**PANAMA**

**MINISTRY OF AGRICULTURAL DEVELOPMENT]
NATIONAL DIRECTION OF PLANT HEALTH
SPECIFIC LIST OF REGULATED PEST**

**List 1.              Specific list of Quarantine Pests A1.  PANAMA**

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|  **PREFERRED NAME** | **COMMON GROUP** | **REGULATED ARTICLES** |
| *Agraulis vanillae* (Linnaeus) | Insect | Fresh Banana Passionfruit *(Passiflora mollissima) and/or* Granadilla *(Passiflora edulis)* for consumption. |
| *Aleurotuberculatus aucubae* (Kuwana) | Insect | Fresh Tangerine *(Citrus reticulata)* for consumption  |
| *Alphitobius laevigatus* (Fabricius) | Insect | Fruit or nuts, fresh or dried, even without shell, for consumption  |
| *Anastrepha bistrigata* (Bezzi) | Insect | Fresh Mango (*Mangifera indica*) for consumption  |
| *Anastrepha distintcta (*Greene) | Insect | Fresh Mango (*Mangifera indica*) for consumption  |
| *Anastrepha pseudoforllela* (Loew) | Insect | Fresh Mango (*Mangifera indica*) for consumption  |
| *Anastrepha sororcula* (Zucchi) | Insect | Fresh Mango (*Mangifera indica*) for consumption  |
| *Anastrepha suspensa* (Loew) | Insect | A variety of fresh fruits like:Guava (*Psidium guajava,* L.) for consumption. |
| *Aeneolamia contigua* Walker | Insect | Rice *(Oryza sativa* L.) *for consumption* |
| *Anasa tristis (*De Geer) | Insect | Cucurbits and *Zea mays* L. |
| *Anomala cupripes* (Hope) | Insect | Black Eye Beans (Vigna unguiculata) in dry grains, for consumption  |
| *Anomala pallida (*Fabricius) | Insect | Black Eye Beans (Vigna unguiculata) in dry grains, for consumption |
| *Anoplophora glabripennis (*Motschulsky) | Insect | Wood |
| *Anthonomus signatus (*Say) | Insect | *Fragaria x ananassa*; fresh raspberries *(Rubus idaeus L*.), for consumption and for planting |
| *Apate monachus (*Fabricius) | Insect | Fruit and Forest. Dry cocoa (*Theobroma cacao*), for consumption. |
| *Aphis fabae (*Scopoli) | Insect | Fresh melon (*Cucumis melo)*, for consumption  |
| *Aonidiella citrina* (Craw) | Insect | Propagation material: *Citrus spp*. Like fresh oranges (*Citrus sinensis*), for consumption  |
| *Aonidomytilus albus* (Cockerell) | Insect | Manioc Roots and yucca (*Manihot esculenta*), for consumption. |
| *Aspidiotus nerii (*Bouché) | Insect | Grapes (*Vitis vinifera* L.), for consumption  |
| *Bactrocera carambolae (*Drew & Hancock) | Insect | Fresh Mangos (*Mangifera indica*), for consumption |
| *Bactrocera correcta* (Bezzi) | Insect | Longan (Dimocarpus longan = Euphoria longan), for consumption. |
| *Bactrocera dorsalis* (Hendel) | Insect | A variety of fresh fruits:*Anacardium occidentale, Carica papaya, Citrus reticulata, cucumis melo, cucumis sativus, manguifera indica musa, Persea americana;* for consumption |
| *Bruchus pisorum* (Linnaeus) | Insect | Green and yellow peas *(Pisum sativum*) in dry grains, for consumption  |
| *Bryobia rubrioculus (*Scheuten) | Insect | Cherries *(Prunus avium*), for consumption  |
| *Cadra cautella* ( Walker) | Insect | Fresh or dry nuts, with or without shell, for consumption. |
| *Calliteara horsfieldii (*Saunders) | Insect | Dry cashew fruits (*Anacardium occidentale L.)*, for consumption |
| *Callosobruchus analis* (Fabricius) | Insect | *Phaseolus sp.; Vigna sp.* for consumption |
| *Callosobruchus chinensis* (Linnaeus) | Insect | Dry guandú grains (*Cajanus cajan*), for consumption  |
| *Callosobruchus maculatus* (Fabricius) | Insect | Dry grains of Black eye beans *(Vigna unguiculata)*, for consumption. |
| *Ceroplastes rubens* (Maskell,) | Insect | Kiwi propagation material and of various species, cuttings, plants and other |
| *Ceroplastes rusci* (Linnaeus) | Insect | Propagation material of *Actinia chinense*, *Citrus*, Anonas A variety of fresh fruits for consumption |
| *Ceroplastes sinensis* (Del Guercio) | Insect | polyphagous |
| *Chaetanaphothrips orchidii* (Moulton) | Insect | Orchid seedlings for planting |
| *Chaetocnema confinis* (Crotch) | Insect | Fresh or refrigerated batatas and sweet potatoes (*Ipomoea batatas)*, for consumption. |
| *Chaetosiphon fragaefolii (*Cockerell) | Insect | Fresh strawberries (*Fragaria ananassa*), forconsumption. |
| *Choristoneura fumiferana* (Clemens) | Insect | Fresh ornamental Christmas Trees foliage ( *Abies spp)*  |
| *Chrysodeixis includens (*Walker) | Insect | Coles, including:Cabbages, cauliflower, kale. Rutabaga and similar edible products of the Brassica genre. fresh for consumption  |
| *Conogethes punctiferalis* (Guenée) | Insect |  Dry Turmeric (*Curcuma longa* L.), neither crushed nor ground, for consumption  |
| *Conotrachelus aguacatae (*Barber) | Insect | Fresh avocados (*Persea americana*), forconsumption. |
| *Contarinia maculipennis (*Felt) | Insect | Hibiscus, Orchid, Jasmine and *Lycopersicon esculentum* Propagation material.Flowers and fresh foliage for garnish. |
| *Corcyra cephalonica* (Stainton) | Insect | Rice (*Oryza sativa* L.) in dry grains, for consumption. |
| *Cryptolestes ferrugineus* (Stephens) | Insect | Dry spices, neither crushed nor ground, for consumption. |
