

AQIS Northern Australia Quarantine Strategy Program Target List 2008

Targeted Pests and Diseases of Animals

Pest/Disease	Species/Industry Affected
Surra (<i>Trypanosoma Evansi</i>)	Cattle, horses, buffalo, goats, pigs, sheep, dogs etc
Screw Worm Fly (Z) (<i>Chrysomya bezziana</i>)	Warm blooded animals - all production animals
Japanese Encephalitis (Z)	Horses, pigs, humans
Foot and Mouth Disease	Cattle, sheep, goats, pigs
Bluetongue (Exotic Strains)	Cattle, sheep, goats
Classical Swine Fever	Pigs
Nipah Virus (Z)	Pigs
Aujeszky's Disease	Pigs, sheep, cattle, goats, rodents
Transmissible Gastroenteritis	Pigs
Porcine Reproductive and Respiratory Syndrome	Pigs
Swine Influenza	Pigs
Trichinellosis (Z)	Pigs
<i>Taenia solium</i> (Z)	Pigs
Highly Pathogenic Avian Influenza (Z)	Avian
Velogenic Newcastle Disease	Avian
Highly Virulent Infectious Bursal Disease	Avian
Rabies (Z)	All mammals
<i>Ehrlichia canis</i>	Dogs
<i>Apis dorsata</i> (Giant Asian Bee)	Bees/Honey & pollination
<i>Apis florea</i> (Dwarf honey bee)	Bees/Honey & pollination
<i>Apis cerana</i> (Asian honey bee)	Bees/Honey & pollination
<i>Varroa destructor</i>	Bees/Honey & pollination
<i>Tropilaelaps clareae</i>	Bees/Honey & pollination
Tracheal Mite (<i>Acarapis woodi</i>)	Bees/Honey & pollination

(Z) = zoonoses

Targeted Weed species

Genus species	Common name	Habitat/crops
<i>Asystasia gangetica</i> <i>subsp. micrantha</i>	Chinese violet	Rubber, coffee and other crops, oil-palm plantations, environmental weed.
<i>Blechnum pyramidatum</i>	Browne's blechnum, green shrimp plant, blackweed	Pastures, gardens, disturbed areas, rainforest understoreys.
<i>Austroeupeatorium inulaefolium</i>		Rice, plantations and perennial crops, savannas, swamps, disturbed forests, roadsides.
<i>Bidens biternata</i>	Yellow flowered blackjack, five leaved blackjack	Disturbed and cultivated areas, paddy fields.
<i>Chromolaena odorata</i>	Siam weed	Coconuts, rubber, tobacco, sugar cane, pastures, oil-palm, fruit, maize, forest edges, clearings and river flats.
<i>Mikania micrantha</i>	Mile-a-minute	Rubber, coconut, oil palm, banana, cocoa, forestry crops, pastures, rice.
<i>Cordia curassavica</i>	Black sage	Environmental weed

[AQIS 12 attachment]

