

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...



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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

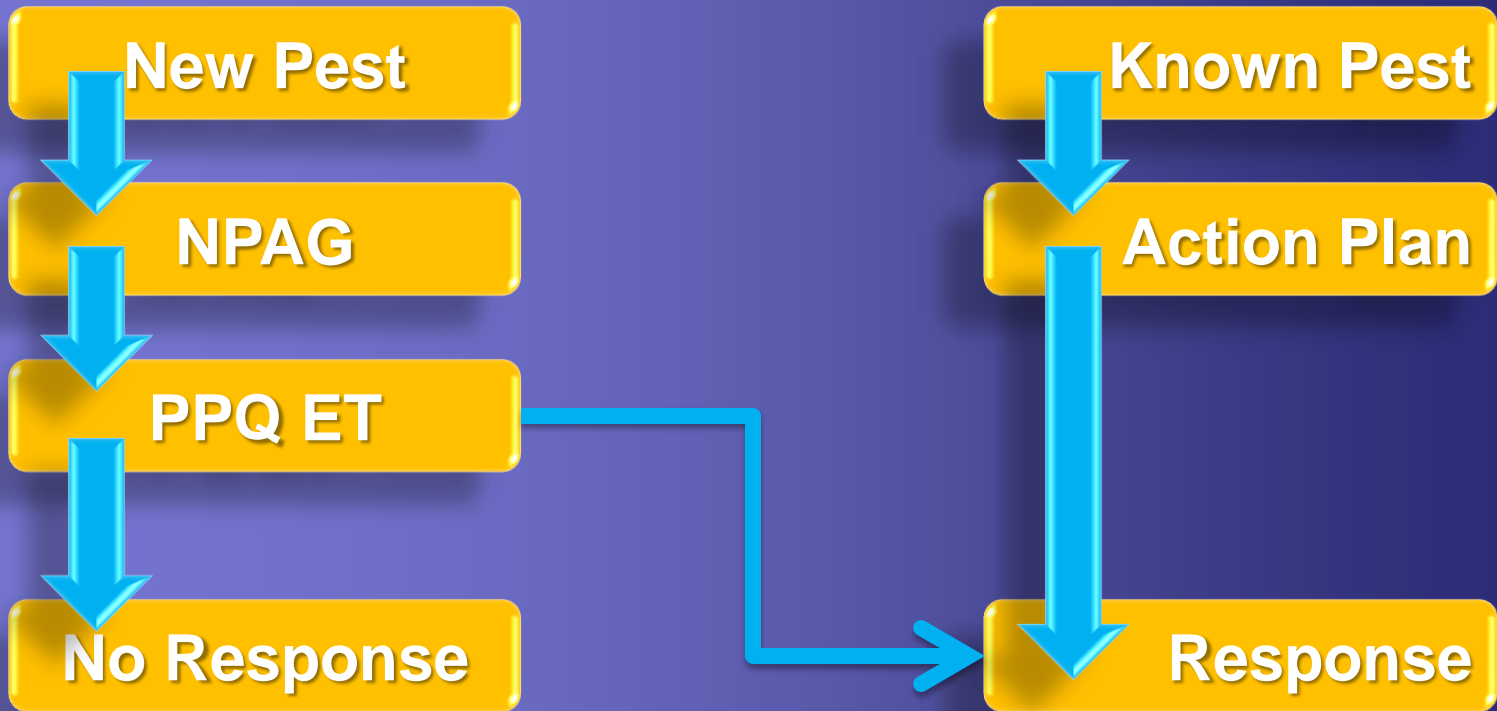
PPQ ET

No Response

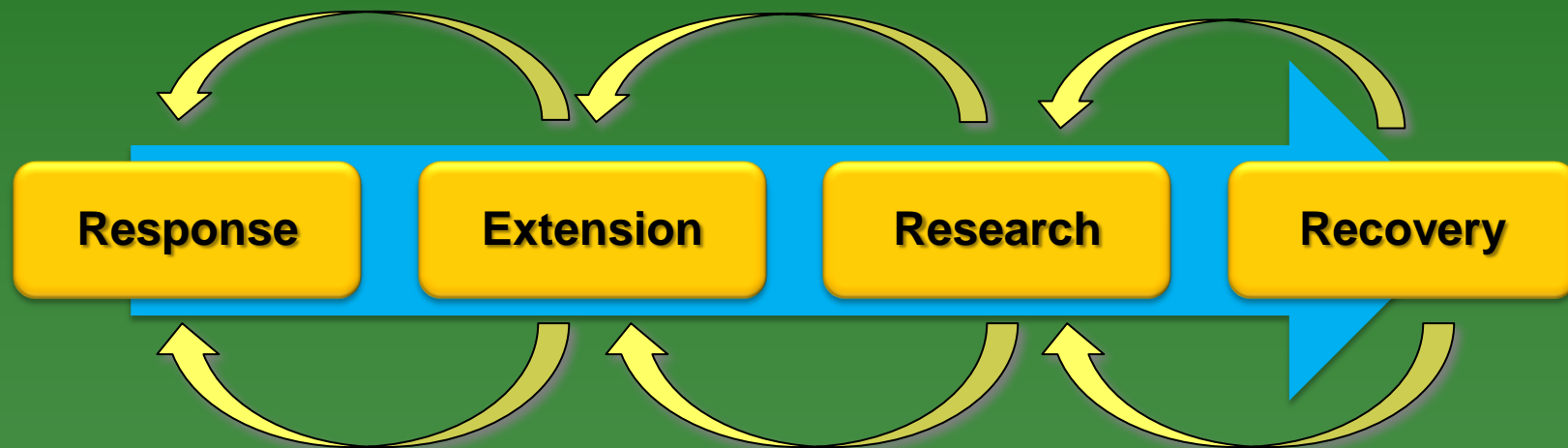
Known Pest

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 | Page |
|-----------------|---|---|---|------|
| Arthropod | <i>Halicampus arvensis</i> | Old World thrips | OPIS All | 1 |
| Arthropod | <i>Phaenocarpa melioli</i> | Phaenocarpa melioli | OPIS All | 2 |
| Arthropod | <i>Nגייה הולנדית</i> | New Zealand wheat bug | MFAS | 3 |
| Arthropod | <i>Dorsilobus squalens sibiricus</i> | Siberian silk moth | Western Region 2004 Exotic Pest List/NPFC-Exotic Pest | 4 |
| Arthropod | <i>Carpodacus leucostriatus</i> | Siberian scale | OPIS All | 5 |
| Arthropod | <i>Scaphytopa lutea</i> | Colton culicid | EPPO All List | 6 |
| Bacterium | <i>Ralstonia solanaceorum</i> race 3 below 2 | Bacterial wilt | OPIS All | 7 |
| Mollusk | <i>Actinia laticincta</i> | Great African slug | OPIS All | 8 |
| Arthropod | <i>Utripes yonosekiensis</i> | Archived scale | OPIS All | 9 |
| Arthropod | <i>Euclyptus fulvipes</i> | Protracting moth | Western Region 2004 Exotic Pest List | 10 |
| Fungus | <i>Mycosphaella graminicola</i> | Headless light of pine | EPPO All List | 11 |
| Arthropod | <i>Adelges urticae</i> | Summer hollyhock moth | Western Region 2004 Exotic Pest List | 12 |
| Arthropod | <i>Campoplex japonicus</i> | Japanese scale | OPIS All | 13 |
| Arthropod | <i>Oncocnemis hirtipes</i> | Colton seed bug | National CAPS Committee Pest Prioritization Subgroup | 14 |
| Arthropod | <i>Aphis ligulata</i> | Oak splender beetle | NPFC-Exotic Pest | 15 |
| Arthropod | <i>Phytomyza americana</i> | Oak splender beetle | NPFC-Exotic Pest | 16 |
| Nematode | <i>Meloidogyne fallax</i> | False Golumba root-knot nematode | OPIS All | 17 |
| Nematode | <i>Meloidogyne arvensis</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 | NPFS | 21 |
| Fungus | <i>Phytophthora ramorum</i> | Oak decline | NPFC-Exotic Pest | 22 |
| Arthropod | <i>Lymnobia nubilum</i> | Pink spiny moth | Western Region 2004 Exotic Pest List/NPFC-Exotic Pest | 23 |
| Mollusk | <i>Cochlicopa</i> sp. | Exotic species | OPIS All | 24 |
| Mollusk | <i>Murex</i> spp. (<i>M. cordatus</i> , <i>M. sylvaticus</i>) | Hermit shells | Mollusk Team | 25 |
| Plant | <i>Oenothera aculeata</i> | Prickly cholla | APHIS Weed Team | 26 |
| Arthropod | <i>Tortrix flavipes</i> | Pine shoot borer | NPFC-Exotic Pest | 27 |
| Arthropod | <i>Meloidogyne incognita</i> | False codling moth | OPIS All | 28 |
| Arthropod | <i>Oudemansia pini</i> | Pine-top borer | NPFC-Exotic Pest | 29 |
| Arthropod | <i>Chimaphysalis</i> | Asiatic tick | Western Region 2004 Exotic Pest List | 30 |
| Arthropod | <i>Leucophaea melleoalba</i> | Pine leaf blower moth | Western Region 2004 Exotic Pest List | 31 |
| Arthropod | <i>Mesochorus cinctus</i> | Small white-membraned longhorned beetle | NPFC-Exotic Pest | 32 |