| *Cydia latiferreana* (Walsingham) | Insect | Fresh or dried, shelled and unshelled nuts for consumption |
| *Cydia pomonella* (Linnaeus) | Insect | Fresh Pear (*Pyrus communis L*.), for consumption  |
| *Delia antiqua* (Meigen) | Insect | Fresh or refrigerated onions *(Allium cepa*), for consumption  |
| *Delia florilega (*Zetterstedt) | Insect | *Allium cepa L. , Lycopersicon esculentum , Solanum tuberosum L. ,Zea mays L.* for consumption |
| *Delia platura* (Meigen) | Insect | Beans, like *Phaseolus sp. o Vigna angularis* of dried pods, for consumption. |
| *Delia radicum (*Linnaeus) | Insect | Fresh broccoli, and *Brassica oleracea var. botrytis subvar. cymosa* for consumption  |
| *Dendroctonus frontalis (*Zimmermann) | Insect | Wood |
| *Dendroctonus pseudotsugae* (Hopkins) | Insect | Wood |
| *Diaphania indica* (Saunders) | Insect | Fresh or refrigerated Pumpkins and gourds,( Zuchini (*Cucurbita pepo)*, for consumption  |
| *Diaspidiotus ostreaeformis* (Curtis, Borchsenius) | Insect | Propagation material: various species, cuttings, and other plants.Fresh Cherries (*Prunus avium )*, for consumption  |
| *Diaspidiotus perniciosus (*Comstock Cockerell, Danzig) | Insect | Fresh flowers and foliage (for garnish)Fresh Cherries (*Prunus avium*), for consumption. |
| *Dinoderus minutus* (Fabricius) | Insect | Wood and bamboo braids (Bambusa vulgaris)  Fresh or refrigerated Bamboo shoots (*Bambusa vulgaris*), for consumption  |
| *Drosophila simulans (*Sturtevant) | Insect | Fresh Lemons (*Citrus limon*), for consumption  |
| *Dyscinetus morator* (Fabricius) | Insect | Fresh or refrigerated carrots (*Daucus carota* L.), for consumption  |
| *Ecdytolopha aurantianum* (Lima) | Insect | Fresh Lemons (*Citrus limon*), for consumption  |
| *Epitrix tuberis* (Gentner) | Insect | Fresh or refrigerated Potato (*Solanum tuberosum* L.), for consumption  |
| *Ephestia elutella (*Hübner) | Insect | Plants and parts of plants(except seeds and fruits) dried, whether cut, broken or ground, for medicinal use. |
| *Eriosoma lanigerum* (Hausmann) | Insect | Fresh apple (*Malus domestica*); Pear (*Pyrus communis*) y Nashi pear (*Pyrus pyrifolia*), for consumption  |
| *Erosomyia manginferae* Felt  |   | Fresh Mango (*Mangifera indica*), for consumption  |
| *Eriosoma lanigerum (Hausmann)* | Insect | Fresh apple (*Malus domestica*); Pear (*Pyrus communis*) y Nashi pear (*Pyrus pyrifolia*), for consumption |
| *Frankliniella fusca (*Hinds) | Insect | polyphagous |
| *Frankliniella occidentalis* (Pergande*)* | Insect | Fresh flowers and foliage of Euphorbias, Gerberas, Orchids for garnish |
| *Frankliniella schultzei (*Trybom) | Insect | Fresh flowers and foliage. , Orchids for garnish |
| *Grapholita molesta* (Busck) | Insect | Fresh Cherry fruits (*Prunus avium)*, for consumption. |
| *Hellula phidilealis* (Walker) | Insect | Coles, including:Cabbages, cauliflower, kale. Rutabaga and similar edible products of the Brassica genre. fresh for consumption |
| *Hemiberlesia rapax* (Comstock) | Insect | Fresh Kiwis (*Actinidia chinensis*), for consumption.  |
| *Hercinothrips femoralis* (Reuter) | Insect | Propagation material: various species, cuttings, and other plantsFlowers and fresh folliage for garnish  |
| *Horiola picta* (Fabricius) | Insect | Fresh Mangos (*Mangifera indica*), for consumption. |
| *Hylotrupes bajulus (*Linnaeus) | Insect | *Pinus sylvestris* wood |
| *Hypera postica (*Gyllenhal) | Insect | Big and small beans, (Vicia faba var. minor; *Vicia faba var. major Vicia faba var. equina)* in dry grains, for consumption. |
| *Hyperomyzus lactucae* (Linnaeus) | Insect | Fresh or refrigerated Lettuce (*Lactuca sativa)* for consumption  |
| *Icerya aegyptiaca (*Douglas) | Insect | Fresh apples (*Malus domestica*), for consumption. |
| *Junonia coenia* (Hübner) | Insect | Fresh or refrigerated batatas and sweet potatoes (*Ipomoea batatas)*, for consumption. |
| *Lampides boeticus* (Linnaeus) | Insect | Guandú (*Cajanus cajan*) in dry grains, for consumption. |
| *Lecanoideus floccissimus (*Martin, Hernandez-Suarez & Carnero) | Insect | Fresh Mangos (Mangifera indica), for consumption. |
| *Lepidosaphes gloverii (*Packard) | Insect | Fresh citrus for consumption Fresh folliage Crotón (*Codiaeum variegatum)*  |
| *Lepidosaphes ulmi (*Linnaeus) | Insect | Propagation material of *Ficus carica L. ;* Fruits of *Vaccinum myrtillus ; Malus domestica,* fresh for consumption |
| *Leptinotarsa decemlineata* (Say) | Insect | Fresh or refrigerated Potato tubers *(Solanum tuberosum* L.), for consumption. |
| *Lissorhoptrus oryzophilus (*Kuschel) | Insect | *Oryza sativa L*.; Poaceae.  |
| *Listroderes costirostris* (Schönherr) | Insect | Fresh Coriander/cilantro vegetables (*Coriandrum sativum*), parsley (*Pelroselinum crispum*) for consumption |
| *Listronotus bonariensis* (Kuschel) | Insect |  Poaceae.  |
| *Liriomyza brassicae* (Riley) | Insect | Fresh and refrigerated Coles, Brussels sprouts (*Brassica olearacea var. Gemmifera*) and Coles Lombardas (*Brassica spp.)*, for consumption  |
