

The next set of New Pest Response Guidelines

Russ Bulluck
USDA APHIS PPQ ST CPHST
Emergency Response

OUR DISASTER
RECOVERY PLAN
GOES SOMETHING
LIKE THIS...



www.dilbert.com scottiadams@aol.com

HELP!
HELP!



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SOMEDAY WE
HOPE TO HAVE
A BUDGET.



Lifecycle of Plant Health Emergency

Detection

Detection

Report

Identification

Confirmation

Response

New Pest

NPAG

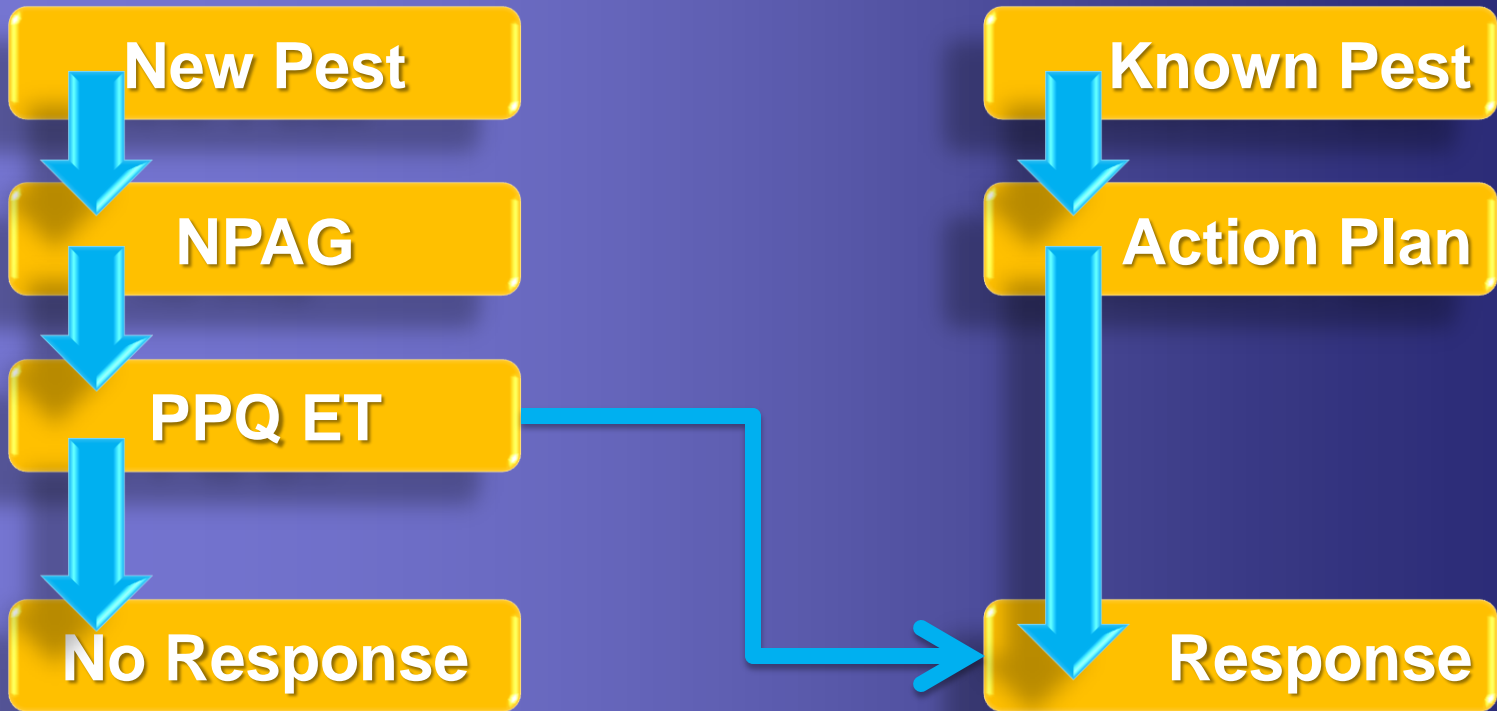
PPQ ET

No Response

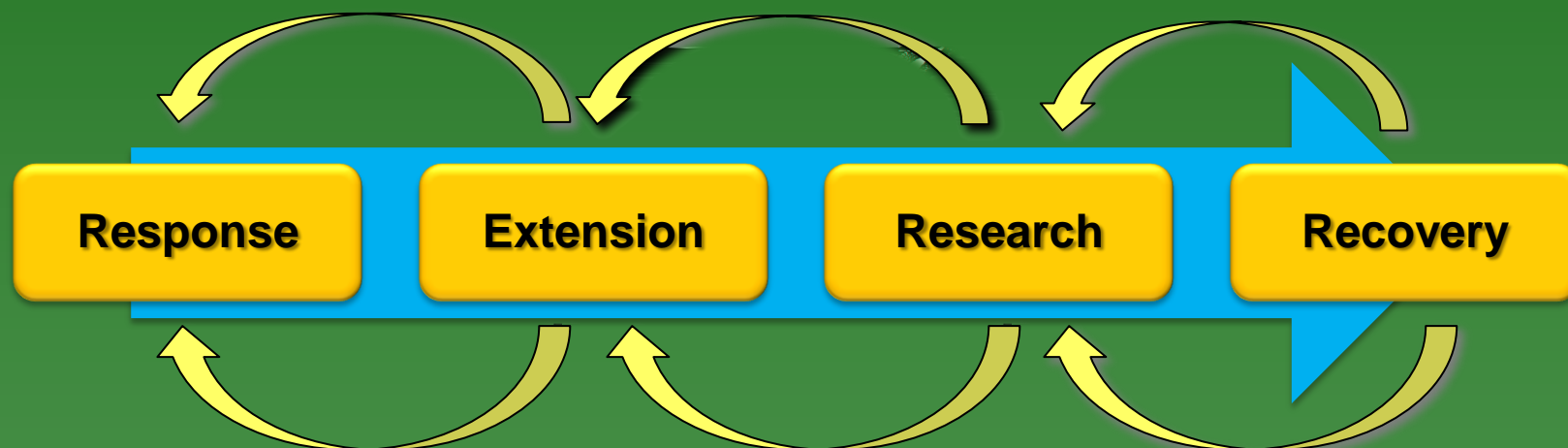
Known Pest

Action Plan

Response



Response and Recovery Continuum



United States Department of Agriculture Animal and Plant Health Inspection Service Plant Protection and Quarantine