<i>Schoenoplectus juncooides</i>	Rock bulrush, hardstem bulrush,	Rice, lowland swamps, open wet places.
<i>Equisetum ramosissimum</i> subsp. <i>debile</i>	Branched scouringrush	Tea, rice, toxic to livestock.
<i>Croton hirtus</i>	Croton	Disturbed land, roadsides, gardens, pastures and cultivated areas. Invades orchards, tea plantations, rice, tobacco, peanuts, sugarcane and vegetable crops.
<i>Mucuna pruriens</i>	Velvet bean, cow itch	Grasslands, bushland, riverine forests, abandoned cultivation
<i>Clerodendrum chinense</i> *	Stickbush, glory bower, Honolulu rose, Spanish jasmine	Disturbed forests, roadsides, gardens, pastures, plantations, environmental weed.
<i>Leucas aspera</i>	Pansi-pansi, Feng chao cao	Fields, dandy grasslands, wasteland, roadsides, overgrazed areas.
<i>Limnocharis flava</i>	Sawah-lettuce, velvetleaf, yellow bur-head	Wetlands, fresh water pools, rice paddies, irrigation ditches, environmental weed.
<i>Rotala indica</i>	Indian toothcup	Rice fields, river banks, ditches, waterlogged grasslands.
<i>Clidemia hirta</i>	Koster's curse, soap bush	Cultivated areas, pastures, plantations and disturbed areas.
<i>Miconia calvescens</i>	Miconia, velvet tree	Coastland, disturbed areas, natural forests, planted forests, riparian zones, scrub/shrublands, urban areas, wetlands.
<i>Neptunia plena</i>	Water dead and awake, water sensitive	Wetlands, swamps and marshes, water-logged or flooded areas.
<i>Boerhavia erecta</i>	Erect tar vine	Maize and annual crops, disturbed forests, pastures, cultivated land, roadsides and foreshores.
<i>Aeginetia indica</i>	Ye gu	Parasitizes bamboo shoots and crops such as rice, maize and sugarcane. Grassy lowlands, wet, swampy ground, forests, roadsides
<i>Piper aduncum</i>	Spiked pepper, false kava	Kava crops, grazing land, abandoned gardens.
<i>Digitaria insularis</i> (Syn. <i>Triachne insularis</i> (L.) Nees	Sour grass	Soybean, plum, guarana, rubber, passionfruit, maize, pineapple, cotton, pastures, rangelands, fallow land.
<i>Echinochloa glabrescens</i>	Barnyard grass	Rice, maize, wetlands, fallow ground.
<i>Eragrostis japonica</i>	Japanese lovegrass, pond lovegrass	Arable lands and rice fields.

<i>Imperata conferta</i>	Cogongrass, lalang jawa	Coconut, roadsides, hillsides, streams and trails in dense or open forest.
<i>Leptochloa chinensis</i>	Asian sprangletop, Chinese sprangletop, red sprangletop	Rice, sugarcane, vegetables, cotton, corn.
<i>Sacciolepis interrupta*</i>		Rice, irrigation channels and wetlands
<i>Paederia foetida</i>	Skunk vine	Sugarcane, pastures, secondary forests, waste places and cultivated land
<i>Salvinia cucullata</i>	Chok huu nuu	Slow-moving freshwater bodies, rice fields, shallow pools.
<i>Limnophila sessiliflora</i>	Ambulia, Asian marshweed, shi long wei	Ponds, swamps, rice fields, wet places along streams.
<i>Striga asiatica</i>	Asiatic witchweed, red witchweed	Maize, millet, rice, sorghum, sugarcane, sunflower, tomatoes, some legumes

Additional Targeted Weed Genera

Family	Genus
Amaranthaceae	<i>Alternanthera</i> spp. (not previously recorded in Australia)
Asteraceae	<i>Bidens</i> spp. (not previously recorded in Australia)
Asteraceae	<i>Blumea</i> spp. (non-native and not previously recorded in Australia)
Asteraceae	<i>Eupatorium</i> spp.
Asteraceae	<i>Mikania</i> spp.
Cyperaceae	<i>Cyperus</i> spp. (non-native and not previously recorded in Australia)
Equisetaceae	<i>Equisetum</i> spp.
Fabaceae	<i>Crotalaria</i> spp. (non-native and not previously recorded in Australia)
Melastomataceae	<i>Miconia</i> spp.
Mimosaceae	<i>Acacia</i> spp. (non-native with spines or thorns)
Mimosaceae	<i>Mimosa</i> spp. (not previously recorded in Australia)
Mimosaceae	<i>Prosopis</i> spp. with spines or thorns
Rhamnaceae	<i>Ziziphus</i> spp. (non-native and not previously recorded in Australia)
Salviniaceae	<i>Salvinia</i> spp. (not previously recorded in Australia)

Scrophulariaceae	<i>Striga</i> spp. (non-native)
Trapaceae	<i>Trapa</i> spp.