| Phytophthora | <i>Phytophthora australiana</i> | <i>Phytophthora yellow</i> | MFAS | 33 |
| Nematode | <i>Heterodera sagittalis</i> | <i>Heterodera cyathostoma</i> | OPIS All | 34 |
| Fungus | <i>Ophiostoma longicolum</i> | Japanese pine sawyer | NPFC-Exotic Pest | 35 |
| Arthropod | <i>Mesochorus cinctus</i> | Japanese pine sawyer | NPFC-Exotic Pest | 36 |
| Arthropod | <i>Scaphytopa lutea</i> | Colton culicid | OPIS All | 37 |
| Bacterium | <i>Ralstonia solanaceorum</i> | Bacterial wilt (not <i>Ralstonia solanaceorum</i>) | OPIS All | 38 |
| Arthropod | <i>Archips glaberrimus</i> | Unspined golden silk | National CAPS Committee Pest Prioritization Subgroup | 39 |
| Nematode | <i>Heterodera saccharis</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 | NPFS | 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-Exotic 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>Protoparva longicauda</i> | Citrus root-knot nematode | OPIS All | 52 |
| Arthropod | <i>Dendroctonus valens</i> | Great spruce bark beetle | NPFC-Exotic Pest | 53 |
| Arthropod | <i>Pissodes caryocaryae</i> | Colton bark beetle | OPIS All | 54 |
| Virus | <i>Tombusvirus</i> | TULV, TULVY, TABSV | MFAS | 55 |
| Arthropod | <i>Ontsira formicosa</i> | Asian cornborer | Western Region 2004 Exotic Pest List | 56 |
| Arthropod | <i>Scythodes viticola</i> | Kangaroo oak bark beetle | NPFC-Exotic Pest | 57 |
| Arthropod | <i>Hylotia viticola</i> | Large pine sawyer | NPFC-Exotic Pest | 58 |
| Arthropod | <i>Trichobius classis</i> | Box moth | Western Region 2004 Exotic Pest List | 59 |
| Bacterium | <i>Ralstonia solanaceorum</i> | Bacterial wilt (not <i>Ralstonia solanaceorum</i>) | NPFS | 60 |
| Mollusk | <i>Formica</i> spp. | Exotic apple weevil | OPIS All | 61 |
| Arthropod | <i>Mesochorus cinctus</i> | Japanese pine sawyer beetle | NPFC | 62 |
| Arthropod | <i>Coleophora abietis</i> | Black conifer bud moth | Western Region 2004 Exotic Pest List | 63 |
| Arthropod | <i>Crocidolomia binotalis</i> | Collage cluster caterpillar | Western Region 2004 Exotic Pest List | 64 |
| Arthropod | <i>Chloroceryle virens</i> | Cloverworm | NPFC-Exotic 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-Exotic Pest | 67 |
| Arthropod | <i>Semiothisa albicincta</i> | Rice borer | Western Region 2004 Exotic Pest List | 68 |
| Arthropod | <i>Plutella maculipennis</i> | Cabbage root fly | OPIS All | 69 |
| Arthropod | <i>Rhagoletia obcurva</i> | Sugar cane weevil | OPIS All | 70 |
| Arthropod | <i>Eutetranychus bimaculatus</i> | Citrus brown mite | OPIS All | 71 |
| Arthropod | <i>Synanthribus ruggosus</i> | Red-bellied clewing | OPIS All | 72 |
| Mollusk | <i>Hygromyza cincta</i> | Grasshopper | National CAPS Committee Pest Prioritization Subgroup | 73 |
| Arthropod | <i>Chrysomelids</i> | Pine cone moth | MFAS | 74 |
| Fungus | <i>Elvina</i> spp. | Stem and leaf scale | Western Region 2004 Exotic Pest List | 75 |
| Plant | <i>Glycyrrhiza glabra</i> | Sweet licorice | APHIS Weed Team | 76 |
