

Analytic Hierarchy Process
Prioritized Pest List
For FY 2009

Overview The Analytic Hierarchy Process (AHP) Prioritized Pest List for 2009 is a ranked list of 108 pests that are expected to cause damage to agricultural and/or natural resources if introduced into the United States. The prioritized pest list includes arthropods, pathogens, weeds, mollusks, and nematodes. We obtained pests from various sources (see tab *Pest Sources for AHP PPL*).

Subject matter experts in biology, economics, and agricultural quarantine inspection evaluated each pest against a weighted set of criteria. We grouped the criteria into the following categories: *entry potential*, *establishment potential*, *potential for post-establishment proliferation and spread*, *economic impact*, and *non-economic impact*. By combining the extent to which a pest fulfilled the set of criteria (determined by subject matter experts) with the criteria weights (determined by the National CAPS Committee), each pest received a score. The result is the prioritized pest list shown on tab *AHP PPL_Prioritized*.

New for 2009 A new set of guidelines for pest listing was applied to the 2009 AHP Prioritized Pest List:

Pests cannot be established in the conterminous United States (even if the distribution is limited)

Pests cannot be considered non-reportable by PPQ

Still in effect: Program pests with funding for national survey are not included in the AHP Prioritized Pest List

We made the following changes to the 2009 AHP Prioritized Pest List:

By applying the above guidelines, we removed 47 pests from the list

We added 13 new pests (shown in bold text on tab *Pest Sources for AHP PPL*)

2009 AHP Core Team: *Dan Fieselmann, Lisa Jackson, Andrea Lemay, John Rogers, Kim Schwartzburg*

Contributors

Subject Matter *Economics: Lynn Garrett, Alison Neeley, David Schimmelpfennig, Barry Goodwin, and Osei-Agyeman Yeboah;*

Experts: *Agricultural Quarantine Inspection: Paul Larkins; Biology: Tara Holtz, Nic Liquido, John Rogers, Roger Magarey, Andrea Lemay, Bob Schall, Larry Fowler, Jim Smith, David Robinson, Mark Hitchcox*

For Additional Information Please visit the pest prioritization website (<http://ceris.purdue.edu/caps/pestprioritization/Index.htm>) or contact Kim Schwartzburg (Kimberly.A.Schwartzburg@aphis.usda.gov; 919-855-7577).

AHP Prioritized Pest List for FY09 - Prioritized

Rank	Scientific Name	Common Name	Almonds (<i>Prunus dulcis</i>)	Apples (<i>Malus</i> spp.)	Asparagus (<i>Asparagus</i> spp.)	Barley (<i>Hordeum</i> spp.)	Beans (<i>Phaseolus</i> spp.)	Broccoli (<i>Brassica oleracea</i>)	Cantaloupes (<i>Cucumis</i> spp.)	Carrots (<i>Daucus carota</i>)	Celery (<i>Apium graveolens</i>)	Citrus (<i>Citrus</i> spp.)	Corn (<i>Zea</i> spp.)	Cotton (<i>Gossypium</i> spp.)	Cucumbers (<i>Cucumis</i> spp.)	Grapes (<i>Vitis</i> spp.)	Lettuce (<i>Lactuca</i> spp.)	Oats (<i>Avena</i> spp.)	Onions (<i>Allium</i> spp.)	Peaches (<i>Prunus persica</i>)	Peanuts (<i>Arachis</i> spp.)	Pears (<i>Pyrus</i> spp.)	Potatoes (<i>Solanum</i> spp.)	Rice (<i>Oryza</i> spp.)	Sorghum (<i>Sorghum</i> spp.)	Soybeans (<i>Glycine</i> spp.)	Strawberries (<i>Fragaria</i> spp.)	Sunflower (<i>Helianthus</i> spp.)	Tomatoes (<i>Lycopersicon</i> spp.)	Wheat (<i>Triticum</i> spp.)	Pine (<i>Pinus</i> spp.)	Other Softwood Trees*	Soft Hardwood Trees*	Hardwood Trees*	Pest Commodity Total				
1	<i>Helicoverpa armigera</i>	Old World bollworm	■	▲	▲	■	■	■	■	▲	▲	▲	■	■	■	■	■	▲	▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	27		
2	<i>Planococcus minor</i>	Passionvine mealybug		■			■	■	■	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	21	
3	<i>Nysius huttoni</i>	New Zealand wheat bug			■			▲										■																			8		
4	<i>Dendrolimus superans</i>	Siberian silk moth																															▲	▲			2		
5	<i>Ceroplastes destructor</i>	Soft wax scale	■								▲												■														■	6	
6	<i>Spodoptera litura</i>	Cotton cutworm	▲	■			▲	▲	■	■	■	▲	▲	■	▲	■	■		▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	■							28		
7	<i>Ralstonia solanacearum</i> race 3 biovar 2	Bacterial wilt					■							■							■		▲							▲							5		
8	<i>Achatina fulica</i>	Giant African snail	■				■	▲	■			■	■	■	■	■	■				▲		■	■	■	■	■	■	■								21		
9	<i>Unaspis yanonensis</i>	Arrowhead scale									▲																											1	
10	<i>Eudocima fullonia</i>	Fruit piercing moth	■					■				■	■	■							■	■	■														12		
11	<i>Mycosphaerella gibsonii</i>	Needle blight of pine																																▲			1		
12	<i>Adoxophyes orana</i>	Summer fruit tortrix moth	▲								■	■	■	■	■	■	■				▲	■	■	■	■	■	■	■	■								12		
13	<i>Ceroplastes japonicus</i>	Japanese wax scale	■								▲										▲		■														■	6	
14	<i>Oxycarenus hyalinipennis</i>	Cotton seed bug										■	■	■	■						▲		■														6		
15	<i>Agrilus biguttatus</i>	Oak splendor beetle																																			■	2	
16	<i>Platypus quercivorus</i>	Oak ambrosia beetle																																			■	2	
17	<i>Meloidogyne fallax</i>	False Columbia root-knot nematode		■		■			▲			■										■		▲			■											9	
18	<i>Meloidogyne artiellia</i>	British root-knot nematode				■	■	■		▲		■								■																		7	
19	<i>Ditylenchus angustus</i>	Rice stem nematode																						▲														1	
20	<i>Heterodera latipons</i>	Mediterranean cereal cyst nematode				■			■																													5	
21	<i>Cronartium flaccidum</i>	Scots pine blister rust																																▲				1	
22	<i>Phytophthora quercina</i>	Oak decline																																				1	
23	<i>Lymantria mathura</i>	Pink gypsy moth	■																				■															6	
24	<i>Cochlicella</i> spp.	Exotic species			■				■																													6	
25	<i>Monacha</i> spp. (<i>M. cantiana</i> , <i>M. syriaca</i>)																																					0	
26	<i>Onopordum acaulon</i>	Horse thistle																																				0	
27	<i>Tomicus destruens</i>	Pine shoot beetle																																	▲			1	
28	<i>Thaumatotibia leucotreta</i>	False codling moth					■				▲	▲	▲	■							▲			■		▲												10	
29	<i>Dendrolimus pini</i>	Pine-tree lappet																																	▲	■		2	
30	<i>Chilo suppressalis</i>	Asiatic rice borer										▲												▲	▲													3	
31	<i>Leucoptera malifoliella</i>	Pear leaf blister moth	■																			■	■														■	5	
32	<i>Monochamus sutor</i>	Small white-marmorated longhorned beetle																																				3	
33	<i>Candidatus Phytoplasma australiense</i>	Phytoplasma yellows					■		■					■	▲													▲										8	
34	<i>Heterodera cajani</i>	Pigeonpea cyst nematode					▲																															1	
35	<i>Ophiostoma longicollum</i>																																					1	
36	<i>Monochamus saltuarius</i>	Japanese pine sawyer																																		▲	▲		2
37	<i>Spodoptera littoralis</i>	Egyptian cottonworm	■	■			▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲		▲		▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	28	
38	<i>Xanthomonas oryzae</i>	Bacterial leaf streak, bacterial blight																																				1	
39	<i>Archips xylosteanus</i>	Variegated golden tortrix	■								■												■	■	■													8	
40	<i>Heterodera sacchari</i>	Sugar cane cyst nematode																							▲													1	
41	<i>Cernuella</i> spp.	Exotic species				■	■																															9	
42	<i>Meloidogyne paranaensis</i>	Parana coffee root-knot nematode																																				2	
43	<i>Harpophora maydis</i>	Late wilt of corn											▲																									1	
44	<i>Meloidogyne mignanica</i>	Citrus root-knot nematode										▲																										1	
45	<i>Meloidogyne fujianensis</i>	Asian citrus root-knot nematode										▲																										1	
46	<i>Phytophthora alni</i>	Alder root rot																																		▲		1	
47	<i>Meloidogyne indica</i>	Citrus root-knot nematode										■																										1	
48	<i>Meloidogyne citri</i>	Asian citrus root-knot nematode										■																										3	
49	<i>Meloidogyne donghaiensis</i>	Donghai root-knot nematode										▲																										1	
50	<i>Meloidogyne jianyangensis</i>	Citrus root-knot nematode										■																										1	

