MICHIGAN STATE
UNIVERSITY
EXTENSION

Extension Bulletin E-2342 • Updated • March 2009

Recordkeeping System for Crop Production

- Pesticide application
- Nutrient application
- Manure application
- Animal burial & composting
- Irrigation
- Employee training

Annual Record Book Year _____

Farm Name:	Farm Owner:
Address:	City:
County:	Township: Zip Code:

Why keep production records?

- Keeping records meets the requirements of various state and federal regulations.
- Complete and accurate records help demonstrate your protection of soil, water and other environmental resources. Records will help you analyze the performance of your farm's cropping system.
- Records may provide liability protection in the event of a complaint or lawsuit concerning your farming operation.
- Complete records demonstrate conformance with Michigan Right-to-Farm guidelines and are needed for Michigan Agriculture Environmental Assurance Program (MAEAP) system verification.

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

Table of Contents

Index for Individual Fields

Field No.	Field ID	Field description/location
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		
21.		
22.		
23.		
24.		
25.		
26.		
27.		
28.		
29.		
30.		
31.		
32.		
33.		
34.		
35.		
36.		
37.		
38.		
39.		

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. The following charts also contain required pesticide and applicator information.**

1. 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) or, if there is no REI, for at least 30 days after the end of the application.

Required Pesticide Information

	Pesticide name and formulation	EPA registration number	Active ingredients	REI (hrs.)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				

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 fertilizer, pesticide, ag lime, and/or animal manure 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 calibration of equipment, contact your county Michigan State University Extension office.

Date of last fertilizer spreader calibration — **Month** _____ **Year** _____

Name of 1st spreader _____

Name of 2nd spreader _____

Date of last pesticide applicator calibration

Name of 1st applicator _____

Name of 2nd applicator _____

Date of last manure spreader calibration

Name of 1st spreader _____

Name of 2nd spreader _____

Pesticide Drift Management Plan

Directions: Complete all applicable sections and maintain plan on file in case of a complaint. A drift management plan must be reviewed annually by the pesticide applicator or completed each time off-target pesticide drift occurs. This plan meets the requirements of Pesticide Use Regulation No. 637.

1) Planning a pesticide application

Read the pesticide label(s) to identify drift management requirements.	___ Yes	
Is off-target pesticide drift likely?	___ Yes	___ No (Spray cautiously; a drift management plan is not required. If drift does occur, complete sections 2-5 below.)
If yes, what is the possible direction of off-target drift?	N NE E SE S SW W NW	
Are there sensitive areas (homes, crops, plants, people, livestock, etc.) that may receive off-target drift?	___ Yes	___ No (Spray cautiously; a drift management plan is required whenever off-target drift is likely. Complete sections 2-5 below.)

Document the informed consent of the residents in the affected areas to off-target drift (before application). Get signatures if possible. If not all residents agree, then you should delay pesticide application until off-target drift is NOT likely to occur.

Resident name:	Sensitive area(s):	Date of consent:
_____	_____	_____
_____	_____	_____

2) Pesticide application information*

Date of application:	Time of application:
Wind speed:	Other data:
Field(s)/farm(s):	

Applied pesticide(s) and EPA registration number(s):

_____ __ General use __ Restricted-use pesticide

_____ __ General use __ Restricted-use pesticide

_____ __ General use __ Restricted-use pesticide

*Your regular pesticide recordkeeping form should agree with this section and include all state and federal required application information.

Pesticide Drift Management Plan (cont.)

3) Indicate (✓) the pesticide off-target drift-reducing practices that will be or were used:

Larger spray droplet sizes: ___ Larger nozzle size ___ Reduced spray pressure ___ Increased spray volume ___ Spray additive or thickeners
___ Specialized equipment designed to minimize drift (drift-reducing nozzle types)
___ Reduce the release distance from sprayer tip to target
___ A no-spray buffer strip
___ Identify maximum wind speed and direction when application can be made
___ Wind shields on sprayer
___ Windbreaks to contain or deflect spray drift
___ Other practices (specify):

4) Notification documentation: If off-target pesticide drift occurred, then before leaving the application site, the applicator must provide either verbal or written information to the residents of the affected areas. The information must include at least the name, address and phone number of a person who may be contacted regarding the pesticide application.

Resident(s) impacted	Method of notification			Date and time
	Verbal	Sign	Written letter	

5) Name of pesticide applicator

Complete this form anytime that off-target pesticide drift occurs or annually when reviewed by the pesticide applicator. Keep a written copy of this plan on file.

