

Pear Pest Management Survey
Pest management Resources Online for New England
(*PRO New England*)

This survey should be completed by the person most responsible for orchard management decisions on your farm.

Do you grow pears for sale?

Yes ----> continue below

No ----> if no, please put this blank survey in the enclosed return envelope in order to avoid getting follow-up mailings and reminders from us.

Please circle the number of your response, fill in the blanks, or circle the correct selection where indicated in the questions below.

- A1. How many acres of pears do you manage? _____Acres
- A2. Over the past 5 years, what is your average production per acre? _____Bushels
- A3. What percentage of your pears is sold through each of these markets?
- | | |
|-----------------------------------|--------|
| Processing | _____% |
| Fresh market, retail (pre-picked) | _____% |
| U-Pick | _____% |
| Fresh market, wholesale | _____% |
| Other (specify _____) | _____% |
| Total | 100 % |

HORTICULTURAL MANAGEMENT

B1. Which of the following pruning practices do you use? (Check all that apply.)

- Dormant pruning
- Summer pruning
- Removal of diseased wood
- Removal and destruction of prunings
- Chop prunings on orchard floor
- Other (please specify: _____)

B2. Do you use leaf analysis to determine fertilizer needs in most years? (Circle answer)

Yes or No

If yes, how frequently is it performed?

- 1) 1 time each year
- 2) More than 1 time each year
- 3) Every other year
- 4) Every third year
- 5) Other (please specify) _____

B3. Which of the following describe your planting densities? (Please estimate the approximate percentage of your pear orchard that is planted at each density.)

Fewer than 100 trees per acre	_____ %
100 to 200 trees per acre	_____ %
More than 200 trees per acre	_____ %

Total should equal 100 %

GENERAL PEST MANAGEMENT INFORMATION

C1. Please estimate your average pesticide use in a typical year:

Number of times you spray for insects each year _____

Number of times you spray for mites each year _____

Number of times you spray for diseases each year _____

Number of times you spray weeds each year _____

C2. Which of these pests requires routine, annual control, is an occasional pest requiring control, or is rarely a problem on your farm? **(Please put an answer for every pest mentioned)**

Pest	How Important is This Critter			
Pear psylla	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Pear midge	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
European red mite	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Two-spotted mite	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Pear rust mite	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Plum curculio	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Tarnished plant bug	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Fire blight	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Pear scab	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Sooty blotch	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Fly speck	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Other insects/mites: (Specify: _____)				
	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Other diseases: (Specify: _____)				
	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Weeds	Routine, annual control	Occasional pest	Rarely a problem	Never a problem

C3. Please indicate the importance of weather information to your pear pest management decision making. (Please circle your answers.)

	<u>Do you use this information?</u>		
Forecasts for next rain	frequently	occasionally	no
Temperature & humidity	frequently	occasionally	no
Temperature data to run degree-day models	frequently	occasionally	no
Leaf wetness/temperature data	frequently	occasionally	no
Rainfall total (for effect on spray residue)	frequently	occasionally	no

C4. If weather information was readily available, would you use it for:

Forecasts for the next rain	Yes	No
Temperature and Humidity	Yes	No
Temperature data to run degree day models	Yes	No
Leaf wetness/temperature data	Yes	No
Rainfall total (for effect on spray residue)	Yes	No

C5. What factors do you consider when choosing pesticides for use on your farm? (Please circle your answers)

	<u>How Important?</u>		
Toxicity of materials available (self, family, employees)	Very	Somewhat	Not
Potential environmental impacts	Very	Somewhat	Not
Safety of packaging (such as water soluble bags, etc)	Very	Somewhat	Not
Cost per acre/unit	Very	Somewhat	Not
Effectiveness (how well it does the job)	Very	Somewhat	Not
Impact on non-target critters including beneficial insects and mites	Very	Somewhat	Not
Phytotoxicity (potential for injury to crop)	Very	Somewhat	Not

In order for USDA to understand the importance of various pesticides to pear management, the following sections D-F ask for

specific information about your actual pesticide use.

For all pesticides used, “Full Rate” means highest labeled rate and “Reduced Rate” means less than the highest labeled rate.

INSECT AND MITE MANAGEMENT

For each of the following insect and mite pests, indicate the total number of acres treated in 2001 and fill in the blanks or circle the appropriate answers about the control measures you used. **If you did not treat for the pest, put “0” in the “acres treated” slot.**

D1. Pear Psylla

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	Yes or No		Rate used (based on label guidelines)		Effectiveness of Control		
	Y	N	Full Rate	Reduced Rate	Excellent	Good	Poor
Circle all that apply							
Oil	Y	N	F	R	E	G	P
Lorsban 4E	Y	N	F	R	E	G	P
Mitac W (50%)	Y	N	F	R	E	G	P
Asana XL (8.4%)	Y	N	F	R	E	G	P
Pounce 3.2EC	Y	N	F	R	E	G	P
Ambush 25W	Y	N	F	R	E	G	P
Imidan 70WSB	Y	N	F	R	E	G	P
Other Pesticide (Specify: _____)	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P

