PESTICIDE APPLICATOR LOG







ESTIMATING WIND SPEED

Observed effects on land	Approximate wind speed	Meteorological term	
Calm; smoke rises vertically	Under 1 mph	Calm	
Smoke drift indicates wind direction; weather vanes do not move	1 to 3 mph	Light air	
Wind felt on face; leaves rustle; weather vanes begin to move	3 to 7 mph	Light breeze	
Leaves and small twigs in constant motion; light weight flags extended	7 to 11 mph	Gentle breeze	
Dust, leaves, and loose paper raised up; small branches move	12 to 15 mph	Moderate breeze	
Small trees in leaf are in motion	DO NOT SPRAY-Drift regulations prohibit spraying when wind speed is over 15 mph.		

Be careful when estimating wind speed. An estimate is just that-an estimate-and not an exact measurement. Adapted from "How to Forecast Weather" by Dan Ramsey, Tab Books, Inc., 1983.



A member of the University of Maine System Second Printing 1/93 Jim Dill, Jim Dwyer, Leigh Morrow Revised 11/99 Don Barry, Gary Fish Reprinted 08/04

To order this book contact: Pest Management Office 491 College Avenue Orono, ME 04473-1295 207-581-3880 800-287-0279 (in Maine) Published and distributed in furtherance of Acts of Congress of May 8 and June 30, 1914 by the University of Maine Cooperative Extension,the Land Grant University of the State of Maine and the United States Department of Agriculture cooperating. Cooperative Extension and other agencies of the USDA provide equal opportunities in programs and employment.

PESTICIDE APPLICATOR LOG

Record Keeping and Reporting Requirements for Pesticide Applicators in Maine

Requirements for All Applicators

In March 1995 the Maine Board of Pesticides Control adopted changes to its record keeping and reporting rules. For easy reference, the new Chapter 50, "Record Keeping and Reporting Requirements," consolidates into one rule the record keeping and reporting requirements contained in Chapter 22 (the BPC's "drift regulations"), the 1990 Farm Bill, and the U.S. EPA Worker Protection Standard.

Pesticide record keeping and reporting are required of commercial applicators, commercial agricultural producers, limited/restricted use pesticide dealers, spray contracting firms and monitors. Applicators must keep records for all of the pesticides they used for a period of two years. Pesticides are any products whose label has an EPA Registration Number.

By completely filling in the Pesticide Application Log, you will record all information required by Chapter 50 regulations. Enter a new record for each application to a site, and for each different location. Weather conditions need not be recorded for indoor applications or for the application of pesticides through the placement of bait stations, ear tags or tree injections. You can devise your own format for record keeping so long as all required information is contained in the daily records and is available for inspection upon request. If you have questions about a particular format, send a sample to the Board of Pesticides Control at the address below and our staff will review it for completeness.

Blank pages are provided for you to note standard abbreviations used in your records. Such abbreviations can be used for weather conditions, to indicate various fields or other areas, a target pest, application equipment, etc. Space is also provided on each Log page for additional notes, such as detailed site descriptions or maps of sensitive areas.

Commercial Applicator Summary Reports

All commercial applicators must also submit Annual Summary Reports for both indoor and outdoor applications. These summaries are based on the site or crop treated (see illustration on page 3.) The Board will supply reporting forms with the license renewal package each year. Commercial applicators need only submit annual summary reports by January 15 of the year following application.

KEEPING TRACK OF PESTICIDE APPLICATIONS

Records are important tools for pesticide applicators. Application records are essential for protecting the applicator in the event of an off-target drift complaint which could lead to a civil suit. Accurate records also provide a way to track spray results, product effectiveness and pest problems over time. Pesticide application records must include:

• Site information, including town and location. Sensitive areas near the application site are indicated by a "yes" or "no" entry in the Log. If "yes," a detailed description or map should be included in the Log; use the space below the Log or blank pages at the back of the book.

• Crop or site treated - be as specific as possible. Sites include such things as roadsides, lawns, trees, utility rights-of-way, greenhouse ranges, etc. Additional information may include work order numbers, clients, etc. Private applicators should devise a method of noting each field or plot; place a key to abbreviations or names used on the blank pages provided.

• **Target pest** - be specific, such as apple maggot, general lawn weeds, apple scab, defoliation, etc.

• A practical description of the **extent of the application**, such as size or volume of area treated, number of trees, animals or rooms, etc. Use a unit of measurement that is appropriate. Depending on your applications, this may be hectares, per 1,000 sq. ft., feet of row, acre-foot, etc. Make sure the units are clearly noted or defined in an abbreviations key.

