

Annex Decree of Ministry of Agriculture

Number : 51/Permentan/KR.010/9/2015

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Plant Quarantine Pest List

A. Plant Quarantine Pest List (KATEGORY A1)

I. SERANGGA (*INSECTS*)

No	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ <i>SCIENTIFIC NAME/ SYNONIM/ TAXON/ COMMON NAME</i>	GOLONGAN/ GROUP	INANG/ HOST	MEDIA PEMBAWA/ PATHWAY	DAERAH SEBAR/ GEOGRAPHICAL DISTRIBUTION
1.	<i>Acraea acerata</i> Hew.; Lepidoptera: Nymphalidae; sweet potato butterfly	II	<i>Convolvulus arvensis, Ipomoea aquatica, Ipomoea triloba, Merremiae bracteata, Merremia pacifica, Merremia peltata, Merremia umbellata, Ipomoea batatas</i> (ubi jalar, sweet potato)	leaf, stem	Africa: Angola, Benin, Botswana, Burundi, Cameroon, Congo, DR Congo, Ethiopia, Ghana, Guinea, Kenya, Ivory Coast, Liberia, Mozambique, Namibia, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Togo. Uganda, Zambia
2.	<i>Acrocinus longimanus</i> Linnaeus; Coleoptera: Cerambycidae; Herlequin beetle, jack-tree borer	II	Artocarpus, <i>Artocarpus integra, Moraceae, Broussonetia kazinoki, Ficus elastica</i>	stem, branches, litter	America: Barbados, Honduras, Guyana, Trinidad, Costa Rica, Mexico, Brazil
3.	<i>Aetherastis circulata</i> Meyrick; Lepidoptera: Yponomeutidae; bark feeding caterpillar	II	<i>Hevea brasiliensis</i> (karet, rubber tree)	stem, leaf, seedling	Asia: India

4.	<i>Agrilus mali</i> Matsumura; Coleoptera: Buprestidae; apple borer, apple buprestid	II	<i>Malus domestica</i> (apel, apple)	buds, stem, seedling, rhizome	Asia: China, Korea DPR (North Korea), Republic of Korea (South Korea) Europe: Russia
5.	<i>Agrilus planipennis</i> Fairmaire; Coleoptera: Buprestidae; Emerald Ash Borer	II	<i>Fraxinus americana</i> , <i>F.</i> <i>mandshurica</i> , <i>F. nigra</i> , <i>F. chinensis</i> , <i>F. pensylvania</i> , <i>Juglans mandshurica</i> <i>F.</i> <i>japonica</i> , <i>F.</i> <i>lanuginosa</i> , <i>Fraxinus</i> <i>rhynchophylla</i> , <i>Pterocarya</i> <i>rhoifolia</i> , <i>Ulmus</i> <i>dauriana</i> , <i>Ulmus propinqua</i>	stem, wood	America: USA, Canada Asia: China, Japan, Korea DPR (North Korea), Republic of Korea (South Korea), Taiwan Europe: Russia, Russian far east)
6.	<i>Alcidodes dentipes</i> (Olivier); (= <i>Alcides dentipes</i> Olivier); Coleoptera: Curculionidae; striped sweet potato weevil	II	<i>Ipomoea batatas</i> (ubi jalar, sweet potato) <i>Gossypium barbadens</i> (kapas, cotton), <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Phaseolus vulgaris</i> (buncis, common bean) <i>Vigna</i> spp. (buncis, cowpea)	stem, seedling	Africa: Angola, Benin, Botswana, Burundi, Cameroon, Central Africa Republic, Ethiopia, Ghana, Gambia, Gabon, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Liberia, Mali, Mauritania, Mauritius, Mozambique, Malawi, Nigeria, Sahara, Senegal, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe.
7.	<i>Alsophila pometaria</i> (Harris) (= <i>Anisopterix pometaria</i> = <i>Anisopteryx pometaria</i>); Lepidoptera: Geometridae; fall cankerworm	II	<i>Malus domestica</i> (apel, apple), Pelargonium, <i>Ulmus</i> sp. (elm), <i>Pyrus communis</i> (pir, pear), other stone fruit, Oak, Rose, Walnut	stem, leaf, flower, fruit	America: Canada, USA

8.	<p><i>Amblypelta cocophaga</i> China; (= <i>Amblypelta cocophaga cocophaga</i> = <i>A. cocophagamalaitensis</i> = <i>Dasynus</i> sp.); Hemiptera: Coreidae; coconut bug</p>	II	<p><i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Ceiba petandra</i> (kapuk randu, kapok), <i>Cocos nucifera</i> (kelapa, coconut), <i>Eucalyptus deglupta</i>, <i>Mangifera indica</i> (mangga, mango), <i>Cucumis melo</i> (melon), <i>Citrus sinensis</i> (navel orange) <i>Citrus</i> spp. (jeruk, orange), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Passiflora quadrangularis</i> (markisah, passion fruit, granadilla), <i>Prunus persica</i> (persik, peach), <i>Psophocarpus tetragonolobus</i> (kecipir, winged bean), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Theobroma cacao</i> (kakao, cocoa), <i>Delonix regia</i> (flamboyant), <i>Macaranga</i> spp.</p>	buds, stem, leaf, flower, fruit	<p>Asia: Singapore, India, Philippines, Malaysia Oceania: Fiji, Papua New Guinea, Solomon Islands</p>
9.	<p><i>Anastrepha fraterculus</i> (Wiedemann); (= <i>Acrotoxa fraterculus</i> = <i>Anastrepha braziliensis</i> = <i>Anastrepha costarukmanii</i> = <i>Anastrepha fraterculus</i> var. <i>soluta</i> = <i>Anastrepha lambayecae</i> = <i>Anastrepha pseudofraterculus</i> = <i>Anastrepha scholae</i> = <i>Anthomyia frutalis</i> = <i>Dacus fraterculus</i> = <i>Tephritis</i></p>	II	<p><i>Annona cherimola</i> (cherimoya), <i>Psidium guajava</i> (jambu seed, guava) <i>Annona</i> spp, <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Actinidia deliciosa</i> (kiwi, kiwifruit), <i>Ampelocera hottlei</i>, <i>Annona muricata</i> (soursop), <i>Annona squamosa</i> (srikaya, sweetsop), <i>Averrhoa carambola</i> (belimbing, carambola, star-</p>	fruit, growing media, soil	<p>America: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, USA, Uruguay, Venezuela.</p>

<p><i>mellea</i> =<i>Trypeta fraterculus</i> = <i>Trypeta unicolor</i> = <i>Anastrepha peruviana</i> = <i>A. soluta</i>); Diptera: Tephritidae; South American fruitfly</p>	<p>fruit), <i>Campomanesia xanthocarpa</i>, <i>Chrysophyllum gonocarpum</i>, <i>Citrus</i> spp. (jeruk, orange), <i>Eriobotrya japonica</i> (loquat), <i>Eugenia dombeyi</i> (brazil cherry), <i>Eugenia uniflora</i> (Surinam cherry), <i>Eugenia</i> spp., <i>Feijoa sellowiana</i> (horn of plenty), <i>Fortunella japonica</i> (round kumquat) <i>Prunus</i> spp., <i>Prunus persica</i> (persik, peach), <i>Psidium cattleianum</i> (strawberry guava), <i>Spondias tuberosa</i>, <i>Syzygium jambos</i> (rose apple), <i>Syzygium</i> spp., <i>Ziziphus joazeiro</i>, <i>Carica papaya</i>, (pepaya, papaya, papaw), <i>Citrus aurantium</i> (sour orange), <i>Citrus limetta</i> (sweet lemon), <i>Citrus maxima</i> (pummelo), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Coffea Arabica</i> (kopi arabika, Arabica coffee), <i>Coffea liberica</i> (Liberian coffee tree), <i>Cydonia oblonga</i> (quince), <i>Diospyros kaki</i> (kesemek, persimmon), <i>Diospyros malabarica</i>, <i>Eugenia stipitata</i>, <i>Ficus carica</i> (ara, fig), <i>Fortunella japonica</i> (kumquat),</p>		
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			<p> <i>Fragaria vesca</i> (arbei, strawberry), <i>Inga edulis</i>, <i>Inga marginata</i>, <i>Juglans australis</i>, <i>Juglans neotropica</i> (Andean walnut), <i>Juglans regia</i> (walnut), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Malus</i> sp., <i>Malus domestica</i> (apel, apple), <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (avokad, avocado), <i>Prunus americana</i> (apricot), <i>Prunus dulcis</i> (almond), <i>Psidium longipes</i>, <i>Punica granatum</i> (delima, pomegranate), <i>Pyrus communis</i> (pir, pear), <i>Pouteria obovata</i>, <i>Rubus glaucus</i>, <i>Solanum quitoense</i>, <i>Spondias dulcis</i> (otaheite apple), <i>Spondias mobin</i> (hog plum), <i>Spondias purpurea</i> (red mombin), <i>Spondias cytherea</i>, <i>Syzygium malaccense</i> (jambu bol, malay-apple), <i>Terminalia catappa</i> (ketapang, Indian almond), <i>Theobroma cacao</i> (kakao, cocoa), <i>Vitis vinifera</i> (anggur, grapevine), <i>Malus domestica</i>(apel, apple), <i>Syzygium aquea</i> (jambu air, star apple), <i>Zuelania Guidonia</i> </p>		
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10.	<p><i>Anastrepha ludens</i> (Loew); (=<i>Acrotoxa ludens</i> Loew =<i>Anastrepha lathana</i> Stone =<i>Trypeta ludens</i> Loew); Diptera: Tephritidae; Mexican fruit fly</p>	II	<p><i>Citrus</i> spp.(jeruk, orange), <i>Citrus aurantium</i> (sour orange), <i>Citrus maxima</i> (pummelo), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Mangifera indica</i>(mangga, mango), <i>Prunus persica</i> (persik, peach) <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Annona cherimola</i> (cherimoya), <i>Annona liebmanniana</i>, <i>Annona muricata</i> (sirsak, soursop), <i>Annona reticulata</i> (buah nona, srikaya, <i>Annona squamosa</i> (srikaya, sweetsop), bullock's heart, custard apple), <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Casimiroa edulis</i> (white sapote), <i>Citrus</i> spp, <i>Citrus aurantifolia</i> (lime), <i>Citrus limetta</i> (sweet lemon tree), <i>Citrus medica</i> (citron), <i>Citrus reticulata</i> (mandarin), <i>Citrus reticulata x paradisi</i> (tangelo), <i>Coffea arabica</i> (kopi arabika, arabicacoffee), <i>Cydonia oblonga</i> (quince), <i>Diospyros kaki</i> (kesemek, persimmon), <i>Feijoa</i></p>	fruit, growing media, soil	<p>America: Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama</p>
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			<p><i>sellowiana</i>, <i>Malus domestica</i> (apel, apple), <i>Mammea americana</i>, <i>Passiflora edulis</i> (passionfruit), <i>Passiflora quadrangularis</i> (markisah, passion-fruit, granadilla), <i>Psidium longipes</i>, <i>Spondias purpurea</i>, <i>Persea americana</i> (avokad, avocado), <i>Pouteria sapota</i>, <i>Psidium guajava</i> (jambu seed, guava), <i>Punica granatum</i> (delima, pomegranate), <i>Pyrus communis</i> (pir, pear), <i>Sargentia greggii</i>, <i>Syzygium aquea</i> (jambu air, star apple), <i>Talisia olivaeformis</i></p>		
11.	<p><i>Anastrepha obliqua</i> Macq; (= <i>Acrotoxa obliqua</i> = <i>Anastrepha fraterculus</i> var. <i>ligata</i> = <i>A. fraterculus</i> var. <i>mombinpraeoptans</i> SeÑn = <i>A. mombinpraeoptans</i> SeÑn = <i>Tephritis obliqua</i> = <i>A. acudisa</i> = <i>A. trinidadensis</i> = <i>Trypeta obliqua</i>); Diptera: Tephritidae; West Indian fruit fly, Antillean fruit fly</p>	II	<p><i>Mangifera indica</i> (mangga, mango), <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Spondias cytherea</i>, <i>Spondiasmombin</i>, <i>Spondias purpurea</i>, <i>Spondias</i> spp. <i>Anacardium occidentale</i>, <i>Annona hayesii</i>, <i>Brosimum alicastrum</i>, <i>Citrus limetta</i>, <i>Coffea</i> spp. (kopi, coffee), <i>Eriobotrya japonica</i> (loquat), <i>Euginia jambos</i> (jambos), <i>Euginia malaccensis</i> (pomerack), <i>Euginia nesiotica</i>,</p>	fruit, growing media, soil	<p>America: Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Brazil, British Virgin Islands, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname,</p>

			<p><i>Malpighia glabra</i>, <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Passiflora quadrangularis</i> (markisah, passion fruit, granadilla), <i>Prunus dulcis</i> (almond), <i>Prunus amygdalus</i> (bitter almond), <i>Prunus domesticum</i> (plum), <i>Psidium longipes</i>, <i>Pyrus communis</i> (pear), <i>Averrhoa carambola</i> (belimbing, carambola, star-fruit), <i>Pouteria viridis</i>, <i>Citrus</i> spp, <i>Diospyros digyna</i> (black sapote), <i>Dovyalis hebecarpa</i> (kitambilla), <i>Pouteria sapota</i>, <i>Pouteria mammosa</i>, <i>Psidium guajava</i> (jambu seed, guava), <i>Syzygium aquea</i> (jambu air, star apple), <i>Syzygium malaccense</i> (jambu bol, malay-apple).</p>		Trinidad and Tobago, United States Virgin Islands, Venezuela.
12.	<p><i>Anastrepha serpentina</i> Wiedemann; (= <i>Dacus serpentinus</i> Wiedemann = <i>Leptoxys serpentina</i> Wiedemann = <i>Acrotoxa serpentinus</i> Wiedemann = <i>Trypeta serpentina</i> Wiedemann = <i>Urophora vittithorax</i> Wiedemann); Diptera: Tephritidae; sapote</p>	II	<p><i>Capparis angulata</i>, <i>Citrus</i> spp. (jeruk, orange), <i>Chrysophyllum cainito</i>, <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Pouteria cainito</i>, <i>Pouteria campechiana</i> (canistel), <i>Pouteria sapota</i> (mammey sapote) <i>Alchornea latifolia</i>, <i>Annona cherimola</i>, <i>Annona glabra</i>,</p>	fruit, growing media (soil)	America: Belize, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Antilles Netherlands, Panama, Peru, Suriname, Trinidad and Tobago, USA, Venezuela

	fruit fly, sapodilla fruit fly, black fruit fly, dark fruit fly		<p><i>Annona</i> spp, <i>Bumelia sebolana</i>, <i>Brysonima crassifolia</i>, <i>Chrysophyllum argenteum</i>, <i>Chrysophyllum mexicanum</i>, <i>Citrus aurantium</i>, <i>Citrus maxima</i>, <i>Citrus reticulata</i>, <i>Citrus sinensis</i>, <i>Citrus x paradisi</i>, <i>Cydonia oblonga</i> (kwinsi, quince), <i>Diospyros ebenaster</i>, <i>Dovyalis hebecarpa</i>, <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Ficus</i> spp.(ara, fig), <i>Lacmellea panamensis</i>, <i>Malus domestica</i> (apel, apple), <i>Mangifera indica</i> (mangga, mango), <i>Manilkara</i> spp., <i>Persea americana</i> (avokad, avocado), <i>Pouteria viridis</i>, <i>Mammea americana</i>, <i>Pouteria campechiana</i>, <i>Pouteria caimito</i>, <i>Pouteria obovata</i>, <i>Pouteria sapota</i>, <i>Sideroxylon capiri</i>, <i>Sideroxylon palmeri</i>, <i>Spondias mombin</i>, <i>Spondias purpurea</i>, <i>Malus domestica</i>, <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus persica</i> (persik, peach), <i>Psidium guajava</i> (jambu seed, guava), <i>Pyrus communis</i> (pir, pear), <i>Spondias</i> spp.</p>		
13.	<i>Anastrepha suspensa</i> Loew; (= <i>Anastrepha</i>	II	<i>Eriobotrya japonica</i> , (loquat), <i>Eugenia dombeyi</i> (brazil	fruit, growing media (soil)	America: Bahamas, British Virgin Islands, Cuba,

	<p><i>unipuncta</i> Sein =<i>Anastrepha longimacula</i> Greene =<i>Trypeta suspensa</i> Loew); Diptera: Tephritidae; Carribean fruit fly</p>	<p>cherry), <i>Euginia uniflora</i> (surinam cherry), <i>Eugenia</i> spp., <i>Psidium guajava</i> (jambu seed, guava), <i>Psidium</i> <i>cattleianum</i>, <i>Syzygium</i> spp., <i>Annona</i> spp., <i>Fortunella</i> <i>margarita</i>, <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Syzygium</i> <i>aquea</i> (jambu air, star apple), <i>Terminalia catappa</i> (ketapang, Indian almond) <i>Annona squamosa</i> (srikaya, sweetsop), <i>Annona glabra</i>, <i>Averrhoa carambola</i> (belimbing, star-fruit), <i>Blighia sapida</i> (akee apple), <i>Canella winterana</i>, <i>Chrysobalanus icaco</i>, <i>Carica</i> <i>papaya</i> (pepaya, pawpaw, papaya), <i>Citrofortunella mitis</i>, <i>Citrus</i> spp, <i>Clausena lansium</i>, <i>Coccoloba uvifera</i>, <i>Capsicum</i> <i>annuum</i> (paprika, bell-pepper), <i>Casimiroa edulis</i>, <i>Chrysophyllum</i> <i>cainito</i>, <i>Chrysophyllum oliviforme</i>, <i>Clausena lansium</i>, <i>Coccoloba</i> <i>uvifera</i>, <i>Diospyros kaki</i> (kesemek, persimmon), <i>Diospyros blancoi</i>, <i>Diospyros virginiana</i>, <i>Dovyalis</i> <i>caffra</i>,</p>	<p>Dominican Republic, French Guiana, Haiti, Jamaica, Puerto Rico, USA, Virgin Islands</p>
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			<p> <i>Ficus carica</i> (ara, fig), <i>Flacourtia indica</i>, <i>Fortunella margarita</i> (oval kumquat), <i>Fortunella x crassifolia</i>, <i>Garcinia aristata</i>, <i>Garcinia mangostana</i> (manggis, mangosteen), <i>Garcinia livingstonei</i>, <i>Solanum lycopersicum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Malpighia glabra</i>, <i>Momordica balsamina</i>, <i>Prunus cerasus</i> (ceri, cherry), <i>Mangifera indica</i> (mangga, mango), <i>Momordica charantia</i> (paria, bitter gourd), <i>Murraya</i> spp. (kemuning, mock orange), <i>Persea americana</i> (avokad, avocado), <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Pimenta dioica</i>, <i>Prunus persica</i> (persik, peach), <i>Psidium longipes</i>, <i>Punica granatum</i> (delima, pomegranate), <i>Pyrus communis</i> (pear), <i>Pouteria campechiana</i>, <i>Psidium guineense</i>, <i>Spondias</i> spp., <i>Spondias mombin</i>, <i>Synsepalum dulcificum</i>. <i>Spondias cytherea</i>, <i>Syzygium cumini</i> (jamblang, java plum)), <i>Syzygium samarangense</i> </p>		
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			(jambu Semarang, java apple), <i>Terminalia catappa</i> , <i>Terminalia muelleri</i> , <i>Triphasia</i> sp.,		
14.	<i>Ancistrotermes latinotus</i> Holmgren; Isoptera: Termitidae; Termit	II	<i>Eucalyptus tereticomis</i>	stem, wood	Africa: Malawi, Tanzania, Zimbabwe, Congo
15.	<i>Ancita crocogaster</i> Boisduval; Coleoptera: Cerambycidae; Grey longicorne beetle	II	<i>Acacia</i> spp.	stem, wood	Oceania: Australia
16.	<i>Ancita marginicollis</i> Boisduval; Coleoptera: Cerambycidae; Hitechiked longicorn	II	<i>Acacia</i> spp.	stem, wood	Oceania: Australia
17.	<i>Anobium punctatum</i> DeGeer; Coleoptera: Anobiidae; Common furniture beetle, woodworm	II	<i>Dacrycarpus</i> <i>dacrydioides</i> (kahikatea), <i>Dacr</i> <i>ydium cupressinum</i> (rimu), <i>Pinus radiata</i> (radiata pine), <i>Pseudotsuga</i> <i>menziesii</i> (Douglas fir), <i>Thuja</i> <i>plicata</i> (western red cedar)	stem, litter, wood, furniture	Africa: all America: USA Asia: China Europe: all Oceania: Australia, New Zealand
18.	<i>Anoplophora glabripennis</i> Motschulsky; Coleptera: Cerambycidae; Asian Longhorn beetle, starry sky beetle	II	<i>Acer negundo</i> , <i>Aesculus</i> <i>hippocastanum</i> , <i>Populus</i> spp., <i>Robinia pseudoacacia</i> , <i>Salix</i> spp., <i>Salix babylonica</i> , <i>Salix</i> <i>matsunada</i> , <i>Ulmus pumila</i> , <i>Ulmus laeuig</i> , <i>Eucalyptus diversicolor</i> , <i>Acer</i> <i>buergerianum</i> , <i>Acer davidii</i> ,	stem, wood	America: USA, Canada Asia: China, Japan, Korea DPR (North Korea), Korea Republic (South Korea) Europe: France, Germany, Italy, Poland, England, Switzerland, UK Oceania: Australia

			<i>Acer grosseri</i> , <i>Acer palmatum</i> , <i>Acer pseudoplatanus</i> , <i>Acer rubrum</i> , <i>Acer robustum</i> , <i>Acer saccharum</i> , <i>Acer saccharinum</i> , <i>Acer truncatum</i> , <i>Alnus</i> sp., <i>Betula platyphylla</i> , <i>Elaeagnus angustifolia</i> , <i>Fraxinus</i> sp., <i>Hippophae rhamnoides</i> , <i>Liriodendron tulifera</i> , <i>Malus sylvestris</i> , <i>Morus alba</i> , <i>Platanus orientalis</i> , <i>Sophora</i> sp., <i>Tilia tuan</i> ,		
19.	<i>Antestiopsis facetoides</i> Le Pelley; Hemiptera: Pentatomidae; cherry and flower feeder	II	<i>Coffea</i> spp. (kopi, coffee)	buds, stem, leaf, flower, fruit	Africa: Kenya, Tanzania, Tunisia.
20.	<i>Antestiopsis intricate</i> Ghesq & Carayon; Hemiptera: Pentatomidae; antestia bug	II	<i>Coffea</i> spp. (kopi, coffee)	buds, stem, leaf, flower, fruit	Africa: Benin, Cameroon, Central Africa, Ethiopia, Gabon, Ghana, Ivory Coast, Kenya, Nigeria, Sudan, Togo, Uganda
21.	<i>Antestiopsis orbitalis</i> Westwood; (= <i>Antestia lineaticolli</i> = <i>A. orbitalis facetus</i> = <i>Antestiopsis lineaticollis</i> = <i>A. orbitalis bechuana</i> = <i>A. orbitalis ghesquieri</i> = <i>A. orbitalis orbitalys</i>); Hemiptera: Pentatomidae; antestia	II	<i>Coffea arabica</i> (kopi arabika, arabica coffee) <i>Coffea</i> spp. (kopi, coffee)	buds, stem, leaf, flower, fruit	Africa: Angola, Burundi, Congo, Ethiopia, Kenya, Malawi, Mozambique, Namibia, Rwanda, South Africa, Tanzania, Uganda, Zambia, Zimbabwe
22.	<i>Anthonomus grandis</i> Boheman; (= <i>Anthonomus thurberiae</i> Pierce (1913);	II	<i>Gossypium barbadens</i> (kapas, cotton), <i>Gossypium hirsutum</i>	seedling, flower, fruit	Africa: Benin, South Africa America: Argentina, Belize, Brazil, Colombia, Costa Rica,

	Coleoptera: Curculionidae; Mexican cotton boll weevil, boll weevil, cotton boll weevil, Thurberia weevil		<i>Hibiscus syriacus</i> , <i>Hampea nutricia</i> , <i>Opuntia lindheimeri</i> , <i>Prosopis glandulosa</i> , <i>Thespesia populnea</i>		Cuba, Dominica, El Salvador, Guatemala, Haiti, Honduras, Martinique, Mexico, Nicaragua, Paraguay, St. Kitts & Nevis, USA, Venezuela
23.	<i>Anthonomus signatus</i> Say; (= <i>Anthonomus bisignatus</i> = <i>Anthonomus pallidus</i> = <i>Anthonomus scutellatus</i>); Coleoptera: Curculionidae; strawberry bud weevil, strawberry clipper	II	<i>Fragaria ananassa</i> (strawberry), <i>Rubus idaeus</i> (blackberry), <i>Rubus caesius</i> , <i>Rubus fruticosus</i> , <i>Morus</i> spp. (mulberry), (raspberry)	fruit, flower, growing media	America: Canada, USA
24.	<i>Anthonomus vestitus</i> Boheman; Coleoptera: Curculionidae; Peruvian boll weevil, Peruvian cotton weevil, Peruvian boll weevil, Peruvian square weevil, Peruvian cotton square weevil	II	<i>Gossypium barbadens</i> (kapas, cotton) Abutilon (Indian mallow), <i>Alcea rosea</i> , <i>Althaea</i> (hollyhocks), <i>Hibiscus</i> (rosemallows), <i>Hibiscus rosa-sinensis</i> , <i>Thespesia</i>	seedling, fruit, flower, stek	America: Ecuador, Peru
25.	<i>Aonidomytilus albus</i> Cockerell; (= <i>Coccomytilus dispar</i> = <i>Lepidosaphes alba</i> = <i>L. dispar</i> , <i>Mytilaspis albus</i> , <i>M. dispar</i>); Hemiptera: Diaspididae; cassava scale, white mussel scale, cassava stem mussel scale, tapioca scale	II	<i>Citrus</i> spp. (jeruk, orange), <i>Manihot esculenta</i> (ubi wood, cassava)	buds, stem, leaf	Africa: Angola, Cape Verde, Congo Democratic Republic, Gambia, Ghana, Guinea-Bissau, Ivory Coast, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Senegal, Somalia, Tanzania, Uganda, Zambia. America: Antigua and Barbuda, Argentina, Bahamas, Barbados, British Virgin Islands, Brazil, Colombia,

					Cuba, Dominica, Grenada, Guadeloupe, Guyana France, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Puerto Rico, Peru, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, USA, Virgin Islands Asia: Bahrain, China, India, Sri Lanka, Taiwan, Thailand
26.	<i>Apate monachus</i> Fabricius; (= <i>Apate monacha</i> = <i>A. carmelita</i> = <i>A. francisca</i> = <i>A. gibba</i> = <i>A. mendica</i> = <i>A. monachus</i> var. <i>rufiventris</i> = <i>A. semicostata</i> = <i>A. senii</i>); Coleoptera: Bostrichidae; black borer, twig borer, date palm bostrichid	II	<i>Azadirachta indica</i> (nimba, neem tree), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Casuarina equisetifolia</i> , <i>Citrus sinensis</i> , <i>Coffea arabica</i> (kopi arabika, arabica coffee), <i>Coffea liberica</i> , <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Mangifera indica</i> (mangga, mango), <i>Psidium guajava</i> (jambu seed, guava), <i>Punica granatum</i> (delima, pomegranate), <i>Swietenia mahogany</i> (mahoni, mahogany), <i>Tamarindus indica</i> (asam, tamarind), <i>Theobroma cacao</i> (kakao, cocoa) <i>Annona cherimola</i> (cherimoya), <i>Calicotome spinosa</i> , <i>Citrus</i> spp. (jeruk,	stem, wood	Africa: Algeria, Brazil, Cameroon, Congo, Côte d'Ivoire, Cuba, Dominican Republic, Egypt, Erythrea, Ethiopia, Guadeloupe, Ghana, Guinea, Ivory Coast, Jamaica, Martinique, Morocco, Niger, Nigeria, Puerto Rico, Sao Tome & Principe, Tanzania, Togo, Tunisia, Uganda, Zambia Asia: Israel, Lebanon, Syria. Europe: France, Italy, Spain

			orange), <i>Gleditsia triacanthos</i> , <i>Morus alba</i> (murbei, mulberry), <i>Olea europea subsp. europea</i> (zaitum, olive), <i>Robinia pseudoacacia</i> , <i>Styphnolobium japonicum</i> , <i>Syringa pekinensis</i> , <i>Annona cherimola</i> , <i>Malus domestica</i> (apel, apple), <i>Melia azedarach</i> , <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Tamarix gallica</i> , <i>Vitis vinifera</i> (anggur, grapevine)		
27.	<i>Apate terebrans</i> Pallas; Coleoptera: Bostricidae; shot-hole borer, trunk borer, girdler	II	<i>Acacia</i> spp., <i>Albizia lebeck</i> , <i>A. procera</i> , <i>Anacardium occidentale</i> , <i>Azadirachta indica</i> , <i>Cedrela odorata</i> , <i>Citrus</i> Spp., <i>Coffea arabica</i> , <i>Coffea robusta</i> , <i>Eucalyptus polycarpa</i> , <i>Dalbergia sissoo</i> , <i>Delonix regia</i> , <i>Khaya senegalensis</i> , <i>Melia azedorach</i> , <i>Melia composita</i> , <i>Psidium guajava</i> , <i>Tectona grandis</i> , <i>Terminalia ivorensis</i> , <i>Theobroma cacao</i> , <i>Triplochiton scleroxylon</i>	stem, wood	Africa: Ghana, Kenya, Nigeria, Natal, Sahara, Tanzania, Uganda America: Brazil Asia: India
28.	<i>Apriona germari</i> (Hope); Coleoptera: Cerambycidae; Mulberry	II	<i>Artocarpus integra</i> , <i>Morus alba</i> , <i>Salix tetrasperma</i>	stem, wood	Asia: Cambodia, China, India, Japan, Republic of Korea, Laos, Malaysia, Myanmar,

	longhorn beetle				Nepal, Pakistan, Taiwan, Thailand, Pakistan, Vietnam
29.	<i>Argyrotaenia velutinana</i> Walker; (=Eulia velutinana =Tortrix velutinana); Lepidoptera: Tortricidae; redbanded leafroller	II	<i>Acer</i> sp. (maple), <i>Apocynum</i> sp. (dogbane), <i>Ilex decidua</i> , <i>Ambrosia trifida</i> , <i>Betula papyrifera</i> , <i>Chrysanthemum</i> , <i>Persea americana</i> (avokad, avocado), <i>Malus domestica</i> (apel, apple), <i>Psidium guajava</i> (jambu seed, guava), <i>Syzygium aquea</i> (jambu air, star apple), <i>Mangifera indica</i> (mangga, mango), <i>Pyrus communis</i> (pir, pear), <i>Zinia violacea</i> , <i>Lobelia</i> sp., <i>Lonicera</i> sp., <i>Vaccinium</i> sp., <i>Quercus</i> sp., <i>Geranium</i> sp., <i>Alcea rosea</i> , <i>Myrica gale</i> , <i>Platanthera cristata</i> , <i>Abies balsamea</i> , <i>Larix</i> spp., <i>Picea glauca</i> , <i>Picea mariana</i> , <i>Picea rubens</i> , <i>Pinus sylvestris</i> , <i>Tsuga Canadensis</i> , <i>Malus</i> spp., <i>Prunus domestica</i> , <i>Prunus pensylvanica</i> , <i>Prunus persica</i> , <i>Prunus serotina</i> , <i>Rosa</i> spp., <i>Populus tremuloides</i> ,	stem, leaf, fruit	America: Canada, Mexico, USA
30.	<i>Arhopalus ferus</i> Fabricius; Coleoptera: Cerambycidae; Burnt pine longicorn	II	Burned or windthrown pine and spruce	stem, wood	Europe: England, Russia Oceania: New Zealand

<p>31. <i>Aspidiotus nerii</i> Bouché; (=<i>Aspidiotus aloes</i> =<i>Aspidiotus hederae</i> =<i>Aspidiotus limonii</i> =<i>Aspidiotus genistae</i> =<i>Chermes aloes</i> =<i>Chermes ericae</i> =<i>Chermes cycadicola</i> =<i>Diaspis bouchei</i> =<i>Aspidiotus bouchei</i> =<i>Chermes nerii</i> =<i>Aspidiotus affinis</i> =<i>Aspidiotus caldesii</i> =<i>Aspidiotus denticulatus</i> =<i>Aspidiotus villosus</i> =<i>Aspidiotus budleiae</i> =<i>Aspidiotus ceratoniae</i> = <i>Aspidiotus cycadicola</i> =<i>Aspidiotus epidendri</i> =<i>Aspidiotus ericae</i> =<i>Aspidiotus gnidii</i> =<i>Aspidiotus ilicis</i> =<i>Aspidiotus myricinae</i> =<i>Aspidiotus ulicis</i> =<i>Aspidiotus uriesciae</i> =<i>Aspidiotus lentisci</i> =<i>Aspidiotus capparis</i> =<i>Aspidiotus myrsinae</i> =<i>Aspidiotus budlaei</i> =<i>Aspidiotus atherospermae</i> =<i>Aspidiotus oleae</i> =<i>Aspidiotus corynocarpi</i> =<i>Aspidiotus oleastin</i> =<i>Aspidiotus offinis</i></p>	<p>II</p>	<p><i>Actinidia chinensis</i> (Chinese gooseberry), <i>Albizia julibrissin</i> (silk tree), Citrus, <i>Olea</i> (olive), Oleaceae, <i>Ananas comosus</i> (nanas, pineapple), <i>Asparagus setaceus</i> (Asparagus fern), <i>Asplenium nidus</i> (bird's nest fern), <i>Ceratonia</i>, <i>Cocos nucifera</i> (kelapa , coconut), <i>Dianthus caryophyllus</i> (carnation), <i>Diospyros</i> (malabar ebony), <i>Hedera helix</i> (ivy), <i>Ilex aquifolium</i> (holly), <i>Juniperus</i> (junipers), <i>Laurus nobilis</i> (sweet bay), <i>Magnolia</i>, <i>Mangifera indica</i> (mangga, mango), <i>Melia azedarach</i> (Chinaberry), <i>Morus</i> (mulberry tree), <i>Musa paradisiaca</i> (pisang kepok, plantain), <i>Nerium</i> (oleander), Orchidaceae (orchids), <i>Pandanus</i> (screw-pine), <i>Phoenix</i> (date palm), <i>Plumeria rubra</i> var. <i>acutifolia</i> (Mexican frangipani), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (European pear), <i>Rosa</i> (mawar, roses), <i>Simmondsia chinensis</i> (jojoba), <i>Vitis vinifera</i> (anggur, grapevine)</p>	<p>bibit plant, flower, fruit, leaf, stem</p>	<p>Africa: Algeria, Cape Verde, Congo, Egypt, Eritrea, Ethiopia, Kenya, Libya, Madagascar, Malawi, Morocco, Nigeria, Portugal, South Africa, Spain, Tanzania, Tunisia, Uganda, Zimbabwe America: Argentina, Bermuda, Bolivia, Brazil, Central America, Chile, Colombia, Ecuador, Mexico, North America, USA, Peru, Uruguay Asia: China, Iran, Israel, Japan, Jordan, Lebanon, Saudi Arabia, Syria, Turkey Europe: Bulgaria, Bosnia and Herzegovina, Cyprus, Croatia, France, Gibraltar, Greece, Italy, Macedonia, Malta, Montenegro, Poland, Portugal, Romania, Spain, Serbia, Slovenia, UK, Yugoslavia Oceania: Australia, New Caledonia, New Zealand, Norfolk Island</p>
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	<p>=<i>Aspidiotus sophorae</i> =<i>Aspidiotus carpodeti</i> =<i>Aspidiotus transpareus</i> var. <i>simillimus</i> =<i>Aspidiotus vagabundus</i> =<i>Aspidiotus simillimus</i> =<i>Aspidiotus transvaalensis</i> =<i>Aspidiotus confusus</i> =<i>Aspidiotus tasmaniae</i> =<i>Aspidiotus viresciae</i> =<i>Octaspidotus atherospermae</i> =<i>Chermes hederiae</i> =<i>Chermes genistae</i> =<i>Chermes osmanthi</i> =<i>Aspidiotus transpareus</i> var. <i>rectangulatus</i> =<i>Aspidiotus rectangulatus</i> =<i>Aspidiosus unipectinatus</i> =<i>Aspidiotus hederiae</i> var. <i>urenae</i> =<i>Aspidiotus urenae</i> =<i>Octaspidotus anthospermae</i> =<i>Aspidiotus hederiae</i> =<i>Aspidiotus hederiae</i> ssp. <i>unisexualis</i>); Hemiptera: Diaspididae; aucuba scale; ivy scale; white scale; oleander scale</p>				
32.	<p><i>Augosoma centaurus</i> Fabricius; Coleoptera: Scarabaeidae; stem tissues borer</p>	II	<p><i>Elaeis guineensis</i> (kelapa sawit, Oilpalm), palma lainnya (other palmae)</p>	<p>stem, growing media, sisa tanaman</p>	<p>Africa: Cameroon, Gambia, Ghana, Guinea, Ivory Coast, Liberia, Niger, Nigeria, Senegal.</p>