Taxonomic Group	Scientific Name	Common Name	Plant Source	Regulation
Arthropod	<i>Helicoverpa armigera</i>	Old World bollworm	OPIS All	1
Arthropod	<i>Plutella maculipennis</i>	Plutella rootworm	OPIS All	2
Arthropod	<i>Nyctelia fulvipes</i>	New Zealand wheat looper	NPQS	3
Arthropod	<i>Dendrobium sapientes sibiricus</i>	Siberian silk moth	Western Region 2004 Exotic Pest List/NPFC-Extr Pest	4
Arthropod	<i>Carpobrotus inaequalis</i>	Silken scale	OPIS All	5
Arthropod	<i>Spodoptera litura</i>	Common cutworm	EPOI All List	6
Arthropod	<i>Heliothis virescens</i> (excl. 3 below 2)	Belted worm	OPIS All	7
Insect	<i>Acrida cinerea</i>	Green locust	OPIS All	8
Arthropod	<i>Utricularia pumila</i>	Arrowhead scale	OPIS All	9
Arthropod	<i>Euclyptus fulvipes</i>	Protoparasitic mite	Western Region 2004 Exotic Pest List	10
Fungus	<i>Mycosphaella graminicola</i>	Headline light of pine	EPOI All List	11
Arthropod	<i>Adelges abietis</i>	Summer hemlock moth	Western Region 2004 Exotic Pest List	12
Arthropod	<i>Campoplex japonicus</i>	Japanese saw fly	OPIS All	13
Arthropod	<i>Oncophanes hirsutus</i>	Cotton seed bug	National CAPS Committee Pest Prioritization Subgroup	14
Arthropod	<i>Aphis ligulata</i>	Oak spindle beetle	NPFC-Extr Pest	15
Arthropod	<i>Phytomyza americana</i>	Oak anthrac beetle	NPFC-Extr Pest	16
Nematode	<i>Meloidogyne fallax</i>	False Gablewood root-knot nematode	OPIS All	17
Nematode	<i>Meloidogyne arbutifolia</i>	Brown root-knot nematode	OPIS All	18
Nematode	<i>Ditylenchus angustatus</i>	Rice stem nematode	Western Region 2004 Exotic Pest List	19
Nematode	<i>Heterodera leporis</i>	Mediterranean carrot cyst nematode	OPIS All	20
Fungus	<i>Cronartium flaccidum</i>	Scott pine blister rust	NPQS	21
Fungus	<i>Phytophthora ramorum</i>	Oak decline	NPFC-Extr Pest	22
Arthropod	<i>Lymnobia nubilus</i>	Pink spiny moth	Western Region 2004 Exotic Pest List/NPFC-Extr Pest	23
Mollusk	<i>Cochlicopa</i> sp.	Exotic species	OPIS All	24
Mollusk	<i>Murex</i> spp. (<i>M. cordata</i> , <i>M. sylvatica</i>)	Hermit shells	Mollusk Team	25
Plant	<i>Opuntia aculeata</i>	Pine cholla beetle	APHIS Weed Team	26
Arthropod	<i>Tortrix flavipes</i>	Pine shoot beetle	NPFC-Extr Pest	27
Arthropod	<i>Meloidogyne incognita</i>	False codling moth	OPIS All	28
Arthropod	<i>Dendrobium pini</i>	Pine-tree looper	NPFC-Extr Pest	29
Arthropod	<i>CMS</i> spp.	Apple rootstock	Western Region 2004 Exotic Pest List	30
Arthropod	<i>Leucophaea mellea</i>	Pine leaf blower moth	Western Region 2004 Exotic Pest List	31
Arthropod	<i>Mesochorus sutor</i>	Small white-memorial longhorned beetle	NPFC-Extr Pest	32
Phytophthora	<i>Phytophthora australiana</i>	<i>Phytophthora yellow</i>	NPQS	33
Nematode	<i>Heterodera agri</i>	<i>Heterodera cyathostoma</i>	OPIS All	34
