FIELD RECORDS: PESTICIDE APPLICATIONS

Courtesy of the
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Introduction

This record keeping system was developed in response to requests made to the Department of Agriculture and Forestry by the agricultural industry. At present, there are no regulatory requirements for producers to maintain a record of pesticide applications. Never-the-less, pesticide records are important and recommended. Good record keeping can assist you in making the best management decisions in the future, support product performance claims, track pesticide use, detail production costs, and establish field histories. It is important for producers to realize that these records are their personal property. In dealing with pesticide complaints made against producers, good records are almost always beneficial for the producer.

At first glimpse, this system may seem complicated. Yet, once you take a few minutes to become familiar with it, however, you'll see that it's quite straight forward.

INSTRUCTIONS:

STEP 1: - Take a moment to view the examples of how to complete these application sheets (page 3 - 5).

STEP 2: - Details of your sprayer's set-up can be recorded in the SPRAYER SET-UP CHART (page 5).

STEP 3: - Check the FIELD LOG SHEET and adapt it as required for your operation (page 6).

- Please keep separate records for each field.

Note: The Field Log Sheet permits recording of the wind speed. There are several wind speed measuring instruments available for purchase. These are not required to keep an accurate record book. By simply observing the effect of the wind speed on surrounding area (i.e., tree leaf movements), a record can be maintained.

The BEAUFORT SCALE was developed to allow the recording of wind speed without instruments. A chart outlining the BEAUFORT SCALE is also provided.

EXAMPLE - FIELD LOG SHEET

Field Number: 7

Field Location: *FRONT FIELD ON RIGHT SIDE OF SMITH ROAD*

Field Area: 60 *acres* *hectares*

Crop: *POTATO*

Variety: SUPERIOR

Planting Dates: MAY 15TH, 1996

A.P.P. #	Date and Start Time	Product Name and/or PCP #	Target Pest	Pesticide Rate (L/ac or L/ha)	Wind Speed (from page 4)	Sprayer Set-Up (from page 5)	Tanks per Field	Amount Pesticide per Tank (L or kg)
1.	June 5 - 7:00 am	Gramorone - 8661	Quackgrass	1.6	3 NE	1	1	16
2.	June 30 - 8:00 am	Bravo - 15723		0.7		2	2	21
3.	August 2 - 6:30 pm	Bravo Monitor - 12287	CPB - Aphids	0.9 0.8	4 NW	6	3	18 16
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11.								
12.								
13.								
14.								

EXAMPLE - WEATHER AND WIND SPEED CHART	RECORD AT END OF APPLICATION

A.P.P. #	WEATHER	TEMP. F OR C	WIND SPEED MPH km/hr Beaufort Scale DIRECTION From To	COMMENTS	FINISH TIME	WIND SPEED MPH km/hr Beaufort Scale DIRECTION From To	NAME OR Initials
1.		16	3 - NE	Plants ~ ½ " in height or taller	11:30 am	3 - N	DH
2.		18	4 - NW	Few Flea Beetle Showing	10:30 am	4 - NW	MB
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EXAMPLE - SPRAYER SET-UP CHART

Notes: - Complete this section for each sprayer used or when nozzles, pressure, or travel speed are changed.
- CIRCLE OR UNDERLINE UNITS USED (underline if editing sheet on-line).
- Record the sprayer set-up number on each field log sheet when that sprayer set-up is used.

SPRAYER SET-UP	SPRAYER TYPE & TANK SIZE *Imp Gallons U.S. Gallons Litres*	AREA/TANK *Acres/Tank Hectares/Tank*	NOZZLE TYPE	PRESSURE *PSI kPa*	SPEED *MPH km/hr*	SPACING *inches cm*
1.	HARDI 3 PT - 200	10	TEEJET - 8003	50	5.0	20
2.	HARDI 3 PT - 200	24	TEEJET - 80015	35	5.0	20
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FIELD LOG SHEET: Record details of each pesticide application on the following two charts. Circle or underline field area unit.

Field Number:								
Field Location:				**Field Area:** acres hectares				
Crop:		**Variety:**		**Planting Dates:**				
A.P.P. #	**Date and Start Time**	**Product Name and/or PCP #**	**Target Pest**	**Pesticide Rate (l/ac or l/ha)**	**Wind Speed**	**Sprayer Set-Up**	**Tanks per Field**	**Amount Pesticide per Tank (l or kg)**
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3.								
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WEATHER AND WIND SPEED CHART					RECORD AT END OF APPLICATION		
A.P.P. #	**WEATHER**	**TEMP. F OR C**	**WIND SPEED** MPH km/hr Beaufort Scale **DIRECTION** From To	**COMMENTS**	**FINISH TIME**	**WIND SPEED** MPH km/hr Beaufort Scale **DIRECTION** From To	**NAME OR Initials**
1.							
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12.							
13.							
14.							

SPRAYER SET-UP CHART

Notes: - Complete this section for each sprayer used or when nozzles, pressure or travel speed are changed.
- CIRCLE OR UNDERLINE UNITS USED (underline if editing sheet on-line).
- Record the sprayer set-up number on each field log sheet when that sprayer set-up is used.

SPRAYER SET-UP	**SPRAYER TYPE & TANK SIZE** *Imp Gallons U.S. Gallons Litres*	**AREA/TANK** *Acres/Tank Hectares/Tank*	**NOZZLE TYPE**	**PRESSURE** *PSI kPa*	**SPEED** *MPH km/hr*	**SPACING** *inches cm*
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BEAUFORT SCALE

RECORDING WIND SPEEDS USING THE BEAUFORT SCALE

BEAUFORT SCALE	DESCRIPTION	VISIBLE SIGNS	SPRAYING NOTES	Approximate Airspeed at Boom Height
Force 0	Calm	Smoke rises vertically	Avoid fine sprays on warm sunny days	0 - 1 miles/hour > 2 km/hour
Force 1	Light Air	Direction shown by smoke drift	Avoid fine sprays on warm sunny days	1 - 3 miles/hour 2 - 5 km/hour
Force 2	Light Breeze	Leaves rustle, wind felt on face	Ideal spraying	4 - 7 miles/hour 6 - 11 km/hour
Force 3	Gentle Breeze	Leaves and twigs in constant motion	Good spraying	8 - 12 miles/hour 13 - 19 km/hour
Force 4	Moderate	Small branches move, raises dust or loose paper	Avoid herbicides with finer sprays	13 - 18 miles/hour 21 - 29 km/hour
Force 5	Fresh Breeze	Small trees sway	Exercise extreme caution with all sprays	19 - 24 miles/hour 30 - 38 km/hour
Force6	Strong Breeze	Large branches sway	Potentially illegal to spray	25 - 31 miles/hour 40 - 50 km/hour
Force 7	Moderate Gale	Whole tree in motion	Illegal to spray	32 - 38 miles/hour 51 - 61km/hour

NOTES: