



Peas & Carrots Management Survey
 Pest management Resources Online for New England
 (*PRO New England*)



This survey should be completed by the person most responsible for crop management decisions on your farm. Please complete if you grow PEAS and/or CARROTS.

Question 1: Do you grow Peas for sale? (Please circle your answer)

Yes ----> continue below

No ----> if no, please turn to Page 11, Question 2

Please fill in the blanks or circle your answers where indicated in the questions below.

A1. How many acres (or square feet) of peas did you manage in 2002? (Please select one and fill in your answer)

_____ Acres or _____ Square Feet

A2. Over the past five years, what is your average annual yield of peas per acre? (Please select one and fill in your answer)

_____ Pounds/Acre or _____ Bushels/Acre

A3. What percentage of your pea crop is:

English / Garden Peas	_____ %
Edible Podded / Snow Peas	_____ %
Sugar Peas / Sugar Snap	_____ %
Other (specify _____)	_____ %
Total	100 %

A4. What percentage of your pea crop is sold through each of these markets?

Fresh market, retail (pre-picked)	_____ %
U-Pick	_____ %
Fresh market, wholesale	_____ %
Processing	_____ %
Other (specify _____)	_____ %
Total	100 %

If you have any questions about this survey please contact Natalia P. Clifton at (413) 545-1044 or email at nclifton@ent.umass.edu

Horticultural Management for PEAS

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

- fresh manure
- composted manure
- drip irrigation
- overhead irrigation
- staking/trellising
- Other (please specify: _____)

B2. Do you use a soil sample to determine fertilizer needs in most years? (Circle answer)

Yes or No

If yes, how frequently is it performed?

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

General Pest Management Information for PEAS

C1. Please estimate your average number of pesticide applications for peas used 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 and viruses each year _____
- Number of times you spray for weeds each year _____

C2. Which of these insects require routine annual control, require occasional control, are rarely a problem, or are never a problem on your farm? (Please circle your answers)

Insects & Mites

Corn Earworm	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Fall Armyworm	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Pea Aphid	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Other insects/mites: (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	

C3. Which of these diseases require routine annual control, require occasional control, are rarely a problem, or are never a problem on your farm? (Please circle your answers)

Viruses & Diseases

Damping Off	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Seed Decay	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Root Rot	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Stem Canker	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Other diseases: (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	
Other diseases: (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	

C4. Which of these pests require routine annual control, require occasional control, are rarely a problem, or are never a problem on your farm? (Please circle your answers)

Weeds & Vertebrate pests

Annual Broadleaf Weeds	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Perennial Broadleaf Weeds	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Annual Grasses	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Perennial Grasses	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Birds	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Other vertebrate pests (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	
Other vertebrate pests (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	

Continue to next page

In order to understand the importance of various pesticides and alternative strategies to Pea pest management, the following sections D-G ask for specific information about your actual pesticide use and alternative pest management strategies.

General Pest Management Information for PEAS

For each of the following insects and mites, indicate the **percentage of your pea crop treated in 2002**. If you **did not treat for the pest**, put “0” in the “percent treated” slot. Please circle the pesticides that you used, the rate (**full** or **reduced**) that was used and the effectiveness of the control strategy (**excellent, good, poor**). For all pesticides used, “**Full Rate**” means highest labeled rate and “**Reduced Rate**” means less than the highest labeled rate. If you used non-pesticide strategies to control a pest please specify them in the “**Other Strategies Employed**” area.

D1. Corn Earworm

a) **Percent of pea crop treated for Corn Earworm in 2002** _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Asana XL (esfenvalerate)	Full	Reduced	Excellent	Good	Poor
Sevin XLR Plus (carbaryl)	Full	Reduced	Excellent	Good	Poor
SpinTor 2SC (spinosad)	Full	Reduced	Excellent	Good	Poor
Other Pesticide(s) used: (Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

D2. Fall Armyworm

a) **Percent of pea crop treated for Fall Armyworm in 2002** _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Asana XL (esfenvalerate)	Full	Reduced	Excellent	Good	Poor
Sevin XLR Plus (carbaryl)	Full	Reduced	Excellent	Good	Poor
SpinTor 2SC (spinosad)	Full	Reduced	Excellent	Good	Poor
Other Pesticide(s) used: (Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