Targeted invertebrates

Species	Common Name	Host
<i>Adoretus compressus</i>	Rose beetle	Maize, Sorghum, Sugarcane, cocoa
<i>Agonoxena argaula</i>	Coconut flat moth	Palms
<i>Agrotis segetum</i>	Turnip moth	Polyphagous, incl. Grapes, Cucurbits, Maize, cotton
<i>Aleurocanthus woglumi</i>	Citrus blackfly	Citrus, Mango, Palms, Banana
<i>Aleurolobus barodensis*</i>	Sugarcane whitefly	Sugarcane
<i>Amblypelta cocophaga</i>	Coconut bug	Coconut, Mango, <i>Eucalyptus</i> spp.
<i>Amrasca biguttula biguttula</i>	Indian cotton leafhopper	Cotton, Sorghum, maize
<i>Artona catoxantha</i>	Coconut leaf moth	Coconut, sugarcane
<i>Asterolecanium pustulans</i>	Oleander pit scale	Highly polyphagous, incl. Cotton, Grape, coffee
<i>Aulacaspis yasumatsui</i>	Asian Cycad Scale	Sago Palm, Queen Sago, King Sago, Japanese Sago
<i>Aulacophora indica</i>	Leaf beetle	Cucurbits
<i>Batocera rubus</i>	Branch borer	Mango
<i>Bruchophagus muli</i>	Gall wasp	Lime
<i>Ceratovacuna lanigera</i>	Sugarcane woolly aphid	Sugarcane
<i>Chilo auricilius</i>	Sugarcane internode borer	Sugarcane, rice
<i>Chilo infuscatellus</i>	Shoot borer	Sugarcane, Sorghum, Rice
<i>Chilo partellus</i>	Spotted stalk borer	Sugarcane, Maize, Rice
<i>Chilo polychrysus</i>	Dark headed rice borer	Sugarcane, Maize, Rice
<i>Chilo sacchariphagus</i>	Spotted borer	Sugarcane, maize, Rice, sorghum
<i>Chilo terrenellus</i>	Stem borer	Sugarcane
<i>Chlumetia transversa</i>	Mango shoot borer	Mango

<i>Chondracris rosea</i>	Cotton or citrus locust	Cotton, banana, Sugarcane, Rice, Maize
<i>Citripestis eutrapphera</i>	Mango fruit borer	Mango
<i>Citripestis sagittiferella</i>	Citrus fruit borer	Citrus
<i>Coccus celatus</i>	Wax scale or coffee green scale	Citrus, coffee, <i>Syzygium</i> spp., <i>Casuarina</i> spp.
<i>Coptotermes formosanus</i>	Termite	
<i>Darna trima</i>	Nettle caterpillar	Palms
<i>Deanolis sublimbalis*</i>	Red banded mango caterpillar	Mango
<i>Deporaus marginatus</i>	Mango leaf cutting weevil	Mango
<i>Diaphorina citri*</i>	Asian citrus psylla	Citrus
<i>Dysmicoccus neobrevipes</i>	Pineapple mealy bug	Cucurbits, banana
<i>Erionota thrax*</i>	Banana skipper	Banana
<i>Eumetopina flavipes</i>	Island sugarcane planthopper	Sugarcane
<i>Helopeltis</i> spp.	Mirids	Highly polyphagous, incl. Mango, Coffee, avocado, <i>Eucalyptus</i> spp
<i>Henosepilachna pusullanima</i>		Cucurbits
<i>Hindola fulva</i>	Tube-building Spittlebug	Vector (Sumatra disease of cloves)
<i>Hindola striata</i>	Tube-building Spittlebug	Vector (Sumatra disease of cloves)
<i>Homalodisca vitripennis</i>	Glassy-winged sharp shooter	Vector (Pierce's disease)
<i>Hypomeces squamosus</i>	Gold dust weevil	Maize, Citrus, Cotton, Rice, sugarcane
<i>Hypothenemus hampei</i>	Coffee berry borer	Coffee
<i>Liriomyza huibdoebrensis</i>	Pea leaf miner	Highly polyphagous incl. Cucurbits, Cotton, brassicas
<i>Liriomyza sativae</i>	Cabbage leafminer	Highly polyphagous incl. Cucurbits, Cotton, brassicas
<i>Lymantria ninayi</i>	Tussock moth	Conifers
<i>Odoiporus longicollis</i>	Banana stem weevil	Bananas, plantains
<i>Orthaga euadrusalis</i>	Mango leaf webber	Mango
<i>Oryctes rhinoceros</i>	Rhinoceros beetle	Palms
<i>Oxymagis horni</i>	Lonicorn beetle	<i>Eucalyptus</i> spp.
<i>Parabemisia myricae</i>	Bayberry whitefly	Polyphagous incl. Grapes, cucurbits
<i>Parasa lepida</i>	Blue-striped nettle	Mango, Cotton, Bananas, palms