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51	<i>Meloidogyne kongi</i>	Citrus root-knot nematode										▲																										1		
52	<i>Protospulvinaria longivalvata</i>											■																											2	
53	<i>Dendroctonus micans</i>	Great spruce bark beetle																																	■	▲			2	
54	<i>Pulvinaria polygonata</i>	Cottony citrus scale										■																											1	
55	Torradovirus	ToTV, ToANV, ToMarV																																					1	
56	<i>Ostrinia furnacalis</i>	Asian corn borer					■						▲	■										■		■													6	
57	<i>Scolytus intricatus</i>	European oak bark beetle																																			■	▲	2	
58	<i>Hyllobius abietis</i>	Large pine weevil																																	▲	▲			3	
59	<i>Tropilaelaps clareae</i>	Bee mite																																					0	
60	<i>Rathayibacter toxicus</i>	Annual ryegrass toxicity																																					0	
61	<i>Pomacea</i> spp.	Exotic apple snails																							▲														1	
62	<i>Monoctonus alternatus</i>	Japanese pine sawyer beetle		■																																			4	
63	<i>Cecidophyopsis ribis</i>	Black currant gall mite																																					0	
64	<i>Crocidolomia binotalis</i>	Cabbage cluster caterpillar						■																															1	
65	<i>Chilecomadia valdiviana</i>	Carpenter worm		■																																			4	
66	<i>Autographa gamma</i>	Silver Y moth		■										▲	▲	■	▲	▲	■	■																			21	
67	<i>Phellinus noxius</i>	Brown root rot										■																											9	
68	<i>Stenchaetothrips bififormis</i>	Rice thrips											■																										2	
69	<i>Planococcus lilacinus</i>	Coffee mealybug										■	▲																										7	
70	<i>Rhabdoscelus obscurus</i>	Sugar cane weevil											■																										2	
71	<i>Eutetranychus orientalis</i>	Citrus brown mite	■	■			■	■				▲	▲	■	■																								19	
72	<i>Synanthedon myopaeiformis</i>	Red-belted clearwing		■																																			4	
73	<i>Hygromia cinctella</i>	Girdled snail						■																															1	
74	<i>Chlorophorus strobilicicola</i>	Pine cone cerambycid																																					1	
75	<i>Elsinoe batatas</i>	Stem and leaf scab																																					0	
76	<i>Gymnocoronis spilanthoides</i>	Senegal tea plant																																					1	
77	<i>Aleurocanthus spiniferus</i>	Orange spiny whitefly												▲																									6	
78	<i>Phoma tracheiphila</i>	Mal secco											▲																										1	
79	<i>Pericyma cruegeri</i>	Poinciana looper																																					1	
80	<i>Ageratina riparia</i>	Mistflower																																					0	
81	<i>Actinoscirpus grossus</i>	Giant bulrush																																					1	
82	<i>Rhynchophorus palmarum</i>	Palm Weevil											■																										2	
83	<i>Arion vulgaris (Arion lusitanicus)</i>	Spanish slug						■	▲	■	■																													10
84	<i>Copitarsia</i> spp.	Copitarsia moths		■	■			■	■																															14
85	<i>Metamasius</i> spp.	Exotic metamasius weevils											■																										2	
86	<i>Philephedra broadwayi</i>																																						0	
87	<i>Coconut cadang-cadang viroid</i>	CCCVd																																					0	
88	<i>Acroceras zizanioides</i>	Oat grass																																					5	
89	<i>Rubus alceifolius</i>	Giant bramble																																					4	
90	<i>Toxoptera odinae</i>	Mango aphid																																					0	
91	<i>Peronosclerospora maydis</i>	Downy mildew of corn												▲																								2		
92	<i>Peronosclerospora philippinensis</i>	Philippine downy mildew																																					3	
93	<i>Cataenococcus hispidus</i>	Cocoa mealybug												▲																									3	
94	<i>Pinus roxburghii</i>	Chir pine																																					2	
95	<i>Heterodera ciceri</i>	Chickpea cyst nematode						■																															2	
96	<i>Darna pallivitta</i>	Nettle caterpillar												■																									1	
97	<i>Heteronychus arator</i>	Black maize beetle						■	■	■			▲																										12	
98	<i>Lobesia botrana</i>	European grape vine moth																																					7	
99	<i>Colocasia bobone disease virus</i>	CBDV						■																															0	
100	<i>Juncus prismatocarpus</i>	Jointed rush																																					0	