33.	<i>Bactrocera caryeae</i> Kapoor; (= <i>Dacus caryeae</i> Kapoor); Diptera: Tephritidae; Indian fruit fly	II	<i>Aegle marmelos</i> (maja, bael fruit, golden apple), <i>Citrus</i> spp, <i>Citrus maxima</i> , <i>Citrus</i> <i>reticulata</i> , <i>Malpighia</i> <i>glabra</i> , <i>Mangifera indica</i> (mangga, mango), <i>Pouteria</i> <i>sapota</i> , <i>Psidium guajava</i> (jambu seed, guava)	fruit, growing media (soil)	Asia: India, Sri Lanka.
34.	<i>Bactrocera curvipennis</i> (Froggatt); (= <i>Bactrocera</i> <i>curvipennis</i> = <i>Chaetodacus</i> <i>curvipennis</i> = <i>Dacus</i> <i>curvipennis</i> = <i>Strumetacurvipennis</i>); Diptera: Tephritidae; banana fruit fly	II	<i>Anacardium occidentale</i> , <i>Annona reticulata</i> , <i>Averrhoa</i> <i>carambola</i> (belimbing, star- fruit), <i>Calophyllum</i> <i>inophyllum</i> , <i>Capsicum</i> <i>annuum</i> (cabai besar, paprika, bell pepper), <i>Couthovia neo-</i> <i>caledonica</i> , <i>Carica papaya</i> (pepaya, papaya, pawpaw), <i>Citrus</i> spp. (jeruk, orange), <i>Casimiroa eludis</i> , <i>Citrus</i> <i>latifolia</i> , <i>Citrus maxima</i> , <i>Citrus</i> <i>reticulata</i> , <i>Citrus sinensis</i> , <i>Citrus x paradisi</i> , <i>Coffea</i> <i>arabica</i> , <i>Diospyros</i> <i>macrocarpa</i> , <i>Euginia uniflora</i> , <i>Eriobotrya japonica</i> , <i>Fragaria</i> <i>ananassa</i> , <i>Guettarda</i> <i>speciosa</i> , <i>Mangifera indica</i> (mangga, mango), <i>Meremia</i> <i>tuberosa</i> , <i>Malpighia glabra</i> , <i>Morus alba</i> , <i>Ochrosia elleptica</i> , <i>Psidium cattleianum</i> , <i>Psidium</i> <i>friedrichstalianum</i> , <i>Psidium</i>	fruit, growing media (soil)	Oceania: New Caledonia, Vanuatu

			<i>guajava</i> (jambu seed, guava), <i>Passiflora foetida</i> , <i>Prunus domestica</i> , <i>Prunus persica</i> , <i>Prunus</i> var. <i>nectaria</i> , <i>Solanum lycopersicum</i> (tomat, tomato), <i>Syzygium malaccense</i> , <i>Thevetia peruviana</i> , <i>Terminalia catappa</i> , <i>Vitis vinifera</i> (anggur, grape), <i>Zizyphus mauritania</i> ,		
35.	<i>Bactrocera depressa</i> (Shiraki); (= <i>Bactrocera (Paradacus) depressa</i> = <i>B. depressus</i> = <i>Dacus depressus</i> = <i>Paradacus depressus</i> = <i>Zeugodacus depressus</i>); Diptera: Tephritidae; pumpkin fruit fly	II	<i>Cucurbita moschata</i> (waluh, labu, pumpkin), <i>Cucurbita maxima</i> (waluh, labu parang, pumpkin)	fruit, growing media (soil)	Asia: China, Taiwan, Japan, Korea
36.	<i>Bactrocera dorsalis</i> (Hendel); Diptera: Tephritidae; oriental fruitfly	II	<i>Aegle marmelos</i> , <i>Anacardium occidentale</i> (kacang mete, cashew nut), <i>Annona reticulata</i> (buah nona, srikaya, bullock's heart), <i>Annona squamosa</i> (srikaya, sweetsop), <i>Areca catechu</i> (pinang, betelnut palm), <i>Artocarpus altilis</i> , <i>Artocarpus heterophyllus</i> (nangka, jackfruit), <i>Averrhoa carambola</i> (belimbing, star fruit), <i>Capsicum annuum</i> (cabai	fruit, growing media (soil)	America: USA Asia: Bangladesh, Bhutan, Cambodia, China, Hong Kong, India, Laos, Myanmar, Nepal, Pakistan, Sri Lanka, Taiwan, Thailand, United Arab Emirates, Vietnam. Oceania: Belau, French Polynesia, Mariana Islands, Nauru, New Caledonia, Palau

			<p> besar, paprika, bellpepper), <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Chrysophyllum cainito</i>, Citrus, <i>Citrus aurantiifolia</i> (lime), <i>Citrus maxima</i> (pummelo), <i>Citrus reticulata</i> (mandarin), <i>Coffea arabica</i> (arabicacoffee), <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Dimocarpus</i> <i>longan</i> (longan), <i>Diospyros</i> <i>kaki</i> (kesemek, persimmon), <i>Ficus racemosa</i>, <i>Flacourtia</i> <i>indica</i> (governor's plum), <i>Malpighia glabra</i>, <i>Malus</i> <i>domestica</i> (apel, apple), <i>Mangifera foetida</i>, <i>Mangifera</i> <i>indica</i> (mangga, mango), <i>Manilkara zapota</i> (sawo, sapodilla), <i>Mimusops elengi</i> (spanish cherry), <i>Momordica</i> <i>charantia</i> (paria, bitter gourd), <i>Muntingia calabura</i> (Jamaica cherry), <i>Musa</i> (pisang, banana), <i>Nephelium</i> <i>lappaceum</i> (rambutan), <i>Persea americana</i> (avokad, avocado), <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus</i> <i>avium</i> (sweet cherry), <i>Prunus</i> <i>cerasus</i> (sour cherry), <i>Prunus</i> </p>		
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			<p><i>domestica</i> (plum), <i>Prunus mume</i> (Japanese apricot), <i>Prunus persica</i> (persik, peach), <i>Psidium guajava</i> (jambu, guava), <i>Punica granatum</i> (delima, pomegranate), <i>Pyrus communis</i> (pir, European pear), <i>Spondias purpurea</i> (red mombin), <i>Syzygium aqueum</i> (watery rose-apple), <i>Syzygium aromaticum</i> (cengkeh, clove), <i>Syzygium cumini</i>, <i>Syzygium jambos</i> (rose apple), <i>Syzygium malaccense</i> (jambu bol, malay-apple), <i>Syzygium samarangense</i>, <i>Terminalia catappa</i> (ketapang, Indian almond), <i>Ziziphus jujuba</i>, <i>Ziziphus mauritiana</i></p>		
37.	<i>Bactrocera invadens</i> Drew, Tsuruta & white; Diptera: Tephritidae	II	<p><i>Maerua duchesnei</i>, <i>Mangifera indica</i> (mangga, mango), <i>Psidium guajava</i> (jambu, guava) <i>Anacardium occidentale</i> (cashew nut), <i>Ananas comosus</i> (nanas, pineapple), <i>Annona cherimola</i> (cherimoya), <i>Annona muricata</i> (sirsak, soursop), <i>Annona squamosa</i> (markisa, sugar apple), <i>Averrhoa carambola</i></p>	fruit, growing media (soil)	Afrika: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republik, Chad, Congo, DR Cogo, Ivory Coast, Equatorial Guinea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Madagascar, Mali, Mauritania, Mayotte, Mozambique, Namibia, Niger, Nigeria,

			<p>(belimbing, star fruit), <i>Blighia sapida</i> (akee apple), <i>Capsicum annuum</i> (paprika, bell pepper), <i>Capsicum frutescens</i> (cabai rawit, chilli), <i>Carica papaya</i> (pepaya, papaya), <i>Chrysophyllum albidum</i>, <i>Citrullus colocynthis</i> (colocynth), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Citrus aurantium</i> (sour orange), <i>Citrus limon</i> (jeruk lemon, lemon), <i>Citrus reticulata</i> (jeruk mandarin, mandarin), <i>Citrus sinensis</i> (navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Cordia sinensis</i>, <i>Cucumis ficifolius</i>, <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita maxima</i> (labu parang, giant pumpkin), <i>Cucurbita pepo</i> (labu parang, ornamental gourd), <i>Diospyros kaki</i> (perismmon), <i>Diospyros montana</i>, <i>Dracaena steudneri</i>, <i>Durio zibethinus</i> (durian, durian), <i>Eriobotrya japonica</i> (loquat), <i>Ficus sycomorus</i>, <i>Flacourtia indica</i>, <i>Fortunella japonica</i>, <i>Garcinia manni</i>, <i>Irvingia gabonensis</i>,</p>	<p>Rwanda, Senegal, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe Asia: Bhutan, India, Sri Lanka</p>
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			<p>Landolphia, <i>Malus domestica</i> (apel, apple), <i>Momordica charantia</i> (paria, bitter gourd), <i>Musa</i>, <i>Musa x paradisiaca</i> (pisang, banana), <i>Nauclealatifolia</i> (pin cushion tree), <i>Persea americana</i> (avokad, avocado), <i>Prunus persica</i> (persik, peach), <i>Saba senegalensis</i>, <i>Sclerocarya birrea</i> (marula), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Sorindeia madagascariensis</i>, <i>Spondias dulcis</i> (otaheite apple), <i>Spondias mombin</i> (hog plum), <i>Strychnos mellodora</i>, <i>Syzygium jambos</i>, <i>Syzygium malaccense</i>, <i>Syzygium semarangense</i>, <i>Terminalia catappa</i>, <i>Vitellaria paradoxa</i>, <i>Ziziphus mauritania</i></p>		
38.	<p><i>Bactrocera jarvisi</i> (Tryon); (= <i>Afrodacus jarvisi</i> = <i>Dacus jarvisi</i> = <i>D. australis</i> = <i>Chaetodacus jarvisi</i>); Diptera: Tephritidae; Fiji fruitfly, Jarvis's fruitfly</p>	II	<p><i>Mangifera indica</i> (mangga, mango), <i>Psidium guajava</i> (jambu seed, guava), <i>Terminalia catappa</i> (ketapang, Indian almond) <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Annona glabra</i>, <i>Annona muricata</i> (sirsak, soursop), <i>Areca catechu</i> (pinang, betelnut palm), <i>Averrhoa</i></p>	fruit, growing media (soil)	Oceania: Australia

			<p><i>carambola</i>(belimbing, star-fruit), <i>Carica papaya</i> (pepaya, pawpaw,papaya), <i>Citrus</i> spp (jeruk, orange), <i>Cydonia oblonga</i> (kwinsi, quince), <i>Diospyros blancoi</i>, <i>Diospyros kaki</i> (kesemek, persimmon), <i>Feijoa sellowiana</i>, <i>Fortunella japonica</i> (kumkwat, kumquat), <i>Malus domestica</i> (apel, apple), <i>Malpighia emarginata</i>, <i>Musa paradisiaca</i> (pisang, kepok, plantain), <i>Opuntia</i> sp., <i>Passiflora quadrangularis</i>(markisa, passion-fruit, granadilla), <i>Persea americana</i> (avokad, avocado), <i>Planchonia careya</i>, <i>Pouteria campechiana</i>, <i>Pouteria caimito</i>, <i>Prunus americana</i> (aprikot, apricot), <i>Prunus persica</i> (persik, peach), <i>Psidium cattleianum</i>, <i>Punica granatum</i> (delima, pomegranate), <i>Pyrus communis</i> (pir, pear), <i>Spondias purpurea</i>, <i>Syzygium aquea</i> (jambu air, star apple), <i>Psidium guajava</i> (jambu seed, guava), <i>Syzygium malaccense</i> (jambu bol, malay apple), <i>Syzygium samarangense</i></p>		
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			(jambu Semarang, Java apple), <i>Terminalia arenicola</i>		
39.	<i>Bactrocera kandiensis</i> Drew & Hancock; (= <i>Bactrocera</i> sp. near <i>dorsalis</i>); Diptera: Tephritidae; Sri Lankan fruit fly	II	<i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Annona glabra</i> , <i>Areca catechu</i> (pinang, betelnut palm), <i>Artocarpus integrifolius</i> (nangka, jackfruit), <i>Artocarpus heterophyllus</i> (nangka, jackfruit), <i>Averrhoa carambola</i> (belimbing, carambola, star-fruit), <i>Citrus maxima</i> , <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (avokad, avocado), <i>Psidium guajava</i> (jambu seed, guava), <i>Punica granatum</i> (delima, pomegranate), <i>Spondias cytherea</i> , <i>Syzygium aromaticum</i> (cengkeh, clove), <i>Syzygium aquea</i> (jambu air, star apple), <i>Mangifera indica</i> (mangga, mango) <i>Carica papaya</i> (pepaya, pawpaw, papaya)	fruit, growing media (soil)	Asia: Sri Lanka
40.	<i>Bactrocera kinabalu</i> Drew & Hancock; Diptera: Tephritidae; Kinabalu fruit fly	II	<i>Persea americana</i> (avokad, avocado)	fruit, growing media (soil)	Asia: Malaysia
41.	<i>Bactrocera neohumeralis</i> Hardy; (= <i>Chaetodacus humeralis</i> = <i>C. tryoni</i> var.	II	<i>Psidium guajava</i> (jambu seed, guava) <i>Anacardium occidentale</i>	fruit, growing media (soil)	Oceania: Australia, Papua New Guinea.

	<p><i>sarcocephali</i> =<i>Dacus neohumeralis</i> =<i>Dacus tryoni</i> var. <i>neohumeralis</i>); Diptera: Tephritidae; lesser Queensland fruit fly</p>	<p>(jambu mete, cashew), <i>Annona</i> spp. (buah nona, sirsak, srikaya, annona, soursop, sweetsop), <i>Annona glabra</i>, <i>Annona muricata</i>, <i>Annona reticulata</i>, <i>Annona squamosa</i>(sugar apple),<i>Avverhoa carambola</i> (belimbing, carambola, star fruit), <i>Cananga odorata</i> (kenanga, cadmia), <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Citrus</i> spp. (jeruk, orange), <i>Clausena lansium</i>, <i>Calophyllum inophyllum</i> (nyamplung, Alexandrian laurel), <i>Coffea</i> spp. (kopi, coffee), <i>Capsicum annuum</i> (cabai besar, paprika, bell pepper), <i>Crateva religiosa</i>, <i>Chrysophyllum cainito</i> (kenitu, sawo duren, cainito), <i>Casimiroa edulis</i>, <i>Cyphomandra betacea</i>, <i>Diospyros blancoi</i>, <i>Diospyros kaki</i> (kesemek, persimmon), <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Eugenia dombeyi</i>, <i>Eugenia uniflora</i>,<i>Feijoa sellowiana</i>, <i>Fortunella japonica</i> (kumkwat, kumquat),</p>		
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			<p><i>Solanum lycopersicum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Malpighia emarginata</i>, <i>Mangifera indica</i> (mangga, mango), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Morus nigra</i> (murbei, mulberry), <i>Musa x paradisiaca</i> (pisang kepok, plantain), <i>Muntingia calabura</i> (kersen, talok, Jamaica cherry), <i>Myrciaria cauliflora</i>, <i>Passiflora</i> spp, <i>Phoenix dactylifera</i> (kurma, date-palm), <i>Pouteria caimito</i>, <i>Prunus americana</i> (aprikot, apricot), <i>Prunus domesticum</i> (plam, plum), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Rollinia mucosa</i>, <i>Rubus rosaefolius</i>, <i>Solanum laciniatum</i>, <i>Solanum seforthianum</i>, <i>Spondias mombin</i>, <i>Spondias purpurea</i>, <i>Synsepalum dulcificum</i>, <i>Syzygium</i> spp, <i>Terminalia catappa</i>, <i>Vitis labrusca</i>, <i>Ziziphus jujuba</i>.</p>		
42.	<p><i>Bactrocera passiflorae</i> (Froggatt); (= <i>Bactrocera passiflorae</i> = <i>Chaetodacus passiflorae</i> = <i>Dacus</i></p>	II	<p><i>Anacardium occidentale</i>, <i>Artocarpus altilis</i>, <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Citrus</i></p>	fruit, growing media (soil)	<p>Oceania: Fiji, Niue, Tonga, Tuvalu, Wallis-Futuna.</p>

	<i>passiflorae</i> = <i>Strumeta passiflorae</i>); Diptera: Tephritidae; Fijian fruit fly		spp.(jeruk, orange), <i>Citrus aurantifolia</i> , <i>Citrus reticulata</i> , <i>Mangifera indica</i> (mangga, mango), <i>Passiflora edulis</i> , <i>Passiflora quadrangularis</i> (markisah, passion-fruit, granadilla), <i>Persea americana</i> (avokad, avocado), <i>Psidium guajava</i> (jambu seed, guava) <i>Theobroma cacao</i> (kakao, cocoa)		
43.	<i>Bactrocera philippinensis</i> Drew & Hancock; Diptera: Tephritidae; Phillippines fruit fly	II	<i>Mangifera indica</i> (mangga, mango), <i>Artocarpus communis</i> (sukun, breadfruit), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Averrhoa carambola</i> (belimbing, star-fruit), <i>Ananas comosus</i> (nanas, pineapple), <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Citrus</i> spp.(jeruk, orange), <i>Psidium guajava</i> (jambu seed, guava), <i>Pouteria duklitan</i> , <i>Spondias purpurea</i> , <i>Syzygium malaccense</i> (jambu bol, malay apple)	fruit, growing media (soil)	Asia: Philippines
44.	<i>Bactrocera psidii</i> (Frogg.); (= <i>Dacus psidii</i> = <i>D. ornatissimus</i> = <i>D. virgatus</i> = <i>Strumeta psidii</i> = <i>Tephritis psidii</i>); Diptera: Tephritidae; South Sea	II	<i>Psidium guajava</i> (jambu seed, guava), <i>Prunus persica</i> (persik, peach) <i>Aleurites moluccana</i> (kemiri, candle nut), <i>Anacardium occidentale</i> (jambu mete,	fruit, growing media (soil)	Oceania: New Caledonia

	guava fruit fly		cashew-nut), <i>Annona muricata</i> , <i>Annona reticulata</i> , <i>Annona squamosa</i> (srikaya, sweetsop), <i>Carica papaya</i> (pepaya, papaya, pawpaw), <i>Cerbera manghas</i> , <i>Caryophyllus</i> sp., <i>Citrus maxima</i> (jeruk Bali, pummelo), <i>Diospyros bicolor</i> , <i>Diospyros kaki</i> , <i>Diospyros macrocarpa</i> , <i>Eugenia uniflora</i> , <i>Diospyros</i> sp., <i>Ficus</i> spp., <i>Mangifera indica</i> (mangga, mango), <i>Malphigia glabra</i> , <i>Morus alba</i> , <i>Psidium cattleianum</i> , <i>Psidium guajava</i> (jambu seed, guava), <i>Prunus granatum</i> , <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (persik, peach), <i>Syzygium aquea</i> (jambu air, star apple), <i>Syzygium jambos</i> , <i>Syzygium malaccense</i> (jambu bol, malay apple), <i>Terminalia catappa</i> (ketapang, indian almond), <i>Thevetia peruviana</i> , <i>Vitis vinifera</i> (anggur, grape)		
45.	<i>Bactrocera pyrifoliae</i> Drew & Hancock; Diptera: Tephritidae; pyrifolia fruit fly	II	<i>Psidium guajava</i> (jambu seed, guava), <i>Prunus persica</i> (persik, peach), <i>Pyrus pyrifolia</i> (Pear)	fruit, growing media (soil)	Asia: Thailand, Vietnam

46.	<p><i>Bactrocera tryoni</i> (Froggatt); (=<i>Bactrocera tryoni</i> =<i>Chaetodacus sarcocephali</i> =<i>Chaetodacus tryoni</i> =<i>Dacus tryoni</i> =<i>D. ferrugineus tryoni</i> =<i>Strumeta melas</i> =<i>Strumeta tryoni</i> =<i>Tephritis tryoni</i>); Diptera: Tephritidae; Queensland fruit fly</p>	II	<p><i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Anona</i> spp, <i>Averrhoa carambola</i> (belimbing, star-fruit), <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Coffea</i> spp. (kopi, coffee), <i>Capsicum annuum</i> (cabai besar, paprika, bell-pepper), <i>Chrysophyllum cainito</i>, <i>Casimiroa edulis</i>, <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Eugenia uniflora</i>, <i>Fortunella japonica</i> (kumkwat, kumquat), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Malus sylvestris</i> (crab-apple), <i>Mangifera indica</i> (mangga, mango), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Morus nigra</i>, <i>Passiflora quadrangularis</i> (markisa, passion-fruit, granadilla), <i>Passiflora suberosa</i>, <i>Prunus persica</i> (persik, peach), <i>Psidium cattleianum</i>, <i>Psidium guajava</i> (jambu seed, guava), <i>Syzygium</i> spp, <i>Terminalia catappa</i> (ketapang, indian almond). <i>Aegle marmelos</i> (maja, bael</p>	fruit, growing media (soil)	Oceania: Australia, Polynesia France, New Caledonia.
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		<p>fruit), <i>Annona squamosa</i> (srikaya, sweetsop), <i>Averrhoa bilimbi</i> (belimbing sayur, bilimbi), <i>Blighia sapida</i>, <i>Cananga odorata</i> (kenanga, cadmia), <i>Citrus</i> spp., <i>Clausena lansium</i>, <i>Calophyllum inophyllum</i> (nyamplung, alexander laurel), <i>Cucurbita maxima</i>(waluh, labu parang, pumpkin), <i>Cydonia oblonga</i> (kwinsi, quince), <i>Cyphomandra betacea</i>, <i>Dimocarpus longan</i> (kelengkeng, longan), <i>Diospyros blancoi</i>, <i>Diospyros kaki</i> (kesemek, persimmon), <i>Dovyalis caffra</i>, <i>Eremocitrus glauca</i>, <i>Eugenia dombeyi</i>, <i>Feijoa sellowiana</i>, <i>Ficus racemosa</i>, <i>Flacourtia jangomas</i>, <i>Flacourtia rukam</i> (rukem, rukam), <i>Fortunellax crassifolia</i>, <i>Grewia asiatica</i>, <i>Juglans regia</i> (walnut, walnut), <i>Dimocarpus litchii</i> (leci,litchii), <i>Malpighia emarginata</i>, <i>Mimusops elengi</i> (tanjung, asian bulletwood), <i>Momordica charantia</i> (paria, bitter gourd), <i>Morus alba</i></p>		
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			<p>(murbei, mulberry), <i>Musa paradisiaca</i> (pisang kepok, plantain), <i>Myrciaria cauliflora</i>, <i>Nephelium lappaceum</i> (rambutan, rambutan), <i>Nerium oleander</i>, <i>Olea europea</i> subsp. <i>europea</i> (zaitum, olive), <i>Opuntia ficus-indica</i>, <i>Passiflora foetida</i>, <i>Passiflora quadrangularis</i> (markisa, passion fruit, granadilla), <i>Persea americana</i> (avocad, avocado), <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Physalis peruviana</i> (gooseberry), <i>Pometia pinnata</i>, <i>Pouteria campechiana</i>, <i>Pouteria caimito</i>, <i>Pouteria sapota</i>, <i>Prunus</i> spp., <i>Psidium guineense</i>, <i>Punica granatum</i> (delima, pomegranate), <i>Phyllanthus acidus</i>, <i>Pyrus communis</i> (pir, pear), <i>Rollinia mucosa</i>, <i>Rollinia pulchrinervis</i>, <i>Rubus fruticosus</i>, <i>Rubus ursinus</i>, <i>Solanum melongena</i> (terung, eggplant), <i>Solanum</i> spp., <i>Spondias</i> spp., <i>Synsepalum dulcificum</i>, <i>Syzygium</i> spp., <i>Thevetia peruviana</i>, <i>Trichosanthes cucumerina</i>, <i>Vitis labrusca</i>,</p>		
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			<i>Vitis vinifera</i> (anggur, grapevine), <i>Ziziphus mauritiana</i>		
47.	<i>Bactrocera tsuneonis</i> (Miyake); (= <i>Dacus chenia</i> = <i>D. tsuneonis</i> = <i>Tetradacus tsuneonis</i>); Diptera: Tephritidae; Japanese orange fly, Citrus fruit fly	II	<i>Citrus</i> spp. (jeruk, orange), <i>Citrus aurantium</i> , <i>Citrus reticulata</i> , <i>Citrus sinensis</i> , <i>Fortunella margarita</i> (oval kumquat), <i>Fortunella x crassifolia</i> , <i>Musa</i> spp. (pisang, banana)	fruit, growing media (soil)	Asia: China, Japan, Taiwan, Vietnam
48.	<i>Bothynus gibbosus</i> De Geer; (= <i>Ligyris gibbosus</i> = <i>L. californicus</i>); Coleoptera: Scarabaeidae; carrot beetle, carrot head beetle, muck beetle	II	<i>Apium graveolens</i> (seledri, celery), <i>Daucus carota</i> (wortel, carrot), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Solanum tuberosum</i> (kentang, potato), <i>Zea mays</i> (jagung, corn)	stem, bulb, tuber, corm, root, soil	America: Canada, Mexico, USA
49.	<i>Busseola fusca</i> Fuller; (= <i>Calamistis fusca</i> = <i>Busseola sorghicida</i> = <i>Sesamia fusca</i>); Lepidoptera: Noctuidae; African maize stalk borer, maize stalk borer, maize stem borer, sorghum stalk/stem borer	II	<i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorgum, sorghum) <i>Eleusine coracana</i> , <i>Oryza sativa</i> (padi, paddy), <i>Pennisetum glaucum</i> (bajra, pearl-millet), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Hyparrhenis rufa</i> , <i>Hyparrhenis tamba</i> , <i>Megathyrus maximus</i> , <i>Pennisetum purpureum</i> , <i>Rotboellia cochinchinensis</i>	stem, stalk, leaf, flower, root	Africa: Angola, Benin, Burkina Faso, Burundi, Cameroon, Chad, DR Congo, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Ivory Coast, Kenya, Lesotho, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe

50.	<i>Caliothrips masculinus</i> Hood; Thysanoptera: Thripidae	II	<i>Manihot esculenta</i> (ubi wood, cassava)	leaf	America: Trinidad and Tobago
51.	<i>Carposina sasakii</i> Matsumura; (= <i>Carposina niponensis</i> (Wals.) = <i>C. persicana</i> = <i>Cydia persicana</i>); Lepidoptera: Carposinidae; peach fruit moth, peach fruit borer	II	<i>Malus domestica</i> (apel, apple), <i>Pyrus communis</i> (pir, pear), <i>Prunus persica</i> (persik, peach) <i>Aronia arbutifolia</i> , <i>Chaenomeles japonica</i> , <i>Cornus mas</i> , <i>Cratageus cuneata</i> , <i>Cydonia oblonga</i> (quince), <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Malus</i> spp., <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus domesticum</i> (plum), <i>Prunus dulcis</i> (almond), <i>Sorbus aucuparia</i> , <i>Ziziphus jujube</i>	fruit	Asia: China, Japan, Korea DPR (North Korea), Republic of Korea (South Korea). Europe: Russia
52.	<i>Caulophilus oryzae</i> (Gyllenhal); (= <i>Caulophilus latinasus</i> = <i>Rhyncolus oryzae</i>); Coleoptera: Curculionidae; broad nosed grain weevil, broad nosed granary weevil	II	<i>Cicer arietinum</i> (chickpea), <i>Panicum miliaceum</i> (millet), <i>Pennisetum</i> spp., <i>Zea mays</i> (jagung, corn) <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Persea americana</i> (avokad, avocado), <i>Zingiber officinale</i> (jahe, ginger)	seed, bulb, tuber, corm, root, rhizome	America: Cuba, Guatemala, Jamaica, Mexico, Panama, Puerto Rico, USA Europe: Portugal
53.	<i>Cephus cinctus</i> Norton; (= <i>Cephus occidentalis</i>); Hymenoptera: Cephidae; wheat stem sawfly western wheat-stem fly	II	<i>Triticum aestivum</i> (gandum, wheat), serealea (cereal) <i>Agropyron</i> , <i>Elymus</i> , <i>Hordeum vulgare</i> (barli, barley), <i>Phleum</i>	stem	America: Canada, USA. Asia: Kazakhstan Europe: Russia

54.	<p><i>Ceratitis capitata</i> (Wiedemann); (= <i>Ceratitis citriperda</i> = <i>Ceratitis hispanica</i> = <i>Tephritis capitata</i>); Diptera: Tephritidae; Mediterranean fruit fly, medfly</p>	II	<p><i>Gossypium barbadens</i> (kapas, cotton), <i>Coffea</i> spp. (kopi, coffee), <i>Vitis vinifera</i> (anggur, grapevine), <i>Persea americana</i> (avokad, avocado), <i>Annona</i> spp., <i>Malus domestica</i> (apel, apple), <i>Capsicum annuum</i> (cabai besar, paprika, bell-pepper), <i>Citrus</i> spp. (jeruk, orange), <i>Mangifera indica</i> (mangga, mango), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Theobroma cacao</i> (kakao, cocoa), <i>Psidium guajava</i> (jambu seed, guava) <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Annona reticulata</i>, <i>Citrus</i> spp., <i>Carissa</i> spp., <i>Chrysophyllum cainito</i>, <i>Casimiroa edulis</i>, <i>Cyphomandra betacea</i>, <i>Dovyalis caffra</i>, <i>Eugenia</i> spp., <i>Garcinia mangostana</i> (manggis, mangosteen), <i>Juglans regia</i>, <i>Dimocarpus litchii</i> (leci, litchii), <i>Malpighia glabra</i>, <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Morus</i>, <i>Mespilus germanica</i>, <i>Muntingia calabura</i> (kersen, talok, jamaica cherry), <i>Opuntia</i> spp., <i>Passiflora</i></p>	fruit, growing media (soil)	<p>Africa: Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Comoros, DR Congo, Congo, Egypt, Ethiopia, Gabon, Ghana, Guinea, Ivory Coast, Kenya, Liberia, Libya, Madagascar, Malawi, Mali, Morocco, Mauritius, Mozambique, Niger, Nigeria, Réunion, St. Helena, Sao Tome & Principe, Senegal, Seychelles, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Tunisia, Uganda, Zambia, Zimbabwe.</p> <p>America: Antilles Netherlands, Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Nicaragua, Panama, Paraguay, Peru, USA, Uruguay, Venezuela.</p> <p>Asia: China, Iran, Israel, Jordan, Lebanon, Saudi Arabia, Syria, Turkey, Yemen</p> <p>Europe: Albania, Bulgaria, Chile, Croatia, Cyprus, France, Greece, Italy, Malta, Portugal, Russia, Slovenia, Spain, Switzerland, Serbia, Slovenia,</p>
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			<p><i>coerulea</i>, <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Physalis peruviana</i>, <i>Psidium longipes</i>, <i>Punica granatum</i> (delima, pomegranate), <i>Rubus loganobaccus</i>, <i>Santalum album</i>, <i>Solanum</i> spp., <i>Spondias cytherea</i>, <i>Syzygium</i> spp., <i>Thevetia peruviana</i>, <i>Pouteria viridis</i>, <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Chrysophyllum oliviforme</i>, <i>Cydonia oblonga</i> (quince), <i>Diospyros</i> spp., <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Eugenia dombeyi</i>, <i>Eugenia uniflora</i>, <i>Feijoa sellowiana</i>, <i>Fortunella japonica</i> (kumkwat, kumquat), <i>Garcinia livingstonei</i>, <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (avocad, avocado), <i>Pouteria sapota</i>, <i>Prunus americana</i> (aprikot, apricot), <i>Prunus domesticum</i> (plam, plum), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Spondias purpurea</i>, <i>Syzygium aquea</i> (jambu air, star apple), <i>Terminalia catappa</i> (ketapang, indian</p>	<p>Bosnia and Herzegovina, Montenegro, Macedonia. Oceania: Australia.</p>
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			almond), <i>Vitis vinifera</i> (anggur, grapevine)		
55.	<i>Ceratitis cosyra</i> (Walker); (= <i>Ceratitis giffardi</i> = <i>Pardalaspis cosyra</i> = <i>P.giffardi</i> = <i>P.giffardi</i> var. <i>sarcocephali</i> = <i>P.parinarii</i> = <i>P.sarcocephali</i> = <i>Trypeta cosyra</i>); Diptera: Tephritidae; mango fruit fly, marula fruit fly	II	<i>Mangifera indica</i> (mangga, mango) <i>Anisophyllea laurina</i> , <i>Annona</i> spp, <i>Annona cherimola</i> , <i>Annona muricata</i> , <i>Annona reticulata</i> , <i>Annona senegalensis</i> , <i>Canopharyngia penduliflora</i> , <i>Landolphia</i> sp., <i>Saba senegalensis</i> , <i>Citrus aurantium</i> (jeruk nipis, lime), <i>Chrysobalanus</i> sp., <i>Parinari mobola</i> , <i>Diospyros mespiliformis</i> , <i>Dovyalis caffra</i> , <i>Nauclea latifolia</i> , <i>Persea americana</i> (avokad, avocado), <i>Prunus persica</i> (persik, peach), <i>Psidium guajava</i> (jambu seed, guava), <i>Sclerocarya birrea</i> , <i>Sarcocephalus esculentus</i> , <i>Uapaca kirkiana</i> , <i>Warburgia ugandensis</i>	fruit, growing media (soil)	Africa: Angola, Benin, Botswana, Burkina Faso, Cameroon, Central Africa, DR Congo, Guinea, Ivory Coast, Kenya, Madagascar, Malawi, Mali, Mozambique, Nigeria, Senegal, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Zambia, Zimbabwe.
56.	<i>Ceratitis punctata</i> Wied.; (= <i>Pardalaspis punctata</i> = <i>P. senegalensis</i> = <i>Tephritis senegalensis</i>); Diptera: Tephritidae; cacao fruit fly	II	<i>Coffea</i> spp. (kopi, coffee), <i>Psidium guajava</i> (jambu seed, guava), <i>Passiflora quadrangularis</i> (markisah, granadilla, passion fruit), <i>Mangifera indica</i> (mangga, mango), <i>Cucumis melo</i> (melon, melon), <i>Chrysophyllum</i>	fruit, growing media (soil)	Africa: Cameroon, DR Congo, Congo, Ghana, Guinea, Kenya, Senegal, Sierra Leone, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

			<i>albidum</i> <i>Theobroma cacao</i> (kakao, cocoa)		
57.	<i>Ceratitis quinaria</i> (Bezzi); (= <i>Pardalaspis quinaria</i>); Diptera: Tephritidae; Rhodesian fruit fly	II	<i>Psidium guajava</i> (jambu seed, guava), <i>Citrus</i> spp. (jeruk, orange), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus persica</i> (persik, peach)	fruit, growing media (soil)	Africa: Angola, Benin, Botswana, Malawi, Mali, Namibia, Ivory Coast, South Africa, Sudan, Zimbabwe Asia: Yemen
58.	<i>Ceratitis rosa</i> Karsch.; (= <i>Pterandrus rosa</i>); Diptera: Tephritidae; Natal fruit fly	II	<i>Citrus</i> spp. (jeruk, orange), <i>Coffea</i> spp. (kopi, coffee) <i>Averrhoa carambola</i> (belimbing, star-fruit), <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Citrus</i> spp., <i>Capsicum annuum</i> (cabai besar, paprika, bell-pepper), <i>Cydonia oblonga</i> (kwinsi, quince), <i>Eugenia uniflora</i> , <i>Ficus carica</i> (ara, fig), <i>Garcinia mangostana</i> (manggis, mangosteen), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Prunus americana</i> (aprikot, apricot), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Prunus domesticum</i> (plam, plum), <i>Psidium longipes</i> , <i>Pyrus communis</i> (pir, pear), <i>Syzygium</i> spp., <i>Terminalia catappa</i> (ketapang, indian almond), <i>Theobroma cacao</i>	fruit, growing media (soil)	Africa: Ethiopia, Kenya, Lesotho, Malawi, Mauritius, Mozambique, Réunion, Seychelles, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe.