Fungus	<i>Ophiostoma longicolum</i>	<i>Japanese pine sawyer</i>	NPFC-Extr Pest	35
Arthropod	<i>Mesochorus sutor</i>	<i>Japanese pine sawyer</i>	NPFC-Extr Pest	36
Arthropod	<i>Scaphisoma</i> sp.	<i>Scaphisoma californicum</i>	OPIS All	37
Insect	<i>Dactynotus caryae</i>	Buckhorn leaf-miner, buckhorn fly	OPIS All	38
Arthropod	<i>Archips glaberrimus</i>	Unspined golden silk	National CAPS Committee Pest Prioritization Subgroup	39
Nematode	<i>Heterodera sacchari</i>	Sugar cane cyst nematode	OPIS All	40
Mollusk	<i>Cornuella</i> spp.	Exotic species	OPIS All	41
Nematode	<i>Meloidogyne parva</i>	Parva coffee root-knot nematode	OPIS All	42
Fungus	<i>Isaria medeolae</i>	Lime web atom	NPQS	43
Nematode	<i>Meloidogyne ruginervis</i>	Citrus root-knot nematode	OPIS All	44
Nematode	<i>Meloidogyne hapana</i>	Asian citrus root-knot nematode	OPIS All	45
Fungus	<i>Phytophthora</i> spp.	Alar nematode	Western Region 2004 Exotic Pest List/NPFC-Extr Pest	46
Nematode	<i>Meloidogyne indica</i>	Citrus root-knot nematode	OPIS All	47
Nematode	<i>Meloidogyne citri</i>	Asian citrus root-knot nematode	OPIS All	48
Nematode	<i>Meloidogyne longicauda</i>	Orange root-knot nematode	OPIS All	49
Nematode	<i>Meloidogyne jinggangensis</i>	Citrus root-knot nematode	OPIS All	50
Nematode	<i>Meloidogyne longi</i>	Citrus root-knot nematode	OPIS All	51
Arthropod	<i>Protoparce longicauda</i>	Citrus root-knot nematode	OPIS All	52
Arthropod	<i>Dendrobium pini</i>	Great spruce bark beetle	NPFC-Extr Pest	53
Arthropod	<i>Pissodes sitchensis</i>	Colorado spruce beetle	OPIS All	54
Virus	<i>Tombusvirus</i>	TSV, TuMV, TSWV	NPQS	55
Arthropod	<i>Ophiostoma</i>	Asian cornborer	Western Region 2004 Exotic Pest List	56
Arthropod	<i>Scythodes</i>	European oak bark beetle	NPFC-Extr Pest	57
Arthropod	<i>Hylotia</i> spp.	Large pine sawyer	NPFC-Extr Pest	58
Arthropod	<i>Trochilium</i> spp.	Bee flies	Western Region 2004 Exotic Pest List	59
Bacterium	<i>Radiocornu</i> spp.	Annual ringnecked locust	NPQS	60
Mollusk	<i>Foricula</i> spp.	Exotic apple snails	OPIS All	61
Arthropod	<i>Mesochorus sutor</i>	Japanese pine sawyer beetle	NPQS	62
Arthropod	<i>Coleoptera</i> spp.	Black conifer bark beetle	Western Region 2004 Exotic Pest List	63
Arthropod	<i>Coleoptera</i> spp.	Colorado spruce beetle	Western Region 2004 Exotic Pest List	64
Arthropod	<i>Chrysomelidae</i>	Chrysomelid weevil	NPFC-Extr Pest	65
Arthropod	<i>Autographa gamma</i>	Silkworm	OPIS All	66
Fungus	<i>Phoma</i> spp.	Brown rot	Western Region 2004 Exotic Pest List/NPFC-Extr Pest	67
Arthropod	<i>Semiothisa</i> spp.	Rice tortoise	Western Region 2004 Exotic Pest List	68
Arthropod	<i>Phanocarpa</i> spp.	Coffee root borer	OPIS All	69