	grub	
<i>Parlatoria ziziphi</i>	Black parlatoria scale	Citrus, Coconut, mango
<i>Perkinsiella vastatrix</i>	Sugarcane planthopper	Sugarcane, Sorghum, maize
<i>Perkinsiella vitiensis</i>	Sugarcane planthopper	Sugarcane
<i>Phyllophaga helleri</i>	June beetle	Maize, Rice, Sugarcane, sorghum
<i>Planococcus lilacinus</i>	Coffee mealy bug	Mango, Citrus, coffee
<i>Prays endocarpa</i>	Citrus pock caterpillar	Citrus
<i>Procontarinia matteiana</i>	Mango leaf-gall midge	Mango
<i>Pyrilla perpusilla</i>	Sugarcane leaf hopper	Sugarcane, sorghum
<i>Rastrococcus spinosus</i>	Mango mealy bug	Mango, Citrus, Coffee
<i>Rastrococcus iceryoides</i>	Mango mealy bug	Mango, Grapes, Cucurbits, cotton, legumes, acacias
<i>Rastrococcus invadens</i>	Mango mealy bug	Mango, Citrus, Coffee
<i>Rhynchophorus bilineatus</i>	Black palm weevil	Coconut, cocoa
<i>Rhytidodera simulans</i>	Mango branch borer	Mango
<i>Scapanes australis</i>	Rhinoceros beetle	Coconut, sugarcane
<i>Scirophaga excerptalis</i>	Sugarcane top borer	Sugarcane
<i>Scirophaga nivella</i>	Top borer	Sugarcane, rice
<i>Sesamia grisescens*</i>	Pink stalk borer	Sugarcane
<i>Sesamia inferens</i>	Purple stem borer	Grasses incl. Sugarcane, Cotton, Maize, sorghum, rice
<i>Setora nitens</i>	Nettle grub	Coconut, Banana, Citrus, cocoa
<i>Stauropus alternus</i>	Lobster caterpillar	Acacias, Mango, Coffee, tea
<i>Sternochetus frigidus*</i>	Mango pulp weevil	Mango
<i>Tetramoera schistaceana</i>	Grey borer	Sugarcane, Gramineae
<i>Thrips flavus</i>	Flower thrips	Highly polyphagous incl. Cucurbits, brassicas
<i>Trichoplusia ni</i>	Cabbage looper	Highly polyphagous incl. Cucurbits, Cotton, Maize, sorghum
<i>Xylosandrus compactus</i>	Black twig borer	Highly polyphagous incl. Mango, Avocado, cashew
<i>Yamatotettix flavovittatus</i>	Leafhopper vector	Vector of sugarcane white leaf phytoplasma Sugarcane
<i>Zeuzera coffeae</i>	Red borer	Highly polyphagous incl. Grapes, Cotton, <i>Eucalyptus</i> spp., citrus, coffee
<i>Tetranychus piercei</i>	Red spider mite	Cotton, bananas
<i>Achatina fulica</i>	Giant African snail	Major pest of vegetable and horticultural crops.
<i>Apis cerana</i>	Asian honeybee, Eastern hive bee	

<i>Apis Dorsata</i>	Giant honeybee	Vector <i>Tropilaelaps.clareae</i>
<i>Apis Florea</i>	Dwarf honeybee	
<i>Acarapis woodi</i>	Honey bee tracheal mite	<i>Apis mellifera</i>
<i>Varroa destructor</i>	Mite	<i>apis mellifera</i>
<i>Tropilaelaps clareae</i>	Mite	<i>apis mellifera</i>
<i>Culicoides orientalis</i>	Disease vector (Bluetongue)	
<i>Culicoides nudipalpis</i>	Disease vector (Bluetongue)	
<i>Anoplolepis gracilipes</i>	Yellow crazy ant	
<i>Cryptotermes dudleyi</i>	Termite	Dry wood
<i>Aedes albopictus</i>	Mosquito	Vector (Human disease)
<i>Heterobostrychus aequalis</i>	Oriental wood borer	Polyphagous
<i>Quadrastichus erythrinea</i>	Erythrina gall wasp	