			(kakao, cocoa), <i>Ziziphus jujuba</i> , <i>Annona reticulate</i> (fruit nona, custard apple), <i>Carissa macrocarpa</i> , <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Dimocarpus litchii</i> (leci, litchii), <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (avokad, avocado), <i>Prunus persica</i> (persik, peach), <i>Psidium guajava</i> (jambu seed, guava), <i>Vitis vinifera</i> (anggur, grapevine)		
59.	<i>Chaetocnema confinis</i> Crotch.; (= <i>Chaetocnema flavicornis</i> = <i>Chaetocnema etiennei</i> = <i>Chaetocnema perplexa</i>); Coleoptera: Chrysomelidae; flea beetle; sweet potato flea beetle; flea beetle.	II	<i>Beta vulgaris</i> (bit, beetroot), <i>Calystegia sepium</i> (great bindweed), <i>Ipomoea aquatica</i> (swamp morning-glory), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Ipomoea pandurata</i> (bigroot morningglory (USA)), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Pharbitis purpurea</i> (Tall morning glory), <i>Zea mays</i> (jagung, corn) <i>Abutilon hybridum</i> (Indian mallow), <i>Acer negundo</i> (box elder), <i>Acer platanoides</i> (Norway maple), <i>Aesculus</i> (buckeye), <i>Amaranthus retroflexus</i> (redroot pigweed), <i>Arctium minus</i> (common	leaf, buds, seedling tanaman	Africa: Comoros, Gambia, Ghana, Madagascar, Malawi, Mauritius, Réunion, Senegal, Seychelles, South Africa America: Brazil, Canada, USA, Ecuador, El Salvador Asia: Japan, Taiwan, Thailand, Vietnam Europe: Guernsey Oceania: French Polynesia, Guam, Marshall Islands, Palau

			<p> burdock), <i>Avena sativa</i> (oats), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassica</i> <i>rapa</i> ssp. <i>oleifera</i> (turnip rape), <i>Catalpa bignonioides</i> (Southern catalpa), <i>Fragaria</i> <i>vesca</i> (wild strawberry), <i>Fraxinus americana</i> (white ash), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium</i> (kapas, cotton), <i>Helianthus tuberosus</i> (Jerusalem artichoke), Hibiscus (rosemallows), <i>Malus</i> <i>domestica</i> (apel, apple), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Mucuna</i> (velvetbeans), <i>Nicotiana</i> <i>tabacum</i> (tembakau, tobacco), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus na</i> (common chokecherrytree), <i>Rubus</i> (blackberry, raspberry), <i>Secale cereale</i> (rye), <i>Solanum</i> <i>nigrum</i> (black nightshade), <i>Solanum tuberosum</i> (kentang, potato), <i>Tilia americana</i> (basswood), <i>Trifolium pratense</i> </p>	
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			(purple clover), <i>Triticum aestivum</i> (gandum, wheat), <i>Vitis vinifera</i> (anggur, grapevine)		
60.	<i>Chaetosiphon fragaefolii</i> Cockerell; (= <i>Capitophorus fragaefolii</i> = <i>Capitophorus fragariae</i> = <i>Chaetosiphon fragariae</i> = <i>Myzus fragaefolii</i> = <i>Myzus fragariae</i> = <i>Passerinia fragaefolii</i> = <i>Pentatrichopus fragaefolii</i> = <i>Pentatrichopus fragariae</i> ; Hemiptera: Aphididae; strawberry aphid	II	<i>Fragaria ananassa</i> (strawberry) <i>Fragaria chiloensis</i> (Chilean strawberry), <i>Fragaria vesca</i> (wild strawberry), <i>Fragaria vesca</i> var. <i>semperflorens</i> (Perpetual strawberry), <i>Rosa rugosa</i>	bibit plant, leaf, buds	America: Argentina, Canada, USA, Bolivia Asia: Israel, Japan, Philippines Europe: Belgium, Bulgaria, France, Germany, Italy, Macedonia, Portugal, Serbia and Montenegro, Spain, Switzerland, United Kingdom Oceania; Australia, New Zealand
61.	<i>Chilo orichalcociliellus</i> (Strand); (= <i>Chilo traea argyrolepis</i> = <i>Diatraea argyrolepis</i> = <i>Proceras argyrolepis</i> = <i>P. argyrolepidus</i> = <i>P. orichalcociliella</i> = <i>Chilo argyrolepis</i> = <i>Diatraea orichalcociliella</i>); Lepidoptera: Crambidae; coastal stalk borer	II	<i>Saccharum officinarum</i> (tebu, sugarcane), <i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorgum, sorghum), Poaceae, <i>Panicum miliaceum</i>	stem, leaf, stalk tongkol (stalk)	Africa: Kenya, Uganda, Burundi, Rwanda, Tanzania, Kenya, Madagascar
62.	<i>Cholus cattleyae</i> Champion; Coleoptera: Curculionidae; cattleya weevil	II	anggrek (Orchidaceae)	plant, stem, leaf, flower	America: USA
63.	<i>Chrysobothris femorata</i> Olivier; Coleoptera:	II	<i>Malus domestica</i> (apel, apple), <i>Prunus persica</i> (persik,	stem, leaf, buds	America: Canada, Mexico, USA

	Buprestidae; flatheaded apple tree borer		peach), <i>Pyrus communis</i> (pir, pear), other stone fruit (buah batu lainnya)		
64.	<i>Chrysobothris mali</i> Horn.; Coleoptera: Buprestidae; Pacific flatheaded apple tree borer	II	<i>Malus domestica</i> (apel, apple), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), other stone fruit (buah batu lainnya)	stem, leaf, buds	America: Canada, USA
65.	<i>Cicadulina bipunctata</i> (Melichar); (= <i>Cicadulina bipunctata bipunctella</i> = <i>C. bipunctella</i> = <i>C. bipunctella zae</i> = <i>C. zae</i> = <i>Gnathodus bipunctata</i>); Hemiptera: Cicadellidae; maize leaf hopper, sorghum jassid	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), <i>Oryza sativa</i> (padi, paddy), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Saccharum officinarum</i> (tebu, sugarcane)	stem, leaf	Africa: Egypt, Ethiopia Asia: Japan, Syria, Turkey Europe: Italy
66.	<i>Cicadulina latens</i> Fennah.; Hemiptera: Cicadellidae; Maize leaf hopper	II	<i>Zea mays</i> (jagung, corn)	stem, leaf	Africa: Cameroon, Ethiopia, Ghana, Gambia, Guinea, Ivory Coast, Kenya, Liberia, Mali, Nigeria, Senegal, Sudan, Somalia, Tanzania, Uganda.
67.	<i>Cicadulina mbila</i> (Naude); (= <i>Balclutha mbila</i>); Hemiptera: Cicadellidae; maize leafhopper	II	<i>Zea mays</i> (jagung, corn) S); <i>Avena sativa</i> (oat, oat), <i>Cynodon</i> spp., <i>Digitaria sanguinalis</i> , <i>Eleusine coracana</i> , <i>Oryza glaberrima</i> , <i>Oryza sativa</i> (padi, paddy), <i>Pennisetum glaucum</i> , <i>Hordeum vulgare</i> (barli, barley), <i>Panicum</i> spp.,	stem, leaf	Africa: Angola, Botswana, Burkina Faso, Cameroon, Cape Verde, Congo, Ethiopia, Gambia, Kenya, Mauritius, Mozambique, Namibia, Nigeria, Reunion, South Africa, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe Asia: India, Tajikistan, Yemen

			<i>Paspalum conjugatum</i> , <i>Pennisetum</i> spp., <i>Saccharumofficinarum</i> (tebu, sugarcane), serealea (cereal), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Triticum</i> <i>aestivum</i> (gandum, wheat), <i>Zea perennis</i>		
68.	<i>Cicadulina storeyi</i> China; (= <i>Cicadulina nicholsi</i> = <i>C.</i> <i>triangula</i>); Hemiptera: Cicadellidae; maize leafhopper	II	<i>Zea mays</i> (jagung, corn), Poaceae, <i>Pennisetum glaucum</i> , <i>Sorghum bicolor</i> (sorgum, sorghum)	stem, leaf	Africa: Ethiopia, Nigeria, Togo, Northwest Africa, Zimbabwe
69.	<i>Coccus alpinus</i> de Lotto; Hemiptera: Coccidae ; soft green scale	II	<i>Syzygium aquea</i> (jambu air, star apple), <i>Psidium guajava</i> (jambu seed, guava), <i>Citrus</i> spp.(jeruk, orange), <i>Coffea</i> spp. (kopi, coffee)	stem, litter, leaf, fruit	Africa: Burundi, Kenya, Rwanda, Tanzania, Uganda.
70.	<i>Coccus elongates</i> Signoret; Hemiptera: Coccidae;Scale insect	II	<i>Albizia falcataria</i> (L.), <i>Albazia</i> spp., <i>Acacia catechu</i> , <i>Acecia</i> , <i>elenoxylon</i> , <i>Coffee</i> spp. (Kopi, coffee),	stem, litter, leaf	Africa: Ghana, Tanzania, Uganda America: Barbados Asia: India Europe: Seychelles, England
71.	<i>Coelaenomenodera elaeidis</i> Maulik, Coleoptera: Chrysomelidae; hispid leafminer, oilpalm leafminer	II	Elaeis <i>Borassus flabelifer</i> (lontar, palmyra palm), <i>Cocos nucifera</i> (kelapa , coconut), <i>Pennisetum</i> <i>purpureum</i> (rumpit gajah, elephant grass), <i>Roystonea</i> <i>regia</i> (palem raja, royal palm).	stem, leaf	Africa: Angola, Benin, Botswana, Cameroon, Congo, DR Congo, Ghana, Ivory Coast, Namibia, Nigeria, Sierra Leone, South Africa, Swaziland, Zambia, Zimbabwe
72.	<i>Conotrachelus nenuphar</i>	II	<i>Prunus persica</i> (persik,	fruit, soil	America: Canada, USA

	(Herbst); (= <i>Curculio nenuphar</i>); Coleoptera: Curculionidae; plum curculio, American, plum weevil, peach curculio		peach), <i>Prunus avium</i> , <i>Prunus domesticum</i> (plam, plum), <i>Prunus cerasus</i> (ceri, cherry), other stone fruit <i>Cydonia oblonga</i> (kwinsi, quince), <i>Diospyros kaki</i> (kesemek, persimmon), <i>Fragaria ananassa</i> (strawberry), <i>Malus domestica</i> (apel, apple), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus japonica</i> , <i>Pyrus communis</i> (pir, pear), <i>Malus domestica</i> (apel, apple), <i>Vaccinium</i> spp., <i>Ribes</i> spp., <i>Vitis vinifera</i> (anggur, grapevine), <i>Vitis rotundifolia</i>		
73.	<i>Coptotermes acinaciformis</i> Froggatt; Isoptera: Rhinotermitidae; subterranean termite	II	<i>Saccharum officinarum</i> (tebu, sugarcane), <i>Pinus radiata</i>	stem, wood, root	Oceania: widespread
74.	<i>Coptotermes formosanus</i> Shiraki; Isoptera: Rhinotermitidae; Formosan subterranean termite, Formosan termite	II	<i>Acer rubrum</i> , <i>Chamaecyparis thyoides</i> , <i>Cinnamomum camphora</i> , Eucalyptus, <i>Fraxinus berlandieriana</i> , <i>Liquidambar styracifua</i> , <i>Picea engelmannii</i> , Pinus (pines), Quercus (oak), <i>Saccharum officinarum</i> , <i>Taxodium distichum</i>	stem, wood, root, furniture	Africa: South Africa America: USA Asia: China, Taiwan
75.	<i>Coptotermes heimi</i>	II	<i>Acacia nilotica</i> (gum arabic	stem, wood,	Asia: Bangladesh, India,

	(Wasmann); Isoptera: Rhinotermitidae		tree), <i>Eucalyptus tereticornis</i> (forest red gum), <i>Morus</i> (mulberry tree), <i>Populus</i> (poplars), <i>Prunus domestica</i> (plum)	root	Pakistan
76.	<i>Corythucha marmorata</i> Uhler; Hemiptera: Tingidae; <i>Chrysanthemum</i> lace bug	II	<i>Chrysanthemum</i> spp. (krisan, chrysan)	stem, leaf, flower	America: USA Asia: Japan
77.	<i>Crioceris asparagi</i> (Linnaeus); Coleoptera: Chrysomelidae; Asparagus beetle	II	<i>Asparagus officinalis</i> (asparagus, asparagus)	stem, leaf, flower	America: Canada, USA. Europe: all
78.	<i>Crioceris duodecimpunctata</i> (Linnaeus); (= <i>Chrysomela duodecimpunctata</i> = <i>Lema duodecimpunctata</i>); Coleoptera: Chrysomelidae; spotted Asparagus beetle, twelve-spotted Asparagus beetle	II	<i>Asparagus officinalis</i> (asparagus, asparagus)	stem, leaf, flower	America: Canada, North America, USA Europe: France, Italy, Netherland
79.	<i>Cryptophlebia leucotreta</i> Meyrick; (= <i>Argyroploce leucotreta</i> = <i>Cryptophlebia roerigii</i> = <i>Thaumatotibia roerigii</i> = <i>Olethreutes leucotreta</i> = <i>Thaumatotibia leucotreta</i>); Lepidoptera: Tortricidae; false codling moth, <i>Citrus</i> codling moth, orange codling moth	II	<i>Abutilon hybridum</i> , <i>Ananas comosus</i> (nanas, pineapple), <i>Annona muricata</i> (sirsak, soursop), <i>Averrhoa carambola</i> (belimbing, carambola, star-fruit), <i>Camellia sinensis</i> (teh, tea), <i>Capsicum annum</i> (cabai besar, paprika, bell-pepper), <i>Ceiba pentandra</i> (kapuk randu, kapok), <i>Citrus</i> spp.	fruit, flower	Africa: Angola, Benin, Burkina Faso, Burundi, Cameroon, Cape Verde, Central Africa, Chad, DR Congo, Ivory Coast, Eritrea, Ethiopia, Gambia, Ghana, Kenya, Madagascar, Malawi, Mali, Mauritius, Mozambique, Niger, Nigeria, Reunion, Rwanda, St. Helena, Senegal, Sierra Leone, Somalia, South Africa, Sudan,

			(jeruk, orange), <i>Coffea</i> spp. (kopi, coffee), <i>Coffea arabica</i> (kopi arabika, arabica coffee), <i>Gossypium</i> (kapas, cotton), <i>Litchi chinensis</i> (leci, lichi), <i>Mangifera indica</i> (mangga, mango), <i>Olea europea subsp. europea</i> (zaitum, olive), <i>Persea americana</i> (avokad, avocado), <i>Prunus persica</i> (persik, peach), <i>Psidium guajava</i> (jambu seed, guava), <i>Punica granatum</i> (delima, pomegranate), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Zea mays</i> (jagung, corn) <i>Abelmoschus moschatus</i> (okra, lady's finger), <i>Dimocarpus litchii</i> (leci, lychee), <i>Macadamia ternifolia</i>		Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe America: USA Asia: Israel
80.	<i>Cryptotermes domesticus</i> Haviland; Isoptera: Kalotermitidae; drywood termite	II	Any hardwood and softwood	stem, wood	America: Panama, Trinidad and Tobago Asia: China, Japan, Malaysia, Singapore, Thailand Oceania: Australia, Cook Islands, French Polynesia, Guam, Papua New Guinea, Solomon Islands, Samoa, Vanuatu
81.	<i>Cydia pomonella</i> Linnaeus; (= <i>Laspeyresia pomonella</i> = <i>Carpocapsa pomonella</i> =C.	II	<i>Malus domestica</i> (apel, apple), <i>Pyrus communis</i> (pir, pear), <i>Prunus americana</i> (aprikot,	fruit	Africa: Algeria, Egypt, Libya, Mauritius, Morocco, Portugal, South Africa, Spain, Tunisia

	<p><i>pomonana</i> =<i>Enarmoniapomonella</i> =<i>Phalaena pomonella</i>); Lepidoptera: Tortricidae; codling moth, walnut worm</p>		<p>apricot), <i>Prunus persica</i> (persik, peach), <i>Prunus domesticum</i> (plam, plum), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus dulcis</i> (almon, almond), <i>Zea mays</i> (jagung, corn)</p>		<p>America: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Mexico, Peru, Uruguay, USA Asia: Afghanistan, Armenia, Azerbaijan, China, Georgia, India, Iran, Iraq, Israel, Jordan, Kazakhstan, Kyrgyzstan, Lebanon, Pakistan, Syria, Tajikistan, Turkey, Turkmenistan, Uzbekistan Europe: Albania, Austria, Belarus, Bulgaria, Croatia, Cyprus, Czech Republic, Czechoslovakia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom, Oceania: Australia, New Zealand</p>
82.	<p><i>Cylas puncticollis</i> Boheman; (= <i>Cylas compressus</i>); Coleoptera: Apionidae; African sweet potato weevil, sweet potato weevil</p>	II	<p><i>Ipomoea batatas</i> (ubi jalar, sweet potato) <i>Abelmoschus</i>, <i>Astripomoea</i> <i>lachnosperma</i>, <i>Boerhavia</i>, <i>Celosia</i>, <i>Coffea</i> spp. (kopi,</p>	<p>stem, leaf, bulb, tuber, corm</p>	<p>Africa: Burundi, Cameroon, Cape Verde, Central Africa, Chad, DR Congo, Congo, Ethiopia, Guinea, Ivory Coast, Kenya, Madagascar, Malawi,</p>

			coffee), Commelina, Corchorus, Hibiscus, <i>Ipomoea eriocarpa</i> , <i>Sesamum indicum</i> (wijen, sesame), <i>Vigna cylindrical</i> (kacang tunggak, long bean), <i>Vigna unguiculata</i> , <i>Zea mays</i> (jagung, corn)		Mali, Mozambique, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, Sudan, Tanzania, Uganda, Zambia
83.	<i>Dacus ciliates</i> Loew; (= <i>Dacus brevistylus</i> , = <i>D. appoxanthus</i> var. <i>decolor</i> = <i>D. coccinae</i> = <i>D. insistens</i> = <i>D. sigmoides</i> = <i>Didacus ciliatus</i> = <i>Leptoxyda ciliata</i> = <i>Tridacus mallyi</i>); Diptera: Tephritidae; lesser melon fly, lesser pumpkin fly	II	<i>Coccinia trilobata</i> , <i>Corallocarpus ellipticus</i> , <i>Cucumis aculeatus</i> , <i>Cucumis africanus</i> , <i>Cucumis dipsaceus</i> , <i>Cucumis melo</i> , <i>Cucumis metuliferus</i> , <i>Cucumis myriocarpus</i> , <i>Cucurbita maxima</i> , <i>Cucurbita pepo</i> , Cucurbitaceae, <i>Kedrostis foetidissima</i> , <i>Kedrostis leloja</i> , <i>Lagenaria siceraria</i> , <i>Momordica balsamina</i> , <i>Momordica charantia</i> , <i>Momordica rostrata</i> , <i>Peponium mackenii</i> , <i>Trichosanthes cucumerina</i> var. <i>anguinea</i> <i>Citrullus colocynthis</i> , <i>Citrus sinensis</i> , <i>Cucumis sativus</i> , <i>Luffa acutangula</i> , <i>Luffa aegyptiaca</i> , <i>Solanum lycopersicum</i> (tomat, tomato)	fruit, growing media (soil)	Africa: Angola, Cameroon, Egypt, Eritrea, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Malawi, Mauritius, Mayotte, Mozambique, Namibia, Niger, Nigeria, Reunion, Rwanda, Saint Helena, Senegal, Somalia, South Africa, Northwest Africa, Sudan, Tanzania, Togo, Uganda, DR Congo, Zambia, Zimbabwe Asia: Bangladesh, India, Iran, Israel, Jordan, Myanmar, Oman, Pakistan, Sri Lanka, Saudi Arabia, Thailand, United Arab Emirates, Yemen.
84.	<i>Delia antiqua</i> Meigen; (= <i>Anthomyia antique</i> = <i>A. ceparum</i> = <i>Chortophila antiqua</i> = <i>Delia cepetorum</i>)	II	<i>Allium cepa</i> (bawang bombay, onion), <i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium porrum</i>	stem, leaf, bulb, tuber, corm, growing	Africa: Crozet Islands, Egypt America: Antigua and Barbuda, Brazil, Canada, Colombia, Costa Rica, Mexico,

	= <i>Hylemya antiqua</i> = <i>H. cepearum</i> = <i>Leptohylemyia antiqua</i> = <i>Pegomyia cepearum</i> = <i>P. cepetorum</i> = <i>Phorbia cepearum</i> = <i>P. cepetorum</i> = <i>P. antiqua</i>); Diptera: Anthomyiidae; onion maggot, onion fly		(bawang prei, leek) <i>Allium cepa</i> var. <i>aggregatum</i> , <i>Allium fistulosum</i> , <i>Allium sativum</i> (bawang putih, garlic), <i>Allium schoenoprasum</i> , <i>Allium</i> spp.	media, soil, root	USA Asia: Armenia, China, Georgia, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea DPR (North Korea), Republic of Korea (South Korea), Mongolia, Philippines, Turkey Europe: Austria, Belarus, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Lithuania, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Spain, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia
85.	<i>Delia arambourgi</i> (Seguy); (= <i>Delia dispar</i> = <i>Hylemya dispar</i> = <i>Hylemya arambourgi</i>); Diptera: Anthomyiidae; barley fly	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), <i>Saccharum officinarum</i> (tebu, sugarcane), serealia lainnya (other cerealia)	stem, leaf, root, growing media, soil	Africa: Ethiopia
86.	<i>Delia platura</i> (Meigen); (= <i>Anthomyia cana</i> = <i>A. corelia</i> = <i>A. deceptiva</i> = <i>A. diversa</i> = <i>A. funesta</i> = <i>A. lanicrus</i> = <i>A. perrima</i> = <i>A. platura</i> = <i>A. platygaster</i> = <i>A. radicum</i> var. <i>calopteni</i>)	II	<i>Gossypium hirsutum</i> , <i>Hordeum vulgare</i> (barli, barley), <i>Juniperus na</i> , <i>Larix laricina</i> , <i>Phaseolus lunatus</i> , <i>Raphanus sativus</i> (lobak, radish), <i>Trifolium repens</i> , <i>Vicia faba</i> , <i>Allium ascalonicum</i>	seed, root, growing media, soil	Africa: Algeria, Egypt, Ethiopia, Kenya, Libya, Madagascar, Morocco, Rwanda, St. Helena, South Africa, Sudan, Tanzania, Tunisia, Uganda, Zimbabwe America: Argentina, Bermuda,

	<p>=<i>A. raphani</i> =<i>A. rubifrons</i> =<i>A. sergia</i> =<i>A. tinia</i> =<i>A. trifilis</i> =<i>A. tyana</i> =<i>A. viana</i> =<i>A. zeas</i> =<i>Aricia fusciceps</i> =<i>Chortophila</i> <i>cana</i>=<i>C. deceptiva</i> =<i>C. prisca</i> =<i>C. rubifrons</i> =<i>C. spinipes</i> =<i>C. trifilis</i> =<i>Delia cilicrura</i> =<i>D. prisca</i> =<i>Dialyta</i> <i>cupreifrons</i> =<i>Eriphia</i> <i>marginata</i> =<i>Homalomyia</i> <i>rava</i> =<i>Hylemya cana</i> =<i>H. deceptiva</i> =<i>H. fusciceps</i> =<i>H. platura</i> =<i>H. prisca</i> =<i>H. spinipes</i> =<i>H. trifilis</i> =<i>Pegomyia fusciceps</i> =<i>Phorbia cilicrura</i> =<i>P. fusciceps</i> =<i>P. novazealandica</i> =<i>P. prisca</i> =<i>P. spinipes</i> =<i>H. cilicrura</i> =<i>Chortophila</i> <i>cilicrura</i> =<i>Phorbiaplatura</i>); Diptera: Anthomyiidae; corn seed maggot, bean seed fly, seed potato maggot</p>		<p>(bawang merah, shallot), <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Citrullus</i> <i>lanatus</i>, <i>Citrullus</i> <i>vulgaris</i>(semangka, watermelon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Glycine max</i> (kedelai, soyabean), <i>Pinus merkusii</i> (<i>tusam</i>, <i>pinetree</i>) <i>albus</i>, <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Phaseolus coccineus</i>, <i>Vigna</i> spp. (buncis, cowpea), <i>Pisum sativum</i> (kapri, sweet pea), <i>Solanum tuberosum</i> (kentang, potato), <i>Spinacia</i> <i>oleracea</i> (bayam, spinach), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn)</p>		<p>Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Ecuador, Greenland, Mexico, Peru, Uruguay, USA, Uruguay, Venezuela Asia: Azerbaijan, China, Georgia, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea DPR (North Korea), Republic of Korea (South Korea), Lebanon, Nepal, Pakistan, Saudi Arabia, Sri Lanka, Syria, Taiwan, Turkey, Uzbekistan, Yemen Europe: Albania, Austria, Belarus, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Faroes Islands, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovenia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand</p>
87.	<i>Delia radicum</i> Linnaeus;	II	<i>Brassica oleracea capitata</i>	stem, leaf,	Africa: Algeria, Morocco

	(= <i>Anthomyia brassicae</i> = <i>A. radicum</i> = <i>Aricia villipes</i> = <i>Chortophila appendiculata</i> = <i>C. floccosa</i> = <i>C. frontalis</i> = <i>Delia brassicae</i> = <i>Eustalomyia brassicae</i> = <i>Hylemya brassicae</i> = <i>H. brassicae</i> = <i>Musca radicum</i> = <i>Pegomya brassicae</i> = <i>Erioischia brassicae</i> = <i>Chortophila brassicae</i> = <i>Phorbia brassicae</i>); Diptera: Anthomyiidae; cabbage maggot, cabbage root fly, radish fly		(kubis, cabbage), <i>Brassica oleracea</i> , <i>Brassica oleracea</i> var. <i>gemmifera</i> , <i>Brassica oleracea</i> subsp. <i>italica</i> , Cruciferae <i>Brassica napus</i> var. <i>napobrassica</i> , <i>Brassica rapa</i> subsp. <i>pekinensis</i> , <i>Matthiola</i> spp., <i>Raphanus sativus</i> (lobak, radish), <i>Armoracia rusticana</i>	root, growing media, soil	America: Canada, USA Asia: Armenia, China, Georgia, Israel, Kazakhstan, Turkey, Uzbekistan Europe: Austria, Belarus, Belgium, Bulgaria, Czech, Denmark, Estonia, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Hungary, Iceland, Ireland, Italy, Latvia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, United Kingdom
88.	<i>Dendroctonus ponderosae</i> Hopkins; <i>Coleoptera</i> : Scolytidae; pinus beetle, mountain pine beetles	II	<i>Pinus</i> spp	stem, litter, wood	America: USA, Canada
89.	<i>Diabrotica undecimpunctata</i> Mannerheim; (= <i>Chrysomela duodecimpunctata</i> = <i>Crioceris sexpunctata</i> = <i>Diabrotica duodecimpunctata</i> = <i>D. soror</i> = <i>D. undecimpunctata</i> subsp. <i>Howardi</i> Barber); <i>Coleoptera</i> : Chrysomelidae; 12-spotted cucumber beetle, southern corn	II	<i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Citrullus vulgaris</i> (semangka, watermelon), <i>Citrullus lanatus</i> , <i>Cucurbita pepo</i> (labu kuning, zucchini) <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Glycine max</i> (kedelai, soyabean), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Vigna</i> spp. (buncis,	stem, root, leaf, flower, growing media	America: Canada, El Salvador, Guatemala, Mexico, Nicaragua, USA

	rootworm, spotted cucumber beetle, western spotted cucumber beetle		cowpea), <i>Zea mays</i> (jagung, corn), <i>Chenopodium quinoa</i> , <i>Phaseolus vulgaris</i> (buncis, common bean)		
90.	<i>Diaprepes abbreviatus</i> (Linnaeus); (= <i>Curculio abbreviatus</i> = <i>Diaprepes festivus</i> = <i>D. irregularis</i> = <i>D. quadrilineatus</i> = <i>Exophthalmus abbreviatus</i>); Coleoptera: Curculionidae; <i>Citrus</i> weevil, sugarcane rootstalk borer weevil, <i>Citrus</i> weevil, sugarcane rootstalk borer weevil, West Indian weevil, West Indian sugarcane root borer, West Indian weevil	II	<i>Citrus</i> spp.(jeruk, orange), <i>Zea mays</i> (jagung, corn), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Nephelium lappaceum</i> (rambutan, rambutan) S): <i>Aeschynomene americana</i> , <i>Aloe vera</i> , <i>Apium graveolens</i> , <i>Arachis hypogaea</i> (kacang tanah, peanut), <i>Ardisia crispa</i> , <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Canavalia gladiata</i> , <i>Cedrela odorata</i> , <i>Ceiba pentandra</i> (kapuk, kapok), <i>Centrosema pubescens</i> , <i>Chrysobalanus icaco</i> , <i>Chrysophyllum cainito</i> , <i>Canocarpus erectus</i> , <i>Crotalaria</i> , <i>Dimocarpus longan</i> , <i>Dioscorea</i> , <i>Diospyros virginiana</i> , <i>Dizygotheca elegantissima</i> , <i>Eriobitrya japonica</i> , <i>erythrina barteroana</i> , <i>Erythrina poeppigiana</i> , <i>Euginia uniflora</i> , <i>Faramea occidentalis</i> , <i>Gladiolus hybrids</i> , <i>Gliricidia</i>	root, stem, leaf	America: Antigua and Barbuda, Barbados, Costa Rica, Cuba, Dominica, Guyana France, Grenada, Guadeloupe, Haiti, Jamaica, Martinique, Montserrat, Puerto Rico, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, USA

			<p> <i>sepium</i>, <i>Guaiacum officinale</i>, <i>Hoya carnosa</i>, <i>Jatropha</i> <i>curcas</i>, <i>Juniperus conferta</i>, <i>Juniperus virginiana</i>, <i>Lablab</i> <i>purpureus</i>, <i>Lagerstromia</i> <i>speciosa</i>, <i>Manihot esculenta</i>, <i>Maranta leuconeura</i>, <i>Mucuna</i> <i>pruriens</i>, <i>Nephelium</i> <i>lappaceum</i> (rambutan), <i>Psidium guajava</i> (jambu seed, guava), kacang, <i>Coffe</i> aspp. (kopi, coffee), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Mangifera indica</i> (mangga, mango), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo, sapodilla), <i>Musa</i> spp. (pisang, banana), <i>Persea americana</i> (avokad, avocado), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus</i> <i>vulgaris</i> (buncis, common bean), <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Capsicum annuum</i> (cabai besar, bell-pepper), <i>Rhizophora mangle</i>, <i>Ricinus</i> <i>communis</i>, <i>Saccharum officinarum</i>, <i>Schinus terebinthifolius</i>, <i>Solanum melongena</i> (terung, eggplant), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum</i> </p>		
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			<i>bicolor</i> (sorgum, sorghum), <i>Spondias mombin</i> , <i>Spondias purpurea</i> , <i>Swietenia macrophylla</i> , <i>Swietenia mahagoni</i> , <i>Syzygium jambos</i> , <i>Terminalia catappa</i> , <i>Urena lobata</i> , <i>Ximenia americana</i> , <i>Zanthoxylum</i> , <i>Theobroma cacao</i> (kakao, cocoa), <i>Dioscorea</i> spp.		
91.	<i>Diaspidiotus perniciosus</i> (Comstock) Cockerell, Danzig; (= <i>Aonidia fusca</i> = <i>Aonidiella fusca</i> = <i>A. perniciosus</i> = <i>Aspidiotus (Comstockaspis) perniciosus</i> = <i>A. (Diaspidiotus) andromelas</i> = <i>A. (Diaspidiotus) perniciosus</i> = <i>A. (Hemiberlesiana) perniciosus</i> = <i>A. perniciosus</i> = <i>A. albopunctatus</i> = <i>A. fuscus</i> = <i>A. perniciosus</i> = <i>Comstockaspis perniciosus</i> = <i>Diaspidiotus perniciosus</i> = <i>Hemiberlesia perniciosus</i> = <i>Quadraspidotus perniciosus</i> = <i>Q. perniciosus</i>); Hemiptera: Coccidae; California scale, Chinese scale, perniciosus scale, San José scale	II	<i>Malus domestica</i> (apel, apple), <i>Vitis vinifera</i> (anggur, grapevine), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Prunus persica nectarina</i> (nektarin, nectarine) <i>Citrus</i> spp. (jeruk, orange), fruit batu (stone fruit)	stem, leaf, fruit, stalk	Africa: Algeria, Angola, DR Congo, Congo, Morocco, South Africa, Tunisia, Zimbabwe America: Argentina, Bolivia, Brazil, Canada, Chile, Cuba, Ecuador, Mexico, Paraguay, Peru, USA, Uruguay, Venezuela Asia: Afghanistan, Armenia, Azerbaijan, Bangladesh, Bhutan, Brunei, China, Georgia, India, Iran, Iraq, Japan, Kazakhstan, Korea DPR (North Korea), Republic of Korea (South Korea), Nepal, Pakistan, Tajikistan, Thailand, Turkey, Uzbekistan, Vietnam, Yemen Europe: Albania, Austria, Bulgaria, Croatia, Czech, France, Germany, Greece, Hungary, Italy, Moldova,

					Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Ukraine, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand
92.	<i>Diaspis boisduvalii</i> Signoret; (= <i>Aulacaspis boisduvalii</i> = <i>Diaspos palmarum</i>); Hemiptera: Diaspididae; boisduval scale, coconut snow scale, orchid, scale, pineapple scale	II	<i>Ananas comosus</i> (nanas, pineapple), <i>Cocos nucifera</i> (kelapa, coconut), <i>Musa</i> spp. (pisang, banana)	stem, leaf, stalk (special for <i>A. comosus</i>)	America: Antigua and Barbuda, Barbados, Bermuda, Brazil, Dominica, Guyana, France, Guadeloupe, Guyana, Jamaica, Martinique, Mexico, Puerto Rico, St. Kitts & Nevis
93.	<i>Diatraea saccharalis</i> Fabricius; (= <i>Chilo oblitteratellus</i> = <i>Crambus leucaniellus</i> = <i>C. lineosellus</i> = <i>C. sacchari</i> = <i>Diatraea continens</i> = <i>D. crambidoides</i> = <i>D. pedidocla</i> = <i>D. saccharalis va grenadensis</i> = <i>D. sacchari</i> = <i>D. sacchari</i> f. <i>brasiliensis</i> = <i>Phalaena saccharalis</i> = <i>D. oblitteratella</i> = <i>D. oblitteratellus</i> = <i>D. incomparella</i>); Lepidoptera: Crambidae;	II	<i>Saccharum officinarum</i> (tebu, sugarcane) <i>Oryza sativa</i> (padi, paddy), <i>Panicum dichotomiflorum</i> , <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Sorghum halepense</i> , <i>Zea mays</i> (jagung, corn)	stem, leaf	America: Antigua and Barbuda, Argentina, Barbados, Belize, Bolivia, Brazil, British Virgin Islands, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, France Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname,

	sugarcane stalk borer, sugarcane borer, sugarcane moth borer, American sugarcane borer, small moth borer, small sugarcane moth borer				Trinidad and Tobago, USA, Uruguay, Venezuela
94.	<i>Diopsis longicornis</i> Macquart; (= <i>Diasemopsis macrophtalma</i> = <i>Diopsis macrophtalma</i> = <i>Diopsis thoracica</i>); Diptera: Diopsidae; stalk-eyed fly	II	<i>Oryza sativa</i> (padi, paddy)	stem, leaf	Africa: Cameroon, Ivory Coast, Ghana, Guinea, Kenya, Malawi, Nigeria, Sierra Leone, Togo, West Africa, Zimbabwe Asia: India, Philippines
95.	<i>Diorymerellus laevimargo</i> Champion; Coleoptera: Curculionidae; orchid weevil	II	Orchidaceae (anggrek, orchid)	stem, leaf, flower	America: Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana
96.	<i>Diparopsis castanea</i> Hmps.; (= <i>Diparopsis watersi</i> . Rothschild) Lepidoptera: Noctuidae; red bollworm, red Sudan bollworm, red Sudan cotton worm, red cotton bollworm	II	<i>Gossypium barbadens</i> (kapas, cotton) <i>Cefenfuegosia heldebrandii</i> ; <i>Gossypoides kirkii</i> ; <i>Thespesia</i> spp.	stem, leaf, fruit, seed	Africa: Botswana, Malawi, Mozambique, Nigeria, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe.
97.	<i>Distantiella theobromae</i> (Distant); Hemiptera: Miridae; cocoa capsid, brown capsid, cocoa capsid stem sapper	II	<i>Theobroma cacao</i> (kakao, cocoa), <i>Ceiba pentandra</i> (kapuk randu, kapok) <i>Adansonia digitata</i> , <i>Citrus</i> spp. (jeruk, orange)	stem, leaf, fruit	Africa: Cameroon, Congo, Ivory Coast, Ghana, Nigeria, Sierra Leone, Togo
98.	<i>Eldana saccharina</i> Walker; Lepidoptera: Pyralidae;	II	<i>Saccharum officinarum</i> (tebu, sugarcane)	stem, leaf	Africa: Angola, Benin, Botswana, Burkina Faso,

	sugarcane stalk borer, African sugarcane borer		<i>Cyperus</i> (flatsedge), <i>Cyperus alternifolius</i> , <i>Cyperus digitatus</i> , <i>Megathyrus maximus</i> , <i>Oryza sativa</i> (padi, paddy), <i>Phragmites australis</i> , <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Typha latifolia</i> , <i>Zea mays</i> (jagung, corn)		Burundi, Cameroon, Chad, DR Congo, Congo, Equatorial Guinea, Ethiopia, Gabon, Gambia, Ghana, Guinea-Bissau, Guinea, Ivory Coast, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Niger, Nigeria, Rwanda, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zimbabwe Asia: Saudi Arabia
99.	<i>Empoasca facialis</i> Jacobi; (= <i>Jacobiella facialis</i> = <i>Chlorita facialis</i> = <i>Chlorita fascialis</i>); Hemiptera, Cicadellidae; green leafhopper	II	<i>Solanum melongena</i> (terung, eggplant aubergine)	stem, leaf, fruit	Africa: Congo, Gambia, Ghana, Kenya, Mauritania, Mozambique, Nigeria, Senegal, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, DR Congo, Zimbabwe Asia: Cambodia, India Oceania: Australia, Fiji
100	<i>Empoasca lybica</i> De Bergevin; (= <i>Jacobiasca lybica</i> = <i>Austroascalybica</i> = <i>Chlorita lybica</i> = <i>C. signata</i> = <i>Empoasca benedettoi</i> = <i>E. signata</i> = <i>Jacobiasca signata</i>); Hemiptera: Cicadellidae; cotton jassid, green leafhopper (GLH)	II	<i>Gossypium barbadens</i> (kapas, cotton), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum tuberosum</i> (kentang, potato), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Vitis vinifera</i> (anggur, grapevine)	stem, leaf, fruit	Africa: Algeria, Central Africa, DR Congo, Egypt, Erythrea, Kenya, Libya, Mauritius, Morocco, Mozambique, Nigeria, Senegal, Somalia, South Africa, Sudan, Tanzania, Tunisia, Uganda America: Argentina Asia: India, Iran, Israel, Lebanon, Saudi Arabia, Turkey, Yemen

					Europe: Albania, Italy, Portugal, Spain
101	<i>Empoasca onukii</i> Matsuda; Hemiptera: Cicadellidae; tea green leafhopper	II	<i>Camellia sinensis</i> (teh, tea)	stem, leaf	Asia: Japan, Thailand
102	<i>Epicauta albovittata</i> Gestro; Coleoptera: Meloidae; stripped blister beetle	II	<i>Capsicum annuum</i> (cabai besar, paprika, bell-pepper, hot pepper, chilies, red pepper), <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Glycine max</i> (kedelai, soyabean), solanaceae	stem, leaf, fruit	Africa: Kenya
103	<i>Epicauta vittata</i> (Fabricius); Coleoptera: Meloidae; stripped blister beetle	II	<i>Solanum tuberosum</i> (kentang, potato), <i>Medicago sativa</i> (alfalfa, lucerne).	stem, leaf, fruit	Africa: DR Congo America: Canada, USA
104	<i>Epilachna similis</i> (Thunberg); (= <i>Chnootriba similis</i>); Coleoptera: Coccinellidae; maize ladybird beetle, cereal ladybird	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorghum), <i>Pennisetum</i> spp. <i>Oryza sativa</i> (padi, paddy)	stem, leaf	Africa: Ethiopia, Ghana, Kenya, Nigeria, Senegal, South Africa, Sudan, Tanzania, Uganda, Zimbabwe
105	<i>Epilachna varivestis</i> Mulsant; (= <i>Epilachna corrupta</i> = <i>E. maculiventris</i>); Coleoptera: Coccinellidae; Mexican bean beetle, bean ladybeetle, bean ladybird	II	<i>Citrus aurantifolia</i> , <i>Glycine max</i> (kedelai, soyabean), <i>Phaseolus acutifolius</i> , <i>Phaseolus lunatus</i> , <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Vigna unguiculata</i> (kacang panjang, cowpea), leguminosae lainnya (other	stem, leaf	Asia: Japan America: Canada, Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, USA

			legume)		
106	<i>Ernobius mollis</i> (Linnaeus); Coleoptera: Anobiidae; pine bark	II	<i>Picea abies</i> , Pinus	stem, wood, kulit kayu	America: USA Europe: Italy, Spain Oceania: Australia
107	<i>Eulecanium tiliae</i> (Linnaeus); (= <i>Eulecanium</i> <i>coryli</i> = <i>Eulecanium mali</i> = <i>Lecanium coryli</i> = <i>Physokermes coryli</i> = <i>Coccus coryli</i> = <i>Coccus tiliae</i> = <i>Coccus mali</i> = <i>Parthenolecanium coryli</i> = <i>Eulecanium ibericum</i> = <i>Coccus capreae</i> = <i>Coccus</i> <i>alni</i> = <i>Coccus salicum</i> = <i>Coccus fuscus</i> = <i>Coccus</i> <i>aceri</i> = <i>Coccus aceris</i> <i>campestris</i> = <i>Coccus pyri</i> = <i>Coccus rubi</i> = <i>Coccus</i> <i>xylostei</i> = <i>Calypticus</i> <i>fasciatus</i> = <i>Lecanium</i> <i>juglandis</i> = <i>Coccus aesculi</i> = <i>Lecanium fasciatum</i> = <i>Lecanium rubi</i> = <i>Lecanium</i> <i>genevense</i> = <i>Lecanium alni</i> = <i>Lecanium pyri</i> = <i>Lecanium</i> <i>aesculi</i> = <i>Lecanium</i> <i>berberidis</i> = <i>Lecanium cerasi</i> = <i>Lecanium variegatum</i> = <i>Lecanium fuscum</i> = <i>Lecanium (Eulecanium)</i> <i>aesculi</i> = <i>Lecanium</i>	II	<i>Acer campestre</i> (field maple), <i>Aesculus hippocastanum</i> (buckeye), <i>Crataegus</i> <i>monogyna</i> (hawthorn), <i>Cydonia oblonga</i> (quince), Ficus, Fraxinus (ashes), <i>Malus domestica</i> (apple), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (persik, peach), <i>Prunus salicina</i> (Japanese plum), <i>Pyrus</i> <i>communis</i> (European pear), <i>Acer circinatum</i> , <i>Acer</i> <i>macrophyllum</i> , <i>Acer negundo</i> , <i>Acer platanoides</i> , <i>Acer</i> <i>pseudoplatanus</i> , <i>Aesculus</i> <i>pavia</i> , <i>Alnus rubra</i> , <i>Betula</i> <i>papyrifera</i> , <i>Betula pubescens</i> , <i>Carpinus betulus</i> , <i>Cornus</i> <i>sanguinea</i> , <i>Corylus avellana</i> , <i>Fragaria vesca</i> (wild strawberry), <i>Holodiscus</i> <i>discolor</i> , <i>Juglans regia</i> , <i>Malus</i> <i>sylvestris</i> , <i>Myrica gale</i> , <i>Parrotia persica</i> , <i>Pistacia</i> <i>palestina</i> , <i>Populus alba</i> , <i>Populus Canadensis</i> , <i>Prunus</i> <i>armeniaca</i> (apricot, apricot),	fruit, seedling tanaman	Africa: Spain (Canary Islands) America: Canada, USA Asia: Armenia, Azerbaijan, Georgia, India, Iran, Iraq, Israel, Pakistan, Turkey Europe: Bulgaria, Cyprus, Czech, Denmark, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Malta, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK (Scotland)

<p> <i>(Eulecanium) capreae</i> =<i>Lecanium (Eulecanium)</i> <i>cerasi</i> =<i>Lecanium</i> <i>(Eulecanium) genevense</i> =<i>Lecanium (Eulecanium)</i> <i>juglandis</i>, <i>Lecanium</i> <i>(Eulecanium) rubi</i> =<i>Lecanium (Eulecanium)</i> <i>variegatum</i> =<i>Eulecanium</i> <i>fuscum Lecanium</i> <i>(Saissetia) capreae</i> =<i>Lecanium (Eulecanium)</i> <i>hoferi</i> =<i>Lecanium websteri</i> <i>mirabilis</i> =<i>Eulecanium</i> <i>aceris</i> =<i>Eulecanium aesculi</i> =<i>Eulecanium alni</i> =<i>Eulecanium capreae</i> =<i>Eulecanium cerasi</i> =<i>Eulecanium fasciatum</i> =<i>Eulecanium pyri (Schrank)</i> =<i>Eulecanium rubi</i> =<i>Eulecanium variegatum</i> =<i>Eulecanium websteri</i> <i>mirabile</i> =<i>Eulecanium curtisi</i> =<i>Lecanium (Globulicoccus)</i> <i>fuscum</i> =<i>Eulecanium emeric</i> =<i>Globulicoccus fuscus</i> =<i>Lecanium mali</i> =<i>Eulecanium coryli</i> <i>cimbricus</i> =<i>Eulecanium</i> <i>gyrcanicum</i>); Hemiptera: Coccidae; nut scale; thorn </p>		<p> <i>Prunus cerasifera</i>, <i>Prunus</i> <i>cerasus</i>, <i>Prunus laurocerasus</i>, <i>Prunus spinosa</i>, <i>Quercus</i> <i>iberica</i>, <i>Quercus ilex</i>, <i>Quercus</i> <i>robur</i>, <i>Quercus suber</i>, <i>Salix</i> <i>caprea</i>, <i>Salix viminalis</i>, <i>Sorbus</i>, <i>Tilia cordata</i>, <i>Ulmus</i> <i>glabra</i>, <i>Ulmus minor</i>, <i>Vaccinium myrtillus</i> (blueberry), <i>Vitis vinifera</i> (anggur, grapevine) </p>		
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	scale				
108	<i>Eumerus tuberculatus</i> Rondani; Diptera: Syrphidae; lesser bulb fly	II	<i>Allium cepa</i> (bawang bombay, onion), <i>Narcissus</i> spp. (narsisus, narcissus), <i>Crinum asiaticum</i> (bakung, lily). <i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium sativum</i> (bawang putih, garlic), <i>Irish</i> spp., <i>Lilia</i> spp., <i>Pastinaca sativa</i> (parsnip, parsnip), <i>Solanum tuberosum</i> (kentang, potato), <i>Hippeastrum</i> spp. (amarilis, amaryllis), <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Calla elliotiana</i> , <i>Eurycies</i> spp., <i>Galtonia</i> spp., <i>Gladiolus</i> spp., <i>Scilla</i> spp., <i>Sprekelia</i>	root, stem, leaf, bulb, tuber, corm, soil	America: USA Europe
109	<i>Eupalamides cyparissias</i> Fabricius; (= <i>Castnia daedalus</i> = <i>Castnia dedalus</i> = <i>Lapaeumides dedalus</i> = <i>L.daedalus</i> = <i>Eupalamides dedalus</i> = <i>Papilio cyparissias</i> = <i>P.dedalus</i>); Lepidoptera: Castniidae; oilpalm borer, coconut moth borer, stem borer and bunch stalk	II	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	stem, leaf	America: Guyana Franch Guyana, Panama, Peru, Suriname

110	<i>Euscepes postfasciatus</i> (Fairmaire); (= <i>Batatarhynchus destructor</i> = <i>Cryptorhynchus batatae</i> = <i>C. postfasciatus</i> = <i>Euscepes batatae</i> = <i>Hyperomorphasquamosa</i>); Coleoptera: Curculionidae; West Indian sweet potato weevil, scarabee weevil, small sweet potato weevil	II	<i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Pharbitis nil</i> <i>Ipomoea aquatica</i> (kangkung, water spinach)	stem, root, bulb, tuber, corm	America: Antigua and Barbuda, Barbados, Bermuda, Brazil, Virgin Islands, Cuba, Dominica, Guyana France, Grenada, Guadeloupe, Guyana, Haiti, Jamaica, Martinique, Montserrat, Paraguay, Peru, Puerto Rico, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, USA, Venezuela Asia: Japan Oceania: Palau, Cook Island, Micronesia, Fiji, France Polynesia, Guam, Kiribati, New Caledonia, Norfolk Island, Northern Mariana Island, Pitcairn Island, Samoa, Tonga, Vanuatu, Wallis-Futuna
111	<i>Eutinobothrus brasiliensis</i> (Hambleton); (= <i>Gasterocercodes brasiliensis</i> = <i>G. gossypii</i>); Coleoptera: Curculionidae; Brazilian cotton borer, cotton root borer	II	<i>Gossypium barbadens</i> (kapas, cotton) <i>Abelmoschus esculentus</i> (okra, okra), <i>Hibiscus</i> spp.	stem, root	America: Argentina, Brazil, Paraguay
112	<i>Frankliniella fusca</i> (Hinds); (= <i>Euthrips fuscus</i> = <i>E. Nicotiane</i> = <i>Frankliniella nicotiane</i> = <i>Physopus fuscus</i> = <i>P. Nicotianae</i> = <i>Scirtothrips</i>	II	<i>Arachis hypogaea</i> (kacang tanah, peanut), <i>Capsicum annuum</i> (paprika, bell pepper), <i>Citrullus lanatus</i> (semangka, watermelon),	leaf, flower, buds	America: Canada, Cuba, Martinique, Mexico, Puerto Rico, USA Europe: Netherlands

	owrey);Thysanoptera: Thripidae; tobacco thrips		<i>Glycine max</i> (kedelai, soyabean), <i>Gossypium</i> (cotton), <i>Hippeastrum</i> , <i>Solanumlycopersicum</i> (tomat, tomato), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Vigna unguiculata</i> (kacang panjang, cowpea), <i>Zea mays</i> (jagung, corn)		
113	<i>Frankliniella occidentalis</i> (Pergande); (= <i>Euthrips helianthi</i> = <i>Euthrips occidentalis</i> = <i>E. tritici</i> var. <i>californicus</i> = <i>Frankliniella californica</i> = <i>F. canadensis</i> = <i>F. chrysanthemi</i> = <i>F. claripennis</i> = <i>F. conspicua</i> = <i>F. dahliae</i> = <i>F. dianthi</i> = <i>F. nubila</i> = <i>F. occidentalis</i> f. <i>brunnescens</i> = <i>F. occidentalis</i> f. <i>dubia</i> = <i>F. syringae</i> = <i>F. triticimaculata</i> = <i>F. tritici</i> var. <i>moultoni</i> = <i>F. umbRosa</i> = <i>F. venusta</i> = <i>F. helianthi</i> = <i>F. moultoni</i> = <i>F. trehernei</i>); Thysanoptera, Thripidae; western flower thrips, alfalfa thrips, flower thrips, western (USA) grass thrips	II	<i>Gossypium barbadens</i> (kapas, cotton), <i>Allium ascalonicum</i> (bawang merah, shallot), <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Fragaria vesca</i> (wildstrawberry), Cucurbitaceae, Orchidaceae (anggrek, orchid), <i>Amaranthus palmeri</i> (palmer amaranth), <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Beta vulgaris</i> (bit, beetroot), <i>Begonia</i> spp., <i>Carthamus tinctorius</i> , <i>Citrus x paradise</i> (grapefruit), <i>Capsicum annuum</i> (cabai besar, paprika, bell-pepper), <i>Cyclamen</i> spp., <i>Dahlia</i> spp., <i>Daucus carota</i> (wortel, carrot), <i>Dianthus caryophyllus</i> (anyelir, carnation), <i>Euphorbia pulcherrima</i> , <i>Ficus carica</i> (ara, fig), <i>Fuchsia</i> sp., <i>Gerbera</i>	stem, leaf, flower, fruit	Africa: Algeria, Kenya, Morocco, South Africa, Swaziland, Tunisia, Uganda, Zimbabwe America: Argentina, Brazil, Canada, Chile, Colombia, Costa Rica, Dominica, Ecuador, Guatemala, Guyana, Martinique, Mexico, Peru, Puerto Rico, Uruguay, USA, Venezuela Asia: Cina, India, Iran, Israel, Japan, South Korea, Kuwait, Malaysia, Sri Lanka, Turkey Europe: Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Russia,

		<p> <i>jamesonii</i>, <i>Geranium</i> spp., <i>Gladiolus</i> hybrids, <i>Gypsophila</i>, <i>Hibiscus</i>, <i>Impatiens</i>, <i>Kalanchoe</i>, <i>Lactuca</i> <i>sativa</i> (selada, lettuce), <i>Limonium sinuatum</i>, <i>Lisianthus</i> spp., <i>Lathyrus</i> <i>odoratus</i>, <i>Leucaena</i> <i>leucocephala</i> (lamtoro, wild tamarind), <i>Solanumlycopersicum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Medicago</i> <i>sativa</i>(alfalfa, lucerne), <i>Petroselinum crispum</i> (parslei, parsley), <i>Vigna</i> spp. (cowpea), <i>Pisum sativum</i> (kapri, sweet pea), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus</i> <i>domesticum</i> (plam, plum), <i>Prunus persica</i> var. <i>nucipersica</i> (nektarin, nectarine), <i>Prunus persica</i> (persik, peach), <i>Purshia</i> <i>tridentata</i>, <i>Raphanus</i> <i>raphanistrum</i>, <i>Rhododendron</i> spp. (azalea), <i>Rosa</i> spp. (mawar, rose), <i>Salvia</i> spp., <i>Secale cereale</i> (rye), <i>Sinapis</i> <i>arvensis</i>, <i>Sinningia speciosa</i>, <i>St.paulia ionantha</i>, <i>Solanum</i> <i>melongena</i> (terung, eggplant), </p>	<p> Slovakia, Slovenia, Spain, Sweden, Switzerland, UK Oceania: Australia, New Zealand </p>
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			<i>Sonchus</i> spp., <i>Syzygium aquea</i> (jambu air, star apple), <i>Trifolium</i> spp., <i>Triticum aestivum</i> (gandum, wheat), <i>Vitis vinifera</i> (anggur, grapevine), <i>Zinnia</i> spp.		
114	<i>Globitermes</i> sp; Isoptera: Termitidae	II	<i>Dipterocarpus tuberculatus</i> , <i>Eucalyptus alba</i> , <i>Eucalyptus camaldulensis</i> , <i>Hevea brasiliensis</i> , Pinus	stem, wood	Asia: Malaysia, Thailand, Vietnam
115	<i>Grapholita prunivora</i> (Walsh); (= <i>Cydia prunivora</i> = <i>Laspeyresia prunivora</i> = <i>Semasia prunivora</i> = <i>Enarmonia prunivora</i>); Lepidoptera: Tortricidae; lesser apple worm, plum moth	II	<i>Malus domestica</i> (apel, apple), <i>Prunus domesticum</i> (plum), other stone fruit) Amelanchier, <i>Prunus americana</i> (aprikot, apricot), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Rosa</i> spp. (mawar, rose)	stem, leaf, flower, fruit, growing media, litter, soil	America: Canada, USA
116	<i>Grapholitha molesta</i> (Busck); (= <i>Cydia molesta</i> = <i>Laspeyresia molesta</i> = <i>Carpocapsa molesta</i>); Lepidoptera: Tortricidae; oriental fruit moth	II	<i>Prunus persica</i> (persik, peach), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus persica</i> var. <i>nucipersica</i> (nektarin, nectarine). <i>Cydonia oblonga</i> (kwinsi, quince), <i>Malus domestica</i> (apel, apple), <i>Prunus domesticum</i> (plum), <i>Prunus dulcis</i> (almon, almond), <i>Prunus cerasus</i> (ceri, cherry),	stem, fruit, leaf, flower, growing media, litter, soil	Africa: Mauritius, Morocco, South Africa America: Argentina, Brazil, Canada, Chile, Mexico, USA, Uruguay Asia: Armenia, Azerbaijan, China, Japan, North Korea, South Korea, Kyrgyzstan, Syria, Taiwan, Turkey, Uzbekistan Europe: Austria, Bulgaria, Croatia, Czech Republic,

			<i>Pyrus communis</i> (pear), fruit batu lain (other stone fruits), <i>Malus</i> sp., <i>Eriobotrya japonica</i> (lokwat, loquat)		France, Germany, Greece, Hungary, Italy, Latvia, Malta, Moldova, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Switzerland, Ukraine Oceania: Australia, New Zealand
117	<i>Grapholitha packardii</i> Zeller; (= <i>Cydia packardii</i> = <i>Enarmonia packardii</i> = <i>Enarmonia pyricolana</i> = <i>Laspeyresia packardii</i> = <i>L.pyricolana</i> = <i>Steganoptycha pyricolana</i>); Lepidoptera: Tortricidae; cherry fruitworm	II	<i>Prunus cerasus</i> (ceri, cherry) <i>Cydonia oblonga</i> , <i>Malus domestica</i> (apel, apple), <i>Prunus domesticum</i> (plum), <i>Prunus persica</i> (persik, peach), <i>Pyracantha</i> , <i>Pyrus communis</i> (pir, pear), <i>Rosa</i> spp., <i>Vaccinium corymbosum</i>	stem, fruit, leaf, flower, growing media, litter, soil	America: Canada, Mexico, USA
118	<i>Harmolita grandis</i> Riley; Lepidoptera: Tortricidae; wheat strand worm	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli, barley), <i>Avena sativa</i> (oat, oats), <i>Glycine max</i> (kedelai, soyabean)	stem, leaf, soil	America: USA
119	<i>Harmolita tritici</i> Fitch.; Lepidoptera: Tortricidae; wheat joint worm	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli, barley), <i>Avena sativa</i> (oat, oats), <i>Glycine max</i> (kedelai, soyabean)	stem, leaf, soil	America: USA Asia: West Asia Europe: Russia
120	<i>Helopeltis anacardii</i> Miller; Heteroptera: Miridae; cashew helopeltis	II	<i>Anacardium occidentale</i> (jambu mete, cashew-nut)	stem, leaf, flower	Africa: Tanzania

121	<i>Helopeltis bergrothi</i> Reuter; (= <i>Helopeltis bergrothi</i> = <i>H. bergrothi flavescens</i> = <i>H. bergrothi nigripes</i> = <i>H. bergrothi rubrinervis</i>); Heteroptera: Miridae; helopeltis bug, cacao-mosquito, tea-bug, tea-mosquito, cacao mosquito	II	<i>Theobroma cacao</i> (kakao, cocoa) <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Camellia sinensis</i> (teh, tea), kina, <i>Gossypium barbadens</i> (kapas, cotton), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Ricinus communis</i> (jarak, castor-oil)	stem, leaf, flower	Africa: Angola, Benin, Burundi, Cameroon, Republic of Central Africa, DR Congo., Ivory Coast, Guinea Equator, Gabon, Guinea, Mozambique, Niger, Nigeria, Rwanda, Spain (Canary Island), Togo Europe: Spain
122	<i>Helopeltis schoutedeni</i> Reuter; (= <i>Helopeltis sanguineus</i> = <i>H. schoutedeni rubra</i> = <i>H. schoutedeni vanderysti</i>); Heteroptera: Miridae; tea mosquito, cotton bug, cacao-mosquito, tea-bug, cotton helopeltis, cotton helopeltis	II	<i>Gossypium barbadens</i> (kapas, cotton), <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Ricinus communis</i> <i>Camellia sinensis</i> (teh, tea), <i>Mangifera indica</i> (mangga, mango)	stem, leaf, fruit	Africa: Angola, Burundi, Cameroon, Central Africa, Chad, DR Congo, Ivory Coast, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Malawi, Mali, Mozambique, Nigeria, Rwanda, Sao Tome & Principe, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zimbabwe
123	<i>Hercinothrips bicinctus</i> (Bagnall); (= <i>Caliothrips bicinctus</i> = <i>Heliothrips bicinctus</i>); Thysanoptera: Thripidae; banana thrips, banana-silvering thrips, smilax thrips	II	<i>Musa</i> spp. (pisang, banana)	stem, leaf, flower, fruit	Africa: Equatorial Guinea, Guinea, Kenya, South Africa, Tanzania America: Bermuda, Brazil, Peru Asia: India Europe: Belgium, Portugal, Spain, UK Oceania: Australia, New Zealand
124	<i>Heteroligus appius</i> Burm.; Coleoptera: Scarabaeidae;	II	<i>Dioscorea</i> spp. (gembili, yam)	stem, leaf, bulb, tuber,	Africa: Burkina Faso, Cameroon, Dahomey, Gambia,

	lesser yam beetle			corm	Ghana, Guinea, Ivory Coast, Mali, Liberia, Nigeria, Senegal, Sierra Leone, Togo
125	<i>Heteroligus meles</i> Billb.; Coleoptera: Scarabaeidae; greater yam beetle	II	<i>Dioscorea</i> spp. (gembili, yam)	stem, leaf, bulb, tuber, corm	Africa: Bourkina Faso, Cameroon, Dahomey, Gambia, Ghana, Guinea, Ivory Coast, Mali, Liberia, Nigeria, Senegal, Sierra Leone, Togo
126	<i>Hilda patruelis</i> (Stål); Hemiptera: Tettigometridae; groundnut hopper	II	<i>Arachys hypogaea</i> (kacang tanah, peanut) <i>Anacardium occidentale</i> (jambu mete, cashew-nut); <i>Citrus</i> spp.(jeruk, orange); <i>Abelmoschus moschatus</i> (okra, lady's finger); <i>Helianthus annuus</i> (bunga matahari, sunflower); <i>Vigna radiata</i> (kacang hijau, mungbean); <i>Vigna cylindrica</i> (kacang tunggak, long bean), <i>Vigna</i> spp. (buncis, cowpea)	stem, leaf, root, flower	Africa: Tanzania
127	<i>Homona magnanima</i> Diakonoff; Lepidoptera: Tortricidae; leaf roller, tea tortrix, Oriental tea tortrix	II	<i>Camellia sinensis</i> (teh, tea), <i>Lithocarpus edulis</i> , <i>Rosa</i> spp. (mawar, rose), <i>Pyrus communis</i> (pir, pear), <i>Malus domestica</i> (apel, apple), <i>Citrus</i> spp.(jeruk, orange), <i>Diospyros kaki</i> (kesemek, persimmon), <i>Chrysant hemum</i> spp. (krisan, chrysant), <i>Paulownia tomentosa</i> , <i>Solanum melongena</i> (terung, eggplant,	buds, stem, leaf	Asia: China, Japan, Taiwan

			aubergine), <i>Prunus cerasus</i> (ceri, cherry), <i>Arachys hypogaea</i> (kacang tanah, peanut), fruit batu (stone fruit), <i>Eurya</i> spp., <i>Glycine max</i> (kedelai, soyabean), <i>Rhododendron</i> spp. (azalea), <i>Nandina domestica</i> , <i>Podocarpus</i> spp.		
128	<i>Homorocoryphus nitidulus</i> Scopoli; (= <i>Ruspolia differens</i> = <i>R. vicina</i>); Orthoptera: Tettigoniidae; edible grasshopper	II	<i>Nicotiana tabacum</i> (tembakau, tobacco)	stem, leaf, soil	Africa: Kenya, Zimbabwe
129	<i>Horcias nobilellus</i> Berg.; (= <i>Capsus (Deraeocoris) nobilitatus</i> = <i>Horcias (Horciasoides) nobilellus</i> = <i>H. plagosus</i> = <i>Poecilopsus nobilellus</i>); Hemiptera: Miridae; cotton plant bug, cotton bug	II	<i>Gossypium barbadens</i> (kapas, cotton) <i>Abelmoschus moschatus</i> (okra, lady's finger), <i>Bidens pilosa</i>	stem, leaf	America: Argentina, Bahama, Bolivia, Brazil, Paraguay, Peru, Suriname, Uruguay, Venezuela
130	<i>Hylotrupes bajulus</i> (Linnaeus); Coleoptera: Cerambycidae; house longhorne beetle/Europen house borer	II	<i>Pinus nigra</i> , <i>Pinus sylvestris</i> ,	stem, wood	Africa: Algeria, Ivory Coast, Egypt, Libya, Madagascar, Morocco, South Africa, Spain, Tunisia, Zimbabwe America: USA, Canada, Brazil, Argentina Asia: Armenia, Azerbaijan, China, Iran, Iraq, Israel, Lebanon, Syria, Turkey Europe: Uruguay Ocenia: Australia, New Zealand

131	<i>Hyphantria cunea</i> Drury; (= <i>Hyphantria textor</i>); Lepidoptera: Arctiidae; blackheaded webworm, mulberry moth, redheaded webworm, fall webworm, American white moth	II	<i>Morus alba</i> , <i>Prunus cerasus</i> (ceri, cherry), <i>Juglans nigra</i> (walnut, walnut), <i>Pyrus</i> <i>communis</i> (pir, pear), <i>Malus</i> <i>domestica</i> (apel, apple), <i>Prunus domesticum</i> (plam, plum), <i>Carya illinoensis</i> , <i>Carya ovata</i> , <i>Diospyros</i> <i>na</i> , <i>Liquidambar styraciflua</i> , <i>Prunus avium</i> <i>Carya</i> spp., <i>Humulus lupulus</i> (hops), <i>Ulmus americana</i> , <i>Ailanthus altissima</i> , <i>Juglans</i> <i>regia</i> (walnut, walnut), <i>Pinus</i> <i>densiflora</i> , <i>Vitis vinifera</i> (anggur, grapevine)	stem, leaf	America: Canada, Mexico, USA Asia: China, Japan, Korea, Turkey Europe: Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech, France, Hungary, Italy, Moldova, Poland, Romania, Russia, Slovakia, Slovenia, Switzerland, Ukraine, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Micronesia, Northern Mariana Island
132	<i>Incisitermes minor</i> (Hagen); Isoptera: Kalotermitidae; western drywood termite	II	Dry wood	stem, wood	America: USA, Mexico, canada
133	<i>Ips typographus</i> Linnaeus; Coleoptera: Curculionidae; European spruce bark beetle	II	Eucalyptus, Oak, pines	stem, wood	Asia: China, Japan, Korea Europe: Russia
134	<i>Keiferia</i> <i>lycopercicella</i> Walsingham; (= <i>Gnorimoschema elmorei</i> = <i>G. lycopercicella</i> = <i>Keiferia</i> <i>elmorei</i> = <i>Phthorimaea</i> <i>elmorei</i> = <i>P. lycopercicella</i>); Lepidoptera: Gelechiidae; tomato pinworm	II	<i>Solanum lycopersicum</i> (tomat, tomato) <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum</i> <i>tuberosum</i> (kentang, potato), <i>Gossypium barbadens</i> (kapas, cotton), <i>Nicotiana</i> <i>tabacum</i> (tembakau, tobacco), <i>Solanum nigrum</i> (leunca, black nightshade)	stem, leaf, fruit	America: Bermuda, Bolivia, Colombia, Costa Rica, Cuba, Haiti, Jamaica, Mexico, USA, Venezuela, Canada, Dominican Republic, Trinidad and Tobago, Peru

135	<p><i>Lepidosaphes ulmi</i> (Linnaeus); (= <i>Aspidiotus conchiformis</i> = <i>A. falciformis</i> = <i>A. juglandis</i> = <i>A. pomorum</i> = <i>A. pyrus-malus</i> = <i>A. saliceti</i> = <i>Coccus conchiformis</i> = <i>C. ulmi</i> = <i>Diaspis linearis</i> = <i>Lepidosaphes (Mytilaspis) ulmi</i> = <i>L. ceratoniae</i> = <i>L. conchiformis</i> = <i>L. juglandis</i> = <i>L. pomorum</i> = <i>L. ulmi</i> = <i>L. vulva</i> = <i>Mytilaspis (Lepidosaphes) pomorum</i> = <i>M. ceratoniae</i> = <i>M. juglandis</i> = <i>M. pomicorticis</i> = <i>M. pomorum</i> = <i>M. ulicis</i> = <i>M. ulmi</i> = <i>M. vitis</i> = <i>Mytilococcus saliceti</i> = <i>M. ulmi</i>); Hemiptera: Diaspididae; oystershell scale, apple mussel scale, mussel scale</p>	II	<p><i>Fagus grandifolia</i> (American beech), <i>Ficus carica</i> (ara, fig), <i>Fraxinus americana</i> (white ash), <i>Juglans regia</i> (walnut, walnut), <i>Malus domestica</i> (apel, apple), <i>Olea europaea</i> subsp. <i>europaea</i> (zaitun, olive), <i>Populus canadensis</i> (hybrid black poplar), <i>Populus deltoides</i> (poplar), <i>Populus nigra</i> (black poplar), <i>Prunus</i> (buah batu, stone fruit), <i>Pyrus communis</i> (pir, pear), <i>Salix alba</i> (white willow), <i>Tilia cordata</i> (small-leaf lime), <i>Vaccinium myrtillus</i> (blueberry) <i>Prunus salicina</i> (Japanese plum), <i>Rosa damascena</i> (Damask rose)</p>	leaf, soil	<p>Africa: Algeria, Egypt, South Africa, Tunisia America: Argentina, Brazil, Canada, Chile, Colombia, Mexico, Peru, USA, Uruguay Asia: Afghanistan, Armenia, China, Georgia, India, Iran, Iraq, Israel, Japan, Kazakhstan, Republic of Korea (South Korea), Saudi Arabia, Syria, Taiwan, Turkey Europe: Austria, Belgium, Bulgaria, Bosnia and Herzegovina, Croatia, Cyprus, Czech, Denmark, France, Germany, Greece, Hungary, Italy, Luxembourg, Macedonia, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Montenegro, Slovenia, Slovakia, Oceania: Australia</p>
136	<p><i>Leptinotarsa decemlineata</i> Say; (= <i>Chrysomela decemlineata</i> = <i>Doryphora decemlineata</i> = <i>Leptinotarsa multitaeniata</i> = <i>Polygramma decemlineata</i>); Coleoptera: Chrysomelidae; Colorado potato beetle, Colorado beetle</p>	II	<p><i>Solanum tuberosum</i> (kentang, potato) <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Hyoscyamus niger</i> (black henbane), <i>Nicotiana tabacum</i> (tembakau, tobacco)</p>	bulb, tuber, corm, rimpang, stem, leaf, soil	<p>Africa: Gabon America: Canada, Cuba, Guatemala, Mexico, USA Asia: Armenia, Azerbaijan, China, Iran, Iraq, Japan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkey, Turkmenistan, Uzbekistan Europe: Albania, Andorra, Austria, Belarus, Belgium,</p>