- Date and time of the application.
- Pesticide-specific information:
 - 'brand name' of the pesticide;
 - active ingredient;

• restricted entry interval or permissible air concentration level. To find an applicable restricted entry interval or air concentration level, look on the pesticide label;

• EPA registration number. Every pesticide product registered in the United States is given an EPA Registration number. Check the front of the label carefully. The EPA Registration number is found following the words, "EPA Reg. No."

- Dilution agent(s), if other than water.
- Method of application (type of equipment.)
- Applicator's name and certification no.

Application rate information must also be recorded in one of the following ways:

• For **restricted use** pesticides, record the total amount of undiluted pesticide applied.

• For **general use** pesticides, record either: the total amount of undiluted pesticide applied; or the mix ratio and total mix applied; or the mix ratio and mix per unit area applied.

For outdoor applications (except for pesticides in bait stations) applicators must record:

- wind speed and direction;
- air temperature; and

• **sky conditions**, in terms such as sunny, partly cloudy, overcast, foggy, or rainy.

Sprayer Calibration Records

Equipment should be calibrated several times during the season; usually on the first day of use, whenever nozzles are replaced or when equipment is otherwise repaired. Each time equipment is calibrated, record it in the log.

Follow manufacturer's directions for calibrating your equipment. If they are not available, contact the equipment manufacturer or Cooperative Extension. Be sure to record the source of the calibration method used.

Wind Speed Measurement

Wind is the major factor in off-target drift. It is important to measure, or at least accurately estimate, wind speed. Anemometers are instruments for measuring wind speed; several portable styles are available. Follow manufacturer's directions for using anemometers and make sure the instrument has direct access to the wind to insure accurate readings.

Wind speed can also be estimated by observing natural signs. A chart inside the front cover shows what usually occurs in the environment at certain wind speeds

Whether wind speeds are measured or estimated, they must be checked at least every two hours - more often if conditions change. Regulations prohibit applications when wind speeds are 15 mph or greater However, drifting can occur with wind speeds below this limit; pesticide application should be stopped when any off-target drift is seen.

Date	tine1	Fields	Town	Outsiner	Addeday	Site	Sasof	Target	Weather	Conville	-	Panticide(s)	Fiale 2	Service 1	lion .	Application
95	True		1,000	Name	PedLoodon	arOrsp	Trooted Area	Past	Wind Speed A Direction	*F	Sky Cont	& Olivent Applied	Undivid	Ma	hila Rade	Method
1/25	7:50 АМ	7:50 AM	Receptort	Joseph Scinnes	133 Peurl St.	Lawn	10,000 5g.ft.	Chinch Bug	4 mph NNE	68	al a	Durshan Tarf	7.5 02-			Hand Gun
¥3	8:0 Am	9:15 AM	Camden	Susan Howe	Donahue St.	Lawn	50,000 Sq.Fb.	Chiech Beg	5 mph SS มี	75	Ċ,	Dursben Turf	375 ož.			Aand Gun
%	5:50 Am	7:30 m	Branswick	Naine Power Ca.	fale 671- Pale 771	R-0-W	\$8 Ac	HD WD Bruch	7.mph NNE	80	pt. Junet	Accord		148 941		Back Pack- Paliar
%		7150 PM	Topshere	Alaine Pouer Co.	Pele 150- Pole 240	Trans mission R-C-W	76 Ac.	HDWC Brusik	6 mph SW	15	il ^{ed s}	Accord		145 Gel.		Buik park- Folia
Y,0	7:36 Am	8:15 AM	bangor	Moe's Bar 8 Grill	io I Commercial St-	Besebuls Suniks, Etc.	Crevior Crevior	Carok- /oquies			-	Fican W		gal.	0,160 341	B⊧G
%	8:50 AM	9:40 ,Am	Banger	Penny's Eat-In	102 Commercial Sto	Basebin Siaks Etc.	Crack 1 Critice	Cide- rintdro			_	Ficam W		44 901.		15+G



An Annual Summary Report is required from Commercial Pesticide Applicators. The summary may be a compilation of logbook records.

