

2015 Ranking of Research and Extension Priorities - Summary						
Respondent Groups:						
1: LOFT Fruit School, Lockport - Feb. 1, 2015 (31 Respondents)						
2: LOFT Fruit School, Newark - Feb. 2, 2015 (31 Respondents)						
3: NNY Fruit School, Lake George - Feb. 9, 2015 (20 Respondents)						
4: HVL Fruit School, Kingston - Feb. 10, 2015 (26 Respondents)						
5: New England, NY, Canada Fruit IPM Workshop, Burlington, VT - Oct. 20, 2015 (34 respondents)						
	Percent Ranking					
Pome Fruit Diseases	1	2	3	4	5	Average
Apple scab	27.4	13.3	31.8	13.5	26.8	22.6
Fire blight	28.7	14.9	21.0	13.1	29.0	21.3
Powdery mildew	14.9	18.9	15.7	16.0	9.6	15.0
Sooty Blotch/Flyspeck	5.6	15.1	5.6	13.1	6.8	9.2
Fruit Rots	8.9	12.9	11.6	16.0	14.6	12.8
Rust diseases	4.2	5.3	5.6	9.6	2.6	5.5
Replant disease	5.8	9.1	5.6	4.2	2.6	5.5
Anthraco-nose	0.4	0.0	0.4	0.0	0.0	0.2
Cankers	2.0	0.9	1.9	1.6	4.4	2.1
Root rots	2.0	6.4	0.7	4.8	2.2	3.2
Fabraea leaf spot	0.0	0.9	0.0	8.0	1.5	2.1
(write-in): Phytophthora	0.0	1.1	0.0	0.0	0.0	0.2
(write-in): Storage rots/pre-harvest sprays	0.0	1.1	0.0	0.0	0.0	0.2
Direct (Fruit-attacking) Pome Fruit Insect Pests	1	2	3	4	5	Average
Internal leps (Codling moth, Oriental fruit moth, Lesser appleworm)	28.0	10.1	9.8	14.0	24.2	17.2
Plum curculio	17.5	19.5	23.7	15.6	20.8	19.4
Apple maggot	13.5	15.1	20.7	13.7	16.9	16.0
Stink bugs	10.5	14.2	7.1	12.1	15.9	12.0
Obliquebanded leafroller	14.0	15.6	16.2	14.3	10.0	14.0
Spotted wing Drosophila	9.1	11.2	7.1	14.7	2.9	9.0
European apple sawfly	1.4	7.6	7.5	5.5	3.7	5.1
Tarnished plant bug	6.1	6.7	7.9	10.1	5.7	7.3
Pome Fruit Indirect Arth Pests/ Beneficial species	1	2	3	4	5	Average
European red mite/Two-spotted spider mite	14.3	13.0	20.6	15.8	17.8	16.3
San Jose Scale	15.8	15.4	22.8	9.8	23.3	17.4
Predator mites	4.3	8.7	10.9	6.4	10.1	8.1
Borers/Ambrosia beetles	18.8	11.3	12.7	12.5	18.0	14.6
Woolly apple aphid	17.3	16.4	7.5	12.8	10.8	12.9
Potato/White apple leafhoppers	5.3	6.5	6.7	6.7	5.1	6.1
Leafminers	2.3	7.0	9.7	10.1	3.8	6.6
<i>continued</i>						<i>continued</i>

Pome Fruit Indirect Arth Pests/ Beneficial species	1	2	3	4	5	Average
Pear psylla	10.3	6.0	4.9	10.4	7.6	7.8
Rosy apple aphid	11.5	11.3	4.1	13.8	3.2	8.8
Mealybugs	0.5	4.3	0.0	1.0	0.4	1.3
<i>(write-in):</i> Predator conservation	0.0	0.0	0.0	0.7	0.0	0.1