| *Locusta migratoria (*Linnaeus) | Insect | Beans (*Phaseolus sp. o Vigna angulares),* shelled and unshelled for consumption. |
|  *Lygus lineolaris (*Palisot de Beauvois) | Insect | Flowers and fresh folliage for garnishFresh asparagus (*Asforgus officinalis* L.), for consumption  |
| *Lymantria dispar (*Linnaeus) | Insect | Fresh folliage of (Christmas trees) Abies spp. for garnish  |
| *Maconellicoccus hirsutus* (Green*)* | Insect | Propagation material: various species, cuttings, and other plants.Fresh fruits,vegetables; *Passiflora mollisima* and/or Granadillas (*Passiflora edulis*), for consumption Flowers and fresh folliage for garnish |
| *Macrosiphum rosae* (Linnaeus) | Insect | Flowers and fresh folliage for garnish |
| *Medythia suturalis (*Motschulsky) | Insect | Beans (Vigna *mungo)* in dry grains, for consumption. |
| *Melittia cucurbitae (*Harris) | Insect | Fresh Grapes *(Vitis vinifera* L.), for consumption. |
| *Metcalfa pruinosa* (Say) | Insect | Fresh apples (*Malus domestica*), for consumption  |
| *Microcephalothrips abdominalis (*D.L. Crawford) | Insect | Fresh or refrigerated Cucumber (*Cucumis sativus L.)*, for consumption. |
| *Micrutalis malleifera (*Fowler) | Insect | Fresh or refrigerated Tomatoes (*Lycopersicon esculentum*), for consumption. |
| *Mimegralla coeruleifrons* (Macquart) | Insect | Turmeric (*Curcuma longa*) for consumption. |
| *Monochamus carolinensis (*Olivier) | Insect | *Pinus taeda* Wood. |
| *Monochamus scutellatus (*Say) | Insect | *Tabebulia spp* wood*, Swietenia sp,*  |
| *Mylabris phalerata (*Pallas) | Insect | Guandu in dry grains (*Cajanus cajan*), for consumption  |
| *Naupactus xanthographus* (Germar*)* | Insect | Fresh Avocados (*Persea americana)*, for consumption. |
| *Nemorimyza maculosa (*Malloch*)* | Insect | Aster flowers and fresh folliage for garnish |
| *Nesidiocoris tenuis* (Reuter) | Insect | Fresh or refrigerated Tomatoes (*Lycopersicon esculentum*), for consumption. |
| *Omoplata marginata (L.)* | Insect | Guandu in dry grains *(Cajanus cajan*), for consumption. |
| *Opogona sacchari (*Bojer) | Insect | Flowers and fresh folliage for garnish |
| *Orgyia postica (*Walker ) | Insect | Propagation material: Orchids: Orchidaceae and fresh Durio (*Durio zibethinus*), for consumption. |
| *Ostrinia nubilalis (*Hübner) | Insect | Beans (*Phaseolus sp*. o *Vigna angulares*), of dry grains and unshelled, for consumption. |
| *Pantomorus cervinus (*Boheman) | Insect | Fresh Grapefruit (*Citrus x fordisi*), for consumption  |
| *Papilio polyxenes* (Fabricius) | Insect | Wild Carrots (*Daucus carota*), *Foeniculum vulgare, Pimpinella anisum , Illicium anisatu) for consumption* |
| *Papilio zelicaon* (Lucas) | Insect | Fresh fennel (*Foeniculum vulgare)*, for consumption. |
| *Forpoynx stagnalis (*Zeller ) | Insect | semi bleached or bleached Rice (Oryza sativa L.) whether or not polished or glazed, for consumption  |
| *Forbemisia myricae (*Kuwana) | Insect | Fresh Cherries (*Prunus avium* ), for consumption  |
| *Forcoccus marginatus (*Williams & Granara de Willink) | Insect | Dry roselle (*Hibiscus sabdariffa*) for consumption  |
| *Parlatoria pergandii (*Comstock) | Insect | Propagation material of Fresh citrus (*Citrus* spp. ), for consumption  |
| *Parthenolecanium corni (*Bouché ) | Insect | *Corylus avellana L*. flowers and fresh folliage for garnish |
| *Parthenolecanium persicae (*Fabricius) | Insect | Propagation material:Fresh grapes *(Vitis vinifera* L.), for consumption  |
| *Peridroma saucia* (Hübner*)* | Insect | *Salix matsudana* flowers and fresh folliage for garnish. FreshBueberries *(Vaccinium myrtillus)*, for consumption  |
| *Phyllotreta striolata (*Fabricius) | Insect | Fresh Broccoli, and *Brassica oleracea var. botrytis subvar. cymosa* for consumption  |
| *Pissodes nemorensis* (Germar) | Insect | Wood |
| *Pissodes strobi* (Peck) | Insect | Christmas tree of Abies balsamea for garnish. |
| *Piezodorus guildinii* (Westwood) | Insect | Fresh peas, *(Pisum sativum)*, for consumption  |
| *Platynota stultana (*Walsingham) | Insect | Fresh or refrigerated celery (*Apium graveolens*), for consumption. |
| *Prays citri (*Millière) | Insect | Propagation materialFresh Lemon (*Citrus limon*), for consumption. |
| *Premnotrypes latithorax (*Pierce) | Insect | Fresh potatoes (*Solanum tuberosum* L.), for consumption. |
| *Premnotrypes vorax (*Hustache*)* | Insect | Fresh potatoes (*Solanum tuberosum* L.) for consumption. |
| *Pseudaulacaspis cockerelli (*Cooley) | Insect | Propagation material: fruit trees and palms: Palmae. Fresh Mango (*Mangifera indica*), for consumption. |
| *Pseudococcus calceolariae (*Maskell) | Insect | Propagation material: fruit trees and palms: PalmaeFresh Pears (*Pyrus communis L*.), for consumption. |
| *Pseudococcus maritimus* (Ehrhorn*)* | Insect | Fresh apples (*Malus domestica*), for consumption  |
| *Pseudococcus viburni* (Signoret) | Insect | Fresh Persimmon (*Diospyros kaki)*, for consumption  |
| *Pulvinaria psidii (*Maskell) | Insect | Fresh Mangos (*Mangifera indica*), for consumption  |