D3. Pea Aphid

a) Percent of pea crop treated for Pea Aphid in 2002 _____%

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Asana XL (esfenvalerate)	Full	Reduced	Excellent	Good	Poor
Dimethoate 4EC (dimethoate)	Full	Reduced	Excellent	Good	Poor
Lannate LV (methomyl)	Full	Reduced	Excellent	Good	Poor
Lannate SP (methomyl)	Full	Reduced	Excellent	Good	Poor
Other Pesticide(s) used: (Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

D4. Other Insect/Mite Pest(s) Please Specify _____

a) Percent of pea crop treated for Other Insect/Mite(s) in 2002 _____%

b) Pesticide/Strategy(ies) used (please list)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor

Continue to next page

Disease Management for PEAS

For each the following diseases, indicate the **percentage of your pea crop treated in 2002**. If you **did not treat for the pest**, put “0” in the “percent treated” slot. List the pesticides that you used, circle the rate (**full** or **reduced**) that was used and the effectiveness of the control strategy (**excellent, good, poor**). For all pesticides used, “**Full Rate**” means highest labeled rate and “**Reduced Rate**” means less than the highest labeled rate.

E1. Damping-Off

a) Percent of pea crop treated for Damping-off in 2002 _____ %

b) Pesticide(s) used:	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

E2. Seed Decay

a) Percent of pea crop treated for Seed Decay in 2002 _____ %

b) Pesticide(s) used:	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

Continue to next page

E3. Root Rot

a) Percent of pea crop treated for Root Rot in 2002 _____%

b) Pesticide(s) used:	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

E4. Stem Canker

a) Percent of pea crop treated for Stem Canker in 2002 _____%

b) Pesticide(s) used:	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

E5. Other Disease Pests (Please Specify) _____

a) Percent of pea crop treated for other Diseases in 2002 _____%

b) Pesticide(s) used (please list)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

Continue to next page

E6. Cultural practices used to control diseases in peas (Please list cultural practices used and circle the effectiveness of the control.)

<u>Cultural practices used</u>	<u>Effectiveness of Control</u>		
_____	Excellent	Good	Poor
_____	Excellent	Good	Poor
_____	Excellent	Good	Poor
_____	Excellent	Good	Poor

Vertebrate Pest Management for PEAS

F1. Which strategies do you use to control bird damage? (Please circle the strategies that you use and the effectiveness of control: excellent, good, poor.)

<u>Strategies employed (circle all that apply)</u>	<u>Effectiveness of Control</u>		
Scare eye balloons	Excellent	Good	Poor
Flash Tape	Excellent	Good	Poor
Propane Canons	Excellent	Good	Poor
Owls	Excellent	Good	Poor
Netting	Excellent	Good	Poor
Distress Calls	Excellent	Good	Poor
None			
Other strategies:			
Please Specify _____	Excellent	Good	Poor
Please Specify _____	Excellent	Good	Poor

F2. Other Vertebrate Pests and Strategies (Please list vertebrate, list strategies used and circle the effectiveness of the control)

<u>Please Specify Pest</u>	<u>Strategy(ies) used</u>	<u>Effectiveness of Control</u>		
_____	_____	Excellent	Good	Poor
_____	_____	Excellent	Good	Poor
_____	_____	Excellent	Good	Poor
_____	_____	Excellent	Good	Poor

Weed Management for PEAS

For each of the following weed control practices, indicate the **percentage of your pea crop treated in 2002**. If you **did not use the practice**, put “0” in the “percent treated” slot. Please circle the pesticides that you used, the rate (**full** or **reduced**) that was used and the effectiveness of the control strategy (**excellent, good, poor**). For all pesticides used, “**Full Rate**” means highest labeled rate and “**Reduced Rate**” means less than the highest labeled rate.

