

# Year 3 Survey NE SARE Project “Natural Pest Management in New York High Tunnel and Greenhouse Vegetables”

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## 1. Do you grow any disease resistant tomato varieties?

#	Answer	Response	%
1	Geronimo	8	67%
2	Trust	1	8%
3	Other	5	42%

Other
Buffalo, Big Beef
Mt. Fresh
buffalo, evita, mt. fresh
Buffalo
Big beef, early golith

Statistic	Value
Min Value	1
Max Value	3
Total Responses	12

## 2. Do you grow disease resistant cucumbers?

#	Answer	Response	%
1	Manar	1	17%
2	Diva	4	67%
3	Other	3	50%

Other
Tyria
Emir

Statistic	Value
Min Value	1
Max Value	3
Total Responses	6

### 3. Do you grow any other disease resistant vegetables?

#	Answer	Response	%
1	Yes	0	0%
2	No	0	0%
3	Please list variety	0	0%

Please list variety

Statistic	Value
Min Value	-
Max Value	-
Total Responses	0

### 4. Have you released biological controls to control any of the following insects?

#	Answer	Response	%
1	Thrips	2	25%
2	Mites	6	75%
3	Aphids	5	63%
4	White Flies	0	0%
5	Other	0	0%

Other

Statistic	Value
Min Value	1
Max Value	3
Total Responses	8

## 5. Which of the following biological controls have you used?

#	Answer	Response	%
1	Aphidius colemani	1	10%
2	Aphidius ervi	1	10%
3	Amblyseius cucumeris	3	30%
4	Amblyseius californicus	1	10%
5	Encarsia formosa	1	10%
6	Phytoseiulus persimilis	5	50%
7	Lady beetles	2	20%
8	Other	1	10%

Other

Trizhogamma wasps

Statistic	Value
Min Value	1
Max Value	8
Total Responses	10

## 6. Have you used any microbial fungicides?

#	Answer	Response	%
1	Plant shield	4	36%
2	Cease	1	9%
3	Companion	2	18%
4	Pro-mix with Bio-fungicide	6	55%
5	Serenade	0	0%
6	Other	1	9%

Other

Myco-stop

Statistic	Value
Min Value	1
Max Value	6
Total Responses	11

## 7. Have you used any 'low risk' fungicides?

#	Answer	Response	%
1	Oxidate or ZeroTol	7	41%
2	Copper	9	53%
3	Culfur	2	12%
4	Milstop	2	12%
5	Greenshield	3	18%
6	Other	1	6%

Other

kaligreen

Statistic	Value
Min Value	1
Max Value	6
Total Responses	17

## 8. Have you used any 'low risk' insecticides?

#	Answer	Response	%
1	Bt	4	40%
2	Organic oils	6	60%
3	Neem oil	0	0%
4	Other	4	40%

Other
iron phosphate
botanagaurd
soap
miticide

Statistic	Value
Min Value	1
Max Value	4
Total Responses	10

## 9. Have you adopted cultural controls to manage pests in your high tunnel/greenhouse?

#	Answer	Response	%
1	Pruning of lower leaves of tomatoes/cucumbers	16	80%
2	Ventilation to reduce gray mold	17	85%
3	Straw/hay mulch to control weeds and mites in row middles	8	40%
4	Other, please describe	6	30%

Other, please describe
Landscape fabric for weed control
culling
Using row cover in high tunnels as a barrier for flea beetles
Hanging paper plates in big pots to limit soil splashing
We cover the entire floor with a large sheet of black plastic
We use ground cover in row middles

Statistic	Value
Min Value	1
Max Value	4
Total Responses	20

### 10. Have you increased your knowledge of natural pest control over the past 3 years?

#	Answer	Response	%
1	Yes	20	95%
2	No	1	5%

Statistic	Value
Min Value	1
Max Value	2
Total Responses	21

### 11. Have you, in the last 3 years, implemented natural pest management in your high tunnel/greenhouse vegetables?

#	Answer	Response	%
1	Yes	10	48%
2	No	11	52%

Statistic	Value
Min Value	1
Max Value	2
Total Responses	21

### 12. Do you plan to use natural pest control in the future?

#	Answer	Response	%
1	Yes	14	61%
2	No	2	9%
3	Possibly	7	30%

Statistic	Value
Min Value	1
Max Value	3
Total Responses	23

### 13. What pests do you feel are of greatest concern to your operation where additional research is needed to obtain control?

#	Answer	Response	%
1	Spider Mites	6	43%
2	Gray Mold	1	7%
3	Fungus gnats	1	7%
4	Thrips	2	14%
5	Aphids	6	43%
6	Slugs	4	29%
7	Flea beetles	2	14%
8	Grasshoppers	1	7%
9	Root maggot	1	7%

Statistic	Value
Min Value	1
Max Value	9
Total Responses	14

### 14. Can you put a dollar value on your adoption of natural pest control? Please explain

#	Answer	Response	%
1	Yes	4	80%
2	No	1	20%
	Total	5	100%

Yes

Natural pest control can save an entire crop. It is highly effective and valuable

Zerotol has saved on botrytis

Natural pest control takes less time, works 24-7, seems to do a great job. Great public relation tool

I can't quite put a dollar value on my crop, but I can say, we were able to control the mites with beneficials, to the point where we could continue harvesting.

Statistic	Value
Min Value	1
Max Value	2
Mean	1.20
Variance	0.20
Standard Deviation	0.45
Total Responses	5

### 15. Is there a success story you would like to share about your use of natural pest control methods? Please explain

#	Answer	Response	%
1	Yes	2	100%
2	No	0	0%
	Total	2	100%

Yes

Seems we have less problems with slugs since we let the chickens run in tunnel after crops are harvested

We haven't used any pesticides in our greenhouses during our growing seasons in over 30 years. In the past if we were hit with an infestation of mites, we usually stayed away from that part of the house or would remove infected plants. These beneficials are a helping hand.



Statistic	Value
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	2