Targeted Fruit Flies

Species	Common Name	Nearest Known Location
<i>Bactrocera atrisetosa</i>		PNG (Central Province)
<i>Bactrocera carambolae</i>	Carambola fruit fly	Sumbawa, Indonesia
<i>Bactrocera correcta</i>	Guava fruit fly	Thailand
<i>Bactrocera cucurbitae</i>	Melon fly	PNG (Daru, Western Province)
<i>Bactrocera decipiens</i>		PNG (New Britain)
<i>Bactrocera dorsalis</i> *	Oriental fruit fly	Vietnam
<i>Bactrocera kirki</i>		Tonga
<i>Bactrocera latifrons</i>	Malaysian fruit fly	Malaysia
<i>Bactrocera occipitalis</i>		Sabah, Malaysia
<i>Bactrocera papayae</i> *	Asian papaya fruit fly	PNG (Western Province) & northern Torres Strait
<i>Bactrocera passiflorae</i>	Fijian fruit fly	Fiji
<i>Bactrocera philippinensis</i> *		Philippines
<i>Bactrocera tau</i>		Java, Indonesia
<i>Bactrocera trilineola</i>		Vanuatu
<i>Bactrocera trivialis</i>	New Guinea Fruit fly	PNG (Western Province)
<i>Bactrocera</i>	Breadfruit fly	Torres Strait ¹ , PNG, Indonesia

<i>umbrosa</i>		
<i>Bactrocera xanthodes</i>		Fiji
<i>Bactrocera zonata</i>	Peach fruit fly	Thailand

NAQS Target List for Plant Pathogens – April 2008

Diseases caused by Fungi		
Pathogen	Common Name	Commodity
<i>Cercospora zea-maydis</i>	Grey leaf spot	Maize
<i>Cladosporium cucumerinum</i>	Cucurbit scab	Cucurbits
<i>Claviceps sorghi</i>	Ergot	Sorghum
<i>Cryphonectria cubensis</i>	Cryphonectria canker	Eucalypts & Cloves
<i>Elsinoë fawcettii</i>	Common citrus scab, sour orange scab	Citrus
<i>Fusarium oxysporum f. sp. cubense 'tropical race 4'</i>	Panama disease of bananas	Banana
<i>Fusarium oxysporum f. sp. vasinfectum</i>	Rootrot, fusariosis	Cotton
<i>Guignardia bidwellii</i>	Black rot of grapevine	Grape
<i>Guignardia musae*</i>	Banana freckle (on clones within the Cavendish sub-group)	Banana
<i>Hemileia vastatrix</i>	Coffee rust	Coffee
<i>Magnaporthe grisea</i>	Rice blast disease	Rice
<i>Monosporascus cannonballus</i>	Monosporascus root rot and vine decline	Cucurbits
<i>Mycosphaerella eumusae</i>	Eumusae leaf spot	Banana
<i>Mycosphaerella fijiensis*</i>	Black Sigatoka	Banana
<i>Oidium tingitaninum, O. citri</i>	Citrus powdery mildew	Citrus
<i>Phakopsora euvitis</i>	Grapevine rust	Grapes
<i>Puccinia heliconiae</i>		
<i>Puccinia psidii</i>	Eucalyptus rust, Guava rust	Genera include eucalypts, syzygiums, melaleucas, callistemons, guavas, jaboticaba
<i>Stagonospora sacchari*</i>	Leaf scorch of sugarcane	Sugarcane
<i>Subramanianospora vesiculosa</i>	Casuarina blister bark	Genera within the Casuarinaceae
<i>Synchytrium phaseoli</i>	False rust, wart	Legumes
<i>Tilletia barclayana</i>	Kernel smut	Rice
Diseases caused Oomycetes		
Pathogen	Common Name	Commodity
<i>Peronosclerospora philippinensis</i>	Philippine downy mildew of maize	Maize, sorghum