G1. Stale Seedbed

a) Percent of pea plants treated with stale seedbed applications in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Gramoxone Max 3S (paraquat)	Full	Reduced	Excellent	Good	Poor
Roundup Ultra 4S (glyphosate)	Full	Reduced	Excellent	Good	Poor
Scythe 4.2 (pelargonic acid)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

G2. Preplant Incorporated

a) Percent of pea plants treated with preplant incorporated applications in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Command 4EC (clomazone)	Full	Reduced	Excellent	Good	Poor
Treflan HTP (trifluralin)	Full	Reduced	Excellent	Good	Poor
Trilin 4EC (trifluralin)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

G3. Postemergence

a) Percent of pea plants treated with postemergence applications in 2002 _____%

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Basagran 4E (bentazon)	Full	Reduced	Excellent	Good	Poor
Poast 1.5EC (sethoxydim)	Full	Reduced	Excellent	Good	Poor
Scythe 4.2 (pelargonic acid)	Full	Reduced	Excellent	Good	Poor
Thistrol 2S (MCPB)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

G4. Which cultural weed management practices did you use? (Please circle the practices used and the effectiveness of control: excellent, good, poor.)

Practice (circle all that apply)	Effectiveness of Control		
Mowing	Excellent	Good	Poor
Mulching	Excellent	Good	Poor
Cultivation	Excellent	Good	Poor
Hand weeding	Excellent	Good	Poor
None			
Other (please specify) _____	Excellent	Good	Poor
Other (please specify) _____	Excellent	Good	Poor
Other (please specify) _____	Excellent	Good	Poor

Continue to next page

Question 2: Do you grow carrots for sale? (Please circle your answer)

Yes ----> continue below

No ----> if no, please turn to Page 19, Question 3.

Please fill in the blanks or circle your answers where indicated in the questions below.

H1. How many acres (or square feet) of carrots did you manage in 2002? (Please select one and fill in your answer)

_____ Acres or _____ Square Feet

H2. Over the past five years, what is your average annual yield of carrots per acre? (Please select one and fill in your answer)

_____ Pounds/Acre or _____ Bushels/Acre

H3. What percentage of your carrot crop is sold through each of these markets?

Fresh market, retail (pre-picked)	_____%
U-Pick	_____%
Fresh market, wholesale	_____%
Processing	_____%
Other (specify _____)	_____%
Total	100 %

Horticultural Management for CARROTS

I1. Which of the following horticultural practices do you use? (Circle all that apply.)

fresh manure
composted manure
drip irrigation
overhead irrigation
Other (please specify: _____)

I2. Do you use a soil sample to determine fertilizer needs in most years? (Circle answer)

Yes or No

If yes, how frequently is it performed?

1 time each year

More than 1 time each year

Every other year

Every third year

Other (please specify) _____

General Pest Management Information for CARROTS

J1. Please estimate your average number of pesticide applications for carrots used 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 & viruses each year _____

Number of times you spray for weeds each year _____

J2. Which of these insects and mites require routine annual control, require occasional control, are rarely a problem, or are never a problem on your farm? (Please circle your answers)

Insects & Mites

Carrot Rust Fly	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Carrot Weevil	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Leafhoppers	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Other insects/mites: (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	

J3. Which of these viruses and diseases require routine annual control, require occasional control, are rarely a problem, or are never a problem on your farm? (Please circle your answers)

Viruses & Diseases

Leaf Blight	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Xanthomonas Leaf Blight	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Root-Knot Nematode	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Yellows	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Root Rot	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Crown Rot	Routine, annual control	Occasional pest	Rarely a problem	Never a problem
Other diseases:(Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	

J4. Which of these pests require routine annual control, require occasional control, are rarely a problem, or are never a problem on your farm? (Please circle your answers)

Weeds & Vertebrate pests

Annual Broadleaf Weeds	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Perennial Broadleaf Weeds	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Annual Grasses	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Perennial Grasses	Routine, annual control	Occasional control	Rarely a problem	Never a problem
Vertebrate pests (Specify: _____)	Routine, annual control	Occasional control	Rarely a problem	

In order to understand the importance of various pesticides and alternative strategies to Carrot pest management, the following sections K-N ask for specific information about your actual pesticide use and alternative pest management strategies.

Insect and Mite Management for CARROTS

For each of the following insects and mites, indicate the **percentage of your carrot crop treated in 2002**. If you **did not treat for the pest**, put “0” in the “percent treated” slot. Please circle the pesticides that you used, the rate (**full** or **reduced**) that was used and the effectiveness of the control strategy (**excellent, good, poor**). For all pesticides used, “**Full Rate**” means highest labeled rate and “**Reduced Rate**” means less than the highest labeled rate. If you used non-pesticide strategies to control a pest please specify them in the “**Other Strategies Employed**” area.