| *Retithrips syriacus (*Mayet) | Insect | Propagation material of fruit trees Fresh Quince (*Cydonia oblanga*), for consumption  |
| *Rhagoletis pomonella (*Walsh) | Insect | Fresh apples (*Malus domestica*), for consumption  |
| *Rhigopsidius tucumanus (*Heller) | Insect | Propagation material Potato seed ( *Solanum tuberosum*) for planting |
| *Sirex noctilio (*Fabricius) | Insect | Pine wood(*Araucaria angustifolia. Pino patula , Pinus radiata)* |
| *Sciothrips cardamomi (*Ramakrishna Ayyar) | Insect | Dry speciesCardamom (*Elettaria cardamomum).* for consumption |
| *Siphoninus phillyreae* (Haliday) | Insect | Fresh *Punica granatum* fruit, for consumption  |
| *Stegobium paniceum* (Linnaeus) | Insect | Dried spices, neither crushed nor grounded, for consumption  |
| *Spodoptera albula* (Walker) | Insect | Fresh Tomates (*Lycospersicon sculentum*), for consumption. |
| *Spodoptera eridania (*Stoll in Cramer*)* | Insect | Fresh watermelon (*Citrullus lanatus*), for consumption. |
| *Spodoptera exempta* (Walker) | Insect | Spices of  Dry Ginger (*Zingiber officinale*), neither crushed nor grounded; and in flakes, crushed, pulverized for consumption |
| *Spodoptera exigua (*Hübner) | Insect | Fresh or refrigerated Broccoli (*Brassica oleracea var. italica*), for consumption  |
| *Thrips hawaiiensis (*Morgan 1913*)* | Insect | Propagation material: various species, cuttings, and other plants.Ornamental flowers and fresh greens for garnishFresh Fruits (*Vitis vinifera* L.), for consumption  |
| *Trialeurodes abutiloneus* (Haldeman) | Insect | Fresh or refrigerated Lettuce (*Lactuca sativa)*, for consumption. |
| *Trioza erytreae* (Del Guercio) | Insect | Fresh lemons (*Citrus limon*),  |
| *Trogoderma granarium (*Everts) | Insect | Stored Grainssemi bleached or bleached Rice (Oryza sativa L.) whether or not polished or glazed, for consumption |
| *Udaspes folus* (Cramer) | Insect | Turmeric (*Curcuma longa*) for consumption  |
| *Xestia c-nigrum* (Linnaeu) | Insect | Fresh or refrigerated onions (*Allium cepa*), for consumption  |
| *Xyleborinus saxesenii* (Ratzeburg*)* | Insect | Pine wood(*Araucaria angustifolia. Pino patula , Pinus radiata)* |
| *Aceria mangiferae* (Sayed) | Mite | Fresh Mangos (*Mangifera indica*), for consumption  |
| *Aceria sheldoni* (Ewing*)* | Mite | Fresh Lemons (*Citrus limon*), for consumption. |
| *Aceria tosichella* (Keifer) | Mite | Wheat (*Triticum spp*.) in grains, for consumption  |
| *Aceria tulipae (*Keifer,) | Mite | Propagation material of:Tulips bulbs (*Tulipa spp)* for planting. Onion (*Allium cepa* L.) for consumption. . |
| *Aculops lycopersici* (Tryon) | Mite | Fresh or refrigerated Tomatoes (*Lycopersicon esculentum*), for consumption. |
| *Brevipalpus chilensis (*Baker) | Mite | Fresh oranges (*Citrus sinensis*), for consumption  |
| *Brevipalpus lewisi (*McGregor) | Mite |  Fresh oranges *(Citrus sinensis*), for consumption  |
| *Brevipalpus obovatus* (Donnadieu) | Mite | Fresh tangerines (*Citrus reticulata*), for consumption  |
| *Bryobia rubrioculus* (Scheuten) | Mite | Fresh cherries (*Prunus avium* ), for consumption  |
| *Oligonychus coffeae (*Nietner) | Mite | *Camelia sinensis* ; *Coffea* L. Walnuts and almonds of oil palm (*Elaeis guineensis*) for consumption  |
| *Oligonychus yothersi* (McGregor) | Mite | Fresh Mangos (*Mangifera indica*), for consumption. |
| *Phytonemus pallidus* (Banks) | Mite | Propagation material of: Begonia, *Capsicum annuum, Chrysanthemum, Fragaria (strawberry), Rhododendron.*Flowers and fresh folliage for garnish Fresh peppers *(Capsicum sp*.) for consumption. |
| *Raoiella indica* (Hirst) | Mite |  Propagation material of: *Arecacea, Musa spp., Heliconia spp., Alpinia purpurata, Eucalyptus spp.*  |
| *Tetranychus evansi* (Baker & Pritchard) | Mite | Fresh Tomatoes (*Lycopersicon esculentum*), for consumption  |
| *Tetranychus kanzawai (*Kishida) | Mite | Fresh apples (*Malus domestica*), for consumption  |
| *Tetranychus pacificus (*McGregor) | Mite | Propagation material of orchids Fresh Plums and sloes (*Prunus domestica*), for consumption  |
| *Anguina agrostis* (Steinbuch, Filipjev) | Nematode  | Propagation material of grama seeds of *Festuca arundinacea,* *Festuca ovina, Festuca rubra* |
| *Aphelenchoide fragariae* (Ritzema - Bos, Christie,) | Nematode  | Propagation material of *Fragaria ananassa*, Ornamental cuttings, plants and other |
| *Apheelenchoides ritzemabosi (*Schwartz, Steiner & Buhrer) | Nematode  | Propagation material of Chrysanthemum cuttings, plants and other |
| *Belonolaimus longicaudatus* (Rau) | Nematode  | *Cynodon dactylon* Stolons for planting  |
| *Ditylenchus destructor (*Thorne) | Nematode  | Propagation material Potato tuber ( *Solanum tuberosum*) for planting |
| *Ditylenchus dipsaci* (Kühn, Filip'ev) | Nematode  | Propagation material Onion, potato (*Allium cepa, Solanum tuberosum)* for plantingFresh onion bulbs (Allium cepa) for consumption  |
| *Heterodera glycines (*Ichinohe) | Nematode  | Gamic seed for planting of *Glycine max*  |