Arthropod	<i>Rhagoletia</i> spp.	Sugar cane weevil	Western Region 2004 Exotic Pest List	70
Arthropod	<i>Eurygaster</i> spp.	Citrus brown mite	OPIS All	71
Arthropod	<i>Synaldis</i> spp.	Red-bellied chewing	OPIS All	72
Mollusk	<i>Hydrobia</i> spp.	Grass snail	National CAPS Committee Pest Prioritization Subgroup	73
Arthropod	<i>Chrysomelidae</i>	Pine cone weevil	Mollusk Team	74
Fungus	<i>Elvina</i> spp.	Pine cone weevil	NPQS	75
Plant	<i>Glycyrrhiza glabra</i>	Slip and fall scale	Western Region 2004 Exotic Pest List	76
Arthropod	<i>Phytomyza americana</i>	Sawyer beetle	APHIS Weed Team	77
Arthropod	<i>Phytomyza americana</i>	Chrysomelid weevil	OPIS All	78
Arthropod	<i>Phytomyza americana</i>	Miticide	OPIS All	79
Plant	<i>Phytomyza americana</i>	Phytomyza weevil	Western Region 2004 Exotic Pest List	80
Plant	<i>Phytomyza americana</i>	Malware	APHIS Weed Team	81
Arthropod	<i>Phytomyza americana</i>	Great lily beetle	APHIS Weed Team	82
Mollusk	<i>Antar</i> spp.	Spanish slug	Western Region 2004 Exotic Pest List	83
Arthropod	<i>Coprosma</i> spp.	Spanish slug	Mollusk Team	84
Arthropod	<i>Meloidogyne</i> spp.	Coprosma mite	Western Region 2004 Exotic Pest List	85
Arthropod	<i>Phytomyza americana</i>	Exotic root-knot nematode	OPIS All	86
Virus	<i>Conium</i> spp.	Conium	OPIS All	87
Plant	<i>Actinonema</i> spp.	CCOIS	Western Region 2004 Exotic Pest List	88
Plant	<i>Rubus</i> spp.	Chrysomelid	APHIS Weed Team	89
Arthropod	<i>Tanypus</i> spp.	Gen. brachy	APHIS Weed Team	90
Fungus	<i>Phytophthora</i> spp.	Manga	OPIS All	91
Fungus	<i>Phytophthora</i> spp.	Downy mildew of corn	OPIS All	92
Arthropod	<i>Phytophthora</i> spp.	Philippine sugarcane mealy	OPIS All	93
Plant	<i>Phytomyza americana</i>	Downy mildew	OPIS All	94
Nematode	<i>Helicoverpa</i> spp.	Chrysomelid	APHIS Weed Team	95
Arthropod	<i>Chrysomelidae</i>	Chrysomelid	OPIS All	96
Arthropod	<i>Helicoverpa</i> spp.	False codling	Western Region 2004 Exotic Pest List	97
Arthropod	<i>Lobelia</i> spp.	Black mite beetle	OPIS All	98
Virus	<i>Cucurbita</i> spp.	European grape vine moth	Western Region 2004 Exotic Pest List	99
Plant	<i>Juniperus</i> spp.	OPIS	APHIS Weed Team	100
Arthropod	<i>Cyrtospora</i> spp.	Juniper moth	OPIS All	101
Fungus	<i>Synchytrium</i> spp.	Brown rot	OPIS All	102
Fungus	<i>Utricularia</i> spp.	Brown rot	OPIS All	103
Plant	<i>Synchytrium</i> spp.	Brown rot	OPIS All	104
Nematode	<i>Meloidogyne</i> spp.	Apple root-knot nematode	OPIS All	105
Virus	<i>Tam</i> spp.	Tam	Western Region 2004 Exotic Pest List	106
Nematode	<i>Meloidogyne</i> spp.	Chrysomelid	OPIS All	107
Nematode	<i>Scyphozoa</i> spp.	Red root nematode	OPIS All	108
Nematode	<i>Meloidogyne</i> spp.	Chrysomelid	OPIS All	109
Nematode	<i>Scyphozoa</i> spp.	Red root nematode	OPIS All	110