Postharvest Issues	1	2	3	4	5	Average
Post-harvest decay management	19.6	18.0	19.5	18.6	18.5	18.8
GAPS & Food safety	11.5	15.0	13.0	15.6	19.3	14.9
Post-harvest drench alternatives	12.0	15.2	5.6	13.3	11.2	11.5
Bin sanitation	7.9	9.2	2.6	5.3	9.8	7.0
Scald	9.2	12.0	10.4	12.5	5.3	9.9
Bitter Pit	22.9	10.2	27.3	12.5	22.4	19.1
Packing line sanitation	3.6	4.0	2.2	6.5	4.2	4.1
1-MCP	5.9	9.2	12.6	9.9	4.8	8.5
CO2 Damage	7.6	7.2	6.9	3.8	4.5	6.0
<i>(write-in):</i> Flesh browning	0.0	0.0	0.0	1.9	0.0	0.4
Ground Cover Management	1	2	3	4	5	Average
Perennial weed management	23.6	13.1	26.4	9.8	28.1	20.2
Use of new herbicides	19.3	13.8	18.4	14.0	12.6	15.6
Timing of control methods	13.6	17.2	15.3	15.3	12.6	14.8
Alternatives to herbicides, mulching, cultivation	8.3	7.9	1.1	6.5	18.8	8.5
Herbicide resistance	11.2	13.3	6.5	12.7	7.2	10.2
Weed biology & ID	6.2	10.6	6.9	9.1	9.1	8.4
Winter injury, etc. from glyphosate	9.0	9.1	14.2	9.8	6.5	9.7
Nutrient competition	3.1	4.9	4.6	9.1	3.5	5.0
Best use of old herbicides	5.7	10.1	6.5	13.7	1.6	7.5
Vertebrate Pests	1	2	3	4	5	Average
Deer	31.2	9.8	24.6	10.0	28.9	20.9
Voles	21.3	15.9	28.8	16.9	27.3	22.0
Birds	21.8	18.9	18.5	18.0	17.9	19.0
Rabbits	9.4	13.6	9.6	23.0	4.9	12.1
Turkeys	1.7	12.1	8.1	6.9	6.1	7.0
Goundhogs	7.7	14.4	5.8	18.0	8.6	10.9
Canada geese	4.2	8.3	2.3	3.8	3.3	4.4
Beavers	2.7	5.3	2.3	2.3	0.2	2.6
<i>(write-in):</i> Porcupines	0.0	0.0	0.0	0.0	2.3	0.5
<i>(write-in):</i> Raccoons	0.5	0.0	0.0	0.0	0.5	0.2
<i>(write-in):</i> Fishers	0.0	0.0	0.0	1.1	0.0	0.2
<i>(write-in):</i> Crows	0.0	1.8	0.0	0.0	0.0	0.4
<i>(write-in):</i> People	0.2	0.0	0.0	0.0	0.0	0.05

Application Technology Issues	1	2	3	4	5	Average
Spray coverage vs. control	19.2	14.9	27.3	17.5	26.9	21.2
Calibration	16.9	13.9	17.6	14.2	24.1	17.3
Drift management	11.3	14.7	11.0	14.2	15.9	13.4
Adjuvants w/ thinners (instead of oil)	13.9	12.1	11.0	14.2	8.9	12.0
Phytotoxicity and fruit finish	19.0	13.7	12.3	15.9	12.9	14.8
Canopy spray issues	5.1	13.9	10.1	10.8	6.1	9.2
Fixed spraying systems	2.3	3.5	0.9	10.1	1.2	3.6
Single-sided sprays in high density plantings	8.3	3.3	5.7	6.4	3.0	5.4
Herbicide shields	1.9	9.9	2.2	6.8	1.2	4.4
<i>(write-in)</i> : Tower sprayer options	0.0	0.0	1.8	5.7	0.0	1.5
<i>(write-in)</i> : % spray to canopy in smaller plantings	1.2	0.0	0.0	1.7	0.0	0.6