D2. Pear Midge

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	<u>Yes</u> or <u>No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>
Circle all that apply							
Guthion Solupak (50%)	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P

D3. Mites

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	<u>Yes</u> or <u>No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>
Circle all that apply							
Superior Oil	Y	N	F	R	E	G	P
Vendex 50WP	Y	N	F	R	E	G	P
Thiodan 3EC	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P

D4. Plum Curculio

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	<u>Yes</u> or <u>No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Guthion Solupak (50%)	Y	N	F	R	E	G	P
Imidan 70WSB	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P

D5. Tarnished Plant Bug

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	<u>Yes</u> or <u>No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Guthion Solupak (50%)	Y	N	F	R	E	G	P
Imidan 70WSB	Y	N	F	R	E	G	P
Thiodan 3EC	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P
Other (Specify:_____)	Y	N	F	R	E	G	P

DISEASE MANAGEMENT

E1. Fire Blight

a) Acres treated in 2001: _____ Ac.

				Rate used (based on label guidelines)		Effectiveness of Control		
<u>b) Pesticide(s) used</u>	<u>Yes or No</u>			<u>Full Rate</u> <u>Reduced Rate</u>		<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Agri-mycin 17	Y	N	F	R	E	G	P
Mycoshield	Y	N	F	R	E	G	P
Bordeaux plus oil	Y	N	F	R	E	G	P
Kocide plus oil	Y	N	F	R	E	G	P
COCS plus oil	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P

c) Cultural practices used:

	<u>Effectiveness of Control</u>		
Prune out infected tissue	Excellent	Good	Poor
Sterilize pruning tools	Excellent	Good	Poor
Reduce nitrogen fertilizer	Excellent	Good	Poor
Resistant varieties	Excellent	Good	Poor

E2. Pear Scab

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	<u>Yes</u> or <u>No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Ferbam 76WDG	Y	N	F	R	E	G	P
Dithane M45	Y	N	F	R	E	G	P
Dithane WSP (80%)	Y	N	F	R	E	G	P
Penncozeb 70DF	Y	N	F	R	E	G	P
Penncozeb 80WP	Y	N	F	R	E	G	P
Sulfur (95%)	Y	N	F	R	E	G	P
Manzate 200DF	Y	N	F	R	E	G	P
Ziram 76DF	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P

E3. Sooty Blotch & Fly Speck

a) Acres treated in 2001: _____Ac.

<u>b) Pesticide(s) used</u>	<u>Yes or No</u>		<u>Rate used (based on label guidelines)</u>		<u>Effectiveness of Control</u>		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Dithane M45	Y	N	F	R	E	G	P
Dithane WSP (80%)	Y	N	F	R	E	G	P
Penncozeb 75DF	Y	N	F	R	E	G	P
Penncozeb 80WP	Y	N	F	R	E	G	P
Manzate 200DF	Y	N	F	R	E	G	P
Ziram 76DF	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P

c) Cultural practices used:

	Yes	or	No	<u>Effectiveness of Control</u>		
- Summer pruning				Excellent	Good	Poor
- Weed management in orchard				Excellent	Good	Poor
- Weed control around orchard perimeter, stone walls, etc				Excellent	Good	Poor

WEED MANAGEMENT

F1. Pre-emergence applications

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	<u>Yes</u> or <u>No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
			<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Surflan	Y	N	F	R	E	G	P
Devrinol	Y	N	F	R	E	G	P
Solicam	Y	N	F	R	E	G	P
Goal	Y	N	F	R	E	G	P
Prowl	Y	N	F	R	E	G	P
Kerb	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P

c) Cultural weed management practices employed:

<u>Practice</u>				<u>How useful?</u>		
Mowing	Yes	or	No	Very	Somewhat	Little value
Mulching	Yes	or	No	Very	Somewhat	Little value
Cultivation	Yes	or	No	Very	Somewhat	Little value

F2. Post-emergence applications

a) Acres treated in 2001: _____Ac.

<u>b) Pesticide(s) used</u>	<u>Yes or No</u>		Rate used (based on label guidelines)		Effectiveness of Control		
	<u>Yes</u>	<u>No</u>	<u>Full Rate</u>	<u>Reduced Rate</u>	<u>Excellent</u>	<u>Good</u>	<u>Poor</u>

Circle all that apply

Roundup	Y	N	F	R	E	G	P
Fusilade	Y	N	F	R	E	G	P
Poast	Y	N	F	R	E	G	P
Paraquat	Y	N	F	R	E	G	P
Rely	Y	N	F	R	E	G	P
Scythe	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P
Other (Specify: _____)	Y	N	F	R	E	G	P