K1. Carrot Rust Fly

a) Percent of carrot crop treated for Carrot Rust Fly in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
(Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

K2. Carrot Weevil

a) Percent of carrot crop treated for Carrot Weevil in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Asana XL (esfenvalerate)	Full	Reduced	Excellent	Good	Poor
Baythroid 2 (cyfluthrin)	Full	Reduced	Excellent	Good	Poor
Vydate L (oxamyl)	Full	Reduced	Excellent	Good	Poor
Other Pesticide(s) used: (Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

K3. Leafhoppers

a) Percent of carrot crop treated for Leafhoppers in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Asana XL (esfenvalerate)	Full	Reduced	Excellent	Good	Poor
Baythroid 2 (cyfluthrin)	Full	Reduced	Excellent	Good	Poor
Neemix 4.5 (azadirachtin)	Full	Reduced	Excellent	Good	Poor
Sevin XLR Plus (carbaryl)	Full	Reduced	Excellent	Good	Poor
Other Pesticide(s) used: (Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

K4. Other Insect/Mite Pest(s) Please Specify _____

a) Percent of carrot crop treated for Other Insect/Mite(s) in 2002 _____ %

b) Pesticide/Strategy(ies) used (please list)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor

Disease Management for CARROTS

For each of the following diseases and viruses, indicate the **percentage of your carrot crop treated in 2002**. If you **did not treat for the pest**, put “0” in the “percent treated” slot. Please circle the pesticides that you used, the rate (**full or reduced**) that was used and the effectiveness of the control strategy (**excellent, good, poor**). For all pesticides used, “**Full Rate**” means highest labeled rate and “**Reduced Rate**” means less than the highest labeled rate. If you used non-pesticide strategies to control a pest please specify them in the “**Other Strategies Employed**” area.

L1. Leaf Blight

a) Percent of carrot crop treated for Leaf Blight in 2002 _____%

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Bravo Ultrex WDG (chlorothalonil)	Full	Reduced	Excellent	Good	Poor
Rovral 50WP (iprodione)	Full	Reduced	Excellent	Good	Poor
Other Pesticide(s) used: (Please Specify) _____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____ (Please Specify) _____			Excellent	Good	Poor

L2. Other Disease Pests (Please Specify) _____

a) Percent of carrot crop treated for other Diseases in 2002 _____%

b) Pesticide(s) used (please list)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____ (Please Specify) _____			Excellent	Good	Poor

Continue to next page

L3. Other Disease Pests (Please Specify) _____

b) Percent of carrot crop treated for other Diseases in 2002 _____ %

b) Pesticide(s) used (please list)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
_____	Full	Reduced	Excellent	Good	Poor
Other Strategies Employed: (Please Specify) _____			Excellent	Good	Poor
(Please Specify) _____			Excellent	Good	Poor

L4. Cultural practices used to control diseases in carrots (Please list cultural practices used and circle the effectiveness of the control.)

	Effectiveness of Control		
	Excellent	Good	Poor

Vertebrate Pest Management for CARROTS

M1. Vertebrate Pests and Strategies (Please list vertebrate pests, list strategies used and circle the effectiveness of the control)

Please Specify Pest	Strategy(ies) used	Effectiveness of Control		
		Excellent	Good	Poor
_____	_____			
_____	_____			
_____	_____			
_____	_____			

Continue to next page

Weed Management for CARROTS

For each of the following weed control practices, indicate the **percentage of your carrot crop treated in 2002**. If you **did not use the practice**, put “0” in the “percent treated” slot. Please circle the pesticides that you used, the rate (**full or reduced**) that was used and the effectiveness of the control strategy (**excellent, good, poor**). For all pesticides used, “**Full Rate**” means highest labeled rate and “**Reduced Rate**” means less than the highest labeled rate.