| Arthropod | <i>Aspidiotus perniciosus</i> | Changsha ash scale | OPIS All | 77 |
| Arthropod | <i>Phoma tracheipha</i> | Mit scales | OPIS All | 78 |
| Plant | <i>Phytolacca</i> | Phytolacca togar | Western Region 2004 Exotic Pest List | 79 |
| Plant | <i>Agave</i> spp. | Milkworm | APHIS Weed Team | 80 |
| Plant | <i>Achras zapota</i> | Great litchi | APHIS Weed Team | 81 |
| Arthropod | <i>Phytomyza americana</i> | Palm borer | Western Region 2004 Exotic Pest List | 82 |
| Mollusk | <i>Aster vulgaris</i> (<i>Aster laticinctus</i>) | Spanish slug | Mollusk Team | 83 |
| Arthropod | <i>Coptodes</i> spp. | Coptodes mites | Western Region 2004 Exotic Pest List | 84 |
| Arthropod | <i>Meloidogyne</i> spp. | Exotic root-knot nematode | OPIS All | 85 |
| Arthropod | <i>Phylloxera</i> spp. | OPIS All | 86 | |
| Virus | <i>Control</i> spp. | Control spp. | Western Region 2004 Exotic Pest List | 87 |
| Plant | <i>Actinostichus</i> | Chrysomelids | APHIS Weed Team | 88 |
| Plant | <i>Rubus strigosus</i> | Great borer | APHIS Weed Team | 89 |
| Arthropod | <i>Tangara</i> spp. | Mango fly | OPIS All | 90 |
| Fungus | <i>Puccinia</i> spp. | Downy mildew of corn | OPIS All | 91 |
| Fungus | <i>Phoma</i> spp. | Philippine sugarcane mealy | OPIS All | 92 |
| Arthropod | <i>Chrysomelids</i> | Downy mildew of corn | OPIS All | 93 |
| Plant | <i>Phytolacca</i> | Chrysomelids | APHIS Weed Team | 94 |
| Nematode | <i>Heterodera</i> spp. | Chrysomelids | OPIS All | 95 |
| Arthropod | <i>Chrysomelids</i> | Chrysomelids | Western Region 2004 Exotic Pest List | 96 |
| Arthropod | <i>Heterodera</i> spp. | Black mite beetle | OPIS All | 97 |
| Arthropod | <i>Lobelia</i> spp. | European grape vine moth | OPIS All | 98 |
| Virus | <i>Cucurbita</i> spp. | OPIS | Western Region 2004 Exotic Pest List | 99 |
| Plant | <i>Juncus</i> spp. | OPIS | APHIS Weed Team | 100 |
| Arthropod | <i>Cyrtolobus</i> | Rum thistle | OPIS All | 101 |
| Fungus | <i>Synchytrium</i> spp. | Brown rot (not <i>Synchytrium</i>) | OPIS All | 102 |
| Fungus | <i>Wetaria</i> spp. | OPIS | APHIS Weed Team | 103 |
| Plant | <i>Synchytrium</i> spp. | Rum thistle | 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. | Chrysomelids | OPIS All | 107 |
| Nematode | <i>Chrysomelids</i> | Red root-knot nematode | OPIS All | 108 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 109 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 110 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 111 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 112 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 113 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 114 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 115 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 116 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 117 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 118 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 119 |
| Nematode | <i>Chrysomelids</i> | Chrysomelids | OPIS All | 120 |

