Peach Pest Management Survey

Pest management **R**esources **O**nline for **N**ew **E**ngland
(***PRO*** *New England*)

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

Do you grow peaches 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 peaches do you manage? _____Acres

A2. Over the past 5 years, what is your average production per acre? _____Bushels

A3. What percentage of your peach production 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 peach 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**			
Tarnished plant bug	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Oak & Hickory plant bugs	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Stink bugs	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
European red 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
Oriental fruit moth	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Green peach aphid	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Peach tree borers	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Brown rot	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Peach leaf curl	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Bacterial wilt (spot)	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Peach scab	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
X-Disease	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Voles	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Deer	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Rabbits	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 pest management decision making. (Please circle your

answers.)

	Do you use this information?		
Forecasts for next rain	Always	Sometimes	Never
Temperature & humidity	Always	Sometimes	Never
Temperature data to run degree-day models	Always	Sometimes	Never
Leaf wetness/temperature data	Always	Sometimes	Never
Rainfall total (for effect on spray residue)	Always	Sometimes	Never

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)**

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

In order for USDA to understand the importance of various pesticides to peach 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. Plant bugs (tarnished plant bug, oak & hickory plant bugs, stink bugs)

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
	Circle all that apply		
Guthion 2L	Yes No	Full Reduced	Excellent Good Poor
Guthion Solupak	Yes No	Full Reduced	Excellent Good Poor
Lannate LV	Yes No	Full Reduced	Excellent Good Poor
Lannate SP	Yes No	Full Reduced	Excellent Good Poor
Pounce 25WP or Ambush 25W	Yes No	Full Reduced	Excellent Good Poor
Pounce 3.2 EC	Yes No	Full Reduced	Excellent Good Poor
Imidan 70 WSB	Yes No	Full Reduced	Excellent Good Poor
Asana XL	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

D2. Oriental fruit moth

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
		Circle all that apply	
Guthion Solupak	Yes No	Full Reduced	Excellent Good Poor
Pounce 3.2 EC	Yes No	Full Reduced	Excellent Good Poor
Lannate SP	Yes No	Full Reduced	Excellent Good Poor
Lannate LV	Yes No	Full Reduced	Excellent Good Poor
Isomate-M (pheromone disruption ties)	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

D3. Mites

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
	Circle all that apply		
Superior Oil	Yes No	Full Reduced	Excellent Good Poor
Vendex 50WP	Yes No	Full Reduced	Excellent Good Poor
Apollo	Yes No	Full Reduced	Excellent Good Poor
Ultra fine oil (summer)	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide			
Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

D4. Plum Curculio

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
	Circle all that apply		
Guthion Solupak	Yes No	Full Reduced	Excellent Good Poor
Imidan 70WSB	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide			
Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____	Yes No	Full Reduced	Excellent Good Poor

D5. Green peach aphid

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
		Circle all that apply	
Superior oil	Yes No	Full Reduced	Excellent Good Poor
Sunspray oil	Yes No	Full Reduced	Excellent Good Poor
Lannate SP	Yes No	Full Reduced	Excellent Good Poor
Lannate LV	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide			
Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

D6. Peach tree borers

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
		Circle all that apply	
Guthion Solupak	Yes No	Full Reduced	Excellent Good Poor
Guthion 2L	Yes No	Full Reduced	Excellent Good Poor
Lorsban 4E	Yes No	Full Reduced	Excellent Good Poor
Lorsban 50W	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide			
Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

DISEASE MANAGEMENT

E1. Brown Rot

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
		Circle all that apply	
Benlate plus captan	Yes No	Full Reduced	Excellent Good Poor
Benlate plus sulfur	Yes No	Full Reduced	Excellent Good Poor
Bravo S	Yes No	Full Reduced	Excellent Good Poor
Captan 50W	Yes No	Full Reduced	Excellent Good Poor
Elite 45DF	Yes No	Full Reduced	Excellent Good Poor
Indar 75WSP	Yes No	Full Reduced	Excellent Good Poor
Nova 40W	Yes No	Full Reduced	Excellent Good Poor
Sulfur 95W	Yes No	Full Reduced	Excellent Good Poor
Topsin-M 70W plus captan	Yes No	Full Reduced	Excellent Good Poor
Other Pesticide Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

c) Cultural practices employed:

	Yes/No	Effectiveness of Control
Prune out infected tissue	Yes or No	Excellent Good Poor
Remove and destroy mummies	Yes or No	Excellent Good Poor

E2. Peach Scab

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o		Rate used (based on label guidelines) **F**ull Rate **R**educed Rate		Effectiveness of Control **E**xcellent **G**ood **P**oor		
			Circle all that apply				
Bravo S	Yes	No	Full	Reduced	Excellent	Good	Poor
Benlate plus captan	Yes	No	Full	Reduced	Excellent	Good	Poor
Benlate plus sulfur	Yes	No	Full	Reduced	Excellent	Good	Poor
Captan 50W	Yes	No	Full	Reduced	Excellent	Good	Poor
Indar 75WSP	Yes	No	Full	Reduced	Excellent	Good	Poor
Sulfur (95%)	Yes	No	Full	Reduced	Excellent	Good	Poor
Topsin-M plus captan	Yes	No	Full	Reduced	Excellent	Good	Poor
Topsin-M plus sulfur							
Other Pesticide							
Please Specify _____			Full	Reduced	Excellent	Good	Poor
Please Specify _____			Full	Reduced	Excellent	Good	Poor