Pesticide applicator and certification number (if applicable)	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (choose one)	Wind: Speed (choose one)	Wind: Direction (choose one)	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			
Example:													
7/20/09	*Earthen storage*	*Gehl*	*10*	*11*	*7/20/09*	*Yes*	*65°*	*Firm*	*Calm*	*SW*	*5000 gal/A*	*5454 gal/A*	*Mike M.*

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind: Speed *(choose one)* Calm Breezy Light Windy	Wind: Direction *(choose one)* W SW N NW S SE E NE	Application rate*: Planned	Application rate*: Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
** If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Date	Notes or harvest information

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ Acres _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

8

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

9

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind: Speed *(choose one)* Calm Breezy Light Windy	Wind: Direction *(choose one)* W SW N NW S SE E NE	Application rate*: Planned	Application rate*: Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
** If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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.

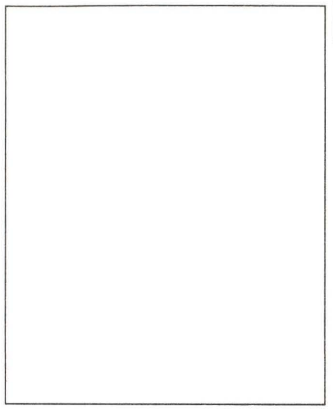
Manure Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch



Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (*choose one*): Firm, Dry, Wet, Frozen, Snow	Wind Speed (*choose one*): Calm, Breezy, Light, Windy	Wind Direction (*choose one*): W, SW, N, NW, S, SE, E, NE	Application rate*: Planned	Application rate*: Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

15

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

** If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

19

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

** If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

24

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind Speed *(choose one)*	Wind Direction *(choose one)*	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

26

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ Acres _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

28

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
** If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (choose one)	Wind: Speed (choose one)	Wind: Direction (choose one)	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

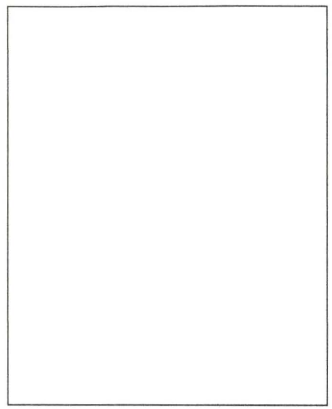
* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch



Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
** If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (*choose one*): Firm, Dry, Wet, Frozen, Snow	Wind Speed (*choose one*): Calm, Breezy, Light, Windy	Wind Direction (*choose one*): W, SW, N, NW, S, SE, E, NE	Application rate*: Planned	Application rate*: Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

33

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (choose one)	Wind: Speed (choose one)	Wind: Direction (choose one)	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

34

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind: Speed *(choose one)* Calm Breezy Light Windy	Wind: Direction *(choose one)* W SW N NW S SE E NE	Application rate*: Planned	Application rate*: Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)*	Wind: Speed *(choose one)*	Wind: Direction *(choose one)*	Application rate*: Planned	Application rate*: Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (choose one)	Wind Speed (choose one)	Wind Direction (choose one)	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions (choose one)	Wind Speed (choose one)	Wind Direction (choose one)	Application rate* Planned	Application rate* Actual	Name of applicator
								Firm Dry Wet Frozen Snow	Calm Breezy Light Windy	W SW N NW S SE E NE			

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:
(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre
Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre
**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

38

Field ID _____ **Acres** _____

Crop Production Plans

Crop _____ Pesticide _____

Nutrients needed (lb/acre) N _____ P_2O_5 _____ K_2O _____

Planting Information

Planting date _____

Population/seeding rate used _____

Tillage used _____

Fertilizer/Lime Application

Date	Type & analysis	Rate applied	Method 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			
Carrier volume per acre**			
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 Application Record

Date of application	Manure source	Spreader used	No. of loads	Acres covered**	Date of incorporation	Check field tiles?	Air temp	Soil conditions *(choose one)* Firm Dry Wet Frozen Snow	Wind Speed *(choose one)* Calm Breezy Light Windy	Wind Direction *(choose one)* W SW N NW S SE E NE	Application rate* Planned	Application rate* Actual	Name of applicator

* The manure application rate from your nutrient management plan should be used to determine the number of loads of manure applied to each field. Actual application rate can be calculated as follows:

(gallons or tons per load x number of loads) ÷ acres covered = gallons or tons per acre

Example: (6,000 gallons/load x 10 loads) ÷ 11 acres = 5,454 gallons per acre

**If entire field was not covered, note area spread on the field sketch. Identify environmentally sensitive areas where manure is not applied.

