

12-2010

Field Records for General and Restricted Use Pesticide Applications and Integrated Crop Management

Darrell Deneke

Jim Wilson

Follow this and additional works at: http://openprairie.sdstate.edu/extension_circ

Recommended Citation

Deneke, Darrell and Wilson, Jim, "Field Records for General and Restricted Use Pesticide Applications and Integrated Crop Management" (2010). *Extension Circulars*. Paper 464.
http://openprairie.sdstate.edu/extension_circ/464

This Circular is brought to you for free and open access by the SDSU Extension at Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. It has been accepted for inclusion in Extension Circulars by an authorized administrator of Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. For more information, please contact michael.biondo@sdstate.edu.

Year _____ Book # _____ of _____

Field Records

for

General and Restricted Use Pesticide Applications and Integrated Crop Management



South Dakota
Cooperative Extension Service

South Dakota State University
U.S. Department of Agriculture

Index

How to use this book	1
Record keeping requirements	
for Restricted Use Pesticide applications	2
Spot treatments	3
Applicator certification numbers	3
Commercial application of RUPs	4
Commonly used restricted use pesticides	4
Notes	5-6
Field records	
sample	6-9
individual records #1 through #15	10-65
Weight and Measurement	68
Soybean leaf defoliation levels	69
Collecting plant and insect samples	70
Making plant/insect samples for identification	71
Sprayer calibration	72
Emergency telephone directory	inside, back cover

Authors

Darrell Deneke, Extension integrated pest management coordinator
Jim Wilson, Extension pesticide education coordinator

Adapted with permission from *Field Records for Restricted Use Pesticide Application and Integrated Crop Management by Private Applicators*, EC-93-2540C, published by the University of Nebraska.

For additional information about the restricted use pesticide application recordkeeping requirements, contact your local county Extension office.

South Dakota State University, South Dakota counties, and U.S. Department of Agriculture cooperating. South Dakota State University is an Affirmative Action/Equal Opportunity Employer and offers all benefits, services, education, and employment opportunities without regard for race, color, creed, religion, national origin, ancestry, citizenship, age, gender, sexual orientation, disability, or Vietnam Era veteran status.

Revised December 2010 - 5,000 copies printed by CES at a cost of \$?.?? each. Printed on Recycled Paper.

Field Record Book

This book is designed to help you meet the requirements of the Restricted Use Pesticide (RUP) recordkeeping regulations (page 2). It also will allow you to keep a record of all pesticide applications and other crop production information as part of a sound farm management plan.

These records may provide a valuable source of information and documentation of pest populations, pesticide performance, production practices, production costs, and Worker Protection Standard practices.

How to Use This Book

- To comply with the RUP recordkeeping requirement, at a minimum, list the required information as described on page 2.
- Consider recording all pesticide applications.
- Use individual record to list year, field ID, and field size.
- Record field location or legal description. Use field map if appropriate.
- Record other information as needed. See handwritten example, pages 6-9.

Restricted Use Pesticide Application Recordkeeping Requirements

Private pesticide applicators must record their Restricted Use Pesticide (RUP) applications, as required by the Food, Agriculture, Conservation and Trade (FACT) Act of 1990 and administered by the USDA Agricultural Marketing Service.

RUP application records must be recorded within 14 days from the date of application and maintained for two years in a form available for copying by authorized representatives.

While the information recorded in this book will satisfy the RUP recordkeeping requirements, consider transferring it to a permanent written or computerized recordkeeping system.

RUP records must include:

- **Brand/product name**
- **EPA registration number**
- **Total amount of RUP applied**
- **Crop/site treated**
- **Field location**
- **Acres treated**
- **Application date**
- **Applicator's name
and certification number**

Spot Treatments

RUP applications made on the same day in a total area of less than 1/10 acre may be recorded by indicating “spot treatment” and by including the following information:

- **Brand/product name**
- **EPA registration number**
- **Total amount applied**
- **Date of application**
- **General location of treatment**

Applicator Certification Numbers

The applicator certification number of each individual making RUP applications must be included in the application record. Completing the following master list of applicator certification numbers will eliminate the need to list the number on each application record.

Applicator's Name	Certification Number

Commercial Application of RUPs

A commercial applicator applying RUPs must provide a copy of the required application information to the producer within 30 days of the application. Commercial applicators may hold these records for their clients, if their clients have signed a statement recognizing them as the record holder.

Commonly Used Restricted Use Pesticides

The following table allows you to record the EPA registration number from the labels of the Restricted Use Pesticides that you commonly use.