E3. Bacterial spot

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) Full Rate	Reduced Rate	Effectiveness of Control **E**xcellent	**G**ood	**P**oor
		Circle all that apply				
Mycoshield	Yes No	Full	Reduced	Excellent	Good	Poor
Bordeaux	Yes No	Full	Reduced	Excellent	Good	Poor
Tennecop SE	Yes No	Full	Reduced	Excellent	Good	Poor
COCS	Yes No	Full	Reduced	Excellent	Good	Poor
Other Pesticide						
Please Specify _____		Full	Reduced	Excellent	Good	Poor
Please Specify _____		Full	Reduced	Excellent	Good	Poor

c) Cultural practices employed:

Resistant varieties: Yes or No (Circle one)

Did the use of these varieties help?

[ ] Yes, they reduced diseases incidence
[ ] Yes, they saved me 1 or more pesticide applications
[ ] No, they did not offer me enough variety options

If you did not use resistant varieties, why not? (check all that apply)

[ ] Need more information
[ ] Not enough variety options
[ ] Other (please specify) _____

E4. Peach leaf curl

a) Acres treated in 2001: _____Ac.

b) Pesticide(s) used	**Y**es or **N**o		Rate used (based on label guidelines) **F**ull Rate **R**educed Rate		Effectiveness of Control **E**xcellent **G**ood **P**oor		
	Circle all that apply						
Bordeaux	Yes	No	Full	Reduced	Excellent	Good	Poor
Bravo 720	Yes	No	Full	Reduced	Excellent	Good	Poor
Captan 50W	Yes	No	Full	Reduced	Excellent	Good	Poor
Copper (fixed, sulfate, hydroxide)	Yes	No	Full	Reduced	Excellent	Good	Poor
Ferban 76 WDG	Yes	No	Full	Reduced	Excellent	Good	Poor
Lime sulfur	Yes	No	Full	Reduced	Excellent	Good	Poor
Ziram 76DF	Yes	No	Full	Reduced	Excellent	Good	Poor
Other Pesticide							
Please Specify _____			Full	Reduced	Excellent	Good	Poor
Please Specify _____			Full	Reduced	Excellent	Good	Poor

E5. X-Disease

a) Acres treated in 2001: _____Ac.

b) Management practice employed	Effective? **(Circle all that apply)**		Effectiveness of Control		
Eradication of choke cherry	Yes or No		Excellent	Good	Poor
Prune out affected branches	Yes or No		Excellent	Good	Poor

WEED MANAGEMENT

F1. Pre-emergence applications

a) Acres treated in 2001: _____Ac.

b) Width of herbicide spray band on non-bearing trees _____ (example: 3 feet on each side of tree row)

c) Width of herbicide spray band on bearing trees _____

d) Pesticide(s) used	**Y**es or **N**o		Rate used (based on label guidelines) **F**ull Rate **R**educed Rate		Effectiveness of Control **E**xcellent **G**ood **P**oor		
	Circle all that apply						
Devrinol	Yes	No	Full	Reduced	Excellent	Good	Poor
Solicam	Yes	No	Full	Reduced	Excellent	Good	Poor
Goal	Yes	No	Full	Reduced	Excellent	Good	Poor
Prowl	Yes	No	Full	Reduced	Excellent	Good	Poor
Kerb	Yes	No	Full	Reduced	Excellent	Good	Poor
Other Pesticide							
Please Specify _____			Full	Reduced	Excellent	Good	Poor
Please Specify _____			Full	Reduced	Excellent	Good	Poor

e) Cultural weed management practices employed:

Practice employed	Yes or No		Effectiveness of Control		
Mowing	Yes	No	Excellent	Good	Poor
Mulching	Yes	No	Excellent	Good	Poor
Cultivation	Yes	No	Excellent	Good	Poor

F2. Post-emergence applications

a) Acres treated in 2001: _____Ac.

b) Width of herbicide spray band on non-bearing trees _____ (example: 3 ft on each side of tree row)

c) Width of herbicide spray band on bearing trees _____

d) Pesticide(s) used	**Y**es or **N**o	Rate used (based on label guidelines) **F**ull Rate **R**educed Rate	Effectiveness of Control **E**xcellent **G**ood **P**oor
		Circle all that apply	
Roundup	Yes No	Full Reduced	Excellent Good Poor
Fusilade	Yes No	Full Reduced	Excellent Good Poor
Poast	Yes No	Full Reduced	Excellent Good Poor
Paraquat	Yes No	Full Reduced	Excellent Good Poor
Rely	Yes No	Full Reduced	Excellent Good Poor
Scythe			
Other Pesticide			
Please Specify _____		Full Reduced	Excellent Good Poor
Please Specify _____		Full Reduced	Excellent Good Poor

e) Cultural weed management practices employed:

Practice employed	Yes or No	Effectiveness of Control
Mowing	Yes No	Excellent Good Poor
Mulching	Yes No	Excellent Good Poor
Cultivation	Yes No	Excellent Good Poor

VOLE, RABBIT, AND DEER MANAGEMENT

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

a) Conventional

b) Organic

c) IPM

d) Other

We would appreciate any additional comments you want to offer:

Thank you for completing the survey!