Field Sketch

Notes or harvest information	Date

Record for Manure Hauled Off-site

(to other farms or locations)

Date	Manure source	Destination location	Number of loads	Total quantity (gallons or tons)
Example: 7/20/09	*Main storage pit*	*Smith farm, Rural Township*	*15*	*90,000 gallons*

Manure Storage Inspection Record

Periodic inspections of the freeboard (the unusable capacity of a liquid storage to allow for safety and precipitation events) and integrity of manure storage facilities will reduce risks to the environment. Freeboard should be a minimum of 6 inches for fabricated structures (with straight side walls) and 12 inches for slope-sided structures, PLUS the additional storage volume for precipitation AND runoff from a 25-year, 24-hour storm event that enters the storage. The 25/24 storm event in Michigan is historically calculated for each county and ranges from 3.5 inches to 4.5 inches.

Storage ID	Date	Condition	Inches of freeboard*	Inspected by
Example:				
Heifer barn	*1/8*	*OK*	*20*	*Allen*

Storage ID	Date	Condition	Inches of freeboard*	Inspected by

Storage ID	Date	Condition	Inches of freeboard*	Inspected by

Storage ID	Date	Condition	Inches of freeboard*	Inspected by

* For liquid manure storage

Animal Burial Record

Although the Bodies of Dead Animals (BODA) Act does not specify a duration for which records must be kept, voluntary and regulatory environmental compliance programs would suggest that burial records be maintained indefinitely. These records shall be made available to the Director of the Department of Agriculture upon request.

Date of burial	Volume of mortality (lb.)	Grave single or multiple?

All mortality must be covered on a daily basis. Individual and common graves must be closed with 2 or more feet of topsoil. A maximum of 5 tons per acre may be buried in individual graves. The maximum for common graves is 2.5 tons per acre. Individual graves must be separated by 2.5 feet, and common graves by 100 feet. Additions to communal graves must be covered with at least 1 foot of soil. Common graves must be completely closed within 30 days of initial construction. Using the box below, sketch a field map showing burial site(s) within the field. Carcasses may not come in contact with groundwater.

Field sketch with burial location(s)

Animal Burial Record

41

Although the Bodies of Dead Animals (BODA) Act does not specify a duration for which records must be kept, voluntary and regulatory environmental compliance programs would suggest that burial records be maintained indefinitely. These records shall be made available to the Director of the Department of Agriculture upon request.

Date of burial	Volume of mortality (lb.)	Grave single or multiple?

All mortality must be covered on a daily basis. Individual and common graves must be closed with 2 or more feet of topsoil. A maximum of 5 tons per acre may be buried in individual graves. The maximum for common graves is 2.5 tons per acre. Individual graves must be separated by 2.5 feet, and common graves by 100 feet. Additions to communal graves must be covered with at least 1 foot of soil. Common graves must be completely closed within 30 days of initial construction. Using the box below, sketch a field map showing burial site(s) within the field. Carcasses may not come in contact with groundwater.

Field sketch with burial location(s)

Animal Tissue Composting Record

Composting system (bins, windrow, pile, overlapping piles, in-vessel or combination thereof).

Record each management activity on a separate line in the table (animal tissue and/or bulking agent additions, aeration, weekly temperature, and sale off the farm). Start a new table for each new compost batch.

These records must be maintained permanently. These records shall be made available to the Director of the Department of Agriculture upon request. Batch temperature must be taken at least once each week.

Date	Animal tissue added (lb.)	Age and species	Bulking agent added (cubic yd. or lb.)	✓ if aerated (turned, mixed, moved)	Temp. °F	Disposal of finished compost (e.g., reuse in new batch, spread on field; provide specific details) (cubic yd. or lb. or tons)

Animal Tissue Composting Record

42

Composting system (bins, windrow, pile, overlapping piles, in-vessel or combination thereof).

Record each management activity on a separate line in the table (animal tissue and/or bulking agent additions, aeration, weekly temperature, and sale off the farm). Start a new table for each new compost batch.

These records must be maintained permanently. These records shall be made available to the Director of the Department of Agriculture upon request. Batch temperature must be taken at least once each week.

Date	Animal tissue added (lb.)	Age and species	Bulking agent added (cubic yd. or lb.)	✓ if aerated (turned, mixed, moved)	Temp. °F	Disposal of finished compost (e.g., reuse in new batch, spread on field; provide specific details) (cubic yd. or lb. or tons)

Irrigation Application Record

Year _____

Keeping irrigation records will help you meet Michigan's water use reporting requirements and help you conform with the generally accepted agricultural and management practices (GAAMPs) for irrigation water use.

