					Wantie	Loads	uscu	(mpn)	Setting
Nutrients Needed (lb/acre) 1	N P ₂ O) _e K	20						
Turnems Trocada (Toructo)	20	51	20					<u> </u>	
Planting Information						<u> </u>			
Planting Date				Manura in	ncorporated on	(Data)			, , , , , , , , , , , , , , , , , , , ,
Population/seeding rate used	 d				whole field was i				
Fillage used				· If the	whole held was i	iot covered,	note area treat	d on the 11	cid Skettii.
Fertilizer/Lime Applic	ation			Notes or	r Harvest In	formatio	on		Date
ter unizer/Dime Applie	4 LIVII	ı							
Date Type & Analysis	Rate	Met	hod of						
Date Type & Analysis	Applied	Appl	Application						
		<u> </u>		-			- W-12-14-14-1		
	<u> </u>		- 1,				Field	l Sketch	
Pesticide Applications	1st	2nd	3rd	4th	5th		rieid	Sketch	
Date (Month/Day/Year)									
Time Application Completed				 		-			Ì
Chemical Applied (Trade Name and Formulation)				-		\dashv			
Rate per Acre**						-			
Total Amount Applied						-			
Carriers, Additives Used†									
Method of Application*. **						7			
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.

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Field II	Manu			
Crop P	roduction Plans			Date
Crop	Pesticio	de	10	
Nutrients	Needed (lb/acre) N	P ₂ O _{5_}	K ₂ O	
Plantin	g Information			
Planting	Date			Manure
				* If
•	sed			
_				3 7.4
Fertiliz	er/Lime Applica	tion		Notes
Date	Type & Analysis	Rate	Method of	<u>.</u>
Dute	Type & Amarysis	Applied	Application	 -
				-
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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

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

^{**}Recommended by Right To Farm management practices but not required by Federal law.

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Field II	D		Acre	es	Manure	Applied*				
	roduction Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreader Setting
Nutrients	Pesticion Needed (lb/acre) N	P ₂ O ₅	5K	2O						
Planting Population	g Information Date on/seeding rate used sed					corporated on whole field was r				eld Sketch.
Fertiliz	er/Lime Applica	tion			Notes or	Harvest In	formatio	n		Date
Date	Type & Analysis	Rate Applied		nod of ication						
- 10-								_1, _1, _1, _1		,,
	le Applications	1st	2nd	3rd	4th	5th		Fiel	d Sketcl	1
	onth/Day/Year) Dication Completed									
Chemical	Applied (Trade d Formulation)									
Rate per	· · · · · · · · · · · · · · · · · · ·						_			

	ISŧ	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.



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Spreader

Setting

Date

Field II)		Acre	es
Crop Pi	roduction Plan	S		
Nutrients	Needed (lb/acre)	NP ₂ C	O ₅ K	₂ O
Dlantin	. Information			
•	g Information			
Planting I	Date			
_	n/seeding rate use			
Tillage us	sed			 .
Date	Type & Analysis	1 .		hod of ication
_				
Pesticid	e Applications	1st	2nd	3rd
Date (Mor	nth/Day/Year)			
Time App	lication Completed			
	Applied (Trade Formulation)			
Rate per A	Acre**			
Total Amo	ount Applied			

4th	5th	1	Field Sketch
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Manure Applied*

Date

Source of

Manure

Notes or Harvest Information

Manure incorporated on (Date) _____

No. of

Loads

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

Spreader

used

Speed

(mph)

Carriers, Additives Used† Method of Application*, **

Target Pest** Crop Growth Stage† Wind Speed† Wind Direction† Temperature† Name of Applicator N

^{*}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.

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Field ID_	<u> </u>		Acres		Manure	Applied*				
Crop Prod	luction Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Sprea Setti
Nutrients Ne	Crop Pesticide Nutrients Needed (lb/acre) NP ₂ O ₅ K ₂ O									
Planting Dat Population/s	nformation e eeding rate used					corporated on whole field was n				eld Sket
Fertilizer/	Lime Applica	tion			Notes or	Harvest In	formatic	n		Date
Date T	Date Type & Analysis Rate Applied Method of Application						,,			
Pesticide A	Applications	1st	2nd	3rd	4th	5th		Field	d Sketch	l
Date (Month/										
	tion Completed									
Chemical App Name and For	· I				<u> </u>					
Rate per Acre					-		-			
Total Amount										
Carriers, Addi	itives Used†									
Method of Ap										
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.

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Field II	D		Acre	s	Manure	Applied*				
	Production Plans				Date	Source of Manure	No. of Loads	Spreader used	Speed (mph)	Spreade Setting
Nutrients	Pestici s Needed (lb/acre) N	IP ₂ O ₅	K ₂	0						
	g Information Date									
Populatio	on/seeding rate used	·				corporated on whole field was n				
Fertiliz	er/Lime Applica	ıtion			Notes or	· Harvest In	formatio	n		Date
Date	Type & Analysis	Rate Applied	Meth Applic	od of cation	-					·
·					,					
Pesticid	le Applications	1st	2nd	3rd	4th				Sketch	
Date (Mor	le Applications onth/Day/Year) plication Completed	1st	2nd	3rd	4th	5th			Sketch	

'esticide 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†			<u> </u>
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.

4th_	5th_	Field Sketch
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AICHIGAN BROUNDWATER BTEWARDSHIP BROGRAM

Groundwater Jips

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.

Agriculture Supports MICHIGAN STATE UNIVERSITY Groundwater Stewardship EXTENSION



MICHIGAN GROUNDWATER GROUNDWATER TIPS STEWARDSHIP PROGRAM GROUNDWATER 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 aroundwater.

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.







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





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 (*E2345, 3 sheets*). The MSU bulletin, "Recordkeeping System for Crop Production," (*E-2340*) explains the use of the system.

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