

## Northeastern IPM Center - 2014 Spotted Wing Drosophila Working Group Priorities

Priorities with the higher "Rating" have a higher priority ranking. Ratings range from 0 to 100, with 100 being highest priority. Priorities were rated during the SWD IPM Working Group meeting on September 16, 2014.

### Working Group Ratings

		2014
Rank	SWD Research Priorities	Rating
1	Behavioral control (repellants, attract & kill, mass trapping, push/pull, trap crops)	90.04
2	Economic Analysis	90.00
3	Know what to do - recommendations for next season	87.78
4	Cultural control	86.96
5	Biological control	83.87
6	Optimize use of insecticides (# applications, etc.)	82.74
7	Optimizing sampling and management practices	81.74
8	Early detection monitoring tools	81.43
9	Insecticide application technology	79.55
10	Overwintering biology	79.09
11	Organic research - materials	77.00
12	Life cycle research and DD to better time control management	76.95
13	Feeding stimulants - synergists - adjuvants	76.70
14	Exclusion for small growers	76.63
15	Developmental models - predictions, validation	76.27
16	Dispersal and migration / population genetics	76.05
17	Insecticide residue degradation and modeling (weathering properties, rainfastness)	76.04
18	Insecticide resistance management	74.96
19	New chemicals	74.78
20	Identification of host-plant volatiles	74.78
21	Life cycle and ecology	74.62
22	Spray materials - season long - ovicide materials	74.00
23	Landscape ecology - better understanding	73.30
24	Post-harvest management - packing houses	72.50
25	Collaborations with researchers from other countries	72.04
26	Full insecticide screening	70.86

27	Sanitation	68.35
28	Early season hosts and refugia	67.29
29	Mechanisms for post harvest treatment, ie, defect sorting etc.	66.91
30	Treatment thresholds	66.00
31	Variety preferences	64.87
32	Resistant varieties	63.74
33	SWD genetic control	63.48
34	Symbionts associated with SWD (fungi, bacteria, spirochetes, etc.)	61.33
35	Curative control - systemic insecticides - kill maggot	60.95
36	Role of ground cover management	58.96
37	Host resistance mechanisms	57.19
38	Identify characteristics of firm fruit for SWD oviposition and of fruit after oviposition/time when fruit softens	52.24
39	Damage to different crops (other than berries)	49.59
40	Mechanical control in greenhouses	46.86

		2014
Rank	SWD Extension Priorities	Rating
1	Continue working group, networking	93.77
2	Bring educational resources together for grower use	87.87
3	Develop recommendations for 2013 as part of an IPM program	87.32
4	Education on monitoring, fields/berries, SWD identification	86.82
5	Grower Education about spray technology	85.00
6	Info on sprayer technology	83.05
7	Preparation for next year	82.21
8	Pruning as a Management Tool	79.38
9	Grower awareness of problem and post harvest treatment	76.50
10	Establish a clearing house for information - international; distill in user friendly form for SWD IPM	74.74
11	Attention to Crop Load	74.00
12	Allow for unique properties of each insecticide in recommendations and management programs	72.71
13	Grower education of full impact of problem and research efforts	72.36
14	IPM for invasive species, as well as detection	69.73
15	Overhead chemigation information	65.71
16	Distinguish between large and small acreage grower needs	65.38
17	Train consultants	64.14
18	Call for summit: ext, research, govt, regulatory, policy, APHIS (national statement), industry (grower, chem)	59.05

19	Look at international education efforts	58.14
20	Training on invasive species	55.00
21	Education of master gardeners	48.55

		2014
Rank	SWD Regulatory Priorities	Rating
1	New chemicals	90.61
2	National sec 18 system and 2ee, expand 'me too'	83.75
3	As short as feasible PHI across crops	82.61
4	OMRI clearance of materials	82.27
5	Est. a working group - industry, growers, extension, for economic impact	71.19
6	Est. MRL's for export markets	67.23
7	Pesticide container size in small amounts	66.95
8	Labels for chemigation	59.41

		2014
Rank	SWD Education Priorities	Rating
1	Educating policy makers/legislators/regulators on invasives/impacts	88.33
2	Involvement of the chemical industry in WG	85.83
3	Info. for growers to respond to public on SWD or media [US Highbush council]	85.81
4	Media kit [use BMSB as example]	85.41
5	Company education on labeling and crop uses	71.71
6	Engaging/joining IPM voice	69.80
7	Consumer education	64.76