N1. Stale Seedbed

a) Percent of carrot crop treated with stale seedbed applications in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Gramoxone Max 3S (paraquat)	Full	Reduced	Excellent	Good	Poor
Roundup Ultra 4S (glyphosate)	Full	Reduced	Excellent	Good	Poor
Scythe 4.2 (pelargonic acid)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

N2. Preplant Incorporated

a) Percent of carrot crop treated with preplant incorporated applications in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Treflan HFP (trifluralin)	Full	Reduced	Excellent	Good	Poor
Trilin 4EC (trifluralin)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

Continue to next page

N3. Preemergence

a) Percent of carrot crop treated with preemergence applications in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Select 2 EC (clethodim)	Full	Reduced	Excellent	Good	Poor
Lorox 50DF (linuron)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

N4. Postemergence

a) Percent of carrot plants treated with postemergence applications in 2002 _____ %

b) Pesticide(s) used (circle all that apply)	Rate used (based on label guidelines)		Effectiveness of Control		
	Full Rate	Reduced Rate	Excellent	Good	Poor
Fusilade DX (fluazifop)	Full	Reduced	Excellent	Good	Poor
Lorox 50DF (linuron)	Full	Reduced	Excellent	Good	Poor
Scythe 4.2 (pelargonic acid)	Full	Reduced	Excellent	Good	Poor
Sencor 4F (metribuzin)	Full	Reduced	Excellent	Good	Poor
Sencor 75DF (metribuzin)	Full	Reduced	Excellent	Good	Poor
Other Herbicide(s) used:					
Please Specify _____	Full	Reduced	Excellent	Good	Poor
Please Specify _____	Full	Reduced	Excellent	Good	Poor

N5. Which cultural weed management practice did you use? (Please circle the practices used and the effectiveness of control: excellent, good, poor.)

Practice (circle all that apply)	Effectiveness of Control		
Mulching	Excellent	Good	Poor
Cultivation	Excellent	Good	Poor
Hand weeding	Excellent	Good	Poor
None			
Other (please specify) _____	Excellent	Good	Poor
Other (please specify) _____	Excellent	Good	Poor

FOR ALL CROPS

Information for Management Decisions

**Question 3. If IPM practices such as insect trapping, degree-day accumulation, or field sampling are done, who does them?
(circle all that apply)**

- a) You
- b) Private IPM scout/consultant
- c) Farm employee or family member
- d) Other (specify: _____)

O2. What sampling methods are used? (circle all that apply)

- a) sampling pattern is standardized (a fixed number of leaves for each plant and a fixed number of plants per row)
- b) sampling pattern is informal
- c) insect traps are used
- d) none

O3. How important are these factors to you when choosing pesticides for use on your farm? (Please circle your answers)

		<u>How Important?</u>		
a)	Toxicity of materials available (to self, family, employees)	Very Important	Somewhat Important	Not Important
b)	Potential environmental impacts	Very Important	Somewhat Important	Not Important
c)	Safety of packaging (such as water soluble bags, etc)	Very Important	Somewhat Important	Not Important
d)	Cost per Acre/Unit	Very Important	Somewhat Important	Not Important
e)	Effectiveness (how well it does the job)	Very Important	Somewhat Important	Not Important
f)	Impact on non-target organisms including beneficials	Very Important	Somewhat Important	Not Important
g)	Phytotoxicity (potential for injury to crop)	Very Important	Somewhat Important	Not Important

O4. How often do you use the following weather information in making your pest management decisions? (please circle your answers)

a)	Forecasts for next rain	Frequently	Occasionally	Never
b)	Rainfall totals (for effect on spray residue)	Frequently	Occasionally	Never
c)	Temperatures (for degree day models)	Frequently	Occasionally	Never
d)	Humidity and/or leaf wetness hours	Frequently	Occasionally	Never
e)	Wind speed forecast	Frequently	Occasionally	Never

O5. If available, how often would you use irrigation scheduling guidance based on observed and forecast weather? (circle your answer)

Frequently Occasionally Never Not Sure

O6. How important are these sources of information in making your pest management decisions? (please circle your answers)

a)	Twilight meetings	Very Important	Somewhat Important	Not Important
b)	Off season educational meetings	Very Important	Somewhat Important	Not Important
c)	New England Vegetable Mgmt Guide	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 publications	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)	University/Extension staff	Very Important	Somewhat Important	Not Important
j)	Other _____	Very Important	Somewhat Important	Not Important

O7. How would you describe your crop production practices? (please circle your answer)

Conventional

IPM

Organic

Other (please specify: _____)

Continue to next page

Please use this space for any comments that you have

Thank you for your help.

Please return your questionnaire in the enclosed envelope to:

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