Also consider listing the Restricted Entry Interval (REI) which is found on all agricultural use pesticides as part of EPA's Worker Protection Standards (WPS)

Common Restricted Use Herbicides

Brand/Product Name	EPA Registration Number	REI (hours)

Field Record #1 Year 2011 Field Size 80A

Field ID #24 Johnson Quarter

Location or Legal Description _____

N1/2 NW1/4 sec3 T123 N R62W

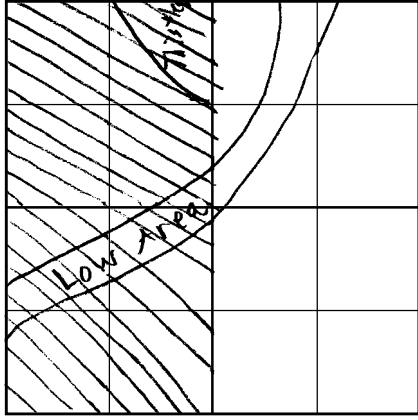
Crop/Variety soybean/surge

Seeding Rate 190,000 Final Population 180,000

Planting Date 5/15 Harvest Date 10/5

Yield 48 % Moisture 13.2

Storage Bin #10, 5,000 bu, rest sold @ harvest



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts					Total	Average
Green Poxtail	6/14	3 leaf	5 locations, 20 ft	26	30	34	30	25	145	29

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts					Total	Average
Soybean aphid	5/30	V2	10 plants/5 locations	10	20	10	15	10	65	13
Soybean aphid	7/28	R1	10 plants/5 locations	250	270	230	290	190	1230	246

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts					Total	Average
White Mold	8/20	R5	5 locations/5 plants	1	0	1	2	0	4	0.8

Application	#1	#2	#3	#4
Application date*	5/14	6/15	7/31	
Pesticide product name*	Python	Golphomex Plus	Mustang	
Pesticide EPA reg. no.*	62719-277	62719-322	279-3126	
Total RUP applied* /rate	80oz/107/a	15 gallons/24 oz/a	240 oz/3 oz/a	
Applicator's name* (from master list page 3)	Brad	Ray	Commercial	
Crop, commodity, or site*	Soybean Preplant	Soybean Post	Soybean Post	
Acres treated*	80	80	80	
Pest treated	Annual Broadleaf	Annual Broadleaf	Soybean Aphid	
Conditions (wind, temperature, etc.)	45-50°F 4 MPH S	65-70°F 6 MPH NW	75°F 6 MPH S	
*Note: This information is required for each restricted use pesticide application.				

Field Record #1 Year 5/15

Field ID #24 Johnson Quarter

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost
5/15	18-46-0	60	80	\$15/a

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1	12	No	85	No mixing 50ft of well
2	4	No	14	3 qts/acre/season
3	12	No	21	None
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

App#1: 30°F the next morning

App#2: Good control in field-Bad spot of Canada

thistle in SE corner-Moderate control

App#3: Aphids @ 246/plant on 7/28. Threshold

@ 200/plant.

Field Record #1 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #1 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #2 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #2 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #3 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #3 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #4 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #4 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #5 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #5 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #6 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #6 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #7 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #7 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #8 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #8 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #9 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #9 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #10 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #10 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #11 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #11 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #12 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #12 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #13 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3)				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #13 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Field Record #14 Year _____ Field Size _____

Field ID _____

Location or Legal Description _____

Crop/Variety _____

Seeding Rate _____ Final Population _____

Planting Date _____ Harvest Date _____

Yield _____ % Moisture _____

Storage _____



160 acres

Pest Scouting Report

WEEDS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

INSECTS

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

PLANT DISEASES

	Date	Crop/Weed stage	Units (#ft. row./sq.ft. etc.)	Counts	Total	Average

Application	#1	#2	#3	#4
Application date*				
Pesticide product name*				
Pesticide EPA reg. no.*				
Total RUP applied* /rate				
Applicator's name* (from master list page 3				
Crop, commodity, or site*				
Acres treated*				
Pest treated				
Conditions (wind, temperature, etc.)				
*Note: This information is required for each restricted use pesticide application.				

Field Record #14 Year _____

Field ID _____

Fertilizer/Manure Applied

Date	Grade or Actual (N-P-K)	lbs/acre	Acres	Cost

WPS & Label Restrictions

Application Number	REI	Posting Required?	Pre-harvest Interval	Other
1				
2				
3				
4				

Additional

(field operations, pesticide performance, problem areas, etc.)