1.00	Commercial Applicator Annual Summary Report							
Target Site	Targot Pest	Pesticide Manufacturer and Brand Name	EPA Reg No.	Total Pounds	Total Galions	Total Area Treated (SqFL, Acres, Homes)	Method of Application	
Lawns	Chinch Bug	Dow Elanco/Darsban Turf	62719-35		0.35	60,000 sq.ft.	Hand Gun	
Transmission R-0-W	* Hardwood Brush	Monsanto/ Accord	524-326		25	143 Ac.	Backpack- Foliar	
	Cock- roaches	Nor-Am/Ficam W	45439-1	0.15		2 Establishments	B+G	

Here is a typical private applicator's log book with record keeping examples. To save space and eliminate repetition in the log book, information which does not change from application to application, such as the pesticide-specific information, mixture content, rate description, target site or target pest, may be recorded once on a separate reference sheet as long as it is kept with the log book. If you make an incorrect entry in the Log, *DO NOT ERASE* - cross out the error and write in the correction.

PESTICIDE APPLICATOR LOG

Company Name:

0.00 95	Start Time	Finish Time	Address, Town/ Field Location*	Size of Treated Area ²
6/10	6Am	7:15Ar	Mars Hill Field #5	40 acres
15 €	6 A m	6:10 Am	Thorndike Gateway	85 head
7/15	7:30 AM	8:40 Am	Manchester G.H.#1 Bench#4	120 ff*
1%	6:30 Am	6:45 AM	Turner Orchard #2	85 acres

For a copy of Chapter 50, "Record Keeping & Reporting Requirements," or for information about these new regulations, contact:

Maine Board of Pesticides Control 28 State House Station Marquardt Bldg , AMHI Complex Augusta, Maine 04333-0028

Tel: 1-207-287-2731 Fax: 1-207-287-7548 E-Mail: pesticides@maine.gov

			Applicator Name(s): John Dee license Number (s): P00000						6.		
Sensitive	Site or Crop	Target	Wind	Weath	er Condi	tions	Pesticide(s)	Rate I	Descript	ion	Application
Area ¹ Yes/No		Pest	Speed & Direction	Temp	Cloud Cover	Time Noted	and Diluent Applied*	Undiluted	Mix	Mix Ratio	Method
no	Potto	Colo. Potato Beetle	4 m PA NNE	65°	clear	6 A m	Guthion 3F	7.5 9al			Tractor Boom
no	Cows Cattle	Lice Horn	_			_	Dairy Duster	25 lbs.			Dusting Bag
no	Boldings	Thrips				-	Margosan -0		59 ⁰	5t. gal·	Hand Sprayer
no	Apples	Mice Voles	2 mP NW	н 48°	over Cast	6:30 Am	ZP Rodent Bait	510 Ibs.			Custom- Aircraft Boom



Pesticide information which does not change from application to application may be recorded once in the Pesticide Key as long as it is kept with the log book.

PESTICIDE KEY							
Brand Name	Active Ingredient(s)	EPA Registration No.	Restricted Entry Interval and/or Air Concentration Level				
Guthion 3F	Azinphos-methyl	3125-338	48 hrs.				
Agway 1° Dairy	Courrephos	8590-374	N/A				
Margosan-O	Azadirachtin	11688-5-5818	5 4 hrs.				
ZP Rodent Bait	G Zinc Phosphide	12455-17	N/A				

SPRAYER CALIBRATION LOG

Date calibrated:		
Sprayer brand:		
Spayer type:		
Sprayer model:		
Nozzle type:		
Nozzle spacing:		
Nozzle orientation ¹ :		
Nozzle condition ² :		
Boom height ³ :		
Pressure:		
Speed (mph):		
Throttle (rpm):		
Tractor model:		
Tractor gear:		
Calculated volume/acre ⁴ :		
Calibration method:		

- 1 Nozzle orientation is the nozzle angle with reference to the airstream (for aerial and air-blast) or with the ground (for boom sprayers). For aerial and airblast 0° = with the airstream; for boom sprayers, 0° = straight down.
- 2 Do all nozzles match (size and number) and does output of each nozzle vary by less than ± 10% from the average nozzle output?

3 - Distance from the nozzles tips to the top of the target.4 - Acres or some other unit you normally use, e.g. per 1000 sq. ft., tree volume, acre-ft., linear mile, etc.

SPRAYER CALIBRATION LOG

Date calibrated:		
Sprayer brand:		
Spayer type:		
Sprayer model:		
Nozzle type:		
Nozzle spacing:		
Nozzle orientation ¹ :		
Nozzle condition ² :		
Boom height ³ :		
Pressure:		
Speed (mph):		
Throttle (rpm):		
Tractor model:		
Tractor gear:		
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2 - Acres or other unit of measure you normally use, eg. 1000 sq ft, tree-volume, acre-ft., linear miles, etc.