Plant Protection and Quarantine

Taxonomic Group	Scientific Name	Common Name	Pest Source	Rank
Arthropod	<i>Helicoverpa armigera</i>	Old World bollworm	OPIS A List	1
Arthropod	<i>Planococcus minor</i>	Passionvine mealybug	OPIS A List	2
Arthropod	<i>Nysius huttoni</i>	New Zealand wheat bug	NPAG	3
Arthropod	<i>Dendrolimus superans sibiricus</i>	Siberian silk moth	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	4
Arthropod	<i>Ceroplastes destructor</i>	Soft wax scale	OPIS A List	5
Arthropod	<i>Spodoptera litura</i>	Cotton cutworm	EPPO A1 List	6
Bacterium	<i>Ralstonia solanacearum</i> race 3 biovar 2	Bacterial wilt	OPIS A List	7
Mollusk	<i>Achatina fulica</i>	Giant African snail	OPIS A List	8
Arthropod	<i>Unaspis yanonensis</i>	Arrowhead scale	OPIS A List	9
Arthropod	<i>Eudocima fullonia</i>	Fruit piercing moth	Western Region 2004 Exotic Pest List	10
Fungus	<i>Mycosphaerella gibsonii</i>	Needle blight of pine	EPPO A1 List	11
Arthropod	<i>Adoxophyes orana</i>	Summer fruit tortrix moth	Western Region 2004 Exotic Pest List	12
Arthropod	<i>Ceroplastes japonicus</i>	Japanese wax scale	OPIS A List	13
Arthropod	<i>Oxycarenus hyalinipennis</i>	Cotton seed bug	National CAPS Committee Pest Prioritization Subgroup	14
Arthropod	<i>Agrilus biguttatus</i>	Oak splendor beetle	NAFC-ExFor Pest	15
Arthropod	<i>Platypus quercivorus</i>	Oak ambrosia beetle	NAFC-ExFor Pest	16
Nematode	<i>Meloidogyne fallax</i>	False Columbia root-knot nematode	OPIS A List	17
Nematode	<i>Meloidogyne artiellia</i>	British root-knot nematode	OPIS A List	18
Nematode	<i>Ditylenchus angustus</i>	Rice stem nematode	Western Region 2004 Exotic Pest List	19
Nematode	<i>Heterodera latipons</i>	Mediterranean cereal cyst nematode	OPIS A List	20
Fungus	<i>Cronartium flaccidum</i>	Scots pine blister rust	NPDRS	21
Fungus	<i>Phytophthora quercina</i>	Oak decline	NAFC-ExFor Pest	22
Arthropod	<i>Lymantria mathura</i>	Pink gypsy moth	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	23
Mollusk	<i>Cochlicella</i> spp.	Exotic species	OPIS A List	24
Mollusk	<i>Monacha</i> spp. (<i>M. cantiana</i>, <i>M. syriaca</i>)		Mollusk Team	25

Taxonomic Group	Scientific Name	Common Name	Pest Source	Rank
Bacterium	Ralstonia solanacearum race 3 biovar 2	Bacterial wilt	OPIS A List	7
Fungus	Mycosphaerella gibsonii	Needle blight of pine	EPPO A1 List	11
Nematode	Meloidogyne fallax	False Columbia root-knot nematode	OPIS A List	17
Nematode	Meloidogyne artiellia	British root-knot nematode	OPIS A List	18
Nematode	Ditylenchus angustus	Rice stem nematode	Western Region 2004 Exotic Pest List	19
Nematode	Heterodera latipons	Mediterranean cereal cyst nematode	OPIS A List	20
Fungus	Cronartium flaccidum	Scots pine blister rust	NPDRS	21
Fungus	Phytophthora quercina	Oak decline	NAFC-ExFor Pest	22
Phytoplasma	Candidatus Phytoplasma australiense	Phytoplasma yellows	NPAG	33
Nematode	Heterodera cajani	Pigeonpea cyst nematode	OPIS A List	34
Fungus	Ophiostoma longicollum		NAFC-ExFor Pest	35
Bacterium	Xanthomonas oryzae	Bacterial leaf streak, bacterial blight	OPIS A List	38
Nematode	Heterodera sacchari	Sugar cane cyst nematode	OPIS A List	40
Nematode	Meloidogyne paranaensis	Parana coffee root-knot nematode	OPIS A List	42
Fungus	Harpophora maydis	Late wilt of corn	NPDRS	43
Nematode	Meloidogyne mingnanica	Citrus root-knot nematode	OPIS A List	44
Nematode	Meloidogyne fujianensis	Asian citrus root-knot nematode	OPIS A List	45
Fungus	Phytophthora alni	Alder root rot	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	46
Nematode	Meloidogyne indica	Citrus root-knot nematode	OPIS A List	47
Nematode	Meloidogyne citri	Asian citrus root-knot nematode	OPIS A List	48
Nematode	Meloidogyne donghaiensis	Donghai root-knot nematode	OPIS A List	49
Nematode	Meloidogyne jianyangensis	Citrus root-knot nematode	OPIS A List	50
Nematode	Meloidogyne kongi	Citrus root-knot nematode	OPIS A List	51
Virus	Torradovirus	ToTV, ToANV, ToMarV	NPAG	55
Bacterium	Rathayibacter toxicus	Annual ryegrass toxicity	NPDRS	60
Fungus	Phellinus noxius	Brown root rot	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	67
Fungus	Elsinoe batatas	Stem and leaf scab	Western Region 2004 Exotic Pest List	75
Fungus	Phoma tracheiphila	Mal secco	OPIS A List	78
Virus	Coconut cadang-cadang viroid	CCCVd	Western Region 2004 Exotic Pest List	87
Fungus	Peronosclerospora maydis	Downy mildew of corn	OPIS A List	91
Fungus	Peronosclerospora philippinensis	Philippine downy mildew	OPIS A List/Western Region 2004 Exotic Pest List	92
Nematode	Heterodera ciceri	Chickpea cyst nematode	OPIS A List	95
Virus	Colocasia bobone disease virus	CBDV	Western Region 2004 Exotic Pest List	99
Fungus	Sclerophthora rayssiae var. zeae	Brown stripe downy mildew	OPIS A List/Western Region 2004 Exotic Pest List	102