<i>(write-in)</i> : Appl of growth reg to canopy	0.9	0.0	0.0	0.0	0.0	0.2
Pest Management Education Issues	1	2	3	4	5	Average
Workshops for advisors/growers	20.3	15.4	19.2	15.1	20.3	18.1
Orchard demos	17.9	11.5	22.2	11.5	9.3	14.5
Production Guidelines publication	15.8	9.0	16.7	10.1	15.7	13.4
Web-based delivery methods	6.4	9.9	6.0	9.4	14.9	9.3
Pesticide applicator workshops	9.3	13.3	9.8	11.5	6.6	10.1
Pesticide safety programs	1.2	11.3	6.8	7.6	3.8	6.1
Smart phone apps	6.2	7.6	3.4	7.6	10.9	7.1
Consumer education	9.1	11.0	6.8	10.1	9.1	9.2
Biocontrol demos	3.6	2.3	1.3	7.2	4.6	3.8
Education for policy makers	9.3	8.7	7.7	10.1	4.2	8.0
<i>(write-in)</i> : Virtual wkshps based plant growth sims	0.0	0.0	0.0	0.0	0.6	0.1
<i>(write-in)</i> : e-version of Guidelines; web or app	1.0	0.0	0.0	0.0	0.0	0.2
General IPM Issues	1	2	3	4	5	Average
Pesticide resistance	20.0	14.0	19.8	12.9	17.4	16.8
Invasive/exotic species	19.4	12.6	16.9	11.9	19.6	16.1
Weather/information delivery systems	12.4	16.8	13.7	9.5	19.0	14.3
Cost reduction	13.6	14.0	13.7	12.5	6.8	12.1
Pollinator conservation	8.3	10.1	8.5	11.2	8.2	9.3
Organic production	2.8	2.8	0.8	7.5	3.8	3.5
Pheromone technology	5.8	15.4	6.5	12.5	10.4	10.1
OP/carbamate replacements	11.5	7.1	6.5	12.2	5.4	8.5
Abandoned orchard impact	3.0	1.8	5.6	1.4	1.6	2.7
IFP certification	0.5	0.7	3.6	3.4	1.0	1.8
Groundwater monitoring	1.2	3.9	2.8	4.4	0.8	2.6
Metrics of IPM adoption	1.2	0.2	1.6	0.7	5.8	1.9
<i>(write-in)</i> : Impacts of product losses on mgt progs	0.0	0.5	0.0	0.0	0.0	0.1
<i>(write-in)</i> : Drones for crop mgt	0.5	0.0	0.0	0.0	0.0	0.1

Regulatory Issues	1	2	3	4	5	Average
Pesticide registration procedures/restrictions	22.2	13.1	20.4	12.8	14.6	16.6
Clarification of labels	7.3	8.1	13.2	6.8	13.8	9.8
Harmonization of labels	5.9	6.2	6.4	12.8	8.3	7.9
Invasive species	12.5	7.6	16.6	11.3	14.2	12.4
Production standards for imports/exports (MRLs)	7.8	6.2	0.4	2.6	2.2	3.9
Right-to-farm/drift issues	11.0	8.1	10.2	15.4	5.9	10.1
Smaller package sizes	1.2	3.7	1.3	1.9	5.5	2.7
Use of "Generally Regarded As Safe" products	2.4	5.8	3.0	5.3	2.8	3.9
Labor Regulations	12.7	12.2	17.0	9.0	9.5	12.1
Surface water regulations	3.4	6.0	3.4	9.0	13.4	7.0
Fast-track NYS label registrations	12.5	12.9	6.0	10.9	0.4	8.5
Updates on WPS	1.0	9.7	2.1	2.3	2.8	3.6
<i>(write-in)</i> : Pollinator protection	0.0	0.0	0.0	0.0	6.7	1.3