VOLE, RABBIT, AND DEER MANAGEMENT

G1 Practices employed:	Effectiveness of Control						
	Yes	or	No	Excellent	Good	Poor	
Baiting with rodenticide	Yes	or	No	Excellent	Good	Poor	
Close mowing		Yes	or	No	Excellent	Good	Poor
Weed management under trees	Yes	or	No	Excellent	Good	Poor	
Cultivation	Yes	or	No	Excellent	Good	Poor	
Vole/Rabbit guards	Yes	or	No	Excellent	Good	Poor	
Deer fencing	Yes	or	No	Excellent	Good	Poor	
Sentry Dogs	Yes	or	No	Excellent	Good	Poor	
Repellents	Yes	or	No	Excellent	Good	Poor	
Other methods:							
Specify _____	Yes	or	No	Excellent	Good	Poor	
Specify _____	Yes	or	No	Excellent	Good	Poor	

GENERAL PEST MANAGEMENT QUESTIONS:

- H1. Is IPM scouting or weather information used on your farm? Yes or No (Circle 1). If yes, they go to question H2; if no, skip to question H4.
- H2. If IPM practices such as insect trapping, degree-day accumulation, or field sampling are used, **who most often does them?** (Circle one answer only.)
 a) You
 b) Private IPM scout/consultant
 c) Farm employee or family member
 d) Other (specify: _____)
- H3. If scouting for pests or weather data is used, which of the following methods are used? (Circle all that apply)

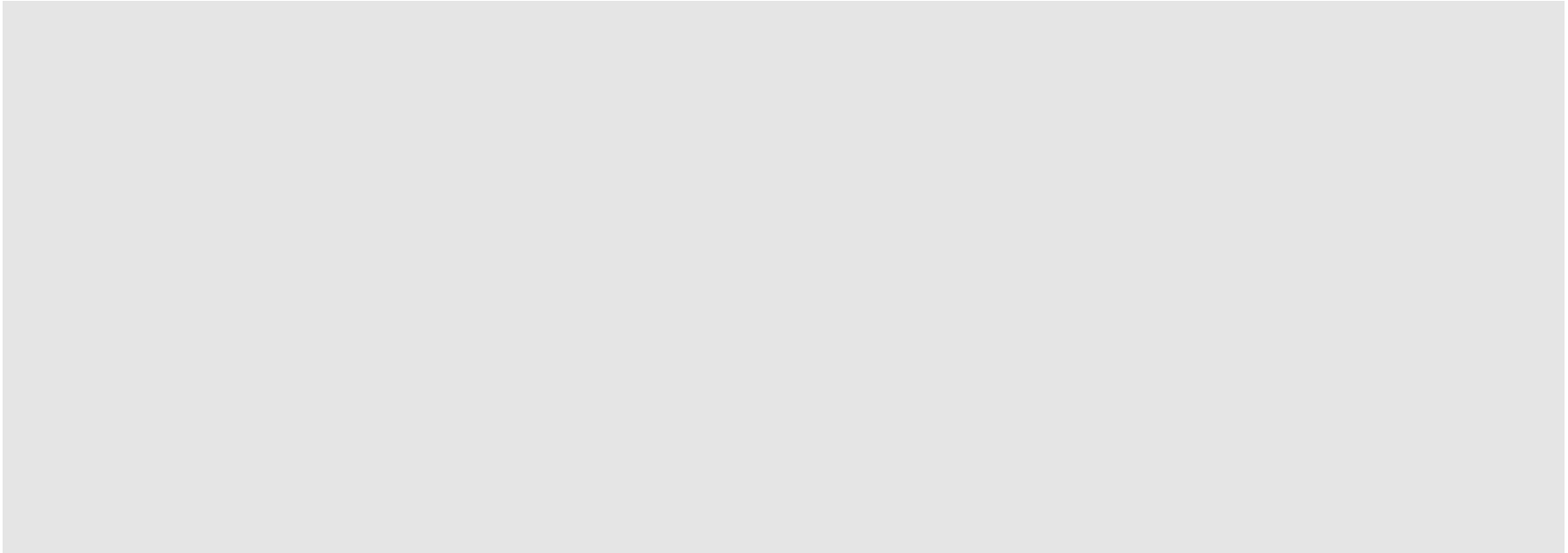
- a) A set pattern is used each time, such as sampling a fixed number of leaves for each tree, and a fixed number of trees per block.
- b) Informal monitoring is done.
- c) Insect traps are used.
- d) A degree day program to predict serious infection risk is employed.

H4. How important are the following sources of information in making pest management decisions?

		Circle all that apply		
a)	Twilight meetings	Very Important	Somewhat Important	Not Important
b)	Grower meetings	Very Important	Somewhat Important	Not Important
c)	NE Pest Management Guides	Very Important	Somewhat Important	Not Important
d)	Newsletters	Very Important	Somewhat Important	Not Important
e)	Web sites	Very Important	Somewhat Important	Not Important
f)	Trade publication	Very Important	Somewhat Important	Not Important
g)	Other growers	Very Important	Somewhat Important	Not Important
h)	Suppliers/dealers	Very Important	Somewhat Important	Not Important
i)	Other _____	Very Important	Somewhat Important	Not Important

H5. How would you describe your peach production practices? (Circle one.)
 Conventional
 Organic
 IPM
 Other

We would appreciate any additional comments you want to offer:



Thank you for completing the survey!