3 - If sensitive areas are present, a description or map is required.

Target	Wind	Weath	er Condi	tions	Pesticide(s)	Rate D	Descript	ion	Application
Pest	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

License Number (s):

4 - Note weather conditions every two hours, more often if conditions change.

5 - Use the pesticide key at the front of this Logbook to record pesticide brand name, active ingredient, EPA registration number and restricted entry interval or air concentration interval.

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PESTICIDE APPLICATOR LOG Company Name: Start Finish Address, Town/ Size of Date Sensitive Site or Treated Area² Time Time Field Location¹ Area³ Crop Yes/No

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Pest	Speed & Direction	Temp	Cloud Cover	Time Noted ⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Application Method

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5 - Use the pesticide key at the front of this Logbook to record pesticide brand name, active ingredient, EPA registration number and restricted entry interval or air concentration interval.

1 - Be specific, street address, etc. Use abbreviations if needed.

2 - Acres or other unit of measure you normally use, eg. 1000 sq ft, tree-volume, acre-ft., linear miles, etc.

3 - If sensitive areas are present, a description or map is required.

Target	Wind	Weath	er Condi	tions	Pesticide(s)	Rate D	Descript	ion	Application
Pest			Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

License Number (s):

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Target Pest	Wind	Weather Conditions		tions	Pesticide(s)	Rate D	Application		
	Speed & Direction		Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

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Applicator Name(s): License Number (s):

Wind Weather Conditions **Rate Description** Pesticide(s) Application Target Pest and Diluent Method Cloud Speed & Temp Time Undiluted Mix Mix Applied⁵ Noted⁴ Direction Cover Ratio

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Target Pest	Wind	Weather Conditions			Pesticide(s)	Rate D	Application		
	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

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Target	Wind	Weath	er Condi	tions	Pesticide(s)	Rate Description			
Pest	Speed & Direction		Undiluted	Mix	Mix Ratio				

License Number (s):

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If you make an incorrect entry - DO NOT ERASE - cross out the error and write in the correction

Application Method

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Target Pest	Wind	Weath	er Condi	tions	Pesticide(s) and Diluent Applied⁵	Rate Description			Application
	Speed & Direction	Temp	Cloud Cover	Time Noted⁴		Undiluted	Mix	Mix Ratio	Method

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Pest	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

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Target Pest	Wind	Weather Conditions			Pesticide(s)	Rate D	Application		
	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

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Target	Wind	Weather Conditions Pesticide(s)			Pesticide(s)	Rate I	Descript	scription				
Pest	Speed & Direction	Temp	Cloud Time and Diluent Undilute Cover Noted⁴	Undiluted	Mix	Mix Ratio						

License Number (s):

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License Number (s):

31

	-	. ,							
Target	Wind	Weather Conditions		Pesticide(s)	Rate D	Application Method			
Pest	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method

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License Number (s):												
Target	Wind	Weath	er Condi	tions	Pesticide(s)	Rate Description						
Pest	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio				

Direction	Cover	Noted ^₄	Applied		Ratio	

4 - Note weather conditions every two hours, more often if conditions change.

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Application Method

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3 - If sensitive areas are present, a description or map is required.

	Elective Number (3).												
Target Pest	Target	Wind	Weather Conditions			Pesticide(s)	Rate D	Application					
	Speed & Direction	Temp	Cloud Cover	Time Noted⁴	and Diluent Applied⁵	Undiluted	Mix	Mix Ratio	Method				

License Number (s)

4 - Note weather conditions every two hours, more often if conditions change.

5 - Use the pesticide key at the front of this Logbook to record pesticide brand name, active ingredient, EPA registration number and restricted entry interval or air concentration interval.

If you make an incorrect entry - DO NOT ERASE - cross out the error and write in the correction

Maps and Notes:

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In case of suspected pesticide poisoning, get prompt medical attention! MAINE POISON CENTER — 1-800-442-6305

Maine Board of Pesticides Control — 207-287-2731 Cooperative Extension Pest Management Office — 800-287-0279 DEP Emergency Response — 800-482-0777

AMBULANCE _____

HOSPITAL _____

DOCTOR _____

FIRE DEPARTMENT _____

POLICE/SHERIFF_____

WEATHER INFORMATION _____

For chemical emergencies only, 24 hours a day:

Transportation Emergency Center (CHEMTREC) 1-800-424-9300

For information on pesticide products, health and environmental effects, safety, and cleanup and disposal procedures, 9:30am-7:30pm EST, except holidays:

National Pesticide Information Center 1-800-858-7378