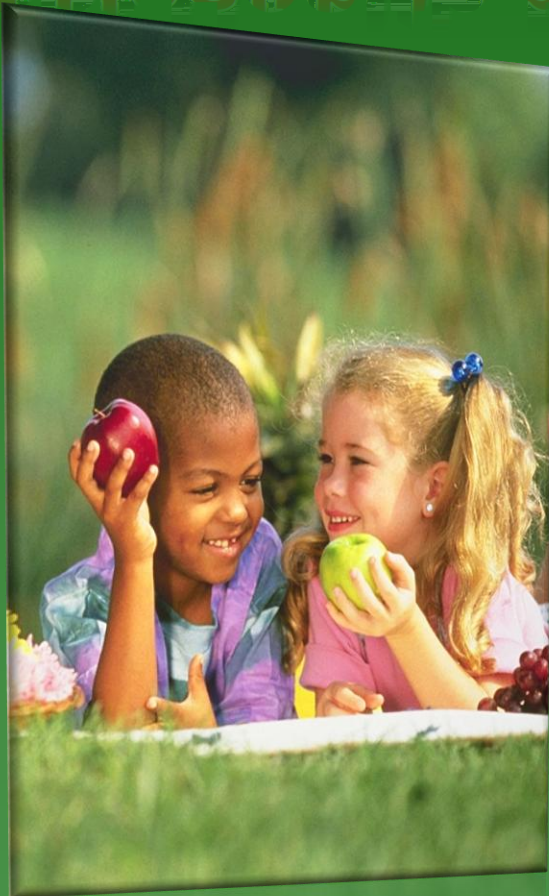
New New Pest Response Guidelines

- APP or Phytoplasmas?
- Exotic RKN's
- Exotic CN's
- Cronartium flaccidum
- Mycosphaerella gibsonii
- Select agents
 - R. toxicus
 - Harpophora maydis
 - Red leaf blotch of soybean
 - Corn Downy Mildews
- Ophiostoma longicollum
- Torrado virus
- Others?
- Drafts completed
 - Xoo
 - Synchytrium endobioticum
- Drafts (not completed)
 - CiLV