Field _____ Crop _____ Water source _____

Date of irrigation	Purpose* *(if not for water replacement)*	Amount applied *(inches or gallons)*	Acres irrigated	Acre-inches *(acres x inches) or* Gallons/Acre *(gallons ÷ acres)*	Notes: *(rainfall, repairs needed, repairs made, calibration, systemwide uniformity evaluation, chemigation/fertigation)*

* **c** - fertilizer or pesticide applications **f** - frost protection **p** - postharvest, maintenance, tillage, cover crops
d - disease management **h** - herbicide protection **w** - dust/wind erosion control/plant protection
e - evaporative cooling **o** - other, please explain **t** - prepare for tillage, planting or harvest operations

Irrigation Application Record

Year _____

Keeping irrigation records will help you meet Michigan's water use reporting requirements and help you conform with the generally accepted agricultural and management practices (GAAMPs) for irrigation water use.

Field _____ Crop _____ Water source _____

Date of irrigation	Purpose* *(if not for water replacement)*	Amount applied *(inches or gallons)*	Acres irrigated	Acre-inches *(acres x inches) or* Gallons/Acre *(gallons ÷ acres)*	Notes: *(rainfall, repairs needed, repairs made, calibration, systemwide uniformity evaluation, chemigation/fertigation)*

* **c** - fertilizer or pesticide applications **f** - frost protection **p** - postharvest, maintenance, tillage, cover crops
d - disease management **h** - herbicide protection **w** - dust/wind erosion control/plant protection
e - evaporative cooling **o** - other, please explain **t** - prepare for tillage, planting or harvest operations

Employee Training Record

The **Worker Protection Standard** (WPS) requires agricultural employers to take steps to reduce the risks of pesticide-related illness and injury if they use pesticides on the farm or employ workers or pesticide handlers who are exposed to such pesticides. *NOTE: Employee training is only one of the WPS requirements. See* **http://www.epa.gov/agriculture/index.html** *for additional requirements.*

Approved WPS trainer: An approved trainer is a certified pesticide applicator or an individual who has completed a Michigan-approved pesticide train-the-trainer program.

Approved trainer's credential	Signature

Agricultural workers training record: Workers are individuals employed to perform tasks such as harvesting, weeding, watering, cultivating and detasseling. As an alternative to on-site training, pesticide applicator certification meets the WPS training requirement for workers.

Print worker's name, ID or pesticide certification number	Signature	Date

Pesticide handlers training record: Handlers are individuals employed to mix, load, transfer and apply pesticides, repair pesticide application equipment or perform other tasks that bring them in direct contact with pesticides. As an alternative to on-site training, pesticide applicator certification meets the WPS training requirement for pesticide handlers.

Print handler's name, worker ID or pesticide certification number	Signature	Date

Employee Training Record *(continued)*

Comprehensive Nutrient Management Plan (CNMP) employee training record: New hires or new processes, procedures or equipment require employee training to follow the CNMP and to respond to manure spills. Document training on the following table.

Training topic(s)	Employee name or worker ID	Signature	Date

Other employee training: Most farms have other training requirements for their employees (field sanitation and hygiene practices, equipment operation, etc). Document training on the following table.

Training topic(s)	Employee name or worker ID	Signature	Date

Pesticide Application Tips

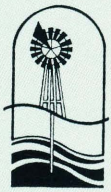
- Use integrated pest management programs to optimize pesticide use.
- Use conservation practices that reduce erosion and surface runoff.
- Follow label directions.
- Use the lowest pesticide rate that provides adequate control.
- Calibrate application equipment accurately.
- Measure pesticide concentrates accurately.
- Prevent back-siphoning of pesticides into water sources.
- Avoid spray drift and volatilization.
- Clean up pesticide and other spills.
- Store pesticides away from water sources.

Nutrient Application Tips

- Soil sample and test all fields on a regular basis before applying nutrients.
- Use fertilizer recommendations consistent with those of Michigan State University.
- Take nutrient credits for organic matter, legumes, and manure or other biological materials.

Manure Application Tips

- Determine the nutrient content of manure with a laboratory analysis.
- Apply manure uniformly to soils. Know the amount of manure applied per acre so that nutrients can be effectively managed.
- Liquid manure applications should not result in ponding, soil erosion or manure runoff to adjacent property, drainage ditches or surface water.
- Monitor tile drains. An application of manure that results in manure flow in a field tile is not acceptable.
- Avoid applications of manure to frozen or snow-covered soils.



Michigan
Groundwater
Stewardship
Program

The printing of this bulletin was funded by The US Environmental Protection Agency Region 5.

MICHIGAN STATE
UNIVERSITY
EXTENSION