					Bosnia and Herzegovina, Bulgaria, Croatia, Czech, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland, Ukraine, Montenegro
137	<i>Leptopharsa heveae</i> Drake & Poor; Hemiptera: Tingidae; lace bug, rubber tingid bug	II	<i>Hevea brasiliensis</i> (karet, rubber tree)	buds, stem, leaf, seedling, micropropagated plant	America: Brazil
138	<i>Leucoptera coffeina</i> Washburn; (= <i>Leucoptera daricella</i>); Lepidoptera: Lyonetiidae; coffee leafminer	II	<i>Coffea</i> spp. (kopi, coffee), <i>Coffea arabica</i> (kopi arabika, arabica coffee) <i>Coffea eugenioides</i>	leaf	Africa: Angola, Burundi, Congo, Ethiopia, Kenya, Uganda, Rwanda, Tanzania, Madagascar America: Antigua and Barbuda, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, Guyana France, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Montserrat, Peru, Puerto Rico, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and

					Tobago, Venezuela Asia: Yemen
139	<i>Leucoptera coffeella</i> Guer & Menev; (= <i>Perileucoptera coffeella</i> , <i>Cemiosstoma coffeella</i> , <i>Elachista coffeella</i>) Lepidoptera: Lyonetiidae; coffee leaf miner, white coffee leafminer	II	<i>Coffea</i> spp. (kopi, coffee), <i>Coffea arabica</i> (kopi arabika, arabica coffee)	leaf	Africa: Madagascar America: Antigua and Barbuda, Barbados, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Nicaragua, Peru, Puerto Rico, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, Venezuela
140	<i>Leucoptera coma</i> Ghesq; Lepidoptera: Lyonetiidae coffee leafminer	II	<i>Coffea</i> spp. (kopi, coffee), <i>Coffea canephora</i> (kopi robusta, robusta coffee)	leaf	Africa: Congo, Uganda
141	<i>Leucoptera meyrick</i> Ghesq.; Lepidoptera: Lyonetiidae; coffee leafminer	II	<i>Coffea</i> spp. (kopi, coffee)	leaf	Africa: Burundi, Central Africa, Kenya, Rwanda, South Africa, Tanzania, Uganda, Zimbabwe America: Brazil, Peru
142	<i>Liriomyza bryoniae</i> Kaltenbach; (= <i>Agromyza bryoniae</i> Kaltenbach = <i>Liriomyza citrulla</i>)	II	<i>Brassica juncea</i> var. <i>juncea</i> (Indian mustard), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Brassica rapa</i>	buds, leaf, soil, seedling	Africa: Egypt, Marocco Asia: China, India, Israel, Japan, Republic of Korea (South Korea), Nepal, Taiwan,

<p>Rohdendorf = <i>Liriomyza mercurialis</i> Hering, <i>Liriomyza solani</i> Hering); Diptera: Agromyzidae; tomato leafminer</p>	<p>cultivar group Mizuna, <i>Citrullus</i>, <i>Citrullus lanatus</i> (semangka, watermelon), <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita pepo</i> (labu kuning, zucchini), <i>Lactuca sativa</i> (selada, lettuce), <i>Solanum lycopersicum</i> (tomat, tomato), Polyphagous (polyphagous), <i>Solanum tuberosum</i> (kentang, potato), Solanaceae, <i>Amaranthus</i> (grain amaranth), <i>Apium graveolens</i> (seledri, celery), <i>Atropa</i> (Deadly nightshade), <i>Callistephus</i>, <i>Capsicum</i> (peppers), <i>Celosia argentea</i> (celosia), <i>Chenopodium</i> (Goosefoot), <i>Coriandrum sativum</i> (coriander), <i>Datura</i> (thorn-apple), <i>Gerbera jamesonii</i> (African daisy), <i>Hyoscamus</i>, <i>Lamium</i> (deadnettle), <i>Levisticum</i>, <i>Linaria</i> (Toadflax), <i>Lupinus</i> (lupins), <i>Lycium</i> (boxthorn), <i>Nicandra physalodes</i> (apple of Peru), <i>Petroselinum</i> (parsley), <i>Petunia</i>, <i>Phaseolus vulgaris</i> (buncis, common bean),</p>	<p>Turkey, Turkmenistan, Vietnam Europe: Albania, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovenia, Spain, Sweden, Ukraine, UK</p>
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			<i>Pisum sativum</i> (kapri, sweet pea), <i>Ricinus</i> , <i>Saponaria</i> (soapwort), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Spinacia oleracea</i> (bayam, spinach), <i>Verbena</i> (vervain), <i>Withania</i>		
143	<i>Listronotus bonariensis</i> (Kuschel); (= <i>Hyperodes bonariensis</i> Kuschel = <i>Hyperodes griseus</i> Marshall = <i>Neobagous setosus</i> Hustache); Coleoptera: Curculionidae; argentine stem weevil, ryegrass stem weevil, buds weevil, weevil, argentine stem, weevil, ryegrass stem, wheat stem weevil	II	<i>Hordeum vulgare</i> (barli, barley), <i>Lolium multiflorum</i> (italian ryegrass), <i>Lolium perenne</i> (perennial ryegrass), Poaceae (grasses), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), cerealia, rerumputan (Poaceae). <i>Agrostis capillaris</i> (brown bentgrass), <i>Anthoxanthum puelii</i> (Annual vernalgrass), <i>Avena sativa</i> (oat, oats), <i>Bromus</i> spp(bromegrasses), <i>Cynodon</i> spp. (quickgrass), <i>Dactylis</i> (Orchardgrass), <i>Digitaria</i> (crabgrass), <i>Echinochloa</i> spp., <i>Eleusine coracana</i> (finger millet), <i>Festuca pratensis</i> (english bluegrass), <i>Festuca rubra</i> (red fescue), <i>Paspalum</i> , <i>Phleum pretense</i> (timothy), <i>Poa annua</i> (annual meadowgrass)	stem, leaf, root, flower, seed	America: Argentina, Bolivia, Brazil, Chile, Uruguay Oceania: Australia, New Zealand

144	<i>Listronotus oregonensis</i> Leconte; Coleoptera: Curculionidae; carrot weevil	II	<i>Daucus carota</i> (wortel, carrot), <i>Apium graveolens</i> (seledri, celery), <i>Anethum graveolens</i> (dill), <i>Petroselinum crispum</i> (peterseli, parsley).	root, stem, leaf, bulb, tuber, corm, soil	America: Canada, USA
145	<i>Listronotus texanus</i> Stockton; (= <i>Hyperodes texanus</i>); Coleoptera: Curculionidae; carrot weevil	II	<i>Daucus carota</i> (wortel, carrot) <i>Petroselinum crispum</i> (peterseli, parsley)	root, stem, leaf, bulb, tuber, corm	America: USA
146	<i>Lobesia botrana</i> Denis & Schiffermuller; (= <i>Coccyx botrana</i> Praun = <i>Cochylis botrana</i> Herrich-Schaffer = <i>Cochylis vitisana</i> Audouin = <i>Eudemis botrana</i> Frey = <i>Eudemis rosmarinana</i> Millière = <i>Grapholita botrana</i> Heinemann = <i>Lobesia rosmariana</i> = <i>Noctua romani</i> O. Costa = <i>Paralobesia botrana</i> = <i>Penthina vitivorana</i> Packard = <i>Polychrosis botrana</i> Ragonot = <i>Tinea premixtana</i> Hübner = <i>Tinea reliquana</i> Hübner = <i>Tortrix botrana</i> Denis & Schiffermüller = <i>Tortrix reliquana</i> Treitschke = <i>Tortrix romaniana</i> O. Costa = <i>Tortrix vitisana</i> Jacquin=);	II	<i>Vitis vinifera</i> (anggur, grapevine) <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Actinidia deliciosa</i> (kiwi, kiwi fruit), <i>Arbutus unedo</i> (arbutus), <i>Berberis vulgaris</i> (European barberry), <i>Clematis vitalba</i> (old man's beard), <i>Cornus mas</i> (cornelian cherry), <i>Cornus sanguinea</i> (dogwood), <i>Daphne gnidium</i> , <i>Daphne laureola</i> , <i>Dianthus</i> spp. (carnation), <i>Diospyros kaki</i> (kesemek, persimmon), <i>Hedera helix</i> (ivy), <i>Ligustrum vulgare</i> (privet), <i>Lonicera tatarica</i> (Tatarian honeysuckle), <i>Menispermum canadense</i> (common moonseed), <i>Olea europea</i> subsp. <i>europea</i> (zaitun, olive), <i>Prunus</i>	fruit, flower	Africa: Algeria, Egypt, Eritrea, Kenya, Libya, Morocco America: USA, Chile Asia: Armenia, Azerbaijan, Georgia, Iran, Iraq, Israel, Japan, Jordan, Kazakhstan, Lebanon, Syria, Tajikistan, Turkey, Turkmenistan, Uzbekistan Europe: Austria, Belgium, Bulgaria, Bosnia and Herzegovina, Croatia, Cyprus, Czech, Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, Macedonia, Malta, Moldova, Montenegro, Netherlands, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Switzerland, Ukraine, UK

	Lepidoptera: Tortricidae; grape berry moth, european grape vine moth, grape fruit moth, grape leaves-roller, grape moth, grape vine moth, vine moth		<i>cerasus</i> (ceri, cherry), <i>Prunus</i> spp., <i>Punica granatum</i> (delima, pomegranate), <i>Ribes</i> spp., <i>Parthenocissus</i> <i>quinquefolia</i> (Virginia creeper), <i>Prunus amygdalus</i> , <i>Prunus</i> <i>avium</i> (sweet cherry), <i>Prunus</i> <i>domesticum</i> (plam, plum), <i>Prunus salicina</i> (Japanese plum), <i>Prunus spinosa</i> (blackthorn), <i>Punica granatum</i> (delima, pomegranate), <i>Ribes</i> (currants), <i>Ribes nigrum</i> (blackcurrant), <i>Ribes rubrum</i> (red currant), <i>Ribes uva-crispa</i> (gooseberry), <i>Rosmarinus</i> <i>officinalis</i> (rosemary), <i>Rubus</i> <i>caesius</i> (dewberry), <i>Rubus</i> <i>fruticosus</i> (blackberry), <i>Syringa vulgaris</i> (lilac), <i>Tanacetum vulgare</i> (tansy), <i>Viburnum lantana</i> (Wayfaring tree), <i>Ziziphus jujuba</i> (common jujube)		
147	<i>Longitarsus nigripennis</i> (Motschulsky); Coleoptera: Chrysomelidae; flea beetle, pepper, pollu	II	<i>Piper nigrum</i> (lada, blackpepper)	leaf, fruit	Asia: India.
148	<i>Lygus lineolaris</i> Palisot de Beauvois; (= <i>Capsus</i> <i>flavonotatus</i> Provancher = <i>Capsus lineolaris</i> Palisot	II	<i>Amaranthus cruentus</i> (redshank), <i>Apium graveolens</i> (seledri, celery), <i>Brassica</i> <i>napus</i> var. <i>napus</i> (rapa, rape),	stem, leaf, flower	America: Bermuda, Canada, El Salvador, Guatemala, Honduras, Mexico, USA Asia: Georgia

	<p>de Beauvois = <i>Capsus oblineatus</i> Say = <i>Capsus strigulatus</i> Walker = <i>Lygus pratensis</i> var. <i>rubidus</i> Knight); Hemiptera: Miridae; plant bug, tarnished</p>	<p><i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Gossypium hirsutum</i> (kapas, bourboncotton), <i>Fragaria ananassa</i> (strawberry, strawberry), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean), Polyphagous (Polyphagous), <i>Vigna</i> spp. (cowpea), <i>Prunus persica</i> (persik, peach), <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium incarnatum</i> (crimson clover), <i>Vicia sativa</i> (common vetch), <i>Zea mays</i> subsp. <i>mays</i> (jagung manis, sweetcorn) <i>Anethum graveolens</i> (dill), <i>Apium graveolens</i> var <i>dulce</i> (seledri, celery), <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Aster</i> spp., <i>Aster pilosus</i> (white heath aster), <i>Beta vulgaris</i> (bit, beetroot), <i>Bellis perennis</i> (common daisy), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Calendula officinalis</i> (pot marigold), <i>Cosmos</i> spp., <i>Cucumis sativus</i> (mentimun, cucumber), <i>Dahlia hybrids</i>,</p>		
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			<p><i>Daucus carota</i> (wortel, carrot), <i>Dendranthema</i> spp., <i>Erigeron</i> (fleabane), <i>Gladiolus hybrids</i> (sword lily), <i>Glycine max</i> (kedelai, soyabean), <i>Helianthus</i> spp., <i>Lespedeza cuneata</i> (sericea lespedeza), <i>Malus</i> (ornamental species apple), <i>Papaver nudicaule</i> (iceland poppy), <i>Pinus echinata</i> (shortleaves pine), <i>Populus</i> (poplars), <i>Pyrus communis</i> (pir, pear), <i>Rubus</i> spp. (blackberry, raspberry), <i>Salvia officinalis</i> (common sage), <i>Sinapis alba</i> (white mustard), <i>Tragopogon porrifolius</i> (oysterplant), <i>Verbena</i> spp. (vervain), <i>Zinnia elegans</i> (zinnia)</p>		
149	<p><i>Lymantria dispar</i> Linnaeus; (= <i>Bombyx dispar</i> Linnaeus = <i>Hypogymna dispar</i> Linnaeus = <i>Liparis dispar</i> Linnaeus = <i>Ocneria dispar</i> Linnaeus = <i>Phalaena dispar</i> Linnaeus = <i>Porthesia dispar</i> Linnaeus = <i>Porthetria dispar</i> Linnaeus); Lepidoptera: Lymantriidae; gypsy moth</p>	II	<p><i>Acer saccharum</i> (sugar maple), <i>Betula papyrifera</i> (paper birch), <i>Quercus alba</i> (white oak), <i>Quercus coccinea</i> (scarlet oak), <i>Quercus ellipsoidalis</i> (Northern pin oak), <i>Quercus garryana</i> (Garry oak), <i>Quercus ilex</i> (holm oak), <i>Quercus lobata</i> (California white oak), <i>Quercus montana</i> (basket oak), <i>Quercus muehlenbergii</i> (Chinquapin oak), <i>Quercus</i></p>	fresh bark	<p>Africa: Algeria, Morocco, Tunisia America: Canada, USA. Asia: Afghanistan, Armenia, Azerbaijan, China, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea DPR (North Korea), Republic of Korea (South Korea), Kyrgyzstan, Lebanon, Mongolia, Syria, Taiwan, Tajikistan, Turkey, Turkmenistan, Uzbekistan</p>

		<p><i>palustris</i> (pin oak), <i>Quercus petraea</i> (durmast oak), <i>Quercus robur</i> (common oak), <i>Quercus rubra</i> (northern red oak), <i>Quercus suber</i> (cork oak), <i>Quercus velutina</i> (black oak), <i>Salix fragilis</i> (crack willows), <i>Ulmus</i> (elms) <i>Acer</i> (maples), <i>Acer negundo</i> (box elder), <i>Acer platanoides</i> (norway maple), <i>Acer rubrum</i> (red maple), <i>Acer saccharinum</i> (soft maple), <i>Alnus</i> (alders), <i>Alnus rhombifolia</i> (white alder), <i>Betula</i> (birches), <i>Betula alleghaniensis</i> (yellow birch), <i>Betula lenta</i> (sweet birch), <i>Betula populifolia</i> (gray birch), <i>Carpinus</i> (hornbeams), <i>Carya</i> (hickories), <i>Castanea sativa</i> (chestnut), <i>Cedrus libani</i> (cedar of Lebanon), <i>Corylus</i>, <i>Corylus avellana</i> (hazel), <i>Eucalyptus camaldulensis</i> (red gum), <i>Fagus</i> (beeches), <i>Fagus grandifolia</i> (american beech), <i>Fagus sylvatica</i> (common beech), <i>Fraxinus americana</i> (white ash), <i>Fraxinus pennsylvanica</i> (downy ash), <i>Glycine max</i> (soybean), <i>Hamamelis virginiana</i> (virginian witch-</p>	<p>Europe: Austria, Belarus, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Lithuania, Macedonia, Moldova, Montenegro, Netherlands, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK</p>
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		<p>hazel), <i>Larix</i> (larches), <i>Larix kaempferi</i> (Japanese larch), <i>Larix occidentalis</i> (western larch), <i>Liquidambar styraciflua</i> (sweet gum), <i>Litchi chinensis</i> (lichi), <i>Lithocarpus edulis</i>, <i>Malus</i> (ornamental species apple), <i>Malus domestica</i> (apple), <i>Ostrya virginiana</i> (american hophornbeam), <i>Picea abies</i> (common spruce), <i>Picea jezoensis</i> (yeddo spruce), <i>Pinus</i> (pines), <i>Pinus brutia</i> (brutian pine), <i>Pinus contorta</i> (lodgepole pine), <i>Pinus echinata</i> (shortleaves pine), <i>Pinus resinosa</i> (red pine), <i>Pinus rigida</i> (pitch pine), <i>Pinus strobus</i> (eastern white pine), <i>Pinus sylvestris</i> (scots pine), <i>Pinus taeda</i> (loblolly pine), <i>Pistacia vera</i> (pistachio), <i>Platanus acerifolia</i> (London planetree), <i>Populus</i> (stone fruit), <i>Populus grandidentata</i> (bigtooth aspen), <i>Populus nigra</i> (black poplar), <i>Populus tremuloides</i> (trembling aspen), <i>Prunus</i> (stone fruit), <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus domestica</i> (plam, plum), <i>Prunus salicina</i></p>		
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			(Japanese flowering cherry), <i>Prunus serotina</i> (black cherry), <i>Prunus serrulata</i> (Japanese flowering cherry), <i>Pseudotsuga menziesii</i> (douglas-fir), <i>Pyrus</i> (pear, pears), <i>Quercus ilicifolia</i> (bear oak), <i>Robinia</i> (locust), <i>Robiniapseudoacacia</i> (black locust), <i>Salix</i> (willows), <i>Salix babylonica</i> (weeping willows), <i>Taxodium distichum</i> (bald cypress), <i>Tilia americana</i> (basswood), <i>Tilia cordata</i> (small-leaves lime), <i>Vaccinium</i> (blueberries), <i>Zea mays</i> (jagung, corn)		
150	<i>Macroductylus subspinosus</i> (Fabricius); Coleoptera: Scarabaeidae; rose chafer	II	<i>Malus domestica</i> (apel, apple), <i>Rosa</i> (mawar, roses) <i>Vitis vinifera</i> (anggur, grapevine), <i>Beta</i> spp., cucurbitae, <i>Prunus cerasus</i> (ceri, cherry), <i>Piper nigrum</i> (lada, pepper), legumes, <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), fruit batulainnya (other stone fruit), <i>Rubus</i> spp., <i>Fragaria vesca</i> (arbei, strawberry)	root, leaf, flower, soil	America: Mexico, USA
151	<i>Macroplectra nararia</i> Moore; (= <i>Darna nararia</i> = <i>Natada nararia</i> Moore= <i>Parasa</i>	II	<i>Camellia sinensis</i> (teh, tea), <i>Coffea</i> spp. (kopi, coffee), <i>Elaeis guineensis</i> (kelapa	stem, leaf, soil, wood, growing	Asia: India, Sri Lanka

	<p><i>nararia</i>); Lepidoptera: Limacodidae; nettle grub, fringed nettle grub, slug caterpillar</p>		<p>sawit, oilpalm), <i>Cocos nucifera</i> (kelapa , coconut), <i>Erythrina</i> spp.(dadap, december tree), <i>Musa</i> spp. (pisang, banana), <i>Canna</i> spp. (bunga tasbih, canna), <i>Citrus</i> spp., <i>Crotalaria</i> spp., <i>Eucalyptus robusta</i> (swamp mahogany), <i>Gliricidia maculata</i>, <i>Lonicera</i> spp., (honeysuckles), <i>Psidium guineense</i> (guinea guava), <i>Rosa</i> spp. (mawar, rose), <i>Tephrosia</i> spp. (hoary-pea)</p>	<p>media, seedling</p>	
152	<p><i>Macrosiphum euphorbiae</i> Thomas; (= <i>Illinoia solanifolii</i>= <i>Macrosiphon euphorbiae</i> Thomas=<i>Macrosiphon solanifolii</i> Ashmead=<i>Macrosiphum amygdaloides</i> =<i>Macrosiphum cyprissiae</i> var. <i>cucurbitae</i> del Guercio=<i>Macrosiphum euphorbiellum</i> Theobald=<i>Macrosiphum koehleri</i> Börner=<i>Macrosiphum rosaeollae</i> Theobald=<i>Macrosiphum solanifolii</i> (Ashmead)=<i>Macrosiphum</i></p>	II	<p><i>Beta vulgaris</i> var. <i>Saccharifera</i> (bit gula, sugarbeet), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Lactuca sativa</i> (selada, lettuce), <i>Rosa</i> spp. (mawar, rose), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum tuberosum</i> (kentang, potato), <i>Zea mays</i> (jagung, corn) <i>Apium graveolens</i> (seledri, celery), <i>Artemisia</i> (wormwoods), <i>Capsicum</i> (peppers), <i>Chenopodium album</i> (fat hen), <i>Chenopodium quinoa</i> (quinoa), <i>Citrus</i>, <i>Citrus deliciosa</i> (mediterranean</p>	<p>stem, leaf, flower, fruit</p>	<p>Africa: Algeria, Angola, Burundi, DR Congo, Egypt, Ethiopia, Kenya, Libya, Malawi, Mauritius, Morocco, Mozambique, Rwanda, Reunion, Saint Helena, South Africa, Tanzania, Tunisia, Uganda, Zambia, Zimbabwe America: Argentina, Bermuda, Bolivia, Brazil, Canada, Chile, Colombia, Cuba, Ecuador, Falkland Island, Jamaica, Mexico, Peru, Puerto Rico, USA, Uruguay, Venezuela Asia: Bangladesh, China, India, Iran, Israel, Japan, Jordan, Korea DPR (North Korea), Republic of Korea (South Korea), Lebanon,</p>

	<p><i>tabaci</i> Pergande <i>Nectarophora ascepiadis</i> Cowen ex Gillette & Baker <i>Nectarophora heleniella</i> Cockerell <i>Nectarophora lycopersici</i> Clarke <i>Nectarophora tabaci</i> = <i>Nectarophora tabaci</i> Pergande <i>Siphonophora asclepiadifolii</i> Thomas = <i>Siphonophora cucurbitae</i> Middleton ex Thomas = <i>Siphonophora euphorbiae</i> Thomas = <i>Siphonophora solanifolii</i> Ashmead = <i>Siphonophora tulipae</i> Mondell); Hemiptera: Aphididae; potato aphid, pink and green potato aphid, pink and green potato aphid, pink potato aphid, potato aphid, tomato aphid</p>		<p>mandarin), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita pepo</i> (ornamental gourd), <i>Epilobium angustifolium</i> (rosebay willowherb), <i>Fragaria</i> (strawberry), <i>Freesia</i>, <i>Gladiolus hybrids</i> (sword lily), <i>Gossypium</i> (cotton), <i>Hordeum vulgare</i> (barley), <i>Linum usitatissimum</i> (flax), <i>Lupinus</i> (lupins), <i>Lupinus albus</i> (white lupine), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Triticum aestivum</i> (gandum, wheat), <i>Vicia faba</i> (faba bean), <i>Vigna unguiculata</i> (kacang panjang, cowpea), <i>Vitis vinifera</i> (anggur, grapevine)</p>		<p>Malaysia, Pakistan, Saudi Arabia, Sri Lanka, Syria, Turkey Europe: Armenia, Azerbaijan, Austria, Belarus, Belgium, Bulgaria, Bosnia and Herzegovina, Croatia, Cyprus, Czechoslovakia, Denmark, Estonia, Finland, France, Latvia, Lithuania, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Kazakhstan, Kyrgystan, Luxembourg, Macedonia, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Rusia, Serbia, Slovakia, Spain, Sweden, Switzerland, Slovenia, Tajikistan, Turkmenistan, Uzbekistan, Ukraine, UK Oceania: Australia, New Caledonia, New Zealand</p>
153	<p><i>Macrotermes natalensis</i> Haviland; Isoptera: Termitidae</p>	II	<p><i>Eucalyptus macarthurii</i>, <i>E. smithii</i>, <i>E. camaldulensis</i>, <i>E. grandis</i>, <i>E. viminalis</i></p>	stem, wood	<p>Africa: South Africa, Nigeria, Uganda, Zimbabwe</p>
154	<p><i>Malacosoma americanum</i> Fabricius; Lepidoptera: Lasyocampidae; eastern</p>	II	<p><i>Malus domestica</i> (apel, apple), <i>Prunus domesticum</i> (plam, plum), <i>Prunus persica</i> (persik,</p>	stem, bark, leaf, fruit	<p>America: Canada, USA</p>

	<p>tent caterpillar, American tent caterpillar, apple tent caterpillar, orchard tent caterpillar</p>	<p>peach) <i>Acer rubrum</i> (red maple), <i>Acer saccharum</i>(sugar maple), Alnus (alders), Amelanchier (serviceberries), <i>Berberis vulgaris</i> (European barberry), <i>Betula alleghaniensis</i> (yellow birch), <i>Betula papyrifera</i> (paper birch), <i>Carya illinoensis</i> (pecan), <i>Corylus</i>, Crataegus (hawthorns), <i>Fagus grandifolia</i> (American beech), <i>Fraxinus americana</i> (white ash), <i>Fraxinus excelsior</i> (ash), Hamamelis (witchhazel), <i>Liquidambar styraciflua</i> (sweet gum), <i>Malus coronaria</i> (sweet crab-apple), <i>Malus domestica</i> (apel, apple), <i>Nyssa sylvatica</i> (tupelo), Populus (poplars), <i>Populus grandidentata</i> (Bigtooth aspen), <i>Prunus domestica</i> (plum), <i>Prunus pennsylvanica</i>, <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Prunus salicina</i> (Japanese plum), <i>Prunus serotina</i> (black cherry), <i>Prunus virginiana</i> (common chokecherrytree), <i>Quercus alba</i> (white oak), <i>Quercus rubra</i> (northern red</p>		
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			oak), <i>Rosa</i> (roses), <i>Salix</i> (willows), <i>Sorbus</i> (rowan), <i>Tilia americana</i> (basswood), <i>Ulmus thomasi</i> (rock elm)		
155	<i>Maladera castanea</i> (Arrow); Coleoptera: Scarabaeidae; Asiatic garden beetle	II	<i>Beta vulgaris</i> (bit, beetroot), <i>Daucus carota</i> (wortel, carrot), <i>Pastinaca sativa</i> (parsnip), <i>Capsicum annuum</i> (cabe besar, paprika, bell-pepper, hot pepper, chilies, red pepper), <i>Brassica rapa</i> subspec. <i>rapa</i> (turnip)	plant, soil	America: USA Asia: China, Japan, Korea
156	<i>Manduca quinquemaculata</i> (Haworth); (= <i>Phlegethontius</i> <i>celeus</i> Hübner = <i>Phlegethontius</i> <i>quinquemaculata</i> Haworth = <i>Protoparce</i> <i>quinquemaculata</i> ab. <i>wirti</i> Schaus = <i>Protoparce</i> <i>quinquemaculatus</i> (Haworth) = <i>Sphinx</i> <i>quinquemaculatus</i> Haworth); Lepidoptera: Sphingidae; tomato hornworm, five-spotted hawkmoth, tobacco fly	II	<i>Capsicum annuum</i> (paprika, bell pepper), <i>Solanum</i> <i>lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum</i> <i>tuberosum</i> (kentang, potato) <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Nicotiana attenuata</i> <i>Atropa belladonna</i> (deadly nightshade), <i>Cestrum</i> <i>floribundum</i> , <i>Datura</i> <i>stramonium</i> (jimsonweed), <i>Kallstroemia parviflora</i> , <i>Nicotiana sylvestris</i> , <i>Physalis</i> <i>viscosa</i> (sticky physalis), <i>Solanum</i> <i>elaeagnifolium</i> (silverleaf nightshade), <i>Solanum</i> <i>grandiflorum</i>	stem, leaf, soil	America: Canada, USA
157	<i>Manduca sexta</i> Linnaeus;	II	<i>Capsicum annuum</i> (paprika,	stem, leaf,	America: Antigua and

<p>(=<i>Macrosila carolina</i> (Linnaeus) Clemens =<i>Manduca carolina</i> (Linnaeus) Hübner =<i>Phlegethontius carolina</i> (Linnaeus) Hübner =<i>Phlegethontius sexta</i> (Linnaeus) Kirby =<i>Protoparce carolina</i> (Linnaeus) Butler =<i>Protoparce griseata</i> Butler =<i>Protoparce jamaicensis</i> Butler =<i>Protoparce leucoptera</i> Rothschild and Jordan =<i>Protoparce sexta</i> (Linnaeus) Rothschild & Jordan =<i>Protoparce sexta luciae</i> Gehlen =<i>Protoparce sexta peruviana</i> Bryk =<i>Protoparce sexta saliensis</i> Kernbach =<i>Sphinx caestri</i> Blanchard =<i>Sphinx carolina</i> Linnaeus =<i>Sphinx eurylochus</i> Philippi =<i>Sphinx lycopersici</i> Boisduval =<i>Sphinx nicotianae</i> Boisduval =<i>Sphinx paphus</i> Cramer =<i>Sphinx sexta</i> Linnaeus =<i>Sphinx tabaci</i> Boisduval =; Lepidoptera: Sphingidae; tomato hornworm, tobacco</p>		<p>bell-pepper), <i>Sesamum indicum</i> (wijen, sesame), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Nicotiana attenuata</i>, <i>Solanum tuberosum</i> (kentang, potato) <i>Atropa belladonna</i> (deadly nightshade), <i>Cestrum floribundum</i>, <i>Datura stramonium</i> (kecubung, jimsonweed), <i>Datura wrightii</i>, <i>Kallstroemia parviflora</i>, <i>Verbena</i> spp., <i>Nicotiana sylvestris</i>, <i>Physalis viscosa</i> (sticky physalis), <i>Solanum elaeagnifolium</i> (silverleaves nightshade), <i>Solanum grandiflorum</i></p>	<p>soil</p>	<p>Barbuda, Argentina, Bahama, Barbados, Belize, British Virgin Bolivia, Brazil, Canada, Caribbean Islands, Cayman Island, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, USA, Uruguay, Venezuela, Oceania: Papua New Guinea</p>
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	hornworm, Carolina sphinx (USA), tomato sphinx				
158	<i>Mayetiola destructor</i> (Say); (= <i>Cecidomyia destructor</i> = <i>Cecidomyia frumentaria</i> Rondani= <i>Chortomyia secalina</i> Loew= <i>Mayetiola mimeuri</i> Mesnil= <i>Mayetiola secalis</i> Bollow= <i>Phytophaga cerealis</i> Rondani= <i>Phytophaga destructor</i>); Diptera: Cecidomyiidae; hessian fly	II	<i>Triticum aestivum</i> (gandum, wheat) <i>Agropyron</i> spp., <i>Hordeum vulgare</i> (barli, barley), <i>Secale cereale</i> (rye)	stem, leaf, seed	Africa: Algeria, Morocco, Tunisia America: Canada, USA Asia: Iraq, Israel, Kazakhstan, Syria, Turkey Europe: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Montenegro, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Serbia, Slovenia, Ukraine, UK Oceania: New Zealand
159	<i>Myopardalis pardalina</i> Biggot; Diptera: Tephritidae; Baluchistan fruit fly	II	<i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucumis melo</i> (melon, melon), <i>Cucurbita maxima</i> (waluh, labu parang, pumpkin), <i>Citrullus lanatus</i> (semangka, watermelon), Cucurbitaceae	fruit, growing media, soil	Asia: Cyprus, Iran, Iraq, Israel, Lebanon, Syria, Turkey, India, Pakistan, Afghanistan Europe: Russia
160	<i>Mythimna unipuncta</i> Haworth; (= <i>Cirphis unipuncta</i> Haworth= <i>Heliophila</i> Butl.= <i>Heliophila unipuncta</i>	II	<i>Avena sativa</i> (oat, oats), <i>Brassica oleracea</i> var. <i>italica</i> (brokoli, broccoli), <i>Hordeum vulgare</i> (barley), <i>Saccharum officinarum</i> (tebu,	stem, leaf, soil	Africa: Mali, Morocco, Niger, Senegal, Somalia, Togo America: Argentina, Bahamas, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba,

	<p>Haworth=<i>Leucania antica</i> Walker=<i>Leucania extranea</i> Guenée=<i>Leucania saccharivora</i> Butl.=<i>Leucania unipuncta</i> Haworth=<i>Leucania unipuncta</i> tseki Koutsaftikis=<i>Noctua unipuncta</i> Haworth=<i>Pseudaletia adultera</i>=<i>Pseudaletia unipuncta</i> (Haworth)=<i>Pseudaletia unipuncta</i> quecha Franclemont=<i>Sideridis unipuncta</i> Haworth); Lepidoptera: Noctuidae; rice armyworm, American army worm, American wainscot, armyworm, armyworm, American, armyworm, true, rice cutworm, true armyworm, white-speck</p>		<p>sugarcane), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Zea mays</i> (jagung, corn), <i>Oryza sativa</i> (padi, paddy), <i>Sorghum bicolor</i> (sorgum, sorghum), rumput dan serealea lainnya (Poaceae and other cerealia), <i>Panicum miliaceum</i> (millet), <i>Secale cereale</i> (rye), <i>Triticum</i> (wheat), <i>Zea mays</i> subsp. <i>mays</i> (jagung manis, sweetcorn) <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Chenopodium quinoa</i> (quinoa), Turfgrasses, <i>Medicago sativa</i> (alfalfa, lucerne), <i>Trifolium</i> spp. (clovers), <i>Allium</i> spp. (onions, garlic, leek, etc.), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Phaseolus</i> spp. (beans), <i>Solanum tuberosum</i> (kentang, potato), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Trifolium</i> (clovers), turfgrasses</p>		<p>Guatemala, Jamaica, Mexico, Panama, Paraguay, Puerto Rico, USA, Uruguay, Venezuela Asia: China, India, Iran, Israel, Turkey, Uzbekistan Europe: Bulgaria, Czech, Denmark, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Rusia, Slovakia, Spain, Sweden, Switzerland, UK</p>
161	<p><i>Myzaphis rosarum</i> Kaltenbach; Hemiptera: Aphididae; lesser rose aphid</p>	II	<p><i>Rosa</i> spp. (mawar, rose)</p>	<p>stem, leaf, flower</p>	<p>Africa: South Africa</p>