AHP Prioritized Pest List for FY09 - Prioritized

Rank	Scientific Name	Common Name	Almonds (Prunus dulcis)	Apples (Malus spp.)	Asparagus (Asparagus spp.)	Barley (Hordeum spp.)	Beans (Phaseolus spp.)	Broccoli (Brassica oleracea)	Cantaloupes (Cucumis spp.)	Carrots (Daucus carota)	Celery (Apium graveolens)	Citrus (Citrus spp.)	Corn (Zea spp.)	Cotton (Gossypium spp.)	Cucumbers (Cucumis spp.)	Grapes (Vitis spp.)	Lettuce (Lactuca spp.)	Oats (Avena spp.)	Onions (Allium spp.)	Peaches (Prunus persica)	Peanuts (Arachis spp.)	Pears (Pyrus spp.)	Potatoes (Solanum spp.)	Rice (Oryza spp.)	Sorghum (Sorghum spp.)	Soybeans (Glycine spp.)	Strawberries (Fragaria spp.)	Sunflower (Helianthus spp.)	Tomatoes (Lycopersicon spp.)	Wheat (Triticum spp.)	Pine (Pinus spp.)	Other Softwood Trees*	Soft Hardwood Trees*	Hardwood Trees*	Pest Commodity Total		
101	<i>Cydia funebrana</i>	Plum fruit moth	■	■																▲	■													■	■	6	
102	<i>Sclerophthora rayssiae</i> var. <i>zeae</i>	Brown stripe downy mildew										▲												▲													2
103	<i>Withania somnifera</i>	Ashwagandha									■																										1
104	<i>Synchytrium endobioticum</i>	Potato wart																					▲					■									2
105	<i>Meloidogyne mali</i>	Apple root-knot nematode		■												■																			■	4	
106	Taro bacilliform virus	TaBV																																		0	
107	<i>Meloidogyne coffeicola</i>	Coffee root-knot nematode																																		0	
108	<i>Bursaphelenchus cocophilus</i>	Red ring nematode																																■		1	
Total Pests Per Commodity:			2	19	5	8	18	13	9	11	7	29	23	12	9	18	11	6	7	14	10	19	22	14	14	10	13	11	15	11	19	20	40	41			

Legend:
▲ = Primary host
■ = Other host

***Key to Forest Product Categories:**

Other Softwood Trees (Genera: *Abies*, *Casuarina*, *Chamaecyparis*, *Cupressus*, *Juniperus*, *Larix*, *Picea*, *Pseudotsuga*, *Sequoia*, *Taxus*, *Thuja*, *Torreya*, *Tsuga*)

Soft Hardwood Trees (Genera: *Acacia*, *Aesculus*, *Albizia*, *Alnus*, *Castanea*, *Catalpa*, *Celtis*, *Elaeagnus*, *Fraxinus*, *Gordonia*, *Liquidambar*, *Liriodendron*, *Magnolia*, *Melaleuca*, *Persea*, *Platanus*, *Populus*, *Sabal*, *Salix*, *Sassafras*, *Tamarix*, *Tilia*, *Ulmus*)

Hardwood Trees (Genera: *Acer*, *Ailanthus*, *Arbutus*, *Betula*, *Bumelia*, *Carpinus*, *Carya*, *Castanopsis*, *Cornus*, *Crataegus*, *Diospyros*, *Eucalyptus*, *Fagus*, *Ilex*, *Juglans*, *Lithocarpus*, *Malus*, *Melia*, *Morus*, *Ostrya*, *Prosopis*, *Prunus*, *Quercus*, *Robinia*, *Sapium*, *Sorbus*, *Umbellularia*, *Vaccinium*)

Commodities in Decreasing Order of Value:**

Corn (*Zea* spp.), Soybeans (*Glycine* spp.), Wheat (*Triticum* spp.), Cotton (*Gossypium* spp.), Tomatoes (*Lycopersicon* spp.), Grapes (*Vitis* spp.), Potatoes (*Solanum* spp.), Apples (*Malus* spp.), Citrus (*Citrus* spp.), Peanuts (*Arachis* spp.), Lettuce (*Lactuca* spp.), Rice (*Oryza* spp.), Sorghum (*Sorghum* spp.), Barley (*Hordeum* spp.), Strawberries (*Fragaria* spp.), Almonds (*Prunus dulcis*), Onions (*Allium* spp.), Peaches (*Prunus persica*), Carrots (*Daucus carota*), Cucumbers (*Cucumis* spp.), Beans (*Phaseolus* spp.), Sunflower (*Helianthus* spp.), Pears (*Pyrus* spp.), Celery (*Apium graveolens*), Broccoli (*Brassica oleracea*), Cantaloups (*Cucumis* spp.), Oats (*Avena* spp.), Asparagus (*Asparagus* spp.).

