



## 2006 Fruit IPM Stakeholder Research Priorities for New York State

Based on grower stakeholder input. Compiled by Juliet Carroll and Greg English-Loeb, Fruit IPM Working Group, with support from Cornell Cooperative Extension Educators and Faculty.

<b>Tree Fruit</b>	<b>Rank (31 to 1)</b>
Fungicide resistance management and monitoring for apple scab and powdery mildew	25.67
Weed biology and management in orchards	21.17
Postharvest decay and mycotoxin management	20.58
Evaluation of sprayers, drift, canopy management and coverage issues.	19.58
Fire blight management using blossom blight models	19.17
Internal lepidoptera biology and management	17.75
Bacterial canker biology and management on stone fruits	16.92
Flyspeck & sooty blotch biology and management	16.42
Insecticide resistance management and monitoring for insects	15.92
Obliquebanded leafroller biology and management	15.83
Develop Integrated Production Management - IFP	15.17
Apple scab management in wet years	15.17
Apple scab ascospore maturity	15.17
Fire blight management of shoot blight phase	15.08
IPM cost reduction	14.50
Effect of pesticides on predatory mite conservation	14.42
Interaction between herbicide phytotoxicity, winter injury & other factors contributing to decline in high density apple plantings	14.17
Replacements for organophosphates, carbamates, pyrethroids	13.83
Tarnished plant bug biology and management	13.58
Dogwood borer biology and management	12.83
Groundwater-risky products: replacement or other options	12.08
Development and testing of alternative materials and non-pesticide options for pest and crop management	12.00
Woolly apple aphid biology and management	9.25
Southwest injury on stone fruits	8.67
Abandoned orchards as reservoirs for pests	8.33
Integrated management of phytophagous mites	7.17
Stink bug biology and management	7.00
Organic production methods	6.58
Plant bug & mullein bug biology and management	6.50
Fabraea leaf spot biology and management on pear	6.17
X-disease biology and management	5.67
Pesticide phytotoxicity on stone fruit	3.17
Compatibility chart for new materials	3.17
Pheromone mating disruption effectiveness	3.08

<b>Grape</b>	<b>Rank (28 to 1)</b>
Powdery mildew biology and management	17.29
Fungicide resistance management	14.56

Downy mildew biology and management	13.31
Botrytis bunch rot biology and management	12.60
Phomopsis biology and management	11.00
Organic and/or low-input methods	9.96
Grape berry moth biology and management alternatives	9.79
Integration of biological & chemical controls	9.52
IPM strategies to help prevent outbreaks of a single pest or disease	9.23
Integrated disease management	9.19
Development and testing of alternative materials and non-pesticide options	8.75
Environmentally sound and economically feasible weed management	8.71
Insecticide resistance management	8.60
Grape cane borer biology and management	8.38
Black rot biology and management	8.13
Crown gall biology and management	7.92
Optimization of spray inputs for disease management	7.85
Environmentally sound and economically feasible controls that will improve or maintain quality	7.60
Row-middle weed management (cover crops)	7.23
Asian lady beetle biology and management	6.83
European red mite biology and management	6.81
Strategies for use of sulfur and copper	6.65
Under-row weed management to preserve suckers	6.44
Vertebrate management: deer, turkeys, birds	6.15
Economic injury in relation to wine/juice quality	6.06
Evaluation of sprayers, canopy management and fruit coverage issues	5.15
Viral diseases and management	4.40
Asian lady beetle wine taint prevention	3.94

<b>Berry</b>	<b>Rank (24 to 1)</b>
Weed management in all berries	23.73
Bird management	18.73
Strawberry: herbicides, decline, and soil health	16.73
Winter injury management on blackberry and blueberry	15.82
Tarnished plant bug biology and management on strawberries and brambles	15.55
Development and testing of alternative materials and non-pesticide options for pest management	15.09
Anthraxnose biology and management on strawberry	15.00
Mummy berry biology and management on blueberry	14.36
Cranberry fruit worm and cherry fruit worm biology and management on blueberry	12.45
Replant problems on strawberry and raspberry	12.36
Slug management in strawberries	12.18
Plastic mulch disposal issues	11.91
Sap beetle biology and management in strawberry and brambles	11.82
Japanese beetle biology and management	11.09
Biodegradable mulches during establishment	11.00
Phomopsis biology and management on blueberry	9.91
Organic production methods	9.55
Black vine weevil and scarab beetle biology and management in strawberry	9.36
Weeds as alternate hosts for nematodes	8.64
Two-spotted spider mites in strawberry & raspberry	8.00

Crown borer biology and management in brambles	6.55
Raspberry cane borer biology and management	5.91
Imported currant worm biology and management on Ribes	5.09
Currant aphid management on Ribes	5.00
Black root rot on strawberry	2.91
Economic thresholds for leaf spot, leaf scorch & powdery mildew on strawberry	2.91
Cane blight in red raspberries	2.82