162	<i>Naupactus leucoloma</i> Boheman; (= <i>Graphognathus leucoloma</i> Buchanan; = <i>Pantomorus leucoloma</i>); Coleoptera: Curculionidae; white fringed weevil, white fringed beetle	II	<i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium repens</i> , pastures, <i>Medicago sativa</i> (alfalfa, lucerne), <i>Arachys hypogaea</i> (kacang tanah, peanut) <i>Allium ascalonicum</i> (bawang merah, shallot), <i>Ipomoea batatas</i> (ubi jalar, sweet potato)	stem, leaf, bulb, tuber, corm, soil, root	Africa: South Africa America: Argentina, Brazil, Chile, Peru, USA, Uruguay Oceania: Australia, New Zealand
163	<i>Nematocerus</i> spp.; Coleoptera: Curculionidae; shiny cereal weevil	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), cerealia, legumes, <i>Camellia sinensis</i> (teh, tea), <i>Coffea</i> spp. (kopi, coffee)	stem, leaf, seed	Africa: Ethiopia, Kenya, Somalia, Sudan, Tanzania, Uganda
164	<i>Oberea bimaculatus</i> Leconte; Coleoptera: Cerambycidae; raspberry cane borer	II	<i>Rosa</i> spp. (mawar, rose)	stem, leaf, flower	America: America.
165	<i>Olenecamptus bilobus</i> Fabricius; Coleoptera: Cerambycidae ; Longhorn beetle.	II	<i>Artocarpus integrus</i> , <i>A. hissutus</i> , <i>Mangifera indica</i> (mangga, mango), <i>Morusa alba</i>	stem, wood, kulit kayu	Asia: India, Pakistan
166	<i>Ophiomyia simplex</i> (Loew); (= <i>Agromyza simplex</i> (Loew) = <i>Melanagromyza simplex</i> (Loew)); Diptera: Agromyzidae; asparagus miner	II	<i>Asparagus officinalis</i> (asparagus, asparagus)	stem, leaf, root	America: USA Europe: France
167	<i>Opogona sacchari</i> Bojer; (= <i>Alucita sacchari</i>	II	<i>Ananas comosus</i> (nenas, pineapple), <i>Bambusa</i>	stem, leaf, flower,	Africa: Cape Verde, Madagascar, Mauritius,

	<p>Bojer=<i>Gelechia ligniferalla</i> Walker=<i>Gelechia sanctaehelena</i> Walker=<i>Hieroxestis ligniferella</i>=<i>Hieroxestis plumipes</i> Butler=<i>Hieroxestis sanctaehelena</i> Walker=<i>Hieroxestis subcervinella</i> Walker=<i>Laverna plumipes</i> Butler=<i>Opogona sanctaehelena</i> Walker=<i>Opogona subcervinella</i> (Walker) =<i>Tinea subcervinella</i> Walker); Lepidoptera; Tineidae; banana moth, sugarcane moth</p>		<p>(bamboo), <i>Dracaena</i>, <i>Hippeastrum</i>, <i>Musa</i> (pisang, banana), <i>Polyphagous</i> (polyphagous), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Strelitzia</i>, <i>Yucca</i>, <i>Zea mays</i> (jagung, corn) <i>Alpinia</i>, <i>Begonia</i>, <i>Bougainvillea spectabilis</i> (Bougainvillea), Bromeliaceae, Cactaceae (cacti), <i>Capsicum</i> (peppers), <i>Chamaedorea</i>, <i>Chamaedorea elegans</i> (parlour palm), <i>Cordyline</i>, <i>Dieffenbachia</i> (dumbcanes), <i>Dioscorea</i> (gembili, yam), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Ficus</i>, <i>Heliconia</i>, <i>Hippeastrum</i>, <i>Maranta</i> (arrowroot), <i>Philodendron</i>, <i>Saintpaulia</i> (african violet), <i>Sansevieria</i> (snake plant), <i>Sinningia speciosa</i> (gloxinia), <i>Solanum melongena</i> (terung, eggplant, aubergine)</p>	<p>seedling, bulb, tuber, corm</p>	<p>Morocco, Nigeria, Réunion, Saint Helena, Seychelles, South Africa America: Barbados, Bermuda, Honduras, USA, Brazil, Peru, Venezuela Asia: China, Israel, Japan Europe: Germany, Italy, Netherlands, Poland, Portugal, Spain, Switzerland Netherland</p>
168	<p><i>Oryctes boas</i> Fabricius; Coleoptera: Scarabaeidae; rhinoceros beetle, scarabeid oryctes boas</p>	II	<p><i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Phoenix dactylifera</i> (kurma, dates-palm) Washingtonia (wshington-palm)</p>	<p>stem, leaf, growing media, soil</p>	<p>Africa: Angola, Benin, Burkina Faso, Burundi, Chad, DR Congo, Congo, Ethiopia, Gambia, Guinea-Bissau, Ivory Coast, Kenya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Niger,</p>

					Nigeria, Rwanda, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe Asia: Saudi Arabia, Yemen
169	<i>Oryctes elegans</i> Prell; Coleoptera: Scarabaeidae; rhinoceros beetle	II	<i>Phoenix dactylifera</i> (kurma, dates-palm)	stem, leaf, growing media, soil	Africa: Mauritius Asia: Iran
170	<i>Oryctes monoceros</i> (Olivier); (= <i>Oryctes blucheaui</i> Fairmaire= <i>Oryctes insularis</i> Coquerel= <i>Scarabaeus</i> <i>monoceros</i> Olivier); Coleoptera: Scarabaeidae; rhinoceros beetle; coconut beetle	II	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Phoenix dactylifera</i> (kurma, dates-palm) <i>Agave sisalana</i> (sisal hemp), <i>Areca</i> spp., <i>Dracaena</i> spp., <i>Musa</i> spp. (pisang, banana), <i>Raphia</i> spp., <i>Saccharum officinarum</i> (tebu, sugarcane)	stem, leaf, growing media, soil	Africa: Angola, Benin, Burkina Faso, Burundi, Cameroon, Comoros, DR Congo, Congo, Ivory Coast, Ghana, Guinea, Guyana, Kenya, Liberia, Madagascar, Malawi, Mali, Mauritius, Mozambique, Niger, Nigeria, Rwanda, Reunion, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda Asia: Saudi Arabia, Yemen
171	<i>Ostrinia nubilalis</i> Hubner; (= <i>Botys nubilalis</i> Robin & Laboulbène= <i>Botys</i> <i>silacealis</i> Hübner= <i>Micracris</i> <i>nubilalis</i> = <i>Micractis nubilalis</i> Hübner= <i>Pyralis nubilalis</i> Hübner= <i>Pyrausta nubilalis</i> Meyrick= <i>Pyrausta</i> <i>silacealis</i>); Lepidoptera: Crambidae; European	II	<i>Avena sativa</i> (oat, oats), <i>Echinochloa crus-galli</i> (barnyard grass), <i>Hordeum</i> <i>vulgare</i> (barley), <i>Humulus</i> <i>lupulus</i> (hops), <i>Pennisetum</i> <i>glaucum</i> (pearl), rerumputan (Poaceae), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Sorghum</i> <i>halepense</i> (Johnson grass), serealia lainnya (cerealialia),	stem, leaf, fruit, seed	Africa: Algeria, Egypt, Libya, Morocco, Tunisia America: Canada, USA Asia: China, Georgia, Iran, Israel, Lebanon, Syria, Turkey Europe: Austria, Belarus, Belgium, Bulgaria, Bosnia and Herzegovina, Croatia, Cyprus, Czech, Denmark, France, Germany, Greece, Hungary,

	maize borer, European corn borer, corn moth, stalk borer	<p><i>Setaria italica</i> (foxtail millet), <i>Zea mays</i> (jagung, corn), <i>Zea mays</i> subsp. <i>mays</i> (sweetcorn)</p> <p><i>Amaranthus hybridus</i> (bayam, spinach), <i>Amaranthus</i> spp. (grain amaranth), <i>Amaranthus retroflexus</i> (redroot pigweed), <i>Arctium minus</i> (common burdock), <i>Artemisia vulgaris</i> (mugwort), <i>Chrysanthemum</i> spp., <i>Capsicum</i> spp. (peppers), <i>Capsicum annuum</i> (cabai besar, paprika, bell pepper), <i>Chrysanthemum</i> (daisy), <i>Cynara scolymus</i> var. <i>Scolymus</i> (artisyok, globeartichoke), <i>Datura stramonium</i> (jimsonweed), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium barbadens</i> (kapas, cotton), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Humulus lupulus</i> (hop), <i>Solanumlycopersicum</i> (tomat, tomato), <i>Populus</i> (poplars), <i>Malus domesticum</i> (apel, apple), <i>Vigna</i> spp. (cowpea), <i>Prunus persica</i> (persik, peach), <i>Solanum tuberosum</i> (kentang, potato), <i>Phaseolus</i></p>	Ireland, Italy, Moldova, Montenegro, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK
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			<i>vulgaris</i> (buncis, common bean), <i>Triticum aestivum</i> (gandum, wheat), <i>Xanthium</i> (Cocklebur)		
172	<i>Otiorhyncus sulcatus</i> Fabricius; Coleoptera: Curculionidae; black pine weevil	II	Pinus	stem, kulit wood, wood	Africa: Egypt America: USA, Colombia, Chile, Canada Asia: Japan Europe: Russia Oceania: Australia, New Zealand
173	<i>Oulema oryzae</i> Kuw.; (Lema oryzae); Coleoptera: Chrysomelidae; rice leaves beetle	II	<i>Oryza sativa</i> (padi, paddy)	stem, leaf	Asia: China, Japan, Korea Europe: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgystan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan, Ukraine
174	<i>Pachydissus sericus</i> Newman; Coleoptera: Cerambycidae; longhorn beetle	II	<i>Acacia</i> spp.	stem, wood, kulit kayu	Oceania: Australia
175	<i>Pachymerus lacerdae</i> Chevr.; (= <i>Pachymerus olearius</i>); Coleoptera: Bruchidae; palm kernel borer	II	<i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	fruit, seed	Africa: Benin, Burkina Faso, Cameroon, Cape Verde, Ivory Coast, Gabon, Ghana, Guinea-Bissau, Liberia, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo, Northwest Africa America: Argentina, Bolivia, Brazil, Chile, Colombia,

					Dominican Republic, Ecuador, French Guiana, Guyana, Panama, Peru, Paraguay, Peru, Uruguay, Venezuela
176	<i>Pachymerus nucleorum</i> Fabricius; (= <i>Bruchus nucleorum</i> = <i>Caryoborus nucleorum</i>); Coleoptera: Bruchidae; coconut borer, kernel borer	II	<i>Cocos nucifera</i> (kelapa, coconut), <i>Elaeis guineensis</i> (kelapa sawit, oil palm)	fruit, seed	America: Brazil, Guyana France, Guyana, Paraguay
177	<i>Paleacrita vernata</i> Peck.; (= <i>Alsophila vernata</i>); Lepidoptera: Geometridae; spring cankerworm	II	<i>Ulmus</i> spp., wood hutan lainnya (other forest tree)	stem, leaf, fruit	America: Canada, USA
178	<i>Papaipema nebris</i> Guenee; (= <i>Papaipema nitela</i>); Lepidoptera: Noctuidae; stalk borer	II	<i>Zea mays</i> (jagung, corn), cerealia	stem, leaf, flower	America: USA
179	<i>Parallelodiplosis cattleyae</i> Molliard; Diptera: Cecydomiidae; cattleya midge	II	Orchidaceae (anggrek, orchid)	stem, leaf, flower	America: USA
180	<i>Parthenolecanium corni</i> Bouché; (= <i>Coccus rosarum</i> Snellen van Volenhoven in De Graaf et al. = <i>Coccus tiliae</i> Fitch = <i>Eulecanium corni</i> corni (Bouché); Schmutterer = <i>Eulecanium fraxini</i> King = <i>Eulecanium guignardi</i> King = <i>Eulecanium</i>	II	<i>Crataegus</i> (hawthorns), <i>Malus</i> (ornamental species apple), <i>Mespilus germanica</i> (medlar), <i>Morus alba</i> (mora), <i>Prunus</i> (stone fruit), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (persik. peach), <i>Populus</i> (poplars), <i>Prunus salicina</i> (Japanese plum), <i>Prunus</i>	flower, fruit, leaf, stem, seedling tanaman	Africa: Algeria, Egypt, Libya America: Argentina, Brazil, Canada, Chile, Mexico, USA, Peru Asia: Afghanistan, Armenia, Azerbaijan, China, Georgia, India, Iran, Israel, Japan, Kazakhstan, Korea DPR (North Korea), Republic of

<p><i>kansasense</i> (Hunter) King=<i>Eulecanium rosae</i> King=<i>Eulecanium vini</i> (Bouché) Cockerell=<i>Lecanium</i> (<i>Eulecanium</i>) <i>armeniicum</i> Craw; Cockerell & Parrott=<i>Lecanium</i> (<i>Eulecanium</i>) <i>assimile</i> Newstead; Reh= <i>Lecanium</i> (<i>Eulecanium</i>) <i>aurantiacum</i> Hunter=<i>Lecanium</i> (<i>Eulecanium</i>) <i>canadense</i> Cockerell; Cockerell & Parrott=<i>Lecanium</i> (<i>Eulecanium</i>) <i>caryarum</i> Cockerell=<i>Lecanium</i> (<i>Eulecanium</i>) <i>corylifex</i> Fitch; Cockerell=<i>Lecanium</i> (<i>Eulecanium</i>) <i>crawii</i> Ehrhorn; Cockerell & Parrott=<i>Lecanium</i> (<i>Eulecanium</i>) <i>cynosbati</i> Fitch; Cockerell & Parrott=<i>Lecanium</i> (<i>Eulecanium</i>) <i>fitchii</i> Signoret; Cockerell & Parrott=<i>Lecanium</i> (<i>Eulecanium</i>) <i>kingii</i> Cockerell=<i>Lecanium</i> (<i>Eulecanium</i>) <i>lintneri</i></p>	<p><i>serotina</i> (black cherry), <i>Pyracantha coccinea</i> (Scarlet firethorn), <i>Ribes</i> (currants), <i>Ribes nigrum</i> (blackcurrant), <i>Ribes rubrum</i> (red currant), Rosa (mawar, roses), <i>Vitis</i> <i>vinifera</i> (anggur, grapevineAcer (maples), <i>Aesculus</i> <i>hippocastanum</i>(horse chestnut), <i>Aphelandra</i> <i>squarrosa</i> (Zebra plant), <i>Buxus sempervirens</i> (common boxwood), <i>Carpinus betulus</i> (hornbeam), <i>Celtis occidentalis</i> (hackberry), <i>Citrus</i> <i>aurantiifolia</i> (lime), <i>Clematis</i> <i>vitalba</i> (old man's beard), Cornus (Dogwood), <i>Cornus</i> <i>sanguinea</i> (dogwood), <i>Corylus</i>, <i>Corylus avellana</i> (hazel), Cotoneaster, <i>Cydonia</i> <i>oblonga</i> (quince), <i>Euonymus</i> <i>europaeus</i>, Fraxinus (ashes), Jasminum (jasmine), <i>Juglans</i> <i>regia</i> (walnut), <i>Lonicera</i> (honeysuckles), <i>Magnolia</i> <i>grandiflora</i> (Southern magnolia), <i>Malus domestica</i> (apel, apple), <i>Mespilus</i> <i>germanica</i> (medlar), <i>Morus</i> <i>alba</i> (mora), <i>Populus</i></p>	<p>Korea (South Korea), Kyrgyzstan, Lebanon, Mongolia,Pakistan, Syria, Tajikistan,Turkey, Turkmenistan, Uzbekistan Europe: Albania, Austria,Belarus, Belgium, Bulgaria, Bosnia and Herzegovina, Czech, Croatia, Cyprus, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Montenegro, Macedonia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia, New Zealand</p>
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<p>Cockerell & Bennett; Cockerell=<i>Lecanium</i> (Eulecanium) <i>maclurorum</i> Cockerell=<i>Lecanium</i> (Eulecanium) <i>ribis</i> Fitch; Cockerell & Parrott=<i>Lecanium</i> (Eulecanium) <i>rugosum</i> Signoret; Cockerell=<i>Lecanium</i> (Eulecanium) <i>tarsale</i> Signoret; Cockerell & Parrott=<i>Lecanium</i> (Eulecanium) <i>vini</i> Bouché; King & Reh=<i>Lecanium</i> <i>adenostomae</i> Kuwana=<i>Lecanium</i> <i>armeniicum</i> Craw=<i>Lecanium</i> <i>assimile</i> Newstead=<i>Lecanium</i> <i>canadense</i> Cockerell; Cockerell=<i>Lecanium</i> <i>caryaecanadense</i> Cockerell=<i>Lecanium</i> <i>corni</i> Bouché=<i>Lecanium</i> <i>corni</i> <i>robiniarum</i> Marchal=<i>Lecanium</i> <i>coryli</i> (Linnaeus); Sulc (misidentification)=<i>Lecanium</i> <i>corylifex</i> Fitch =<i>Lecanium</i> <i>crawii</i> Ehrhorn=<i>Lecanium</i> <i>cynosbati</i> Fitch=<i>Lecanium</i></p>		<p>(poplars), <i>Prunus salicina</i> (Japanese plum), <i>Prunus serotina</i> (black cherry), <i>Pyracantha coccinea</i> (Scarlet firethorn), <i>Pyrus</i> (pir, pears), <i>Pyrus communis</i> (European pear), <i>Ribes uva-</i> <i>crispa</i> (gooseberry), <i>Robinia</i> <i>pseudoacacia</i>(black locust), <i>Rosmarinus officinalis</i> (rosemary), <i>Rubus</i> (blackberry, raspberry), <i>Rubus</i> <i>idaeus</i> (raspberry), <i>Salix</i> (willows), <i>Sorbus</i> (rowan), <i>Spiraea</i>, <i>Taxus baccata</i> (English yew), <i>Tilia</i> (limes), <i>Ulmus</i> (elms), <i>Vaccinium</i> <i>myrtillus</i> (blueberry), <i>Viburnum</i>, <i>Wisteria sinensis</i> (purple wisteria)</p>		
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	<p><i>fitchii</i> Signoret=<i>Lecanium folsomi</i> King=<i>Lecanium juglandifex</i> Fitch=<i>Lecanium kansasense</i> Hunter=<i>Lecanium lintneri</i> Cockerell & Bennett in Cockerell=<i>Lecanium maclurae</i> Hunter=<i>Lecanium obtusum</i> Thro=<i>Lecanium persicae</i> crudum Green=<i>Lecanium pruinosumarmeniicum</i> Craw; Tyrell=<i>Lecanium rehi</i> King in King & Reh=<i>Lecanium ribis</i> Fitch=<i>Lecanium robiniarum</i> Douglas=<i>Lecanium rugosum</i> Signoret=<i>Lecanium tarsalis</i> Signoret=<i>Lecanium vini</i> Bouché=<i>Lecanium websteri</i> King=<i>Lecanium wistariae</i> Signoret=<i>Parthenolecanium corni</i> (Bouché); Borchsenius=<i>Parthenolecanium coryli</i> (Linnaeus); Sulc (misidentification)); Hemiptera: Coccidae; European fruit lecanium brown scale; European fruit scale; peach scale; yew scale; fruit scale</p>				
181	<i>Pemphigus betae</i> Doane;	II	<i>Beta</i> spp.	stem, leaf,	America: Canada, Mexico,

	Hemiptera: Aphididae; sugarbit root aphid			bulb, tuber, corm	USA
182	<i>Peridroma saucia</i> Hubner; (= <i>Agrotis angulifera</i> = <i>A. impacta</i> = <i>A. inermis</i> = <i>A. intecta</i> = <i>A. ortonii</i> = <i>A. saucia</i> = <i>Lycophotia</i> <i>margaritosa</i> = <i>L. ochronota</i> = <i>L. saucia</i> = <i>Noctua aequa</i> = <i>N. majuscula</i> = <i>N. margaritosa</i> = <i>N. saucia</i> = <i>Rhyacia margaritosa</i> = <i>R. saucia</i> = <i>Peridroma</i> <i>margaritosa</i>); Lepidoptera: Noctuidae; variegated cutworm, pearly underwing moth	II	<i>Beta vulgaris</i> (bit, beetroot), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica</i> <i>oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>B. oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Capsicum</i> <i>annuum</i> (paprika, bell- pepper), <i>Cynara scolymus</i> (artisyok, artichoke), <i>Lactuca</i> <i>sativa</i> (selada, lettuce), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum tuberosum</i> (kentang, potato), <i>Medicago</i> <i>sativa</i> (alfalfa, lucerne), <i>Nicotiana tabacum</i> (tembakau, tobacco) <i>Abies balsamea</i> (balsam fir), <i>Abies grandis</i> (grand fir), <i>Acer</i> (maples), <i>Acer negundo</i> (box elder), <i>Acer saccharum</i> (sugar maple), <i>Alcea rosea</i> (Hollyhock), <i>Allium cepa</i> (bawang bombay, onion), <i>Alnus rubra</i> (red alder), <i>Allium</i> <i>ascalonicum</i> (bawang merah, shallot), <i>Apium graveolens</i> (seledri, celery), <i>Arachys</i> <i>hypogaea</i> (kacang tanah, peanut), <i>Asparagus officinalis</i>	stem, leaf, flower	Africa: Morocco, Tunisia America: Argentina, Bermuda, Brazil, Canada, Chile, Colombia, Costa Rica, Ecuador, Guatemala, Jamaica, Mexico, Peru, Puerto Rico, USA, Uruguay, Venezuela Asia: Armenia, China, Israel, Japan, Republic of Korea (South Korea), Sri Lanka, Syria, Taiwan, Turkey Europe: Albania, Austria, Belgium, Bulgaria, Bosnia and Herzegovina, Canary Island, Croatia, Czech, Denmark, Faroes Island, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Kosovo, Lithuania, Luxembourg, Macedonia, Malta, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK

			<p>(asparagus, asparagus), <i>Asparagus setaceus</i> (asparagus fern), <i>Aster</i>, <i>Ambrosia artemisiifolia</i> (common ragweed), <i>Amelanchier canadensis</i> (thicket serviceberry), <i>Anthemis cotula</i> (dog fennel), <i>Avena sativa</i> (oat, oats), <i>Brassica</i> spp, <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassica nigra</i> (black mustard), <i>Brassica rapa</i> subsp. <i>oleifera</i> (turnip rape), <i>Capsella bursa-pastoris</i> (shepherd's purse), <i>Chrysanthemum</i> (daisy), <i>Cicer</i> <i>arietinum</i> (chickpea), <i>Cichorium</i> (chicory), <i>Cirsium</i> (thistle), <i>Citrus lemon</i> (lemon), <i>Chamaecyparis thyoides</i> (atlantic whitecedar), <i>Chenopodium quinoa</i> (quinoa), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Cicer arietinum</i> (chickpea), <i>Citrus</i> spp. (jeruk, orange), <i>Conyza canadensis</i>, <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita maxima</i></p>		
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			<p>(waluh, labu parang, pumpkin), <i>Daucus carota</i> (wortel, carrot), <i>Dahlia</i>, <i>Datura stramonium</i> (jimsonweed), <i>Dianthus</i> (carnation), <i>Epilobium angustifolium</i> (rosebay willowherb), <i>Erigeron</i> (Fleabane), <i>Fragaria vesca</i> (arbei, wild strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Geranium</i> (cranesbill), <i>Gladiolus hybrids</i> (sword lily), <i>Gleditsia triacanthos</i> (honey locust), <i>Gossypium</i> (cotton), <i>Gossypium barbadens</i> (kapas, cotton), <i>Gleditsia triacanthos</i>, <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Hordeum vulgare</i> (barley), <i>Humulus lupulus</i> (hop), <i>Inula helenium</i> (Elecampane), <i>Ipomoea batatas</i> (ubi jalar, sweetpotato), <i>Lathyrus odoratus</i> (sweet pea), <i>Linum usitatissimum</i> (flax), <i>Lolium</i> spp. (ryegrasses), <i>Maclura pomifera</i> (osage orange), <i>Malus domestica</i> (apel, apple), <i>Mentha piperita</i>, <i>Melia</i></p>		
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			<p> <i>azedarach</i> (Chinaberry), <i>Melilotus albus</i> (honey clover), <i>Mentha piperita</i> (Peppermint), <i>Mentha spicata</i> (Spear mint), <i>Morus alba</i> (mora), <i>Parthenium argentatum</i> (Guayule), <i>Petunia</i>, <i>Phaseolus</i> <i>lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Phleum</i> <i>pratense</i> (timothy), <i>Persea</i> <i>americana</i> (avokad, avocado), <i>Pimenta dioica</i> (allspice), <i>Vigna</i> spp. (buncis, cowpea), <i>Pisum sativum</i> (kapri, sweet pea), <i>Pimenta dioica</i>, <i>Prunus</i> <i>americana</i> (aprikot, apricot), <i>Prunus domesticum</i> (plum), <i>Pyrus communis</i> (pir, pear), <i>Portulaca oleracea</i>, <i>Prunus</i> <i>cerasus</i>, <i>Prunus persica</i> (persik, peach), <i>Pteridium</i> <i>aquilinum</i>, <i>Picea glauca</i> (white spruce), <i>Pisum sativum</i> (pea), Plantago (Plantain), Polygonum (knotweed), Populus (poplars), <i>Portulaca</i> <i>oleracea</i> (purslane), <i>Prunus</i> (stone fruit), <i>Prunus salicina</i> (Japanese plum), <i>Pseudotsuga</i> <i>menziesii</i> (Douglas-fir), <i>Pteridium aquilinum</i> (bracken), </p>		
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			<p> <i>Pyrus communis</i> (European pear), <i>Raphanus sativus</i> (lobak, radish), <i>Rheum hybridum</i> (rhubarb), <i>Rhus</i> (Sumach), <i>Ribes uva-crispa</i> (gooseberry), <i>Rosa</i> (roses), <i>Rubus idaeus</i>, <i>Rubus fruticosus</i> (blackberry), <i>Rubus idaeus</i>(raspberry), <i>Rubus occidentalis</i> (black raspberry), <i>Raphanus sativus</i> (lobak, radish), <i>Rumex</i> (Dock), <i>Salix</i> (willows), <i>Salvia officinalis</i> (common sage), <i>Secale cereale</i> (rye), <i>Sinapis alba</i> (white mustard), <i>Spinacia oleracea</i>, <i>Stellaria media</i>, <i>Solidago</i> (Goldenrod), <i>Sonchus</i> (Sowthistle), <i>Spinacia oleracea</i> (spinach), <i>Stellaria media</i> (common chickweed), <i>Trifolium</i> (clovers), <i>Triticum aestivum</i> (gandum, wheat), turfgrasses, <i>Tropaeolum majus</i> (common nasturtium), <i>Tsuga canadensis</i> (eastern hemlock), <i>Vaccinium</i> (blueberries), <i>Vicia</i> (vetch), <i>Vicia faba</i> (faba bean), <i>Vitis vinifera</i> (anggur, grapevine), <i>Viola</i> (violet), <i>Xanthium strumarium</i> (common </p>	
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			cocklebur), <i>Zea mays</i> (jagung, corn), <i>Zea mays</i> subsp. <i>mays</i> (sweetcorn), <i>Zea mays</i> subsp. <i>mexicana</i> (teosinte), <i>Zinnia</i>		
183	<i>Phenacoccus gossypii</i> Townsend & Cockerell; (= <i>Phenacoccus madeirensis</i> = <i>Phenacoccus grenadensis</i> = <i>Phenacoccus harbisoni</i>); Hemiptera: Pseudococcidae; Mexican mealybug, cassava mealybug	II	<i>Avena sativa</i> (oats), <i>Capsicum annuum</i> (bell pepper), Citrus, <i>Coleus</i> , <i>Gossypium barbadens</i> (kapas, cotton), <i>Hibiscus</i> (rosemallows), <i>Lantana camara</i> (lantana), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum tuberosum</i> (kentang, potato) <i>Acacia</i> (wattles), <i>Acalypha</i> (Copperleaf), <i>Ageratina adenophora</i> (Croftonweed), <i>Ambrosia</i> (Ragweed), <i>Ananas comosus</i> (pineapple), <i>Artocarpus altilis</i> (breadfruit), <i>Aster</i> , <i>Cajanus cajan</i> (pigeon pea), <i>Cassia</i> (sennas), <i>Cestrum</i> (jessamine), <i>Cestrum nocturnum</i> (night scented cestrum), <i>Codiaeum</i> (ornamental croton), <i>Codiaeum variegatum</i> (croton), <i>Desmodium</i> (tick clovers), <i>Erigeron</i> (Fleabane), <i>Fabaceae</i> (leguminous plants), <i>Geranium</i> (cranesbill), <i>Gesneriaceae</i> , <i>Hibiscus</i>	stem, leaf, flower	Africa: Angola, Benin, Cameroon, Cape Verde, DR Congo, Ivory Coast, Gabon, Gambia, Ghana, Liberia, Malawi, Mauritius, Mozambique, Nigeria, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Togo, Zimbabwe America: Antigua and Barbuda, Bermuda, Bahama, Barbados, British Virgin Islands, Brazil, Bolivia, Cayman Islands, Costa Rica, Cuba, Colombia, Dominica Republic, Ecuador, Guyana, Grenada, Guadeloupe, Guatemala, Haiti, Jamaica, Montserrat, Mexico, Paraguay, Peru, Panama, Puerto Rico, Saint Kitts and Nevis, Saint Lucia, Trinidad and Tobago, USA, Venezuela Asia: India, Philippines, Taiwan, Thailand, Yemen Europe: France, Greece, Italy, Portugal, Spain

			<i>mutabilis</i> (cottonrose), Lantana, Malvaceae, Mentha (mints), <i>Mikania micrantha</i> (mile-a-minute), Mimosa (sensitive plants), <i>Ocimum basilicum</i> (basil), <i>Pachystachys</i> , <i>Parthenium hysterophorus</i> (parthenium weed), Pelargonium (pelargoniums), <i>Ricinus communis</i> (castor bean), Sophora		Oceania: Guam, Federated State of Micronesia
184	<i>Phorachanta semipunctata</i> Fabricius; Coleoptera: Cerambycidae; Eucalyptus longhorned borer	II	<i>Eucalyptus diverisicolor</i> , <i>E. globules</i> , <i>E. maidenii</i>	stem, wood, kulit kayu	Africa: South Africa America: USA Europe: France, Italy, Netherlands, Spain, Portugal
185	<i>Phylloxera vitifoliae</i> Fitch.; (= <i>Dactylosphaera vastatrix</i> (Planchon) = <i>Dactylosphaera vitifoliae</i> (Shimer) = <i>Daktulosphaera vitifoliae</i> Fitch = <i>Daktylosphaera vitifoliae</i> Fitch = <i>Pemphigus vitifoliae</i> Fitch = <i>Peritymbia vastatrix</i> Fitch = <i>Peritymbia vitifoliae</i> (Planchon) = <i>Peritymbia vitisana</i> Westwood = <i>Phylloxera pervastatrix</i>	II	<i>Vitis vinifera</i> (anggur, grapevine), <i>Vitis aestivalis</i> (Summer grape), <i>Vitis labrusca</i> (fox grape), <i>Vitis riparia</i> (riverbank grape)	stem, leaf, fruit, flower, root	Africa: Algeria, Morocco, South Africa, Tunisia, Zimbabwe America: Argentina, Bermuda, Bolivia, Brazil, Canada, Colombia, Mexico, Panama, Peru, USA, Uruguay, Venezuela Asia: Armenia, Azerbaijan, China, Georgia, India, Israel, Japan, Jordan, Korea DPR (North Korea), Republic of Korea (South Korea), Lebanon, Syria, Turkey Europe: Austria, Bosnia and Herzegovina, Bulgaria, Croatia,

	Börner= <i>Phylloxera vastatrix</i> (Planchon)= <i>Phylloxera vitifolii</i> (Fitch)= <i>Rhizaphis vastatrix</i> (Planchon)= <i>Viteus vastatrix</i> (Planchon)= <i>Viteus vitifoliae</i>); Hemiptera: Phylloxeridae; phylloxera, grape phylloxera, vine louse, grape leaf louse				Czech, France, Germany, Greece, Hungary, Italy, Luxembourg, Macedonia, Malta, Moldova, Montenegro, Portugal, Poland, Romania, Russia, Slovakia, Slovenia, Serbia, Spain, Switzerland, Ukraine, UK Oceania: Australia, New Zealand
186	<i>Pieris rapae</i> .; (= <i>Artogeia rapae</i> = <i>Ascia rapae</i> = <i>Mancipium rapae</i> = <i>Papilio rapae</i> = <i>Pontia rapae</i>); Lepidoptera: Pieridae; cabbage butterfly, cabbage white butterfly, common cabbage worm, imported cabbage worm, rape white butterfly, small white butterfly	II	<i>Brassica</i> spp., <i>Brassica oleracea</i> (cabbage, cauliflowers), <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Brassica oleracea</i> var. <i>gongylodes</i> (kohlrabi), <i>Brassica oleracea</i> var. <i>italica</i> (brokoli, broccoli), <i>Brassica oleracea</i> var. <i>viridis</i> (collards), <i>Brassica rapa</i> cultivar group Caixin, <i>Brassica rapa</i> subsp. <i>oleifera</i> (turnip rape), <i>Brassica rapa</i> subsp. <i>pekinensis</i> , Brassicaceae (cruciferous crops), <i>Alliaria petiolata</i> (garlic mustard), <i>Cakile maritima</i> , <i>Erysimum cheiranthoides</i>	stem, leaf	Africa: Algeria, Egypt, Libya, Morocco America: Bermuda, Canada, Mexico, USA Asia: Afghanistan, Azerbaijan, China, Georgia, India, Iran, Iraq, Israel, Japan, Jordan, Korea DPR (North Korea), Republic of Korea (South Korea), Kyrgyzstan, Lebanon, Mongolia, Myanmar, Pakistan, Philippines, Singapore, Syria, Taiwan, Turkey, Vietnam Europe: Austria, Belarus, Belgium, Bulgaria, Bosnia and Herzegovina, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Kosovo, Latvia, Lithuania, Macedonia, Montenegro, Malta,

			<i>(Treacle mustard), Rorippa indica</i> (indian marshcress), <i>Spinacia oleracea</i> (Spinach), <i>Tropaeolum majus</i> (common nasturtium)		Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia Oceania: Australia, New Zealand
187	<i>Piesarthrus marginellus</i> Newman; Coleoptera: Cerambycidae; acacia longhorn beetle	II	<i>Acacia</i> spp.	stem, wood, kulit kayu	Oceania: Australia
188	<i>Pimelephila ghesquierei</i> Tams.; Lepidoptera: Pyralidae; African spir borer	II	<i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Raphia Cocos nucifera</i> (kelapa, coconut)	stem, leaf	Africa: Benin, Cameroon, Central African Republic, Congo, DR Congo, Gabon, Gambia, Ghana, Guinea-Bissau, Guinea, Ivory Coast, Liberia, Niger, Nigeria, Senegal, Sierra Leone, Togo
189	<i>Pissodes strobi</i> Peck; (= <i>Pissodes engelmanni</i> Hopkins = <i>Pissodes sitchensis</i> Hopkins); Coleoptera: Curculionidae; sitka spruce weevil	II	<i>Picea abies</i> (common spruce), <i>Picea engelmannii</i> (Engelmann spruce), <i>Picea glauca</i> (white spruce), <i>Picea sitchensis</i> (Sitka spruce), <i>Pinus banksiana</i> (jack pine), <i>Pinus strobus</i> (eastern white pine), <i>Pinus balfourina</i> , <i>P. densifolia</i> , <i>P. flexilis</i> , <i>P. griffithii</i> , <i>P. monticola</i> , <i>P. mugo</i> , <i>P. ponderosa</i> , <i>P. rigida</i> , <i>P. sylvestris</i> , <i>Pseudotsuga menziesii</i> <i>Picea mariana</i> (black spruce),	stem, wood	America: Canada, Mexico, USA