Not included in the ranking by value: Pine (*Pinus* spp.), Other Softwood trees*, Soft Hardwood trees*, Hardwood Trees*.

** NASS. 2007. Agricultural Prices 2006 Summary. Agricultural Statistics Board, National Agricultural Statistics Service, United States Department of Agriculture.

AHP Prioritized Pest List for FY09 - Alphabetized

Rank	Scientific Name	Common Name	Almonds (<i>Prunus dulcis</i>)	Apples (<i>Malus</i> spp.)	Asparagus (<i>Asparagus</i> spp.)	Barley (<i>Hordeum</i> spp.)	Beans (<i>Phaseolus</i> spp.)	Broccoli (<i>Brassica oleracea</i>)	Cantaloupes (<i>Cucumis</i> spp.)	Carrots (<i>Daucus carota</i>)	Celery (<i>Apium graveolens</i>)	Citrus (<i>Citrus</i> spp.)	Corn (<i>Zea</i> spp.)	Cotton (<i>Gossypium</i> spp.)	Cucumbers (<i>Cucumis</i> spp.)	Grapes (<i>Vitis</i> spp.)	Lettuce (<i>Lactuca</i> spp.)	Oats (<i>Avena</i> spp.)	Onions (<i>Allium</i> spp.)	Peaches (<i>Prunus persica</i>)	Peanuts (<i>Arachis</i> spp.)	Pears (<i>Pyrus</i> spp.)	Potatoes (<i>Solanum</i> spp.)	Rice (<i>Oryza</i> spp.)	Sorghum (<i>Sorghum</i> spp.)	Soybeans (<i>Glycine</i> spp.)	Strawberries (<i>Fragaria</i> spp.)	Sunflower (<i>Helianthus</i> spp.)	Tomatoes (<i>Lycopersicon</i> spp.)	Wheat (<i>Triticum</i> spp.)	Pine (<i>Pinus</i> spp.)	Other Softwood Trees*	Soft Hardwood Trees*	Hardwood Trees*	Pest Commodity Total					
8	<i>Achatina fulica</i>	Giant African snail	■				■	■	▲												▲																21			
88	<i>Acroceras zizanioides</i>	Oat grass																																				5		
81	<i>Actinoscirpus grossus</i>	Giant bulrush																																				1		
12	<i>Adoxophyes orana</i>	Summer fruit tortrix moth		▲																																		12		
80	<i>Ageratina riparia</i>	Mistflower																																				0		
15	<i>Agrilus biguttatus</i>	Oak splendor beetle																																				2		
77	<i>Aleurocanthus spiniferus</i>	Orange spiny whitefly										▲																										6		
39	<i>Archips xylosteanus</i>	Variegated golden tortrix		■																																		8		
83	<i>Arion vulgaris (Arion lusitanicus)</i>	Spanish slug						■	▲																													10		
66	<i>Autographa gamma</i>	Silver Y moth		■				■	■	▲			▲	▲		▲	▲										▲		■	■	▲							21		
108	<i>Bursaphelenchus cocophilus</i>	Red ring nematode																																				1		
33	<i>Candidatus Phytoplasma australiense</i>	Phytoplasma yellows																																				8		
93	<i>Cataenococcus hispidus</i>	Cocoa mealybug										▲																										3		
63	<i>Cecidophyopsis ribis</i>	Black currant gall mite																																				0		
41	<i>Cernuella</i> spp.	Exotic species					■	■																														9		
5	<i>Ceroplastes destructor</i>	Soft wax scale		■								▲																											6	
13	<i>Ceroplastes japonicus</i>	Japanese wax scale		■								▲																											6	
65	<i>Chilecomadia valdiviana</i>	Carpenter worm		■																																			4	
30	<i>Chilo suppressalis</i>	Asiatic rice borer											▲																									3		
74	<i>Chlorophorus strobilicola</i>	Pine cone cerambycid																																					1	
24	<i>Cochlicella</i> spp.	Exotic species					■			■																													6	
87	<i>Coconut cadang-cadang viroid</i>	CCCVd																																					0	
99	<i>Colocasia bobone disease virus</i>	CBDV																																					0	
84	<i>Copitarsia</i> spp.	Copitarsia moths		■	■			■					■			■	■											■	■	■	■									14
64	<i>Crociodolomia binotalis</i>	Cabbage cluster caterpillar						■																															1	
21	<i>Cronartium flaccidum</i>	Scots pine blister rust																																					1	
101	<i>Cydia funebrana</i>	Plum fruit moth		■	■																																		6	
96	<i>Darna pallivitta</i>	Nettle caterpillar										■																											1	
53	<i>Dendroctonus micans</i>	Great spruce bark beetle																																					2	
29	<i>Dendrolimus pini</i>	Pine-tree lappet																																					2	
4	<i>Dendrolimus superans</i>	Siberian silk moth																																					2	
19	<i>Ditylenchus angustus</i>	Rice stem nematode																																					1	
75	<i>Elsinoe batatas</i>	Stem and leaf scab																																					0	
10	<i>Eudocima fullonia</i>	Fruit piercing moth		■																																			12	
71	<i>Eutetranychus orientalis</i>	Citrus brown mite		■	■			■				▲	■	▲	■	■																							19	
76	<i>Gymnocoronis spilanthoides</i>	Senegal tea plant																																					1	
43	<i>Harpophora maydis</i>	Late wilt of corn												▲																									1	
1	<i>Helicoverpa armigera</i>	Old World bollworm		■			▲	▲	■	■		▲	▲	■		■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	27	
34	<i>Heterodera cajani</i>	Pigeonpea cyst nematode						▲																															1	
95	<i>Heterodera ciceri</i>	Chickpea cyst nematode						■																															2	
20	<i>Heterodera latipons</i>	Mediterranean cereal cyst nematode					■																																5	
40	<i>Heterodera sacchari</i>	Sugar cane cyst nematode																																						1
97	<i>Heteronychus arator</i>	Black maize beetle						■	■	■			▲			▲	■								▲		■	■	■	■										12
73	<i>Hygromia cinctella</i>	Girdled snail							■																														1	
58	<i>Hylobius abietis</i>	Large pine weevil																																						3
100	<i>Juncus prismatocarpus</i>	Jointed rush																																					0	
31	<i>Leucoptera malifoliella</i>	Pear leaf blister moth		■																																			5	
98	<i>Lobesia botrana</i>	European grape vine moth						■									▲																						7	
23	<i>Lymantria mathura</i>	Pink gypsy moth		■	■																																			6
18	<i>Meloidogyne artiellia</i>	British root-knot nematode					■	■	■																															7