|  *Meloidogyne arenaria* (Neal, Chitwood) | Nematode  | Fresh onion bulbs, beet (*Allium cepa* , *Beta vulgaris)*, for planting |
| *Meloidogyne exigua* (Goeldi) | Nematode  | Propagation material Potato tuber ( *Solanum tuberosum*) for planting |
| *Fortrichodorus* porosus (Allen, Siddiqi) | Nematode  | Propagation material Citrus seedlings for planting |
| *Pratylenchus vulnus* (Allen and Jensen) | Nematode  | Propagation material: cuttings, plants and otherBulbs of (*Allium sativum L. ; Allium cepa, Allium porrum)* for planting  |
| *Scutellonema brachyurus* (Steiner , Andrássy) | Nematode  | Pineapple propagation material (*Ananas comosus)*  |
| *Botryotinia alli* (Sawada, W. Yamam) *o Botrytis byssoidea* (J.C. Walker) | Fungus | Propagation material *Allium sativum L. ; Allium cepa, Allium porrum* bulbs for planting |
| *Botryotinia squamosa* (Vienn.-Bourg.) | Fungus | Propagation material *Allium sativum L. ; Allium cepa, Allium porrum* for planting. |
| *Botrytis porri (N.F. Buchw ) sin. Botryotinia porri* (H.J.F. Beyma) Whetzel) | Fungus | *Allium sativum L. ; Allium cepa, Allium porrum* bulbs for planting |
| *Botrytis tulipae* Lind | Fungus | Tulips bulbs for planting |
| *Cercospora longipes* (E.J. Butler) | Fungus | Cane cuttings (*Saccharum officinarum* ) for planting |
| *Chalara elegans* (Nag Raj and W.B. Kendr.) | Fungus | Cucurbits Gamic seed for planting |
| *Choanephora cucurbitarum (*Berk. and Ravenel) Thaxt. | Fungus | Cucurbits Gamic seed for planting |
| *Claviceps purpurea* (Fr.) Tul., 1853 [teleomorph]) | Fungus | *Sorghum bicolor* Gamic seed for planting |
| *Claviceps sorghi B*.G.P. Kulk., Seshadri & Hegde [teleomorph*]* | Fungus | *Sorghum bicolor* Gamic seed for planting |
|  *Colletotrichum truncatum (*Schwein.) Andrus and W.D. Moore) | Fungus | Peanut seed ( *Arachis pintoi* ) for planting |
| *Diaphorthe phaseolorum var. sojae* (Lehman) Wehm. | Fungus | Soy seed (*Glycine max*) for planting |
| *Erysiphe betae (*Vanha) Weltzien | Fungus | *Beta vulgaris var. saccharifera ; Daucus carota gamic sedes* for planting |
| *Exserohilum rostratum* (Leonard) | Fungus | Grass gamic seed *Paspalum vaginatum* for planting  |
| *Fusarium guttiforme* (Nirenberg and o ' Donnell,) | Fungus | Pineapple propagation material (*Ananas comosus*). |
| *Fusarium oxysporum f.sp. Cubense. Raza Tropical 4 (RT 4)*  | Fungus | Musaceae propagation material |
| *Fusarium oxysporum f.sp. elaeidis* (Toovey) | Fungus | Pre-germinated seeds (*Elaeis guineensis y Elaeis oleifera*) for planting  |
|  *Fusarium oxysporum f.sp. gladioli* (Massey) Snyder and Hansen | Fungus | Fresh Gladioli Bulbs (*Gladiolus hibrids)* for planting  |
| *Fusarium oxysporum f.sp. lilii (*Imle) | Fungus | Fresh lilies bulbs ( *Lilium spp*) for planting  |
| *Fusarium oxysporum f.sp. Phaseoli* J.B. Kendr. And W.C. Snyder | Fungus | *Pahseolus vulgaris y Vigna sinensis o Vigna unguiculata* seedsfor planting  |
| *Fusarium sporotrichioides* (Sherb.) | Fungus | Corn gamic seeds ( *Zea mays*) for planting  |
| *Fusarium oxysporum f.sp. Vasinfectum* (G.F. Atk.) W.C. Snyder and H.N. Hansen | Fungus | Gamic sedes of *Capsicum annuum ; Cajanus cajan* for planting |
| *Gibberella avenacea (R.J. Cook)* | Fungus | Cabbage gamic seeds *(Brassica oleracea var. capitata*) for planting |
| *Gibberella circinata* *(*Nirenberg and O'Donnell ) | Fungus | Pine sedes (*Pinus caribaea, Pinus pseudostrobus*) for planting |
| *Gibberella zeae (Schwein.)* Petch | Fungus | *Zea mays* gamic seeds for planting |
| *Glomerella tucumanensis* (Speg.) Arx and E. Müll | Fungus | Sugarcane cuttings *(Saccharum officinarum* ) for planting  |
| *Marasmius palmivorus* (Sharples*)* | Fungus | Pre-germinated oil palm seeds (,*Phoenix dactylifera)* |
| *Microdochium panattonianum*(Berl.) B.Sutton, Galea and T.V. Price | Fungus | Lettuce gamic seeds (*Lactuca sativa*) for planting  |
| *Monosporascus cannonballus* *( Pollack and Uecker)* | Fungus | Cucurbitaceae seed gamic for planting  |
| *Monographella nivalis (*Schaffnit) E.Müll | Fungus | Grass seeds ( *Fetusca , Poa*) for planting  |
| *Myrothecium roridum* (Tode) | Fungus | Peanuts seeds ( *Arachis hypogaea*), for planting  |
| *Passalora sojina (*Hara) H.D. Shin and U. Braun | Fungus | Soy seeds (*Glycine max* ) for planting  |
| *Peronospora farinosa* (Fr.) Fr. | Fungus | *Beta vulgaris* sedes for planting  |
| *Peronospora manshurica* (Naumov) Syd. ex Gäum. | Fungus | Soy seeds (*Glycine max)* for planting  |
| *Peronospora forsitica (*Pers.) de Bary | Fungus | Brassicaceae gamic seeds for planting  |
| *Phellinus noxius (Corner)* G. Cunn. | Fungus | Arecaceae seeds for planting  |
| *Phaeosphaeria nodorum (*E. Müll.) Hedjar | Fungus |  (*Hordeum vulgare , Triticum aestivum , Cynodon dactylon)* gamic seeds |
| *Phoma pinodella* (L.K. Jones) Morgan-Jones and K.B. Burch | Fungus | *Petroselinum crispum* gamic seeds for planting  |
| *Phomopsis longicolla* ( Hobbs) | Fungus | Soy seeds (*Glycine max)* for planting |