			<p><i>Picea omorika</i> (Panic spruce), <i>Picea pungens</i> (blue spruce), <i>Picea rubens</i> (red spruce), <i>Pinus contorta</i> (lodgepole pine), <i>Pinus flexilis</i> (limber pine), <i>Pinus koraiensis</i> (fruit pine), <i>Pinus monticola</i> (western white pine), <i>Pinus mugo</i> (mountain pine), <i>Pinus nigra</i> (black pine), <i>Pinus parviflora</i> (Japanese white pine), <i>Pinus peuce</i>(macedonian pine), <i>Pinus resinosa</i> (red pine), <i>Pinus rigida</i> (pitch pine), <i>Pinus strobiformis</i> (southwestern white pine), <i>Pinus sylvestris</i> (Scots pine), <i>Pinus tecunumanii</i> (tecun uman pine), <i>Pinus wallichiana</i> (blue pine)</p>		
190	<p><i>Planococcoides njalensis</i> Laing; (= <i>Pseudococcus njalensis</i> = <i>P. exitiabilis</i>); Hemiptera: Pseudococcidae; Northwest African cocoa mealybug</p>	II	<p><i>Theobroma cacao</i> (kakao, cocoa), <i>Persea americana</i> (avokad, avocado) <i>Ananas comosus</i> (nenas, pineapple), <i>Bombax buonopozense</i> (silk-cotton tree), <i>Ceiba pentandra</i> (kapok), Clerodendrum (Fragrant clerodendron), <i>Coffea</i> spp. (kopi, coffee), <i>Coffea arabica</i> (kopi arabika,</p>	buds, stem, leaf, fruit	<p>Africa: Benin, Cameroon, DR Congo, Congo, Ghana, Guinea, Ivory Coast, Liberia, Nigeria, Sao Tome & Principe, Senegal, Sierra Leone, Togo</p>

			arabica coffee), <i>Coffea canephora</i> (kopi robusta, robusta coffee), <i>Coffea liberica</i> (Liberian coffee tree), <i>Cola acuminata</i> (cola), <i>Delonix regia</i> (flamboyant), Euphorbiaceae, Fabaceae (leguminous plants), <i>Gliricidia sepium</i> (mother of cocoa), <i>Mangifera indica</i> (mangga, mango), Rubiaceae, Solanaceae, Sterculiaceae		
191	<i>Planococcus kenyae</i> Le Pelley;(= <i>Planococcus subukiaensis</i> = <i>Pseudococcus kenyae</i> = <i>P.kenyaensis</i>); Hemiptera: Pseudococcidae; coffee mealybug, Kenya mealybug	II	<i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Citrus</i> spp.(jeruk, orange), <i>Coffea</i> spp. (kopi, coffee), <i>Coffea arabica</i> (kopi arabika, arabica coffee), <i>Coffea canephora</i> (kopi robusta, robusta coffee), <i>Coffea eugenoides</i> , <i>Dioscorea</i> sp. (gembili, yam), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Passiflora</i> spp. (passion flower), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Theobroma cacao</i> (kakao, cocoa) <i>Acacia</i> spp. (wattles), <i>Annona cherimola</i> (cherimoya), <i>Annona squamosa</i> (srikaya, sweetsop), <i>Bauhinia purpurea</i> (purple bauhinia), <i>Beta vulgaris</i> (bit, beetroot), <i>Carissa edulis</i> (egyptian	buds, stem, leaf, flower, fruit	Africa: Burundi, DR Congo, Congo, Ivory Coast, Ghana, Kenya, Malawi, Nigeria, Rwanda, Siera Leone, Sudan, Tanzania, Togo, Uganda, Zimbabwe

			carissa), <i>Codiaeum variegatum</i> (croton), <i>Erythrina abyssinica</i> (red hot poker tree), Gardenia, Gliricidia, <i>Gossypium barbadens</i> (kapas, cotton), <i>Indigofera</i> spp., (indigo), <i>Impatiens</i> (balsam), Inga, <i>Jacaranda mimosifolia</i> (Brazilian rose wood), <i>Lolium perenne</i> (perennial ryegrass), Phaseolus (beans), <i>Psidium guajava</i> (jambu batu, guava), <i>Pueraria lobata</i> , <i>Pueraria montana</i> var. <i>lobata</i> (kudzu), <i>Ricinus communis</i> (castor bean), <i>Sesbania grandiflora</i> (turi, agati), <i>Sesbania sesban</i> (sesban), Solanum (nightshade), <i>Solanum seaforthianum</i> (star potato-vine), <i>Sonchus oleraceus</i> (common sowthistle)		
192	<i>Platyomopsis egena</i> Pascoe; Coleoptera: Cerambycidae	II	<i>Acacia</i> spp.	stem, wood, kulit jayu	Oceania: Australia
193	<i>Platyomopsis nigrovireus</i> Donovan; Coleoptera: Cerambycidae; green striped longhorn beetle	II	<i>Acacia</i> spp.	stem, wood, kulit kayu	Oceania: Australia
194	<i>Popilia japonica</i> Newman; (= <i>Aserica japonica</i> = <i>A. japonica</i> = <i>Maladera</i>	II	<i>Acer</i> spp., <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Glycine max</i>	stem, leaf, flower, root, soil	America: Canada, USA Asia: China, India, Japan, Korea Europe: Portugal,

	<i>japonica</i> = <i>Serica japonica</i>); Coleoptera: Scarabaeidae; Japanese beetle, velvety chafer		(kedelai, soyabean), <i>Malus domesticum</i> (apel, apple), fruit batu (stone fruit), <i>Rheum hybridum</i> , <i>Rosa</i> spp. (mawar, rose), <i>Rubus</i> spp. (raspberry), <i>Tilia</i> spp., <i>Ulmus</i> spp., <i>Zea mays</i> (jagung, corn) <i>Aesculus</i> spp., <i>Althaea</i> spp., <i>Castanea</i> spp., <i>Hibiscus</i> spp., <i>Juglans nigra</i> , <i>Platanus</i> spp., <i>Populus</i> spp., <i>Salix</i> spp., <i>Sorbus americana</i> , <i>Sassafras albidum</i> , <i>Betula</i> spp., turfgrasses.		Russia
195	<i>Prionoryctes canniculus</i> Arr.; Coleoptera: Scarabaeidae; yam beetle	II	<i>Dioscorea</i> sp. (gembili, yam), <i>Dioscorea esculenta</i>	stem, leaf, bulb, tuber, corn	Africa: all
196	<i>Prostephanus truncatus</i> Horn.; (= <i>Dinoderus truncates</i>); Coleoptera: Bostrichidae; larger grain borer, greater grain borer, scania beetle	II	Dried cassava (gaplek), <i>Zea mays</i> (jagung, corn), <i>Manihot esculenta</i> (ubi wood, cassava), stored products (dried stored products) S): <i>Arachis hypogaea</i> (kacang tanah, peanut), <i>Dioscorea</i> sp. (gembili, yam), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Triticale</i> spp., <i>Triticum aestivum</i> (gandum, wheat)	umbi kering, seed	Africa: Benin, Burkina Faso, Burundi, Ghana, Guinea, Kenya, Malawi, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, South Africa, Tanzania, Togo, Zambia America: Brazil, Canada, Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Peru, USA Asia: Cambodia Europe: France, Italy

197	<i>Protomelittoma insulare</i> Fairmaire; Coleoptera: Lymexylidae; stem borer	II	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	leaf	Africa: Madagascar, Seychelles.
198	<i>Pseudococcus aurilanus</i> Maskell; Hemiptera: Psudococcidae; Golden mealybug, yellow banded mealybug	II	<i>A. Excelsia</i> , <i>Araucaria</i> spp.	stem, wood	Africa: Kenya, Uganda America: Canada, Mexico, USA Oceania: Australia, New Zealand
199	<i>Pseudococcus calceolariae</i> Maskell;(= <i>Dactylopius</i> <i>calceolariae</i> (Maskell), <i>Erium calceolariae</i> (Maskell) Lindinger), <i>Pseudococcus citrophilus</i> (Clausen), <i>P. fragilis</i> Brain; <i>P. gahani</i> Green, <i>P.</i> <i>similans</i>);Hemiptera: Pseudococcidae; scarlet mealybug, Citrophilus mealybug, currant mealybug	II	<i>Abutilon</i> (Indian Mallow), <i>Arachis hypogaea</i> (kacang tanah, peanut), <i>Brachychyton</i> , <i>Brassica</i> , <i>Ceanothus</i> (white- thorne), <i>Chenopodium</i> (Goosefoot), <i>Citrus medica</i> (citron), <i>Conium maculatum</i> (Poison hemlock), <i>Crataegus</i> , (hawthorns), <i>Cynodiaoblonga</i> (quince), <i>Daucus carota</i> (wortel, carrot), <i>Dodonaea</i> <i>viscosa</i> (switsch sorrel), <i>Eugenia</i> , <i>Ficus</i> , <i>Fragaria</i> (stroberi, strawberry), <i>Geranium</i> (cranesbill), <i>Hedera</i> <i>helix</i> (ivy), <i>Helianthus</i> spp. (sunflower), <i>Heliotropium</i> <i>arborescens</i> (cherry pie), <i>Hibiscus</i> (rosemallows), <i>Juglans regia</i> (walnut), <i>Laburnum anargyroides</i> (laburnum), <i>Ligustrum</i> (privet), <i>Lolium</i> spp (ryegrasses), <i>Malus domestica</i>	bibit plant, part of plant	Africa: Ghana, Madagascar, Morocco, Namibia, South Africa America: Argentina, Brazil, Bolivia, Central America, Colombia, Chile, Dominican Republic, Ecuador, French Guiana, Mexico, USA, Paraguay, Peru, Uruguay, Venezuela, Asia: China, Georgia Europe: Czech, France, Italy, Netherlands, Portugal, Russia, Slovakia, Spain, Ukraine, UK Oceania: Australia, New Zealand

			(apel, apple), <i>Malus sylvestris</i> (crab-apple tree), <i>Malva</i> (mallow), <i>Musa paradisiaca</i> (pisang kepok, plantain), <i>Nerium oleander</i> (oleander), <i>Pelargonium</i> (pelargoniums), <i>Pinus radiata</i> (radiata pine), <i>Pisum sativum</i> (pea), <i>Pittosporum tobira</i> (Japanese pittosporum), <i>Pittosporum undulatum</i> (pittosporum), <i>Polyscias</i> , <i>Prunus</i> , (stone fruit), <i>Pyrus communis</i> (European pear), <i>Rheum hybridum</i> , (rhubarb), <i>Rhododendron</i> (Azalea), <i>Ribes sanguineum</i> (Flowering currant), <i>Rosa</i> (mawar, roses), <i>Rubus</i> (blackberry, raspberry) <i>Schinus molle</i> (false pepper tree), <i>Sechium edulle</i> (chayotte), <i>Solanum tuberosum</i> (kentang, potato), <i>Theobroma cacao</i> (kakao, cocoa), <i>Vitis vinifera</i> (anggur, grapevine), <i>Saccharum officinarum</i> (tebu, sugarcane)		
200	<i>Pseudothraupis wayi</i> Brown; (= <i>Thraupis</i> sp. (Way)); Hemiptera: Coreidae; coconut bug	II	<i>Cocos nucifera</i> (kelapa , coconut), <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Macadamia</i>	stem, flower, fruit	Africa: Kenya, South Africa, Tanzania

			spp., <i>Macadamia integrifolia</i> (macadamia nut), <i>Cinnamomum myanmarnii</i> (bark of kayu manis, cassia vera), <i>Cinnamomum verum</i> (kayu manis, cinnamon), <i>Eriobotrya japonica</i> (lokwat, loquat), <i>Psidium guajava</i> (jambu seed, guava), <i>Theobroma cacao</i> (kakao, cocoa), <i>Averrhoa carambola</i> (belimbing, carambola, starfruit), <i>Carya illinoensis</i> (pecan), <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (avokad, avocado)		
201	<i>Psila rosae</i> Fab.; (= <i>Chamaepsila rosae</i> = <i>Musca rosae</i> = <i>Chamaepsila hennigi</i>); Diptera: Psilidae; carrot root fly, carrot rust fly	II	<i>Petroselinum crispum</i> (parseli, parsley), <i>Pastinaca sativa</i> (parsnip), <i>Apium graveolens</i> (seledri, celery), <i>Apium graveolens</i> var. <i>rapaceum</i> (celeriac), <i>Daucus carota</i> (wortel, carrot), <i>Carum carvi</i> (jinten, caraway), <i>Levisticum officinale</i> (lovage), <i>Anethum graveolens</i> (dill), <i>Anthriscus cerefolium</i> , Brassica, <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Coriandrum sativum</i> (ketumbar,	bulb, tuber, corm, growing media, soil	America: Canada, USA Asia: Georgia, Japan, Mongolia, Turkey Europe: Austria, Belarus, Belgium, Bulgaria, Czech, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Netherlands, Norway, Poland, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: New Zealand

			corriander), <i>Conium maculatum</i> (Poison hemlock), <i>Foeniculum vulgare</i> (adas pedas, fennel), <i>Raphanus sativus</i> (lobak, radish)		
202	<i>Psorosina hammondi</i> Riley.; Lepidoptera: Pyralidae; apple leaves skeletonizer	II	<i>Malus domestica</i> (apel, apple), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), nektarin, other stone fruit (buah batu lainnya)	stem, leaf, fruit	America: Canada, USA
203	<i>Pyrrhia umbra</i> Hufnagel; Lepidoptera: Noctuidae; rose budworm, tobacco striped caterpillar	II	<i>Solanumlycopersicum</i> (tomat, tomato)	stem, leaf, flower	Asia: Republic of Korea (South Korea) Europe: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Germany, Kazakhstan, Kyrgystan, Latvia, Lithuania, Moldova, Tajikistan, Turkmenistan, Uzbekistan, Ukraine, Russia
204	<i>Recilia mica</i> Kramer; Hemiptera: Cicadellidae; cicadellid leaveshopper	II	<i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	buds, stem, leaf	Africa: West Africa, Ivory Coast
205	<i>Rhagoletis cerasi</i> L; (= <i>Musca cerasi</i> = <i>Rhagoletis cerasi fasciata</i> = <i>R. cerasi nigripes</i> = <i>R. cerasi obsoleta</i> = <i>R. obsoleta</i> = <i>Spilographa cerasi</i> = <i>Tephritis cerasi</i> = <i>Trypeta signata</i> = <i>Urophora cerasorum</i> = <i>Urophora liturata</i> = <i>Zonosema cerasi</i>);	II	<i>Prunus cerasus</i> (ceri, cherry), <i>Prunus avium</i> (sweet cherry), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus serotina</i> (black cherry) <i>Malus domestica</i> (apel, apple), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus persica</i> (persik, peach), <i>Pyrus</i>	fruit, growing media, soil	Asia: Georgia, Iran, Kazakhstan, Kyrgyzstan, Tajikistan, Turkey, Turkmenistan, Uzbekistan Europe: Austria, Belgium, Bulgaria, Bosnia and Herzegovina, Croatia, Czech, Denmark, Estonia, France, Germany, Greece, Hungary,

	Diptera: Tephritidae; Europeancherryfruit fly, cherry fruit fly		<i>communis</i> (pir, pear), <i>Prunus domesticum</i> (plum), <i>Lonicera xylosteum</i> (Fly honeysuckle)		Italy, Latvia, Lithuania, Moldova, Montenegro, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Serbia, Slovenia, Ukraine
206	<i>Rhagoletis cingulata</i> Loew.; (= <i>Trypeta</i> (<i>Rhagoletis</i>) <i>cingulata</i> = <i>Trypeta cingulata</i>); Diptera: Tephritidae; cherryfruit fly	II	<i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus serotina</i> (black cherry), <i>Pyrus communis</i> (pir, pear), <i>Prunus domesticum</i> (plum) <i>Malus domesticum</i> (apel, apple), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus persica</i> (persik, peach), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus virginiana</i> (commonchokecherrytree)	fruit, growing media, soil	America: Canada, Mexico, USA Europe: Austria, Croatia, France, Germany, Hungary, Netherlands, Slovenia, Switzerland
207	<i>Rhagoletis fausta</i> Osten Sacken; (= <i>Acidia fausta</i> = <i>Rhagoletis intrudens</i> = <i>Trypeta (Acidia) fausta</i> = <i>T. fausta</i>); Diptera: Tephritidae; black (dark) cherry fruit fly	II	<i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (ceri, cherry) <i>Malus domesticum</i> (apel, apple), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus emarginata</i> (bitter cherry tree), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Prunus domesticum</i> (plum), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus pennsylvanica</i> (pin cherry),	fruit, growing media, soil	America: Canada, USA

			<i>Prunus serotina</i> (black cherry), <i>Prunus virginiana</i> (common chokecherrytree)		
208	<i>Rhagoletis pomonella</i> Walsh.; (= <i>Rhagoletis symphoricarpi</i> = <i>Spilographa pomonella</i> = <i>Trypetapomonella</i> = <i>Zonosema pomonella</i>); Diptera: Tephritidae; apple maggot fly, railroad worm	II	<i>Malus domestica</i> (apel, apple) Amelanchier (serviceberries), Aronia (chockeberry), <i>Cornus florida</i> (Flowering dogwood), Cotoneaster, <i>Cotoneaster apiculatus</i> , <i>Cotoneaster coriaceus</i> , <i>Cotoneaster integerrimus</i> , <i>Crataegus</i> (hawthorns), <i>Crataegus crus-galli</i> (Cockspur hawthorn), <i>Crataegus douglasii</i> (black hawthorn), <i>Crataegus laevigata</i> , <i>Crataegus monogyna</i> (hawthorn), <i>Crataegus suksdorfii</i> , <i>Malus</i> (ornamental species apple), <i>Malus baccata</i> (siberian crab apple), <i>Prunus</i> (stone fruit), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus angustifolia</i> (Mountain cherry tree), <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasifera</i> (myrobalan plum), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus domestica</i> (plam, plum), <i>Prunus persica</i> (persik, peach), <i>Prunus emarginata</i>	fruit, growing media, soil	America: Canada, Mexico, USA.

			(Bitter cherry tree), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus salicina</i> (Japanese plum), <i>Prunus virginiana</i> (common chokecherrytree), <i>Pyracantha coccinea</i> (Scarlet firethorn), <i>Pyrus communis</i> (pir, pear), <i>Pyrus pyrifolia</i> (Oriental pear tree), <i>Rosa</i> (roses), <i>Rosa rugosa</i> (rugosa rose), <i>Rosa virginiana</i> (Virginia rose), <i>Sorbus aucuparia</i> (mountain ash), <i>Sorbus scopulina</i>		
209	<i>Rhynchophorus palmarum</i> L.; Coleoptera: Curculionidae; boring weevil	II	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Saccharumofficinarum</i> (tebu, sugarcane), <i>Phoenix canariensis</i> <i>Artocarpus communis</i> (sukun, breadfruit), <i>Ananas comosus</i> (nenas, pineapple), <i>Annona reticulata</i> , <i>Carica papaya</i> (pepaya, pawpaw, papaya), <i>Citrus</i> spp.(jeruk, orange), <i>Mangifera indica</i> (mangga, mango), <i>Musa</i> spp. (pisang, banana), <i>Persea americana</i> (avokad, avocado), <i>Psidium</i>	stem, leaf	America: Argentina, Barbados, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, Guyana France, Grenada, Guadeloupe, Guatemala, Guyana, Honduras, Martinique, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, USA, Uruguay, Venezuela

			<i>guajava</i> (jambu seed, guava), <i>Theobroma cacao</i> (kakao, cocoa)		
210	<i>Rhynchophorus phoenicis</i> L.; Coleoptera: Curculionidae; boring weevil	II	<i>Phoenix</i> spp, <i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis</i> <i>guineensis</i> (kelapa sawit, oilpalm)	stem, leaf, titik tumbuh	Africa: Angola, Benin, Cameroon, DR Congo, Ivory Coast, Ethiopia, Ghana, Kenya, Mozambique, Nigeria, Senegal, Sierra Leone, Somalia, South Africa, Tanzania, Uganda
211	<i>Sacadodes pyralis</i> Dyar.; Lepidoptera: Noctuidae; Colombian pink bollworm, pink cotton boll worm, Thurberia bollworm, Trinidad bollworm, South American red bollworm, sugarcane stalk borer, South American bollworm	II	<i>Gossypium barbadens</i> (kapas, cotton) <i>Abelmoschus esculentus</i> (okra, lady's finger), <i>Cienfuegosia affinis</i> , <i>Hibiscus</i> <i>sabdariffa</i>	fruit, stem, leaf, flower, soil	America: Colombia, Costa Rica, El Salvador, Guyana, Nicaragua, Panama, Paraguay, Trinidad and Tobago, Venezuela
212	<i>Saccharosydne</i> <i>saccharivora</i> Westwood; (= <i>Delphax saccharivora</i> = <i>Stenocranus</i> <i>saccharivorus</i>); Hemiptera: Delphacidae; West indian cane fly, West Indian sugarcane leaveshopper	II	<i>Saccharum officinarum</i> (tebu, sugarcane)	stem, leaf, flower	America: Antigua and Barbuda, Bahama, Barbados, Caribbean Island, Cuba, Dominica, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Jamaica, Martinique, Puerto Rico, St. Lucia, St. Vincent & Grenadines, Trinidad and Tobago, USA, Venezuela
213	<i>Sahlbergella singularis</i> Hagl.; (= <i>Sahlbergella</i> <i>theobroma</i>); Heteroptera:	II	<i>Theobroma cacao</i> (kakao, cocoa), <i>Cola nitida</i> (bitter cola) <i>Bombax buonopozense</i> (silk-	stem, leaf, fruit	Africa: Angola, Benin, Cameroon, Central Africa, DR Congo, Congo, Ivory Coast,

	Miridae; mirids, brown capsid, cocoa capsid, cocoa capsidstem sapper		cotton tree), <i>Ceiba pentandra</i> (kapuk randu, kapok), <i>Cola</i> spp., <i>Gossypium barbadense</i> (kapas, cotton), <i>Theobroma</i> spp., <i>Theobroma bicolor</i> (nicaraguan cocoa), <i>Theobroma grandiflorum</i> (cupuassu)		Equatorial Guinea, Ghana, Madagascar, Nigeria, Sao Tome & Principe, Sierra Leone, Togo, Uganda
214	<i>Scolytus rugulosus</i> Muller; (= <i>Eccoptogaster mediterraneus</i> = <i>E. rugulosus</i> = <i>Scolytus mediterraneus</i> = <i>Ruguloscolytus mediterraneus</i> = <i>R. rugulosus</i>); Coleoptera: Scolytidae; shoot hole borer, apple tree beetle, fruit tree bark beetle, shot-hole borer	II	<i>Malus domestica</i> (apel, apple), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus persica</i> (persik, peach), <i>Pyrus communis</i> (pir, pear), <i>Prunus domestica</i> (plam, plum), other stone fruit (buah batu lainnya)	stem, leaf, fruit	Africa: Algeria, Egypt, Libya, Morocco, Tunisia America: Argentina, Brazil, Canada, Chile, Peru, USA, Uruguay Asia: Afghanistan, Georgia, Iran, Iraq, Israel, Lebanon, Pakistan, Saudi Arabia, Syria, Turkey, Turkmenistan Europe: Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Malta, Moldova, Montenegro, Macedonia, Netherlands, Norway, Poland, Portugal, Russia, Serbia, Slovenia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK

215	<p><i>Sesamia calamistis</i> Hamps.; (= <i>Sesamia mediastriga</i>, <i>Sesamia vuteria</i>); Lepidoptera: Noctuidae; African pink stem borer, African pink borer of sugarcane, Mauritius pink borer of sugarcane, pink stalk borer of sugarcane, southern pink borer of sugarcane</p>	II	<p><i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Pennisetum glaucum</i> (pearl millet), <i>Triticum aestivum</i> (gandum, wheat), <i>Oryza sativa</i> (padi, paddy), <i>Saccharum officinarum</i> (tebu, sugarcane), cerealia. <i>Carex</i> (sedges), <i>Cyperus papyrus</i>, Poaceae (grasses)</p>	stem, leaf	<p>Africa: Angola, Benin, Burkina Faso, Burundi, Cameroon, Comoros, DR Congo, Congo, Ivory Coast, Eritrea, Ethiopia, Gambia, Ghana, Kenya, Madagascar, Malawi, Mali, Mauritius, Mozambique, Niger, Nigeria, Rwanda, Reunion, Senegal, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe</p>
216	<p><i>Sesamia cretica</i> Lederer; (= <i>Sesamia cretica rufescens</i> = <i>S. cyrmaea</i> = <i>S. griselda</i> = <i>S. pecki</i> = <i>S. uniformis</i> = <i>S. vuteria vuterioides</i>); Lepidoptera: Noctuidae; corn stem borer, greater sugarcane borer, <i>Sorghum bicolor</i> (sorghum, sorghum) stem borer, stem corn borer, durra stem borer, corn pink borer, large corn borer, pink sugarcane borer, sugarcane pink borer, sorghum borer</p>	II	<p><i>Oryza sativa</i> (padi, paddy), <i>Pennisetum glaucum</i> (pearl millet), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn) <i>Panicum miliaceum</i> (millet), Poaceae (grasses)</p>	stem, leaf	<p>Africa: Algeria, Cameroon, Chad, Egypt, Eritrea, Ethiopia, Kenya, Lesotho, Libya, Mali, Morocco, Niger, Nigeria, Somalia, Sudan, Togo, Tunisia Asia: China, India, Iran, Iraq, Israel, Jordan, Kyrgyzstan, Lebanon, Pakistan, Saudi Arabia, Sri Lanka, Syria, Tajikistan, Thailand, Turkey, Uzbekistan, Yemen Europe: Albania, Bulgaria, Bosnia and Herzegovina, Croatia, France, Greece, Italy, Macedonia, Montenegro, Portugal, Russia, Slovenia, Spain, Serbia</p>

217	<i>Sirex noctilio</i> Fabricius; Hymenoptera: Siricidae; woodwasp, steel blue, horntail, european woodwasp, sirex wasp, wood wasp, steel-blue	II	<i>Pinus banksiana</i> (jack pine), <i>Pinus canariensis</i> (Canary pine), <i>Pinus contorta</i> (lodgepole pine), <i>Pinus densiflora</i> (Japanese umbrella pine), <i>Pinus echinata</i> (shortleaves pine), <i>Pinus elliottii</i> (slash pine), <i>Pinus halepensis</i> (Aleppo pine), <i>Pinus jeffreyi</i> (Jeffrey pine), <i>Pinus nigra</i> (black pine), <i>Pinus palustris</i> (longleaves pine), <i>Pinus patula</i> (Mexican weeping pine), <i>Pinuspinaster</i> (maritime pine), <i>Pinuspineae</i> (stone pine), <i>Pinus ponderosa</i> (ponderosa pine), <i>Pinus radiata</i> (radiata pine), <i>Pinus taeda</i> (loblolly pine), <i>Abies</i> (firs), <i>Abies alba</i> (silver fir), <i>Larix</i> (larches), <i>Picea</i> (spruces), <i>Picea abies</i> (common spruce), <i>Pinus sylvestris</i> (Scots pine), <i>Pseudotsuga</i> (douglas-fir)	stem, wood	Africa: South Africa America: Canada, USA, Argentina, Brazil, Chile, Uruguay Asia: Georgia (Republic), Mongolia Europe: Austria, Belgium, Canary Islands, Cyprus, Czech Republic and Slovakia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Norway, Poland, Portugal, Romania, Russia, Siberia, Serbia and Montenegro, Serbia, Spain, UK Oceania: Australia, New Zealand
218	<i>Sitophilus granarius</i> L.; (= <i>Calandra granaria</i> = <i>Calendra granaria</i> = <i>Curculio granarius</i>); Coleoptera: Dryophthoridae; grain weevil, maize weevil,	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli, barley), stored products (dried stored products) <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Avena sativa</i> (oat, oats), <i>Cicer</i>	Seed	Africa: Algeria, Cameroon, Egypt, Morocco, South Africa, Swaziland America: Argentina, Canada, Chile, Mexico, USA Asia: Afghanistan, India, Iran, Iraq, Israel, Japan,

	granary weevil		<i>arietinum</i> (chickpea), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Oryza sativa</i> (padi, paddy), <i>Panicum</i> spp. (milets), <i>Pennisetum</i> spp. (feather grass), <i>Secale cereale</i> (rye), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Triticale</i> spp., <i>Vicia faba</i> (faba or broad bean), <i>Zea mays</i> (jagung, corn)		Kazakhstan, Malaysia, Saudi Arabia, Sri Lanka, Syria, Thailand, Turkey, Yemen Europe: Austria, Belgium, Bosnia and Herzegovina, Croatia,Czech, Denmark, France, Germany, Greece, Hungary, Ireland, Italy, Poland, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Ukraine, UK Oceania: Australia
219	<i>Sophronica ventralis</i> Auriv.; Coleoptera: Scolytidae; berry borer	II	<i>Coffea</i> spp. (kopi, coffee)	stem, leaf, seed, fruit	Africa America: Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana
220	<i>Stenomoma decora</i> Zeller;(= <i>Cryptolechia decora</i> Zeller); Lepidoptera: Oecophoridae; cacao fruit and shoot borer, buds and pod borer	II	<i>Theobroma cacao</i> (kakao, cocoa) <i>Ceiba pentandra</i> (kapuk randu, kapok)	leaf, fruit	America: Brazil
221	<i>Stromatium barbatum</i> Fabricius;Coleoptera: Cerambycidae; Drywood longicorn beetle	II	Citrus, Eucalyptus, Oak, pines	stem, wood	Africa: Tanzania, Madagascar, Mauritius Asia: India, Sri Lanka, Burma, Pakistan, Nepal
222	<i>Tagosodes cubanus</i> D.L.Crawford; (= <i>Chloriona</i>	II	<i>Vigna</i> spp. (buncis, cowpea), <i>Glycine max</i> (kedelai, soyabean), <i>Oryza sativa</i> (padi,	stem, leaf,	Africa: Ivory Coast America: Colombia, Cuba, Guyana, Mexico, Puerto Rico,

	<i>cubana</i> = <i>Dicranotropis cubanus</i> = <i>Sogatella cubana</i> = <i>Sogatodes cubanus</i> = <i>Sogata cubana</i>); Hemiptera: Delphacidae; paddy plant hopper		paddy) <i>Vigna radiata</i> (kacang hijau, mungbean), <i>Cicer aeritinum</i> , <i>Lens esculenta</i> (lentils)		Suriname, Trinidad and Tobago, USA, Venezuela
223	<i>Tagosodes orizicolus</i> Muir.; (= <i>Chloriona orizicola</i> = <i>Sogata brazilensis</i> = <i>Sogata orizicola</i> = <i>Tagosodes brazilensis</i> = <i>Sogatodes brazilensis</i> = <i>S. orizicolus</i> = <i>S. oryzicola</i> = <i>S. orizicola</i> = <i>S. orizicolus</i>); Hemiptera: Delphacidae; rice delphacid, rice leaveshopper	II	<i>Oryza sativa</i> (padi, paddy)	stem, leaf	America: Argentina, Belize, Brazil, Colombia, Costa Rica, Cuba, Dominica, El Salvador, Guatemala, Guyana, Mexico, Nicaragua, Panama, Peru, Puerto Rico, Suriname, Trinidad and Tobago, USA, Venezuela
224	<i>Toxotrypana curvicauda</i> Gerstaecker; (= <i>Mikimyia furcifera</i> = <i>Toxotrypana fairbatesi</i>); Diptera: Tephritidae, papaya fruit fly	II	<i>Carica papaya</i> (papaya, pawpaw, papaya)	fruit, growing media, soil	America: Bahama, Belize, Colombia, Costa Rica, Cuba, Dominican Republic, El Salvador, Guatemala, Haiti, Honduras, Mexico, Netherlands Antilles, Nicaragua, Panama, Puerto Rico, St. Kitts & Nevis, Trinidad and Tobago, USA, Virgin Islands, Venezuela.
225	<i>Trichispa sericea</i> Guerin-Meneville; Coleoptera: Chrysomelidae; rice hispids	II	<i>Oryza sativa</i> (padi, paddy)	stem, leaf	Africa: Angola, Burkina Faso, Burundi, Cameroon, Congo, Ethiopia, Kenya, Madagascar, Mali, Nigeria, Rwanda, Senegal, South Africa, Sudan, Swaziland, Tanzania, Togo,

					Uganda Europe: Spain
226	<i>Trogoderma granarium</i> Everts; (= <i>Trogoderma affrum</i> = <i>Trogoderma khapra</i>); Coleoptera: Dermestidae; kumbang kaphra/khapra beetle	II	<i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Gossypium hirsutum</i> (kapas, cotton), <i>Hordeum vulgare</i> (barley), <i>Oryza sativa</i> (padi, paddy), <i>Panicum miliaceum</i> (millet), <i>Sesamum indicum</i> (wijen, sesame), <i>Sorghum bicolor</i> (sorgum, sorghum), stored products (dried stored products), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn) dan serealia lainnya <i>Cicer arietinum</i> (chickpea), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Pennisetum glaucum</i> (pearl millet), <i>Vicia faba</i> (faba bean), <i>Vigna unguiculata</i> (cowpea)	seed, karung goni/alat pembungkus bekas komoditi, makanan ternak	Africa: Algeria, Burkina Faso, Egypt, Libya, Mali, Mauritania, Morocco, Niger, Nigeria, Senegal, Somalia, Sudan, Tunisia, Zambia, Zanzibar, Zimbabwe. Asia: Afghanistan, Bangladesh, India, Iran, Iraq, Israel, Republic of Korea (South Korea), Lebanon, Myanmar, Pakistan, Saudi Arabia, Sri Lanka, Syria, Taiwan, Turkey, Yemen. Europe: Cyprus, Spain, Switzerland, Ukraine, Kazakhstan, Belarus, Uzbekistan, Azerbaijan, Lithuania, Turkmenistan, Latvia, Estonia, Georgia, Armenia, Tajikistan, Kyrgyzstan, Moldova
227	<i>Tryphocaria mastersi</i> Pascoe; Coleoptera: Cerambycidae ; Eucalypt ring barber	II	<i>Acacia</i> spp.	stem, wood, kulit kayu	Oceania: Australia
228	<i>Undulambia polystichalis</i> ; Lepidoptera: Crambidae;Leatherleaves	II	Leather Leaves Fern, <i>Rumohra adiantiformis</i> , <i>Polypodium scoloueri</i> , <i>Pyrrosia eleagnifolia</i>	rimpang	America: USA

	fern borer moth				
229	<i>Xestobium rufovillosum</i> De Geer; Coleoptera: Anobiidae; deathwatch beetle	II	<i>Quercus</i> (oak), <i>Castanea</i> (chestnut), other hardwood	stem, wood	America: North America Europe: England, France, whole Europe Oceania: Australia
230	<i>Xyleborus affinis</i> Eichhoff; (= <i>Xyleborus mascarensis</i> Eichhoff = <i>Xyleborus sacchari</i> Hopkins); Coleoptera: Scolytidae; shot-hole borer of sugarcane, ambrosia beetle of oak	II	<i>Saccharum officinarum</i> (tebu, sugarcane) <i>Juglans nigra</i> (black walnut), <i>Macadamia integrifolia</i> (macadamia nut), <i>Pinus</i> (pines)	stem, wood, kulit kayu	America: Brazil, Cuba, USA, Mexico, Jamaica Europe: Italy
231	<i>Xyleborus ferrugineus</i> Fab.; (= <i>Xyleborus confusus</i> = <i>X. fuscatus</i>); Coleoptera: Scolytidae; black twig borer, bark beetle	II	<i>Dioscorea</i> spp. (gembili, yam), <i>Euterpe edulis</i> (assai palm), <i>Persea americana</i> (avokad, avocado), <i>Pinus elliottii</i> (slash pine), <i>Pinus taeda</i> (loblolly pine)	stem, wood, kulit kayu	Africa: Angola, Benin, Botswana, Burundi, Cameroon, Cape Verde, DR Congo, Ivory Coast, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Mali, Mozambique, Namibia, Nigeria, Rwanda, Reunion, Sao Tome & Principe, Senegal, Sierra Leon, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe. America: Argentina, Barbados, Belize, Bolivia, Brazil, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, French Guiana, Grenada, Guadeloupe,