AHP Prioritized Pest List for FY09 - Alphabetized

Rank	Scientific Name	Common Name	Almonds (<i>Prunus dulcis</i>)	Apples (<i>Malus</i> spp.)	Asparagus (<i>Asparagus</i> spp.)	Barley (<i>Hordeum</i> spp.)	Beans (<i>Phaseolus</i> spp.)	Broccoli (<i>Brassica oleracea</i>)	Cantaloupes (<i>Cucumis</i> spp.)	Carrots (<i>Daucus carota</i>)	Celery (<i>Apium graveolens</i>)	Citrus (<i>Citrus</i> spp.)	Corn (<i>Zea</i> spp.)	Cotton (<i>Gossypium</i> spp.)	Cucumbers (<i>Cucumis</i> spp.)	Grapes (<i>Vitis</i> spp.)	Lettuce (<i>Lactuca</i> spp.)	Oats (<i>Avena</i> spp.)	Onions (<i>Allium</i> spp.)	Peaches (<i>Prunus persica</i>)	Peanuts (<i>Arachis</i> spp.)	Pears (<i>Pyrus</i> spp.)	Potatoes (<i>Solanum</i> spp.)	Rice (<i>Oryza</i> spp.)	Sorghum (<i>Sorghum</i> spp.)	Soybeans (<i>Glycine</i> spp.)	Strawberries (<i>Fragaria</i> spp.)	Sunflower (<i>Helianthus</i> spp.)	Tomatoes (<i>Lycopersicon</i> spp.)	Wheat (<i>Triticum</i> spp.)	Pine (<i>Pinus</i> spp.)	Other Softwood Trees*	Soft Hardwood Trees*	Hardwood Trees*	Pest Commodity Total					
48	<i>Meloidogyne citri</i>	Asian citrus root-knot nematode									■											■															3			
107	<i>Meloidogyne coffeicola</i>	Coffee root-knot nematode																																				0		
49	<i>Meloidogyne donghaiensis</i>	Donghai root-knot nematode										▲																										1		
17	<i>Meloidogyne fallax</i>	False Columbia root-knot nematode		■		■			▲			■					■				■		▲				■		■									9		
45	<i>Meloidogyne fujianensis</i>	Asian citrus root-knot nematode									▲																											1		
47	<i>Meloidogyne indica</i>	Citrus root-knot nematode									■																											1		
50	<i>Meloidogyne jianyangensis</i>	Citrus root-knot nematode									■																											1		
51	<i>Meloidogyne kongi</i>	Citrus root-knot nematode									▲																											1		
105	<i>Meloidogyne mali</i>	Apple root-knot nematode	■													■																				■	■	4		
44	<i>Meloidogyne mingnanica</i>	Citrus root-knot nematode									▲																											1		
42	<i>Meloidogyne paranaensis</i>	Parana coffee root-knot nematode																																		■		2		
85	<i>Metamasius</i> spp.	Exotic metamasius weevils										■														■												2		
25	<i>Monacha</i> spp. (<i>M. cantiana</i> , <i>M. syriaca</i>)																																					0		
62	<i>Monochamus alternatus</i>	Japanese pine sawyer beetle	■																															▲	■	■	■	4		
36	<i>Monochamus saltuarius</i>	Japanese pine sawyer																																▲	▲			2		
32	<i>Monochamus sutor</i>	Small white-marmorated longhorned beetle																																	■	■	■	3		
11	<i>Mycosphaerella gibsonii</i>	Needle blight of pine																																▲				1		
3	<i>Nysius huttoni</i>	New Zealand wheat bug				■		▲									■	■					■				■	■					▲					8		
26	<i>Onopordum acaulon</i>	Horse thistle																																				0		
35	<i>Ophiostoma longicollum</i>																																				■	1		
56	<i>Ostrinia furnacalis</i>	Asian corn borer					■					▲	■										■		■											■		6		
14	<i>Oxycarenus hyalinipennis</i>	Cotton seed bug										■	■			■							■													■	■	6		
79	<i>Pericyma cruegeri</i>	Poinciana looper																																			■	1		
91	<i>Peronosclerospora maydis</i>	Downy mildew of corn										▲														■												2		
92	<i>Peronosclerospora philippinensis</i>	Philippine downy mildew										▲						▲								■												3		
67	<i>Phellinus noxius</i>	Brown root rot									■					■	■					■	■											■	■	■	■	9		
86	<i>Philephedra broadwayi</i>																																					0		
78	<i>Phoma tracheiphila</i>	Mal secco										▲																										1		
46	<i>Phytophthora alni</i>	Alder root rot																																			▲	1		
22	<i>Phytophthora quercina</i>	Oak decline																																			■	1		
94	<i>Pinus roxburghii</i>	Chir pine																																		■	■	2		
69	<i>Planococcus lilacinus</i>	Coffee mealybug									■	▲				■						■	■													■	■	7		
2	<i>Planococcus minor</i>	Passionvine mealybug		■		■	■	■	■	■	■	▲	■	■	■	▲					■	■	▲	■	■	■	■	■	■							■	■	21		
16	<i>Platypus quercivorus</i>	Oak ambrosia beetle																																		■	▲	2		
61	<i>Pomacea</i> spp.	Exotic apple snails																								▲												1		
52	<i>Protospulvinaria longivalvata</i>										■																									■		2		
54	<i>Pulvinaria polygonata</i>	Cottony citrus scale									■																											1		
7	<i>Ralstonia solanacearum</i> race 3 biovar 2	Bacterial wilt					■						■										■	▲										▲				5		
60	<i>Rathayibacter toxicus</i>	Annual ryegrass toxicity																																				0		
70	<i>Rhabdoscelus obscurus</i>	Sugar cane weevil											■																									2		
82	<i>Rhynchophorus palmarum</i>	Palm Weevil									■																										■	■	2	
89	<i>Rubus alceifolius</i>	Giant bramble																																		■	■	■	4	
102	<i>Sclerophthora rayssiae</i> var. <i>zeae</i>	Brown stripe downy mildew										▲															▲											2		
57	<i>Scolytus intricatus</i>	European oak bark beetle																																			■	▲	2	
37	<i>Spodoptera littoralis</i>	Egyptian cottonworm	■	■		▲	▲	■	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	■	■	■	■	▲	28		
6	<i>Spodoptera litura</i>	Cotton cutworm	▲	■		▲	▲	■	■	■	▲	▲	▲	■	▲	■	■	▲	■	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	■	■	■	■	■	■	▲	28	
68	<i>Stenchaetothrips biformis</i>	Rice thrips										■														▲													2	
72	<i>Synanthedon myopaeformis</i>	Red-belted clearwing		■																			■														■	■	4	
104	<i>Synchytrium endobioticum</i>	Potato wart																																				■	■	2
106	<i>Taro bacilliform virus</i>	TaBV																																					0	