| *Phytophthora cactorum* (Lebert and Cohn) J. Schröt. | Fungus | Cocoa propagation material (Theobroma cacao) |
| *Phytophthora erythroseptica var. erytrhroseptica* | Fungus | Potato progragation material (*Solanum tuberosum)* for planting  |
| *Phytophthora heveae* (A.W. Thomps.) | Fungus | Rubber propagation material (*Hevea brasiliensis)*for planting |
| *Pleospora betae (*Berl.) Nevodovsky) ; Phoma betae (Frank) | Fungus | sugarbeetseeds *(Beta vulgaris var. saccharifera*) |
| *Pleospora herbarum* (Fr.) Rabenh*.* | Fungus | Melon gamic seeds (*Cucumis melo)* for planting |
| *Peronosclerospora sacchari**(*T. Miyake) Shirai and Hara | Fungus | Sugarcane gamic seeds (*Saccharum officinarum*)for planting |
| *Puccinia allii* (DC.) Rudolphi  | Fungus | Chive, onion (*Allium schoenoprasum (Allium cepa)* bulbsfor planting and for consumption  |
| *Pyrenochaeta lycopersici* (Schneider and Gerlach*)* | Fungus | Tomato gamic seeds (*Lycopersicon esulentum)* for planting  |
| *Pythium vexans* (de Bary) | Fungus |  Rubber propagation material (*Hevea brasiliensis)* |
| *Oidium heveae* (Steinm.) | Fungus | Rubber propagation material (*Hevea brasiliensis*) |
| *Ramularia* beticola (Fautrey and Lambotte) | Fungus | + *Beta vulgaris var. Saccharifera* seeds for planting  |
| *Rigidoporus microporus*(Fr.) Overeem | Fungus | Propagation material of Arecaceae; *Theobroma cacao* L.  |
| *Rhizoctonia tuliparum* Whetzel & J. M. Arthur | Fungus |  Tulips bulbs for planting |
| *Sclerotium cepivorum (*Berk.) | Fungus |  (*Allium cepa. A. sativum , A porrum, Allium schoenoprasum)* fresh bulbs and for planting |
| *Sclerophthora macrospora* *(*Sacc.) Thirum., C.G. Shaw and Naras*.*  | Fungus | Rice gamic seeds (*Oryza sativa*) for planting |
|  *Sphaeropsis sapinea sinonimo Diplodia pinea* | Fungus | Pine seeds (*Pinus caribaea, Pinus pseudostrobus*) for planting  |
| *Septoria passiflorae*  | Fungus | Banana passionfruit seeds (*Passiflora mollisima* ) for planting |
| *Sporisorium cruentum* (J.G. Kühn) Vánky | Fungus | sorghum seeds ( *Sorghum bicolor*, *Sorghum vulgare*) and  corn ( *Zea mays* ) for planting |
| *Sporisorium sacchari (*Rabenh.) Vánky | Fungus | Sugarcane gamic seeds (*Saccharum officinarum*) for planting |
| *Sarocladium oryzae (*Sawada) W. Gams and D. Hawksw. | Fungus | Rice gamic seeds ( *Oryza sativa)* for planting |
| *Stenocarpella maydis (Berk.) B. Sutton O Stenocarpella macrospore* (Earle) B.Sutton | Fungus | Corn seeds (*Zea mays)* for planting |
| *Uromyces betae* (Bellynck) Boerema et al. | Fungus | Beet gamicseeds (*Beta vulgaris*) for planting |
| *Verticillium albo-atrum* (Reinke and Berthold) | Fungus | *Lycopersicon esulentum ; Solanum tuberosum ; Medicago sativa L. Cucumis sativus*; gamic seeds for planting |
| *Verticillium dahaliae* (Kleb) | Fungus |  Brassicaceae gamic seesd for planting |
| *Acidovorax avenae subsp. cattleyae* (Pavarino 1911) Willems et al. 1992 | Bacterium | Orchids propagation material for planting |
| *Burkholderia gladioli pv. Alliicola* (Burkholder 1942) comb. nov. | Bacterium | Onion bulbs (*Allium cepa*) for planting  |
| *Burkholderia gladioli pv. gladioli* (Severini 1913) Yabuuchi et al. 1993 | Bacterium | *Iris spp*. bulbs for planting |
| *Candidatus Liberibacter africanus’* Jagoueix et al. 1994 | Bacterium | *Citrus spp* propagation material for planting  |
| *Candidatus Liberibacter americanus’* Teixeira et al. 2005 | Bacterium | *Citrus spp* propagation material for planting  |
| *Candidatus Liberibacter asiaticus’* Jagoueix et al. 1994 | Bacterium | *Citrus spp* propagation material for planting  |
| *Clavibacter xyli subsp. Cynodontis* (Davis et al., 1984) | Bacterium | Grass seeds (*Cynodon dactylon)* for planting  |
| *Curtobacterium flaccumfaciens pv. betae (*Hedges) Collins and Jones | Bacterium | Beet seeds (*Beta vulgaris*) for planting |
| *Curtobacterium flaccumfaciens pv. flaccumfaciens* (Hedges) Collins and Jones | Bacterium | Seeds for planting ( *Vigna unguiculata ; Phaseolus vulgari)* |
| *Curtobacterium flaccumfaciens pv. poinsetiae (*Hedges) Collins and Jones | Bacterium | *Euphorbia pulcherrima*, propagation material (Hojas, tallo)  |
| *Pantoea ananatis (*Serrano, 1928) Mergaert et al., 1993 | Bacterium |  (*Allium cepa , Allium sativum)*, bulbs for planting  |
| *Pantoea stewartii* (Smith 1898) Mergaert et al. 1993 | Bacterium | Corn gamic seeds *(Zea mays)*, for planting  |
| *Pectobacterium cypripedii* (Hori 1911) Brenner et al. 1973 emend. Hauben et al. 1999 | Bacterium | Orchid propagation material |
| *Pectobacterium rhaponintici* (Millard 1924) Patel & Kulkarni 1951 | Bacterium | *Allium cepa, allium sativum*. Propagation material |
| *Pseudomonas cichorii (*Swingle 1925) Stapp 1928 | Bacterium | *Cichorium endivia,* gamic seed for planting  |
| *Pseudomonas corrugata (*ex Scarlett et al. 1978) Roberts and Scarlett 1981 | Bacterium | Tomate gamic seeds (*Lycopersicon esculentum*) for planting |
| *Pseudomonas marginalis pv. marginalis* | Bacterium | Potato seeds *Solanum tuberosum* for planting  |