Weights and Measures

Quantity	Equals
acre	43,560 sq. ft. .4047 hectare
°C	$(^{\circ}\text{F}-32)(5/9)$
°F	$[9/5 (^{\circ}\text{C}) + 32]$
foot	12 in 0.3048 m
gallon (US)	3.785 liters
hectare	2.471 acres
inch	25.40 mm
kg	2.2046 lb
km	0.6214
liter	0.2642 gal
m	39.37 in
mile	5280 ft 1.609 km
pound	0.4536 kg
yard	0.9144 m

Long Measure

12 in	1 ft
3 ft	1 yd
16.5 ft	1 rod
320 rods	1 mile
5280 ft	1 mile

Square Measure

144 sq. in	1 sq. ft
9 sq ft	1 sq yard
30 1/4 sq yard	1 sq rod
272 1/4 sq ft	1 sq rod
160 sq rod	1 acre
640 acres	1 sq mile

Soybean Leaf Defoliation Levels



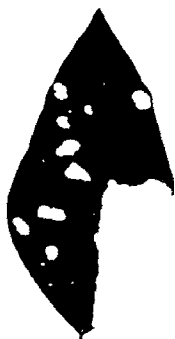
3%



8%



21%



24%



32%

Collecting Plant and Insect Samples

Occasionally, you may encounter a problem weed, insect, disease, plant condition or plant damage that you may not be able to identify. In addition, some problems cannot be identified directly in the field. In these cases, laboratory analysis and/or identification may be needed.

Accurate identification or correct diagnosis of plant diseases or other problems depends on two main factors: 1) The quick delivery of representative, fresh samples; and 2) Including a complete description of the problem describing the field, plant symptom or situation.

Plant Sample Collection

- Collect a complete, representative sample, including roots. Seeds, flowers and fruits are also useful.
- Dig plants—do not pull them! Include the soil ball, if useful.
- For herbicide injury, collect samples representative of the injury.
- Submit healthy plants for comparison.

For more information, contact your local County Extension Office

Making Plant Samples for Identification

- Broad-leaved plants: press flat between paper or cardboard. Submit dry or partially dry.
- Grasses: Submit as fresh samples, if possible.

Fresh Plant Samples

- Carefully dig plants and root ball, if needed. Wrap root ball in paper and cover with a plastic bag. Do not wrap leaves.
- Wrap entire sample loosely in paper and put in a STURDY box.
- Mail quickly. Mail in the first part of the week, if possible.

Insects

- Small or hard shell insects: submit whole insects in a vial or bottle with a tight lid.
- Soft-bodied insects—submit in 70% alcohol in vial or bottle with tight lid.
- Wrap the sample bottle and put it in a STURDY mail tube or box.
- Submit quickly—soft bodied insects discolor in alcohol over time.
- Collect as many forms of the insect as are present in the field.

Sprayer Calibration

1/128 Acre Method

1. Flush sprayer, clean and check screens and strainers. Fill sprayer with clean water. Always wear proper protective clothing.
2. Measure sprayer nozzle spacing, and use chart to determine distance to travel to cover 1/128 acre with one nozzle. Time sprayer through distance over similar terrain (soft ground, etc.) as area to be sprayed.
3. Park sprayer, set throttle to spraying speed/pressure to be used. Catch water from one nozzle for time determined in Step 2. On directed spray rigs, collect from all nozzles per row for determined time.
4. The number of ounces collected over the time = the gallon per acre (GPA) output.
5. Check uniformity of all nozzles. If not within 5%, replace nozzles.

Nozzle spacing/ band width	Distance (feet)
40	102
30	136
20	204
14	292
12	340
10	408
8	510
6	680

Emergency Telephone Directory

Sanford Poison Control Center
for aid in human poisoning (24 hours)
1-800-222-1222

Chemtrec-Pesticide Accident Hotline
for information on leaks, spills, fires (24 hours)
1-800-424-9300

National Pesticide Information Center
Network for medical/consumer pesticide
information (8:30 a.m. - 6:30 p.m. CST)
1-800-858-7378

Spill Reporting Numbers

Division of Emergency Management, Pierre
(24 hours)
(605) 773-3231

Department of Agriculture, Pierre
(8 a.m. - 5 p.m. CST)
(605) 773-4432
1-800-228-5254 (in SD)

Department of Environment
and Natural Resources, Pierre
(8 a.m. - 5 p.m. CST)
(605) 773-3296

Name _____

Address _____

Phone _____

Use of the tradenames is for reader convenience only
and does not imply endorsement by the Cooperative
Extension Service of products or services.