<i>Peronosclerospora sacchari</i> *	Downy mildew of sugarcane	Sugarcane, sorghum, maize
<i>Peronosclerospora sorghi</i>	Downy mildew of sorghum	Sorghum, maize
<i>Phytophthora colocasiae</i>	Taro leaf blight	Taro
<i>Phytophthora infestans</i>	Potato late blight	Potato
<i>Phytophthora ramorum</i>	Sudden oak death	Genera include <i>Myrtaceae</i> (eucalypts), <i>Quercus</i> (oaks), <i>Castanopsis</i> , <i>Lithocarpus</i> , <i>Fagus</i> , <i>Nothofagus</i> , <i>Rhododendron</i> .
<i>Pythium carolinianum</i>	Corm and root rot	Taro, Cotton

Diseases caused by Bacteria

Pathogen	Common Name	Commodity
Banana blood disease bacterium	Blood disease of bananas	Banana
' <i>Candidatus Liberibacter asiaticus</i> ' *	Huanglongbing , Citrus greening,	Citrus
<i>Pantoea stewartii</i> subsp. <i>stewartii</i>	Stewarts disease, bacterial wilt of maize	Maize
<i>Pseudomonas syzygii</i>	Sumatra disease	Eucalypts, syzygiums
<i>R. solanacearum</i> race 2 biovar 1 *	Moko disease of bananas	Banana
<i>R. solanacearum</i> race 2A biovar 1	Bugtok disease of bananas	Banana
<i>Ralstonia solanacearum</i> race 1 of <i>Eucalyptus</i> spp.	Bacterial wilt	Eucalypts
<i>Xanthomonas albilineans</i>	Leaf scald of sugarcane, maize etc	Sugarcane, maize
<i>Xanthomonas citri</i> subsp. <i>citri</i>	Citrus canker	Citrus
<i>Xanthomonas citri</i> subsp. <i>malvacearum</i>	Bacterial blight	Cotton

Diseases caused by Viruses

Pathogen	Common Name	Commodity
Banana bract mosaic virus (genus <i>Potyvirus</i>)	Banana bract mosaic	Banana
Banana bunchy top virus (genus <i>Babuvirus</i>)	Banana bunchy top	Banana
Bean common mosaic virus (genus <i>Potyvirus</i>), peanut stripe strain	Peanut stripe	Peanuts
Citrus tristeza virus (genus <i>Closterovirus</i>)	Citrus tristeza	Citrus
Cotton leaf curl bigeminivirus	Cotton leaf curl	Cotton
Fiji disease virus (genus <i>Fijivirus</i>)	Fiji disease of sugarcane	Sugarcane, sorghum
Maize dwarf mosaic virus (genus <i>Potyvirus</i>) Strains: -MDMV-A, MDMV-D, MDMV-E, MDMV-F	Maize dwarf mosaic	Maize, sorghum, sugarcane
Papaya ringspot virus type P (genus <i>Potyvirus</i>)	Papaya ringspot virus, PRSV	<i>Carica</i> spp. (papaya) and cucurbits
Rice tungro bacilliform virus (genus <i>Tungrovirus</i>) and Rice tungro spherical virus (genus		Rice

<i>Waikavirus</i>)		
Sorghum mosaic virus (genus <i>Potyvirus</i>)	Sorghum mosaic	Sorghum, maize
Sugarcane mosaic virus (genus <i>Potyvirus</i>)*	Sugarcane mosaic	Sugarcane

Diseases caused by Viroids		
Pathogen	Common Name	Commodity
<i>Coconut cadang-cadang viroid</i>	Cadang cadang	Palms
Diseases caused by Phytoplasmas		
Pathogen	Common Name	Commodity
Lethal yellows phytoplasma	Lethal yellows	Palms
Sugarcane whiteleaf phytoplasma	Sugarcane whiteleaf	Sugarcane
Diseases of Unknown Etiology		
Pathogen	Common Name	Commodity
Ramu stunt*	Ramu stunt of sugarcane	Sugarcane