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 |

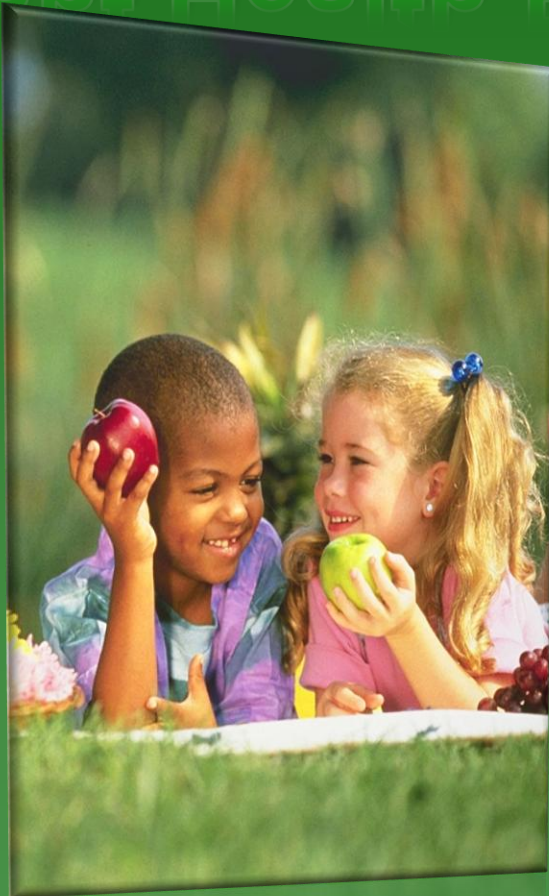
New New Pest Response Guidelines

- 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



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Plant Protection and Quarantine



Thank You!

Questions?