AHP Prioritized Pest List for FY09 - Alphabetized

Rank	Scientific Name	Common Name	Almonds (Prunus dulcis)	Apples (Malus spp.)	Asparagus (Asparagus spp.)	Barley (Hordeum spp.)	Beans (Phaseolus spp.)	Broccoli (Brassica oleracea)	Cantaloupes (Cucumis spp.)	Carrots (Daucus carota)	Celery (Apium graveolens)	Citrus (Citrus spp.)	Corn (Zea spp.)	Cotton (Gossypium spp.)	Cucumbers (Cucumis spp.)	Grapes (Vitis spp.)	Lettuce (Lactuca spp.)	Oats (Avena spp.)	Onions (Allium spp.)	Peaches (Prunus persica)	Peanuts (Arachis spp.)	Pears (Pyrus spp.)	Potatoes (Solanum spp.)	Rice (Oryza spp.)	Sorghum (Sorghum spp.)	Soybeans (Glycine spp.)	Strawberries (Fragaria spp.)	Sunflower (Helianthus spp.)	Tomatoes (Lycopersicon spp.)	Wheat (Triticum spp.)	Pine (Pinus spp.)	Other Softwood Trees*	Soft Hardwood Trees*	Hardwood Trees*	Pest Commodity Total		
28	<i>Thaumatotibia leucotreta</i>	False codling moth				■					▲	▲	▲		■					▲			■		▲											10	
27	<i>Tomicus destruens</i>	Pine shoot beetle																													▲					1	
55	<i>Torradovirus</i>	ToTV, ToANV, ToMarV																											▲							1	
90	<i>Toxoptera odinae</i>	Mango aphid																																		0	
59	<i>Tropilaelaps clareae</i>	Bee mite																																		0	
9	<i>Unaspis yanonensis</i>	Arrowhead scale									▲																									1	
103	<i>Withania somnifera</i>	Ashwagandha									■																									1	
38	<i>Xanthomonas oryzae</i>	Bacterial leaf streak, bacterial blight																						▲													1
Total Pests Per Commodity:			2	19	5	8	18	13	9	11	7	29	23	12	9	18	11	6	7	14	10	19	22	14	14	10	13	11	15	11	19	20	40	41			

Legend:
 ▲ = Primary host
 ■ = Other host

***Key to Forest Product Categories:**

Other Softwood Trees (Genera: *Abies, Casuarina, Chamaecyparis, Cupressus, Juniperus, Larix, Picea, Pseudotsuga, Sequoia, Taxus, Thuja, Torreya, Tsuga*)

Soft Hardwood Trees (Genera: *Acacia, Aesculus, Albizia, Alnus, Castanea, Catalpa, Celtis, Elaeagnus, Fraxinus, Gordonia, Liquidambar, Liriodendron, Magnolia, Melaleuca, Persea, Platanus, Populus, Sabal, Salix, Sassafras, Tamarix, Tilia, Ulmus*)

Hardwood Trees (Genera: *Acer, Ailanthus, Arbutus, Betula, Bumelia, Carpinus, Corya, Castanopsis, Cornus, Crataegus, Diospyros, Eucalyptus, Fagus, Ilex, Juglans, Lithocarpus, Malus, Melia, Morus, Ostrya, Prosopis, Prunus, Quercus, Robinia, Sapium, Sorbus, Umbellularia, Vaccinium*)

Commodities in Decreasing Order of Value:**

Corn (*Zea* spp.), Soybeans (*Glycine* spp.), Wheat (*Triticum* spp.), Cotton (*Gossypium* spp.), Tomatoes (*Lycopersicon* spp.), Grapes (*Vitis* spp.), Potatoes (*Solanum* spp.), Apples (*Malus* spp.), Citrus (*Citrus* spp.), Peanuts (*Arachis* spp.), Lettuce (*Lactuca* spp.), Rice (*Oryza* spp.), Sorghum (*Sorghum* spp.), Barley (*Hordeum* spp.), Strawberries (*Fragaria* spp.), Almonds (*Prunus dulcis*), Onions (*Allium* spp.), Peaches (*Prunus persica*), Carrots (*Daucus carota*), Cucumbers (*Cucumis* spp.), Beans (*Phaseolus* spp.), Sunflower (*Helianthus* spp.), Pears (*Pyrus* spp.), Celery (*Apium graveolens*), Broccoli (*Brassica oleracea*), Cantaloups (*Cucumis* spp.), Oats (*Avena* spp.), Asparagus (*Asparagus* spp.).

Not included in the ranking by value: Pine (*Pinus* spp.), Other Softwood trees*, Soft Hardwood trees*, Hardwood Trees*.

** NASS. 2007. Agricultural Prices 2006 Summary. Agricultural Statistics Board, National Agricultural Statistics Service, United States Department of Agriculture.