| *Pseudomonas syringae pv. coriandricola (*Toben and Rudolph 1996) | Bacterium | Coriander seeds (*Coriandrum sativum*) for planting  |
| *Pseudomonas syringae pv. lachrymans (*Smith and Bryan 1915) Young et al. 1978 | Bacterium | Cucurbitaceae gamic seeds for planting  |
| *Pseudomonas syringae pv. pisi (Sackett 1916) Young et al. 1978* | Bacterium | *Pisum sativum* seeds for planting  |
| *Pseudomonas syringae pv. tomato (*Okabe 1933) Young et al. 1978 | Bacterium | Tomatoe seeds *(Lycopersicon esculentum*) for planting |
| *Pseudomonas syringae pv. porri* Samson et al. 1998 | Bacterium | *Allium schoenoprasum* seeds for planting |
| *Pseudomonas syringae pv. maculicola (*McCulloch 1911) Young et al. 1978 | Bacterium | Brassicaceae gamic seeds for planting |
| *Pseudomonas syringae pv. tabaci (Wolf and Foster 1917) Young et al. 1978* | Bacterium | Soy seeds (*Glycine max*) for planting |
| *Pseudomonas savastanoi pv. glycinea (*Coerper 1919) Gardan et al. 1992 | Bacterium | Soy seeds (*Glycine max*) for planting |
| *Pseudomonas savastanoi pv. phaseolicola (*Burkholder 1926) Gardan et al. 1992 | Bacterium |  *Phaseolus vulgaris* seeds for planting  |
| *Pseudomonas savastanoi pv. savastanoi* (ex Smith 1908) Young et al. 1996 | Bacterium | Olive propagation material (*Olea europaea*) for planting |
| *Pseudomonas viridiflava* (Burkholder 1930) Dowson 1939 | Bacterium |  (*Capsicum annuum)* gamic seeds for planting.  |
| *Ralstonia solanacearum raza 3* (Smith) Yabuuchi et al. | Bacterium |  Potato propagation material (*Solanum tuberosum*) for planting  |
| *Rhizobium radiobacter (*Beijerinck & van Delden 1902) Young et al. 2001 | Bacterium | Roses propagation material (*Rosa centifolia*) |
| *Rhizobium rhizogenes* (Riker et al. 1930) Young et al. 2001 | Bacterium |  Roses propagation material (*Rosa centifolia*) |
| *Xanthomonas axonopodis (Starr and Garcés 1950)* | Bacterium | Sugarcane propagation amterial (*Sacharum officnararum*) for planting |
| *Xanthomonas axonopodis pv. allii (*Kadota et al. 2000) Roumagnac et al. 2004 | Bacterium | Onion bulbs (*Allium cepa, allium porrum , Allium fistulosum* ) for planting |
| *Xanthomonas axonopodis pv. begoniae (*Takimoto 1934) Vauterin et al. 1995 | Bacterium | *Begonia spp*. Propagation material for planting |
| *Xanthomonas axonopodis pv. dieffenbachiae (*McCulloch and Pirone1939 ) Vauterin et al 1995 | Bacterium |  *Anthurium andreanum , Philodendron spp* propagation material |
| *Xanthomonas axonopodis pv. glycines (*Nakano 1919) Vauterin et al. 1995 | Bacterium | Soy seeds (*Glycine max* ) for planting |
| *Xanthomonas campestris pv. passiflorae (*Pereira 1969) Dye 1978 | Bacterium | Banana passionfruit seeds (*Pasiflora mollisima*) for planting |
| *Xanthomonas axonopodis pv. vitians* (Brown 1918) Vauterin et al. 1995 | Bacterium | *Lactuca sativa*, gamic seeds for planting |
| *Xanthomonas campestris pv. raphani (*White 1930) Dye 1978b | Bacterium |  *Brassica spp*., gamic seeds for planting |
| *Xanthomonas campestri f.sp vesicatoria (*Doidge) Dye 1978 | Bacterium | *Capsicum annuum , Lycopersicon esculentum* gamic seeds for planting |
| *Xanthomonas cucurbitae* | Bacterium | Cucurbitacea gamic seeds for planting  |
| *Xanthomonas fragariae Kennedy and King 1962* | Bacterium | Srawberries propagation material (*Fragaria ananassa*) |
| *Xanthomonas hyacinthi (ex Wakker 1883) Vauterin et al. 1995* | Bacterium | Hyacinth propagation material (*Hyacinthus orientalis*) |
| *Xanthomonas hortorum pv. carotae (Kendrick 1934) Vauterin et al. 1995* | Bacterium | Coriander and carrot seeds (*Coriandrum sativum*  y *Daucus carota* ) for planting |
| *Xanthomonas vesicatoria (*Doidge) Dowson 1939 | Bacterium | *Capsicum annuum, Lycopersicon esculentum*, gamic seeds for planting  |
| *Xylella fastidiosa* Wells et al. 1987 | Bacterium |  *Citrus spp; Vitis vinifera* propagation material for planting |
| *Aster yellws phytoplasma group*  | Phytoplasma  |  *Paulownia tomentosa* propagation material |
| *Clover phyllody phytoplasma* | Phytoplasma  |  *Catharanthus roseus* propagation material |
| *Palm lethal yellowing phytoplasma*  | Phytoplasma  | Propagating material: including palm TPS |
| *African Cassava mosaic virus* | Virus  | Yucca (*Manihot sculentum*) propagation material for planting |
| *Alfalfa mosaic virus* | Virus  | Alfalfa gamic seeds (*Medicago sativa*) for planting |
| *Andean Potato latent virus* | Virus  |  Potato propagation material (*Solanum tuberosum)* for planting  |
| *Arabis mosaic virus* | Virus  |  (*Daucus carota, Lactuca sativus, Cucurbita pepo, Cucurbita sativus )* gamic seeds for planting |
| *Banana Bunchy Top virus* | Virus  |  Musa L.  |
| *Banana streak virus* | Virus  | meristems propagation material de *Musa spp* for planting  |
| *Bean golden mosaic virus (BGMV)* | Virus  | Soy gamic seeds (*Glycine max )* for planting |
| *Bean Pod mottle virus* | Virus  | Soy gamic seeds (*Glycine max* ) for planting |
| *Beet curly top virus* | Virus  |  Cucurbitaceae gamic seeds,( *Cucumis sativus*) for planting |
