

Fruit IPM Stakeholder Research Priorities for New York State

Based on input from grower stakeholders, Cornell Cooperative Extension Educators and Cornell University Faculty. Edited April 2012 by the Fruit IPM Working Group.

Tree Fruit	Rank
Evaluation of sprayers, drift, canopy management and coverage issues.	1
Brown marmorated stink bug biology & management	2
Fungicide & bactericide resistance management	3
Fire blight management	4
Development and testing of alternative materials and non-pesticide options for pest and crop management	5
Apple scab management in wet years	6
Insecticide & miticide resistance management and monitoring	7
Replacements for organophosphates, carbamates, pyrethroids	8
Obliquebanded leafroller biology and management	9
Internal lepidoptera biology and management	10
Flyspeck & sooty blotch and summer fruit rot biology and management on apples	11
Postharvest decay and mycotoxin management	12
Development of web-based decision support systems	13
Develop Integrated Production Management - IFP	14
Interaction between herbicides (especially glyphosate) and plant health	15
Dogwood borer biology and management	16
Woolly apple aphid biology and management	17
X-disease and Tomato ringspot virus (ToRSV) biology and management on stone fruits	18
Pheromone mating disruption effectiveness	19
Weed biology and management in orchards	20
Bacterial canker biology and management on stone fruits	21
Apple scab ascospore maturity	22
Fire blight management of shoot blight phase	23
Integrated management of phytophagous mites & conservation of predatory mites	24
Tarnished plant bug biology and management	25
Groundwater-risky products: replacement or other options	26
Abandoned orchards as reservoirs for pests	27
Integrated management of phytophagous mites	28
Stink bug biology and management	29
Organic production methods	30
Plant bug & mullein bug biology and management	31
Fabraea leaf spot biology and management on pear	32
Pesticide phytotoxicity on stone fruit	33

Grape	Rank
Grape berry moth biology and management alternatives	1
Invasive species biology, management and impact on IPM	2
Development and testing of alternative materials and non-pesticide options, including resistant varieties	3
Evaluation of sprayers, canopy management and fruit coverage issues	4
Sour rot & bitter rot complexes, biology and management	5
Powdery mildew biology and management	6
Fungicide resistance management	7
Downy mildew biology and management	8
Botrytis bunch rot biology and management	9
Low-input or organic methods	10
Integration of biological & chemical controls	11
Optimization of spray inputs for disease management	12
Environmentally sound and economically feasible controls that will improve or maintain quality	13
Row-middle weed management (cover crops)	14
European red mite biology and management	15
Economic injury in relation to wine/juice quality	16
Asian lady beetle wine taint prevention	17
Phomopsis biology and management	18
Environmentally sound and economically feasible weed management	19
Insecticide resistance management	20
Black rot biology and management	21
Crown gall biology and management	22
Asian lady beetle biology and management	23
Strategies for use of sulfur and copper	24
Under-row weed management to preserve suckers	25
Vertebrate management: deer, turkeys, birds	26
Biology & management of viral diseases (e.g. grape leaf roll and tomato ring spot)	27

Berry Crops	Rank
Spotted wing drosophila biology and management in berry crops	1
Tarnished plant bug biology and management on strawberries and brambles	2
Sap beetle biology and management in strawberry and brambles	3
IPM in high tunnels	4
Weed management in all berries	5
Bird management	6
Anthracnose biology and management on strawberry	7
Cranberry fruit worm and cherry fruit worm biology and management on blueberry	8
Viruses in blueberries	9
Mummy berry biology and management on blueberry	10
Cane blight in red raspberries	11
Strawberry: herbicides, decline, and soil health	12
Development and testing of alternative materials and non-pesticide options	13
Root weevil and scarab beetle biology and management in strawberry	14
Economic thresholds for leaf spot, leaf scorch & powdery mildew on strawberry	15
Replant problems on strawberry and raspberry	16
Slug management in strawberries	17
Japanese beetle biology and management	18
Organic production methods	19
Cyclament mite in strawberry	20
Two-spotted spider mites in strawberry & raspberry	21
Black root rot on strawberry	22
Winter injury management on raspberry, blackberry and blueberry	23
Plastic mulch disposal issues	24
Biodegradable mulches during establishment	25
Phomopsis biology and management on blueberry	26
Crown borer biology and management in brambles	27
Raspberry cane borer biology and management	28
Imported currant worm biology and management on Ribes	29
Currant aphid management on Ribes	30