AHP Prioritized Pest List for FY09

Taxonomic Group	Scientific Name	Common Name	Pest Source	Rank
Arthropod	<i>Adoxophyes orana</i>	Summer fruit tortrix moth	Western Region 2004 Exotic Pest List	12
Arthropod	<i>Agrius biguttatus</i>	Oak splendor beetle	NAFC-ExFor Pest	15
Arthropod	<i>Aleurocanthus spiniferus</i>	Orange spiny whitefly	OPIS A List	77
Arthropod	<i>Archips xylosteanus</i>	Variiegated golden tortrix	National CAPS Committee Pest Prioritization Subgroup	39
Arthropod	<i>Autographa gamma</i>	Silver Y moth	OPIS A List/Western Region 2004 Exotic Pest List	66
Arthropod	<i>Cataenococcus hispidus</i>	Cocoa mealybug	OPIS A List	93
Arthropod	<i>Cecidophyopsis ribis</i>	Black currant gall mite	Western Region 2004 Exotic Pest List	63
Arthropod	<i>Ceroplastes destructor</i>	Soft wax scale	OPIS A List	5
Arthropod	<i>Ceroplastes japonicus</i>	Japanese wax scale	OPIS A List	13
Arthropod	<i>Chilecomadia valdiviana</i>	Carpenter worm	NAFC-ExFor Pest	65
Arthropod	<i>Chilo suppressalis</i>	Asiatic rice borer	Western Region 2004 Exotic Pest List	30
Arthropod	<i>Chlorophorus strobilicola</i>	Pine cone cerambycid	NPAG	74
Arthropod	<i>Copitarsia</i> spp.	Copitarsia moths	Western Region 2004 Exotic Pest List	84
Arthropod	<i>Crocidolomia binotalis</i>	Cabbage cluster caterpillar	Western Region 2004 Exotic Pest List	64
Arthropod	<i>Cydia funebrana</i>	Plum fruit moth	OPIS A List/Western Region 2004 Exotic Pest List	101
Arthropod	<i>Darna pallivitta</i>	Nettle caterpillar	Western Region 2004 Exotic Pest List	96
Arthropod	<i>Dendroctonus micans</i>	Great spruce bark beetle	NAFC-ExFor Pest	53
Arthropod	<i>Dendrolimus pini</i>	Pine-tree lappet	NAFC-ExFor Pest	29
Arthropod	<i>Dendrolimus superans</i>	Siberian silk moth	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	4
Arthropod	<i>Eudocima fullonia</i>	Fruit piercing moth	Western Region 2004 Exotic Pest List	10
Arthropod	<i>Eutetranychus orientalis</i>	Citrus brown mite	OPIS A List	71
Arthropod	<i>Helicoverpa armigera</i>	Old World bollworm	OPIS A List	1
Arthropod	<i>Heteronychus arator</i>	Black maize beetle	OPIS A List	97
Arthropod	<i>Hyllobius abietis</i>	Large pine weevil	NAFC-ExFor Pest	58
Arthropod	<i>Leucoptera malifoliella</i>	Pear leaf blister moth	Western Region 2004 Exotic Pest List	31
Arthropod	<i>Lobesia botrana</i>	European grape vine moth	OPIS A List	98
Arthropod	<i>Lymantria mathura</i>	Pink gypsy moth	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	23
Arthropod	<i>Metamasius</i> spp.	Exotic metamasius weevils	OPIS A List	85
Arthropod	<i>Monochamus alternatus</i>	Japanese pine sawyer beetle	NPAG	62
Arthropod	<i>Monochamus saltuarius</i>	Japanese pine sawyer	NAFC-ExFor Pest	36
Arthropod	<i>Monochamus sutor</i>	Small white-marmorated longhorned beetle	NAFC-ExFor Pest	32
Arthropod	<i>Nysius huttoni</i>	New Zealand wheat bug	NPAG	3
Arthropod	<i>Ostrinia furnacalis</i>	Asian corn borer	Western Region 2004 Exotic Pest List	56
Arthropod	<i>Oxycarenus hyalinipennis</i>	Cotton seed bug	National CAPS Committee Pest Prioritization Subgroup	14
Arthropod	<i>Pericyma cruegeri</i>	Poinciana looper	Western Region 2004 Exotic Pest List	79
Arthropod	<i>Philephedra broadwayi</i>		OPIS A List	86
Arthropod	<i>Planococcus lilacinus</i>	Coffee mealybug	OPIS A List/Western Region 2004 Exotic Pest List	69
Arthropod	<i>Planococcus minor</i>	Passionvine mealybug	OPIS A List	2
Arthropod	<i>Platypus quercivorus</i>	Oak ambrosia beetle	NAFC-ExFor Pest	16
Arthropod	<i>Protospulvinaria longivalvata</i>		OPIS A List	52
Arthropod	<i>Pulvinaria polygonata</i>	Cottony citrus scale	OPIS A List	54
Arthropod	<i>Rhabdoscelus obscurus</i>	Sugar cane weevil	Western Region 2004 Exotic Pest List	70
Arthropod	<i>Rhynchophorus palmarum</i>	Palm Weevil	Western Region 2004 Exotic Pest List	82
Arthropod	<i>Scolytus intricatus</i>	European oak bark beetle	NAFC-ExFor Pest	57
Arthropod	<i>Spodoptera littoralis</i>	Egyptian cottonworm	OPIS A List	37
Arthropod	<i>Spodoptera litura</i>	Cotton cutworm	EPPO A1 List	6
Arthropod	<i>Stenchaetothrips biformis</i>	Rice thrips	Western Region 2004 Exotic Pest List	68
Arthropod	<i>Synanthedon myopaeformis</i>	Red-belted clearwing	National CAPS Committee Pest Prioritization Subgroup	72
Arthropod	<i>Thaumatotibia leucotreta</i>	False codling moth	OPIS A List	28
Arthropod	<i>Tomicus destruens</i>	Pine shoot beetle	NAFC-ExFor Pest	27
Arthropod	<i>Toxoptera odinae</i>	Mango aphid	OPIS A List	90
Arthropod	<i>Tropilaelaps clareae</i>	Bee mite	Western Region 2004 Exotic Pest List	59
Arthropod	<i>Unaspis yanonensis</i>	Arrowhead scale	OPIS A List	9
Bacterium	<i>Ralstonia solanacearum</i> race 3 biovar 2	Bacterial wilt	OPIS A List	7
Bacterium	<i>Rathayibacter toxicus</i>	Annual ryegrass toxicity	NPDRS	60
Bacterium	<i>Xanthomonas oryzae</i>	Bacterial leaf streak, bacterial blight	OPIS A List	38
Fungus	<i>Cronartium flaccidum</i>	Scots pine blister rust	NPDRS	21
Fungus	<i>Elsinoe batatas</i>	Stem and leaf scab	Western Region 2004 Exotic Pest List	75
Fungus	<i>Harpophora maydis</i>	Late wilt of corn	NPDRS	43
Fungus	<i>Mycosphaerella gibsonii</i>	Needle blight of pine	EPPO A1 List	11
Fungus	<i>Ophiostoma longicollum</i>		NAFC-ExFor Pest	35
Fungus	<i>Peronosclerospora maydis</i>	Downy mildew of corn	OPIS A List	91
Fungus	<i>Peronosclerospora philippinensis</i>	Philippine downy mildew	OPIS A List/Western Region 2004 Exotic Pest List	92
Fungus	<i>Phellinus noxius</i>	Brown root rot	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	67
Fungus	<i>Phoma tracheiphila</i>	Mal secco	OPIS A List	78
Fungus	<i>Phytophthora alni</i>	Alder root rot	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	46
Fungus	<i>Phytophthora quercina</i>	Oak decline	NAFC-ExFor Pest	22
Fungus	<i>Sclerophthora rayssiae</i> var. <i>zeae</i>	Brown stripe downy mildew	OPIS A List/Western Region 2004 Exotic Pest List	102
Fungus	<i>Synchytrium endobioticum</i>	Potato wart	OPIS A List	104