| *Beet necrotic yellow Vein virus* | Virus  | Spinach gamic seeds (*Spinacia oleracea)* for planting |
| *Broad bean wilt virus* | Virus  | Carrot gamic seeds ( *Daucus carota* )for planting |
| *Citrus leaf rugose virus* | Virus  | *Citrus spp*. Propagation material for planting |
| *Citrus exocortis viroid* | Virus  | *Citrus spp*. Propagation material for planting |
| *Citrus cachexia viroid*  | Virus  | *Citrus spp*. Propagation material, buds, cuttings for planting. |
| *Citrus psorosis B*  | Virus  |  Propagation material, buds, cuttings for planting.*Citrus spp*. for planting |
| *Cowpea mild mottle virus* | Virus  | Beans gamic seeds (*Phaseoles vulgaris*) for planting  |
| *Cucumber green mottle mosaic virus* | Virus  | Cucurbitaceae gamic seeds for planting  |
| *Impatiens necrotic spot virus*  | Virus  | Orchids propagation materials |
| *Letucce mosaic virus* | Virus  | Lettuce seeds (*Lactuca sativa)* for planting  |
| *Lily symptomless virus* | Virus  | Lilies propagation material ( *Lilium sp*.) for la planting  |
| *Maize chlorotic mottle virus*  | Virus  |  Corn gamic seeds (Zea mays) for plantings |
| *Maize dwarf mosaic virus*  | Virus  |  Corn gamic seeds (*Zea mays*) for plantings |
| *Maize stripe virus*  | Virus  |  Corn gamic seeds (*Zea mays)* for plantings |
| *Narcissus mosaic virus* | Virus  | Lilies bulbs for planting (*Lilium sp*p.) |
| *Odontoglossum ringspot virus* | Virus  | Orchid propagation material |
| *Onion yellow dwarf virus* | Virus  |  Onion bulbs (*Allium cepa)* for planting |
| *Peanut mottle virus*  | Virus  |  (*Arachis pintoi*) gamic seeds for planting  |
| *Pepino mosaic virus*  | Virus  | Tomatoes gamic seeds (*Lycopersicon esculentum)* and eggplant *(Solanum melongena)* for planting  |
| *Pineapple wilt-associated virus* | Virus  | Pinneaple propagation material (*Ananas comosus)* |
| *Pineapple yellow-spot virus* | Virus  | Pinneaple propagation material (*Ananas comosus*) |
| *Potato deforming mosaic virus*  | Virus  | Potatoes propagation material (*Solanum tuberosum*) for planting  |
| *Potato virus M* | Virus  | Potatoes propagation material (*Solanum tuberosum)* for planting  |
| *Potato virus S (Cepa andina)* | Virus  | Potatoes propagation material (*Solanum tuberosum)* for planting  |
| *Potato spindle tuber viroid*  | Virus  | Potatoes propagation material (*Solanum tuberosum)* for planting  |
| *Potato yellowing virus* | Virus  | Potatoes propagation material (*Solanum tuberosum)* for planting  |
| *Sweet potato feathery mottle virus*  | Virus  | *Ipomoea batatas* propagation material for planting  |
| *Sweet potato latent virus* | Virus  | Sweet potatoes propagation material *(Ipomoea batatas*) |
| *Sweet potato mild mottle virus*  | Virus  | Potatoes propagation material (*Solanum tuberosum)* for planting  |
| *Strawberry latent ringspot virus* | Virus  | *Petroselinum crispum , Apium graveolens,* gamic seedsfor planting  |
| *Tobacco rattle virus* | Virus  | Gladioli bulbs for planting  |
| *Tobacco ringspot virus* | Virus  | *Capsicum annuum , Citrullus lanatus* gamic seeds for planting  |
| *Tobacco Streak Virus*  | Virus  | *Lactuca sativa* gamic seeds for planting  |
| *Tomato black ring virus* | Virus  | *Tomatoes gamic seeds (Lycopersicon esculentun) for planting*  |
| *Tomato bushy stunt virus*  | Virus  |  *Capsicum annuum* gamic seeds for planting |
| *Tomato spotted wilt virus* | Virus  |  Pineapple propagation material *( Ananas comosus*) for planting  |
| *Wheat streak mosaic virus* | Virus  | Wheat gamic seeds *Triticum aestivum , Zea mays* for planting |
| *Yam mild mosaic virus*  | Virus  | Yam propagation material (*Dioscorea alata L*.) |
| *Yam mosaic virus* | Virus  | Yam propagation material (*Dioscorea alata L*.) |
| *Bradybaena similaris* | Mollusk | Citrus sp., Coffea, ornamental plants |
| *Deroceras reticulatum* (O.F.Muller 1774) | Mollusk | Ornamental plants in general, fruit and vegetable |
| *Limax maximus*  | Mollusk | polyphagous |
| *Lissachatina fulica (Bowdich)**Achatina fulica (*Bowdich 1822 formerly Férussac 1821*)* | Mollusk | polyphagous |
| *Pomacea canaliculata* (Lamarck, 1822) | Mollusk | Rice cultivation (*Oryza sativa)* |
| *Otala lactea* | Mollusk | *Ornamental plants for planting* |
| *Rumina decollata (Linnaeus, 1758)* | Mollusk | *Ornamental plants for planting* |
| *Avena fatua L* | Weeds | *Oryza sativa , Zea mays , Sorghum spp* seeds |
| *Cyperus compressus* | Weeds | *Oryza sativa* seeds |
| *Echium plantagineum L* | Weeds | Grass seeds |
| *Eragrotis plana ness* | Weeds |  *Panicum máximum* seeds |
| *Euphorbia heterophilla L.* | Weeds | *Arachis hypogaea , Glycine max Gossypium , Saccharum officinarum , Vigna unguiculata , Zea mays* |
| *Kyllinga brevifolia* | Weeds | Grass seeds |
| *Poa annua L* | Weeds |  *Allium cepa , Beta vulgaris , Oryza sativa , Zea mays , Fragaria ananassa* |
| *Raphanus raphanistrum L* | Weeds |  *Panicum maximum* |
| *Sorghum halepense* | Weeds | Peanut seeds (*Arachis hypogaea*)  |

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