Plant Protection and Quarantine

Taxonomic Group	Scientific Name	Common Name	Pest Source	Rank
Bacterium	<i>Ralstonia solanacearum</i> race 3 biovar 2	Bacterial wilt	OPIS A List	7
Fungus	<i>Mycosphaerella gibsonii</i>	Needle blight of pine	EPPO A1 List	11
Nematode	<i>Meloidogyne fallax</i>	False Columbia root-knot nematode	OPIS A List	17
Nematode	<i>Meloidogyne artiellia</i>	British root-knot nematode	OPIS A List	18
Nematode	<i>Ditylenchus angustus</i>	Rice stem nematode	Western Region 2004 Exotic Pest List	19
Nematode	<i>Heterodera latipons</i>	Mediterranean cereal cyst nematode	OPIS A List	20
Fungus	<i>Cronartium flaccidum</i>	Scots pine blister rust	NPDRS	21
Fungus	<i>Phytophthora quercina</i>	Oak decline	NAFC-ExFor Pest	22
Phytoplasma	<i>Candidatus Phytoplasma australiense</i>	Phytoplasma yellows	NPAG	33
Nematode	<i>Heterodera cajani</i>	Pigeonpea cyst nematode	OPIS A List	34
Fungus	<i>Ophiostoma longicollum</i>		NAFC-ExFor Pest	35
Bacterium	<i>Xanthomonas oryzae</i>	Bacterial leaf streak, bacterial blight	OPIS A List	38
Nematode	<i>Heterodera sacchari</i>	Sugar cane cyst nematode	OPIS A List	40
Nematode	<i>Meloidogyne paranaensis</i>	Parana coffee root-knot nematode	OPIS A List	42
Fungus	<i>Harpophora maydis</i>	Late wilt of corn	NPDRS	43
Nematode	<i>Meloidogyne mingnanica</i>	Citrus root-knot nematode	OPIS A List	44
Nematode	<i>Meloidogyne fujianensis</i>	Asian citrus root-knot nematode	OPIS A List	45
Fungus	<i>Phytophthora alni</i>	Alder root rot	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	46
Nematode	<i>Meloidogyne indica</i>	Citrus root-knot nematode	OPIS A List	47
Nematode	<i>Meloidogyne citri</i>	Asian citrus root-knot nematode	OPIS A List	48
Nematode	<i>Meloidogyne donghaiensis</i>	Donghai root-knot nematode	OPIS A List	49
Nematode	<i>Meloidogyne jianyangensis</i>	Citrus root-knot nematode	OPIS A List	50
Nematode	<i>Meloidogyne kongi</i>	Citrus root-knot nematode	OPIS A List	51
Virus	Torradovirus	ToTV, ToANV, ToMarV	NPAG	55
Bacterium	<i>Rathayibacter toxicus</i>	Annual ryegrass toxicity	NPDRS	60
Fungus	<i>Phellinus noxius</i>	Brown root rot	Western Region 2004 Exotic Pest List/NAFC-ExFor Pest	67
Fungus	<i>Elsinoe batatas</i>	Stem and leaf scab	Western Region 2004 Exotic Pest List	75
Fungus	<i>Phoma tracheiphila</i>	Mal secco	OPIS A List	78
Virus	<i>Coconut cadang-cadang viroid</i>	CCCVd	Western Region 2004 Exotic Pest List	87
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
Nematode	<i>Heterodera ciceri</i>	Chickpea cyst nematode	OPIS A List	95
Virus	Colocasia bobone disease virus	CBDV	Western Region 2004 Exotic Pest List	99
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
Nematode	<i>Meloidogyne mali</i>	Apple root-knot nematode	OPIS A List	105
Virus	Taro bacilliform virus	TaBV	Western Region 2004 Exotic Pest List	106
Nematode	<i>Meloidogyne coffeicola</i>	Coffee root-knot nematode	OPIS A List	107
Nematode	<i>Bursaphelenchus cocophilus</i>	Red ring nematode	OPIS A List/Western Region 2004 Exotic Pest List	108

Plant Health Emergency Management



**Protecting
American Agriculture**



United States Department of Agriculture
Animal and Plant Health Inspection Service

Plant Protection and Quarantine



Thank You!

Questions?