AHP Prioritized Pest List for FY09

Taxonomic Group	Scientific Name	Common Name	Pest Source	Rank
Mollusk	<i>Achatina fulica</i>	Giant African snail	OPIS A List	8
Mollusk	<i>Arion vulgaris (Arion lusitanicus)</i>	Spanish slug	Mollusk Team	83
Mollusk	<i>Cerutuella</i> spp.	Exotic species	OPIS A List	41
Mollusk	<i>Cochlicella</i> spp.	Exotic species	OPIS A List	24
Mollusk	<i>Hygromia cinctella</i>	Girdled snail	Mollusk Team	73
Mollusk	<i>Monacha</i> spp. (<i>M. cantiana</i>, <i>M. syriaca</i>)		Mollusk Team	25
Mollusk	<i>Pomacea</i> spp.	Exotic apple snails	OPIS A List	61
Nematode	<i>Bursaphelenchus cocophilus</i>	Red ring nematode	OPIS A List/Western Region 2004 Exotic Pest List	108
Nematode	<i>Ditylenchus angustus</i>	Rice stem nematode	Western Region 2004 Exotic Pest List	19
Nematode	<i>Heterodera cajani</i>	Pigeonpea cyst nematode	OPIS A List	34
Nematode	<i>Heterodera ciceri</i>	Chickpea cyst nematode	OPIS A List	95
Nematode	<i>Heterodera latipons</i>	Mediterranean cereal cyst nematode	OPIS A List	20
Nematode	<i>Heterodera sacchari</i>	Sugar cane cyst nematode	OPIS A List	40
Nematode	<i>Meloidogyne artiellia</i>	British root-knot nematode	OPIS A List	18
Nematode	<i>Meloidogyne citri</i>	Asian citrus root-knot nematode	OPIS A List	48
Nematode	<i>Meloidogyne coffeicola</i>	Coffee root-knot nematode	OPIS A List	107
Nematode	<i>Meloidogyne donghaiensis</i>	Donghai root-knot nematode	OPIS A List	49
Nematode	<i>Meloidogyne fallax</i>	False Columbia root-knot nematode	OPIS A List	17
Nematode	<i>Meloidogyne fujianensis</i>	Asian citrus root-knot nematode	OPIS A List	45
Nematode	<i>Meloidogyne indica</i>	Citrus root-knot nematode	OPIS A List	47
Nematode	<i>Meloidogyne jiangyungensis</i>	Citrus root-knot nematode	OPIS A List	50
Nematode	<i>Meloidogyne kongi</i>	Citrus root-knot nematode	OPIS A List	51
Nematode	<i>Meloidogyne mali</i>	Apple root-knot nematode	OPIS A List	105
Nematode	<i>Meloidogyne mingnanica</i>	Citrus root-knot nematode	OPIS A List	44
Nematode	<i>Meloidogyne paranaensis</i>	Parana coffee root-knot nematode	OPIS A List	42
Phytoplasma	<i>Candidatus Phytoplasma australiense</i>	Phytoplasma yellows	NPAG	33
Plant	<i>Acroceras zizanioides</i>	Oat grass	APHIS Weed Team	88
Plant	<i>Actinoscirpus grossus</i>	Giant bulrush	APHIS Weed Team	81
Plant	<i>Ageratina riparia</i>	Mistflower	APHIS Weed Team	80
Plant	<i>Gymnocoronis spilanthoides</i>	Senegal tea plant	APHIS Weed Team	76
Plant	<i>Juncus prismatocarpus</i>	Jointed rush	APHIS Weed Team	100
Plant	<i>Onopordum acaulon</i>	Horse thistle	APHIS Weed Team	26
Plant	<i>Pinus roxburghii</i>	Chir pine	APHIS Weed Team	94
Plant	<i>Rubus alceifolius</i>	Giant bramble	APHIS Weed Team	89
Plant	<i>Withania somnifera</i>	Ashwagandha	APHIS Weed Team	103
Virus	<i>Coconut cadang-cadang viroid</i>	CCCVd	Western Region 2004 Exotic Pest List	87
Virus	<i>Colocasia bobone disease virus</i>	CBDV	Western Region 2004 Exotic Pest List	99
Virus	<i>Taro bacilliform virus</i>	TaBV	Western Region 2004 Exotic Pest List	106
Virus	Torradovirus	ToTV, ToANV, ToMarV	NPAG	55