<i>(write-in)</i> : Spanish labels	0.0	0.5	0.0	0.0	0.0	0.1
Peach Direct (fruit-attacking) Insect Pests	1	2	3	4	5	Average
Brown marmorated & other stink bugs	23.7	13.0	13.7	12.8	25.9	17.8
Plum curculio	21.2	17.7	24.5	12.4	16.3	18.4
Oriental fruit moth	22.3	15.6	16.7	17.4	20.1	18.4
Spotted wing Drosophila	12.5	15.6	21.6	14.3	13.7	15.6
Tarnished plant bug (2015: Plant bugs)	10.9	22.1	6.9	20.5	13.1	14.7
Obliquebanded leafroller	8.1	12.6	15.7	15.9	2.9	11.0
Western flower thrips	1.4	3.5	1.0	6.6	1.9	2.9
<i>(write-in)</i> : Japanese beetle	0.0	0.0	0.0	0.0	6.1	1.2
Peach Indirect Arthropod Pests	1	2	3	4	5	Average
Peachtree borers	24.2	10.4	20.0	11.6	31.1	19.5
Japanese beetle	25.6	19.4	24.4	21.3	20.1	22.2
Green peach aphid	16.5	23.4	5.6	15.5	13.6	14.9
Mites	11.2	9.0	16.7	16.4	12.5	13.2
Scales	11.6	20.4	12.2	10.6	17.4	14.5
American plum borer	10.9	17.4	21.1	24.6	5.3	15.9
Peach Diseases	1	2	3	4	5	Average
Brown rot	30.0	11.4	28.8	11.6	32.7	22.9
Bacterial spot	16.4	16.4	22.5	15.9	25.1	19.3
Peach leaf curl	14.3	16.8	12.5	10.3	11.2	13.0
Powdery mildew	12.3	17.3	15.0	8.2	4.8	11.5
X-disease	3.4	2.7	1.3	15.9	10.8	6.8
Perennial canker	9.6	5.0	8.8	12.9	8.8	9.0
Peach scab	3.1	12.3	6.3	4.7	3.6	6.0
<i>continued</i>						<i>continued</i>

Peach Diseases	1	2	3	4	5	Average
Phytophthora rots	3.8	8.6	2.5	10.3	3.2	5.7
Plum pox	7.2	9.5	2.5	9.9	1.6	6.1
<i>(write-in):</i> Winter kill	0.3	0.0	0.0	0.0	0.0	0.1
<i>(write-in):</i> Rusty spot	0.7	0.0	0.0	0.0	0.0	0.1
Cherry Arthropod Pests	1	2	3	4	5	Average
Spotted wing Drosophila	20.9	15.4	15.7	14.8	19.3	17.2
Plum curculio	22.1	14.6	21.3	8.6	16.0	16.5
Cherry fruit flies	17.1	12.1	9.0	11.7	15.1	13.0
Japanese beetle	15.0	12.1	22.5	14.8	12.3	15.3
Peachtree borers	4.7	20.6	4.5	11.7	6.6	9.6
Brown marmorated stink bug	10.6	10.5	4.5	14.8	8.5	9.8
Aphids	5.3	5.3	7.9	9.9	9.9	7.6
American plum borer	1.9	4.5	14.6	11.1	4.2	7.3
Scales	2.5	4.9	0.0	2.5	8.0	3.6
Cherry Diseases/Disorders	1	2	3	4	5	Average
Brown rot	28.8	10.2	26.7	12.0	31.5	21.8
Bacterial canker	19.7	14.1	17.8	12.6	24.7	17.8
Fruit cracking	19.4	12.5	16.7	14.9	21.0	16.9
Leaf spot	9.7	11.3	2.2	15.4	4.9	8.7
Powdery mildew	7.2	9.8	13.3	5.7	1.9	7.6
Black knot	4.4	13.7	15.6	8.6	3.7	9.2
X-disease	1.6	5.9	0.0	10.3	5.6	4.7
Phytophthora	4.1	10.9	0.0	9.1	1.9	5.2
Viruses	5.3	11.7	7.8	11.4	4.9	8.2