					Guatemala, Guyana, Jamaica, Mexico, Nicaragua, Panama, Puerto Rico, St. Vincent and the Grenadines, Paraguay, Peru, Uruguay, Suriname, Trinidad and Tobago, USA, Venezuela. Asia: Republic of Korea (South Korea), Malaysia Oceania: American Samoa, Fiji, France Polynesian, Kiribati, Micronesia, Northern Mariana Island, Papua New Guinea, Samoa, Solomon Islands
232	<i>Xyloborinus saxesenii</i> Batzeburg; Coleoptera: Scolytidae; Fruit tree pinhole borer	II	<i>Eucalyptus</i> spp.	bibit plant, stem, wood, kulit kayu	Asia: China, India, Armenia, Azerbaijan Europe: all
233	<i>Zonocerus elegans</i> (Thunb.); (= <i>Acrydium sanguinolentum</i> = <i>Gryllus elegans</i> = <i>Poekilocerus roseipennis</i>); Orthoptera: Pyrgomorphidae; elegants grasshopper	II	<i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium cepa</i> (bawang bombay, onion), <i>Amaranthus hybridus</i> (bayam, spinach), <i>Amaranthus</i> (grain amaranth), <i>Ananas comosus</i> (nenas, pineapple), <i>Anacardium occidentale</i> (jambu mete, cashew-nut), Brassicaceae (cruciferous crops), <i>Citrus</i> spp. (jeruk, orange), <i>Citrus aurantiifolia</i> (jeruk nipis,	seluruh bagian plant, soil	Africa: Angola, Botswana, DR Congo, Congo, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe

			lime), <i>Citrus limon</i> (lemon, lemon), <i>Citrus reticulata</i> (mandarin, mandarin), <i>Citrus sinensis</i> (navel orange), <i>Coffea</i> spp. (kopi, coffee), <i>Colocasia esculenta</i> (talas, taro), Cucurbitaceae (cucurbits), <i>Chromolaenaodorata</i> (siam weed), <i>Daucus carota</i> (wortel, carrot), <i>Dioscorea</i> sp. (gembili, yam), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Musa</i> spp. (pisang, banana), <i>Plumeria</i> spp. (frangipani), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Nicotiana tabacum</i> (tembakau, tobacco), Solanaceae, <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Persea americana</i> (avokad, avocado)		
234	<i>Zonocerus variegatus</i> L.; (= <i>Acrydium sanguinolentum</i> = <i>Gryllus (Locusta) variegatus</i> = <i>G. laevis</i> = <i>G. opacus</i>); Orthoptera: Acrididae; variegated grasshopper	II	<i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium cepa</i> (bawang bombay, onion), <i>Amaranthus</i> (grain amaranth), <i>Amaranthus hybridus</i> (bayam, spinach), <i>Ananas comosus</i> (nenas, pineapple), <i>Anacardium occidentale</i> (jambu mete, cashewnut), Brassicaceae (cruciferous crops), <i>Capsicum</i>	seluruh bagian plant, soil	Africa: Angola, Benin, Burkina Faso, Cameroon, Central Africa, Chad, DR Congo, Congo, Ivory Coast, Gabon, Gambia, Ghana, Guinea-Bissau, Guinea, Kenya, Liberia, Malawi, Mali, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Togo

			<p><i>annuum</i> (cabai, hot pepper, chilies, red pepper), <i>Citrus</i> spp.(jeruk, orange), <i>Citrus aurantiifolia</i> (jeruk nipis, lime), <i>Citrus limon</i> (lemon, lemon), <i>Citrus reticulata</i> (mandarin, mandarin), <i>Citrus sinensis</i> (navel orange), <i>Coffea</i> spp. (kopi, coffee), <i>Colocasia esculenta</i> (talas, taro), Cucurbitaceae (cucurbits), <i>Chromolaenaodorata</i>(siam weed), <i>Daucus carota</i> (wortel, carrot), <i>Dioscorea</i> sp. (gembili, yam), <i>Gossypium barbadens</i> (kapas, cotton), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Musa</i> spp. (pisang, banana), <i>Manihot esculenta</i> (ubi wood, cassava), Poaceae, Solanaceae, <i>Nicotiana tabacum</i> (tembakau, tobacco), Piper, Plumeria (frangipani) <i>Cannabis sativa</i> (hemp), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (avokad, avocado), <i>Tectona grandis</i> (jati, teakwood)</p>		
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235	<i>Zygogramma exclamationis</i> Fab.; (= <i>Calligrapha exclamationis</i> = <i>Zygosyca exclamationis</i> = <i>Chrysomela exclamationis</i>); Coleoptera: Chrysomelidae; sunflower beetle	II	<i>Helianthus annuus</i> (bunga matahari, sunflower)	stem, leaf, soil, flower	America: Canada, USA
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II. TUNGAU (MITES)

No	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ SCIENTIFIC NAME/ SYNONYM/ TAXON/ COMMON NAME	GOLONGAN/ GROUP	INANG / HOSTS	MEDIA PEMBAWA/ PATHWAYS	DAERAH SEBAR / GEOGRAPHICAL DISTRIBUTION
1.	<i>Aceria cajani</i> Channabasavanna; Prostigmata: Eriophyidae; pigeonpea mite	II	<i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Cajanus cajanifolius</i> , <i>Cajanus platycarpus</i> , <i>Cajanus scarabaeoides</i> (kacang gude, peanut grass), <i>Cajanus sericeus</i>	shoot	Asia: Bangladesh, China, India, Myanmar, Nepal, Thailand
2.	<i>Aceria ficus</i> Cotte; (= <i>Aceria fici</i> = <i>Eriophyes fici</i> = <i>E. ficus</i>); Prostigmata: Eriophyidae; fig blister mite, fig mite, fig rust mite	II	<i>Ficus carica</i> (ara, fig)	shoot	Asia: Japan, India Africa: all America: North America Eropa: all
3.	<i>Aculops lycopersici</i> Tryon.; (= <i>Aculops destructor</i> = <i>Aculus destructor</i> = <i>A. lycopersici</i> = <i>Phyllocoptes</i>	II	<i>Solanum lycopersicum</i> (tomat, tomato), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Nicotiana tabacum</i> (tembakau, tobacco),	shoot	Africa: Angola, Egypt, Ethiopia, Kenya, Libya, Mauritius, Morocco,, Mozambique, Senegal, South

	<i>destructor</i> = <i>P.lycopersici</i> = <i>Vasates destructor</i> = <i>V.lycopersici</i>); Prostigmata: Eriophyidae; tomato russet mite, tomato mite		<i>Solanum melongena</i> (terung, eggplant), <i>Solanum tuberosum</i> (kentang, potato) <i>Capsicum annum</i> (cabai besar, paprika, bell-pepper), <i>Browallia americana</i> , <i>Convolvulus</i> , <i>Datura</i> spp., <i>Petunia hybrida</i> , <i>Physalis</i> <i>peruviana</i> , <i>Solanum</i> spp., <i>Convolvulus arvensis</i> , <i>Physalis minima</i>		Africa, Tunisia, Zambia, Zimbabwe America: Antigua and Barbuda, Argentina, Bermuda, Brazil, Canada, Cuba, Curaçao, Guyana France, Grenada, Guadeloupe, Martinique, Mexico, Montserrat, Netherlands Antilles, Trinidad and Tobago, USA, Uruguay, Venezuela Asia: Armenia, Azerbaijan, China, Iran, Iraq, Israel, Jordan, Republic of Korea, Lebanon, Saudi Arabia, Sri Lanka, Syria, Turkey, Uzbekistan Europe: Bulgaria, Croatia, Cyprus, France, Georgia, Greece, Italy, Malta, Moldova, Netherlands, Portugal, Russia, Spain, Swedia, Ukraina, UK Oceania: Australia, Fiji, New Caledonia, New Zealand, Vanuatu
4.	<i>Aculops pelekassi</i> Keifer; (= <i>Aculus pelekassi</i>); Prostigmata: Eriophyidae; pink citrus rust mite	II	<i>Citrus</i> spp. (jeruk, orange)	shoot	America: USA, Brazil Asia: Republic of Korea (South Korea), Taiwan, Thailand Europe: Italy, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia

5.	<p><i>Aculus schlechtendali</i> Nalepa; (= <i>Aculus malivagrans</i> = <i>Phyllocoptes schlechtendali</i> = <i>Vasates malivagrans</i> = <i>Vasates schlechten-dali</i>); Prostigmata: Eriophyidae; apple rust mite, apple bud mite, apple leaf mite, rusty leaf mite</p>	II	<p><i>Malus domestica</i> (apel, apple) <i>Pyrus communis</i> (pir, pear), <i>Malus sylvestris</i> (crab-apple tree)</p>	shoot	<p>Africa: Egypt, South Africa America: Canada, USA, Chile Asia: China, India, Japan, Lebanon, Pakistan, Turkey Europe: Austria, Belgium, Bulgaria, Denmark, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Hungary, Italy, Netherlands, Norway, Poland, Portugal, Russia, Sweden, Switzerland, Ukraine, UK Oceania: New Zealand, Australia</p>
6.	<p><i>Brevipalpus californicus</i> Bank.; (= <i>Brevipalpus australis</i> = <i>B. browningi</i> = <i>B. confusus</i> = <i>B. woglumi</i> = <i>Hystripalpus californicus</i> = <i>Tenuipalpus australis</i> = <i>T. californicus</i> = <i>T. vitis</i>); Prostigmata: Tenuipalpidae; citrus flat mite, red flat mite, scarlet mite of tea, bunch mite</p>	II	<p><i>Camellia sinensis</i> (teh, tea), <i>Citrus</i> spp. <i>Abelmoschus esculentus</i> (okra, lady's finger), <i>Citharexylum quadrangulare</i>, <i>Cymbidium</i>, <i>Cucurbita</i>, <i>Dendrobium</i>, <i>Ipomoea batatas</i> (ubi jalar, sweetpotato), <i>Musa</i> spp. (pisang, banana), <i>Vigna sinensis</i> (buncis, common bean), <i>Phalaenopsis</i>, <i>Psidium guajava</i> (jambu seed, guava), <i>Pittosporum</i>, <i>Rhododendron</i>, <i>Robinia</i>, <i>Schinus terebinthifolius</i>, <i>Sesbania sesban</i>, <i>Tetragonia</i></p>	shoot	<p>Africa: Algeria, Angola, Congo, Egypt, Libya, Mauritania, Mozambique, Senegal, South Africa, Zimbabwe America: Brazil, Costa Rica, Cuba, Guyana France, Guyana, Honduras, Mexico, USA Asia: Georgia, India, Israel, Japan, Malaysia, Mauritania, Nepal, Philippines, Sri Lanka, Tajikistan, Thailand Europe: Cyprus, Greece, Hungary, Italy, Portugal, Russia Oceania: Australia, Guam,</p>

			<i>tetragonioides</i> , <i>Vitis vinifera</i> (anggur, grapevine), <i>Chenopodium ambrosioides</i> , <i>Cinnamomum burmanii</i> (kayu manis, cassiavera), <i>Lablab purpureus</i> , <i>Solanum</i> spp.		New Zealand, Papua New Guinea
7.	<i>Bryobia rubrioculus</i> Scheuten; (= <i>Bryobia arborea</i> , <i>B. redikorzevi</i>); Prostigmata: Tetranychidae; brown apple mite, brown mite; brown, bryobia mite, pear bryobia mites	II	<i>Malus domestica</i> (apel, apple), <i>Prunus avium</i> , <i>Prunus domestica</i> , <i>Prunus dulcis</i> , <i>Prunus persica</i> (persik, peach), <i>Prunus</i> spp., <i>Pyrus communis</i> (pir, pear), <i>Pyrus javonica</i> (Japonica), <i>Ulmus</i> sp. (elm) <i>Arachis hypogaea</i> (kacang tanah, groundnut, peanut), <i>Gossypium barbadens</i> (kapas, cotton), <i>Prunus salicina</i>	shoot	Africa: Mozambique, South Africa, Zimbabwe America: Argentina, Brazil, Canada, Chile, Mexico, USA, Uruguay Asia: Afghanistan, Azerbaijan, China, Georgia, India, Iran, Iraq, Japan, Kazakhstan, Kyrgyzstan, Lebanon, Turkey, Uzbekistan Europe: Austria, Belgium, Bulgaria, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Spain, Switzerland, Ukraine, UK Oceania: Australia, New Zealand.
8.	<i>Eotetranychus willamettei</i> McGregor; (= <i>Tetranychus willamettei</i> = <i>Tetranychus willametti</i>); Prostigmata: Tetranychidae; willamette mite	II	<i>Vitis vinifera</i> (anggur, grapevine), <i>Acer negundo</i> , <i>Quercus garryana</i> , <i>Quercus lobata</i> , <i>Eriogonum jamesi</i> , <i>Amelanchier</i> sp.,	shoot	America: USA

			<i>Malus domestica</i> (apel, apple), <i>Purshiatridentata</i> , <i>Pyrus communis</i> (pir, pear), <i>Sorbus domestica</i> , <i>Ulmus</i> sp. (elm)		
9.	<i>Mononychellus tanajoa</i> Bondar: (= <i>Mononychellus caribbeanae</i> = <i>Mononychus tanajoa</i> = <i>Eotetranychus caribbeanae</i> = <i>E. caribbeanus</i> = <i>Tetranychus tanajoa</i>); Prostigmata: Tetranychidae; cassava mite, cassava green mite	II	<i>Solanum lycopersicum</i> (tomat, tomato), <i>Manihot esculenta</i> (ubi wood, cassava) <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Vigna sinensis</i> (kacang panjang, cowpea), <i>Zea mays</i> (jagung, corn, maize)	shoot	Africa: Benin, Burkina Faso, Burundi, Cameroon, Central Africa, Chad, Congo, Ivory Coast, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Malawi, Mali, Mozambique, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe America: Antigua and Barbuda, Argentina, Bolivia, Brazil, Chile, Colombia, Dominica, Ekuador, Falklands, Guyana France, Guyana, Mexico, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, USA, Uruguay, Venezuela Asia: China Oceania: Australia, Micronesia, Northern Mariana Islands

10.	<i>Oligonychus peruvianus</i> McGregor: (= <i>Homonychus peruvianus</i> = <i>Paratetranychus peruvianus</i> = <i>Paratetranychus trinitatis</i> = <i>Tetranychus peruvianus</i> (Mc Gregor) = <i>Tetranychus peruvensis</i> = <i>Tetranychus trinitatis</i>); Prostigmata: Tetranychidae; cassava white spot spider mite	II	<i>Manihot esculenta</i> (ubi wood, cassava) <i>Ceratonia siliqua</i> , <i>Citrus aurantium</i> , <i>Coffea arabica</i> (kopi, coffee), <i>Daucus carota</i> (wortel, carrot), <i>Gossypium</i> , <i>Persea americana</i> (avokad, avocado), <i>Trifolium repens</i> , <i>Vitis</i> , <i>Oxalis</i> sp.	shoot	America: Brazil, Colombia, Ecuador, Guatemala, Mexico, Peru, Trinidad and Tobago, Venezuela
11.	<i>Oligonychus yothersi</i> McGregor; Prostigmata: Tetranychidae; avocado red mite	II	<i>Coffea</i> spp. (kopi, coffee), <i>Mangifera indica</i> (mangga, mango), <i>Persea americana</i> (Avokad, avocado)	plant and shoot	America: Chile, Costa Rica, Cuba, USA Asia: Iran
12.	<i>Panonychus ulmi</i> Koch; (= <i>Paratetranychus ulmi</i> Koch = <i>Metatetranychus ulmi</i> Koch = <i>Tetranychus pilosus</i> Canestrini et Fanzago = <i>Tetranychus mytilaspidis</i> Ewing); Prostigmata: Tetranychidae; european red spider mite	II	<i>Malus domestica</i> (apel, apple), <i>Pyrus communis</i> (pir, pear), <i>Prunus persica</i> (persik, peach), <i>Prunus domesticum</i> (plum), <i>Prunus cerasus</i> (sour ceri). <i>Arachis hypogaea</i> (kacang tanah, groundnut), <i>Cedrus</i> (cedars), <i>Citrus</i> , <i>Citrus deliciosa</i> (jeruk mediterranean mandarin), <i>Citrus reticulata</i> (jeruk mandarin), <i>Coffea</i> (kopi, coffee), <i>Corylus</i> , <i>Gossypium</i> (kapas, cotton), <i>Morus alba</i> (murbei, mulberry), <i>Prunus avium</i>	leaf, part of plant	Africa: Algeria, Egypt, Libya, Morocco, South Africa, Tunisia, America: Argentina, Bermuda, Brazil, Canada, Chile, Costa Rica, USA, Uruguay, Venezuela Asia: Afghanistan, Armenia, Azerbaijan, China, Georgia (Republic), India, Iran, Israel, Japan, Republic of Korea (South Korea), Kyrgyzstan, Lebanon, Syria, Turkey, Tajikistan, Uzbekistan. Europe: Albania, Austria, Belarus, Belgium, Bulgaria, Czech Republic, Croatia,

			(sweet cherry), <i>Prunus dulcis</i> (almond), <i>Vitis vinifera</i> (anggur, grapevine)		Bosnia and Herzegovina, Hungary, Ireland, Italy, Latvia, Lithuania, Denmark, Finland, Montenegro, Macedonia, France, Germany, Greece, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Switzerland, Ukraina, UK. Oceania: Australia, New Zealand
13.	<i>Penthaleus major</i> Duges; (= <i>Tetranychus major</i> Dugès); Prostigmata: Tetranychidae; blue oat mite, winter grain mite	II	<i>Avena sativa</i> (oats), <i>Hordeum vulgare</i> (barli, barley), <i>Triticum aestivum</i> (gandum, wheat), <i>Bouteloua gracilis</i> (blue grama), <i>Bromus secalinus</i> (Rye brome), Lathyrus, <i>Lolium</i> , <i>Lolium multiflorum</i> (italian ryegrass), <i>Poaceae</i> (grassess), <i>Secale cereale</i> (rye).	seed, leaf, bagian plant, soil	Africa: South Africa. America: Argentina, Canada, Mexico, USA Asia: China, Japan Europe: France, Germany, Iceland, Italy, Netherlands, Norway, Portugal, Russia, Spain, UK. Oceania: Australia, New Zealand
14.	<i>Petrobia latens</i> (Muller); (= <i>Acarus latens</i> = <i>Acarus petarum</i> = <i>Acarus praegnans</i> = <i>Paratetranychus longipes</i> = <i>Petrobia cepae</i> = <i>Petrobia lapidum</i> = <i>Petrobia tritici</i> = <i>Tetranobia decepta</i> = <i>Tetranychia tritici</i> = <i>Tetranychopsis paupera</i> = <i>Tetranychopsis simplex</i>	II	<i>Triticum aestivum</i> (gandum, wheat), (barli, barley), <i>Allium sativum</i> (bawang putih, garlic), <i>Allium cepa</i> (bawang bombay, onion), <i>Cuminum cyminum</i> (jintan, cumin), <i>Coriandrum sativum</i> (ketumbar, corriander), <i>Oryza sativa</i> (padi, paddy), <i>Cucumis sativus</i> (mentimun,	leaf, soil, shoot	Africa: Egypt, South Africa America: Canada, USA Asia: China, India, Republic of Korea (South Korea) Europe: Austria, Denmark, France, Germany, Italy, Netherlands, Poland, Spain, United Kingdom Oceania: Australia

	= <i>Tetranychus anauniensis</i> = <i>Tetranychus longipes</i> = <i>Trombidium</i> <i>lapidum</i>); Prostigmata: Tetranychidae; brown wheat mite		cucumber), <i>Cucumis melo</i> (melon, melon), <i>Daucus carota</i> (wortel, carrot), <i>Sorghumbicolor</i> (sorgum, sorghum), Gladiol, Iris, <i>Malus domestica</i> (apel, apple), <i>Gossypium barbadense</i> (kapas, cotton), <i>Medicago sativa</i> (alfalfa, lucerne) , Clover		
15.	<i>Phyllocoptes vitis</i> Nalepa; (= <i>Phyllocoptes viticolus</i>); Prostigmata: Eriophyidae; grapevine rust mite, acarinoses of vine, vine rust mite	II	<i>Vitis vinifera</i> (anggur, grapevine)	leaf	Africa: South Africa Asia: India. Europe: Austria, Czech Republic, Slovakia, Germany, Hungary, Italy, Portugal, Slovakia, Slovenia, Oceania: Australia, New Zealand
16.	<i>Phytonemus pallidus</i> (Banks) (= <i>Steneotarsonemus</i> <i>fragariae</i> = <i>Steneotarsonemus pallidus</i> = <i>Tarsonemus destructor</i> = <i>Tarsonemus fragariae</i> = <i>Tarsonemus pallidus</i>); Prostigmata: Tarsonemidae; strawberry mite, cyclamen mite	II	<i>Begonia</i> , <i>Begonia cucullata</i> <i>var. hookeri</i> (Perpetual begonia), <i>Capsicum annuum</i> (cabaibesar, paprika, bell pepper), <i>Chrysanthemum</i> (daisy), <i>Chrysanthemum</i> <i>frutescens</i> , <i>Consolida</i> <i>ambigua</i> , <i>Cyclamen persicum</i> (cyclamens), <i>Fragaria</i> (strawberry), <i>Rhododendron</i> <i>simsii</i>	plant, shoot	Africa: South Africa America: Brazil, Canada, Colombia, Costa Rica, Mexico, Peru, USA, Venezuela Asia: Japan, Republic of Korea (South Korea), Philippines, Taiwan, Turkey Europe: Austria, Belgium, Bulgaria, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Russia, Sweden, Switzerland, Ukraine,

					United Kingdom Oceania: Australia
17.	<i>Retracus elaeis</i> Keifer; Prostigmata: Phytoptidae; oil palm mite	II	<i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	leaf, seed	America: Costa Rica, Colombia
18.	<i>Rhizoglyphus echinopus</i> Fumouze & Robin (= <i>Coepophagus echinopus</i> = <i>Rhizoglyphus hyacinthi</i> = <i>Rhizoglyphus spinatarsus</i> = <i>Tyroglyphus echincopus</i>); Astigmata: Acaridae; bulb mite	II	<i>Allium cepa</i> (bawang bombay, onion), <i>Allium sativum</i> (bawang putih, garlic), <i>Panax ginseng</i> (asiatic ginseng)	plant, part of plant	America: USA Asia: Taiwan, Japan, Korea, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan, Uzbekistan Europe: Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Ukraine, Russia, Hungary, Spain Oceania: New Zealand
19.	<i>Steneotarsonemus laticeps</i> (Halbert);(= <i>Tarsonemus approximatus</i> = <i>Tarsonemus approximatus narcissi</i> = <i>Tarsonemus hydrocephalus</i> = <i>Tarsonemus laticeps</i>); Prostigmata: Tarsonemidae; bulb scale mite	II	Narcissus (daffodil), <i>Hippeastrum</i> spp. (amarilis, amaryllis), <i>Cyrtanthus</i> spp. (fire lily), <i>Eucharis</i> spp. (Amazon lily, eucharist lily), <i>Sprekelia</i> spp. (Jacobean lily)	bulb, tuber, corm, shoot	Europe: UK, Netherlands, Poland, Slovakia
20.	<i>Tarsonemus myceliophagus</i> Hussey; Prostigmata: Tarsonemidae	II	Mushroom	Mushroom's stem	America: USA Europe: UK, New Zealand, Netherlands, Germany. Oceania: Australia
21.	<i>Tetranychus pacificus</i> McGregor;Prostigmata:Tetr	II	<i>Vitis vinifera</i> (anggur, grapevine), <i>Prunus</i> ,	plant, shoot	America: Canada, Mexico, USA

	anychidae; Pacific mite, Pacific spider mite		<p><i>Gossypium hirsutum</i>, <i>Gossypium barbadens</i> (kapas, cotton), <i>Cucumis melo</i> (melon, melon), <i>Phaseolus vulgaris</i> (common bean), <i>Glycine max</i> (kedelai, soyabean). <i>Zea mays</i> (jagung, maize, corn), <i>Ficus carica</i> (ara, fig), <i>Medicago sativa</i> (alfalfa, flax), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Salvia</i> sp., Morning glory, <i>Fragaria</i> (strawberry), <i>Rosa</i> (roses), <i>Rubus</i> (blackberry, raspberry), <i>Vicia</i> (vetch), <i>Begonia</i>, <i>Begonia cucullata</i> var. <i>hookeri</i> (Perpetual begonia), <i>Capsicum annuum</i> (cabai besar, paprika, bell pepper), <i>Chrysanthemum</i> (daisy), <i>Chrysanthemum frutescens</i> (marguerite), <i>Consolida ambigua</i> (rocket larkspur), <i>Cyclamen persicum</i> (cyclamens), <i>Rhododendron simsii</i> (Sim's azalea)</p>		
22.	<i>Tetranychus schoenei</i> McGregor; (= <i>Septanychus schoenei</i> McGregor); Prostigmata:	II	<p><i>Malus domestica</i> (apel, apple), <i>Pyrus communis</i> (pir, pear), <i>Prunus domesticum</i> (plum), <i>Vitis vinifera</i> (anggur,</p>	plant, shoot	<p>America: USA Europe: All</p>

	Tetranychidae; schoene mite		grapevine), <i>Gossypium barbadens</i> (kapas, cotton)		
23.	<i>Tyrophagus putrescentiae</i> Schrank(= <i>Acarus putrescentiae</i> = <i>Tyroglyphus americanus</i> = <i>Tyroglyphus castellanii</i> = <i>Tyroglyphus lintneri</i> = <i>Tyroglyphus muscae</i> = <i>Tyroglyphus nadinus</i> = <i>Tyroglyphus putrescentiae</i> = <i>Tyrophagus brauni</i> = <i>Tyrophagus bulleri</i> = <i>Tyrophagus castellanii</i> = <i>Tyrophagus lintneri</i> = <i>Tyrophagus longior</i> var. <i>castellanii</i> = <i>Tyrophagus noxius</i>);Astigmata: Acaridae; cereal mite, cheese mite, copra itch mite, forage mite, mill mite, mold mite, mould mite	II	<i>Cucumis sativus</i> (mentimun, cucumber),	leaf, flower, komoditas simpan, jamur, debu, polen, soil, moss, kotoran dan sarang berbagai hewan	Africa: Angola, Egypt, Kenya, Zimbabwe. America: Barbados, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Guatemala, Peru, Panama, Mexico, USA,Venezuela Asia: Bangladesh, China, India, Iraq, Israel, Japan, Republic of Korea, Kuwait, Malaysia, Nepal, Philippines, Singapore, Taiwan, Turkey Europe: Belgium, CzechRepublic and Slovakia, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Poland, Scandinavia, Slovakia, Spain, Spain, Sweden, Switzerland, United Kingdom, Yugoslavia

III. KEONG (SNAIL) DAN SIPUT (SLUG)

No	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ SCIENTIFIC NAME/ SYNONIM/ TAXON/ COMMON NAME	GOLONGAN / GROUP	INANG / HOSTS	MEDIA PEMBAWA/ PATHWAYS	DAERAH SEBAR / GEOGRAPHICAL DISTRIBUTION
1.	<i>Achatina craven</i> Smith; Achatinidae; Giant African	II	<i>Coffea</i> spp.(kopi, coffee), <i>Sesamum indicum</i> (wijen,	bibit	Africa: Zanzibar, Lake Tanganyika, Mozambique

	snail		sesame), planthias(perdu)		
2.	<i>Achatina zanzibarica</i> Bourg; Giant African snail, Giant land snail	II	<i>Gossypiumbarbadens</i> (kapas, cotton), <i>Agave sisalana</i> (sisal), planthias(perdu)	bibit	Africa: all
3.	<i>Ariolimax columbianus</i> Gould; <i>Pacific banana slug</i>	II	<i>Musaspp.</i> (pisang, banana), garden plant and flowers	leaf, sisa plant, seedling, plant	America: USA, North America
4.	<i>Arion circumscriptus</i> Johnston; (= <i>Arion bourguignati</i>); Arionidae; Brownbanded arion, white soled slug	II	<i>Nicotianatabacum</i> (tembakau, tobacco), <i>Daucuscarota</i> (wortel, carrot), <i>Fragaria vesca</i> (arbei, strawberry), <i>Solanum tuberosum</i> (kentang, potato), Tanamanjagung (plantofcorn), <i>Apiumgraveolens</i> (seledri, celery), <i>Hordeum vulgare</i> (barli, barley), rape, poppy, rye	seedling, bulb, tuber, corm	America: North America, USA Europe: Czech Republic, Great Britain, Ireland, Scandinavia
5.	<i>Arion intermedius</i> Normand; Arionidae; Hedgehog arion, Hedgehog slug	II	<i>Daucuscarota</i> (wortel, carrot), <i>Solanumtuberosum</i> (kentang, potato), <i>Apiumgraveolens</i> (seledri, celery), tulip, <i>Zea mays</i> L (Jagung, corn), <i>Triticum spp.</i> (gandum, wheat), Ornamental plants	seedling, bulb, tuber, corm	America: USA, Canada, Hawaii Asia: Sri Lanka Europe: Western and Central Europe Oceania: New Zealand
6.	<i>Arion rufus</i> L.; (= <i>Limax rufus</i> = <i>Arion ater</i> = <i>Arion empiricorum</i>); Arionidae;	II	<i>Nicotianatabacum</i> (tembakau, tobacco), <i>Solanumtuberosum</i> (kentang,	seed, seedling, plant	America: USA, Canada Europe: Western and Sothern Europe

	Chocolate arion, European red slug		potato), <i>Triticum aestivum</i> (gandum, wheat), medicinalherbs, poppy, rape, <i>Hordeum vulgare</i> (barli, barley), rye, <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Brassica oleracea</i> (kubis, cabbage), <i>Petroselinum crispum</i> (peterseli, parsley)		
7.	<i>Arion subfuscus</i> Drap; (= <i>Limax subfuscus</i> = <i>Arion krynickii</i> = <i>Arion brunneus</i> = <i>Arion esthonicus</i>); Arionidae; Dusky arion	II	<i>Solanum tuberosum</i> (kentang, potato), <i>Daucus carota</i> (wortel, carrot), <i>Apium graveolens</i> (seledri, celery), <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Solanum lycopersicum</i> (tomat, tomato)	seed, bulb, tuber, corm, leaf, stem, flower, fruit	America: USA, Canada Europe: UK (Britain, East Anglia)
8.	<i>Bradybaena fructicum</i> Muller; Bradybaenidae; brush snail, bush snail	II	<i>Vitis vinifera</i> (anggur, grapevine), pod-polongan (legumes), planthias (anggrek, leafy plant/puring), <i>Apium graveolens</i> (seledri, celery)	bibit	Africa: all Asia: all Europe: all
9.	<i>Cecilioides acicula</i> Muller; Ferussaciidae; blind snail, blind awl snail	II	<i>Asparagus officinalis</i> (asparagus, asparagus), <i>Apium graveolens</i> (seledri, celery)	bibit	Africa: South Africa America: Argentina, Bermuda, Barbadaos, Hawaii, USA Europe: Canary Island, Great Britain, Ireland,

					Netherlands, Sweden, Spain, Czech Republic, Poland, Slovakia, Ukraine Oceania: New Zealand, Australia
10.	<i>Derocera sagreste</i> L; (= <i>Limax agrestis</i> = <i>Agriolimax agrestis</i> = <i>Agriolimax fedschenkoi</i> = <i>Agriolimax transcaucasicus coeciger</i>); Agriolimacidae; Field slug, grey field slug, milky slug	II	<i>Fragaria vesca</i> (arbei, strawberry), sayuran (vegetables), <i>Solanum tuberosum</i> (kentang, potato), <i>Daucus carota</i> (wortel, carrot), Brassicaceae, <i>Trifolium</i> sp, <i>Cynara scolymus</i> (Artichoke), <i>Lactuca sativa</i> (selada, lettuce)	seedling, bulb, tuber, corm, root, plant	America: all Asia: all Europe: North Europe, Central Europe (Scandinavia, Russia) Oceania: Australia
11.	<i>Discus rotundatus</i> Muller; (= <i>Helix rotundatus</i>); Discidae; Rotund disc	II	Orchidaceae	plant, part of plant	America: USA, Canada Europe: Southern Scandinavia, Northern Scotland to Algeria, Spain, Ireland, Ukraine, Turkey, Denmark, Norway
12.	<i>Drymaeus dormani</i> Binney; Bulimulidae; Manatee Treesnail	II	<i>Citrus</i> spp. (jeruk, orange)	bibit	America: all
13.	<i>Geomalacus maculosus</i> Allman; Arionidae; Kerry slug, Kerry spotted slug	II	<i>Beta vulgaris</i> var. <i>saccharifera</i> (Bitgula, sugarbeet)	bibit	Europe, Ireland, Spain, Portugal, France
14.	<i>Helix aspersa</i> Muller; (= <i>Cornu aspersum</i> = <i>Cantareus aspersus</i> = <i>Cryptomphalus aspersus</i>); Helicidae; Brown garden snail, common	II	<i>Actinidia chinensis</i> (kiwi, Chinese gooseberry), <i>Beta vulgaris</i> (bit, beetroot), Brassicaceae, Citrus, Capsicum,	seedling, leaf, root, stem, seed, wood, kulit wood, bulb, tuber,	Africa: Algeria, Egypt, Gambia, Lesotho, Lybia, Mauritius, Morocco, Portugal, Reunion, Saint Helena, Seychelles,

	snail, garden snail	<p><i>Fragaria</i> (strawberry), <i>Lactuca sativa</i> (selada, lettuce), <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Persea americana</i> (avokad, avocado), <i>Phaseolus vulgaris</i> (common bean), <i>Pyrus communis</i> (pear), <i>Ribes nigrum</i> (blackcurrant), <i>Zea mays</i> (jagung, corn, maize), <i>Allium cepa</i> (bawang bombai, onion), <i>Brassica oleracea</i> var. capitata (kubis, cabbage), Polyphagous, <i>Prunus armeniaca</i> (aprikot, apricot)</p> <p><i>Alcea</i> sp., <i>Allium</i> spp. (onion, garlic, leek, etc), <i>Alnus</i> sp. (alders), <i>Alyssum</i> sp. (alison), <i>Avena sativa</i> (oat), <i>Calibrachoa</i> sp., <i>Consolida</i> sp., <i>Coriandrum sativum</i> (coriander), <i>Dahlia</i> sp, <i>Delphinium</i> sp. (larkspur), <i>Dianthus</i> sp (carnation), <i>Hedera helix</i> (ivy), <i>Hordeum vulgare</i> (barley), Poaceae, <i>Coriandrum sativum</i> (ketumbar, coriander)</p>	corm, flower, fruit	<p>South Africa, Tunisia, Zimbabwe, Spain</p> <p>America: Argentina, Brazil, Canada, Chile, Ecuador, French Guiana, Haiti, Mexico, Peru, USA Uruguay, Guadeloupe, Martinique, Colombia, Guyana, Venezuela.</p> <p>Asia: China, Israel, Lebanon, Philippines, Saudi Arabia, Syria, Turkey, Thailand, Uzbekistan</p> <p>Europe: Albania, Andorra, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Cyprus, Canary Island, Denmark, Estonia, France, Germany, Greece, Gibraltar, Hungary, Ireland, Italy, Liechtenstein, Luxembourg, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Russian Federation, Romania, Serbia, Slovakia, Spain, Sweden, Switzerland, UK, Ukraine, Yugoslavia</p> <p>Oceania: Fiji, French Polynesia, New Caledonia, Australia, New Zealand,</p>
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			<p><i>Humulus lupulus</i> (hop), <i>Iberis</i> sp. (candytuft), <i>Laburnum anagyroides</i> (common laburnum), <i>Lathyrus odoratus</i> (sweet pea), <i>Lilium</i> sp. (lily), <i>Malus domestica</i> (apple), <i>Medicago lupulina</i> (black medick), <i>Nasturtium</i> (watercress), <i>Opuntia ficus-indica</i> (prickly pear), <i>Penstemon</i> sp., <i>Petunia</i> sp., <i>Pisum sativum</i> (pea), <i>Primula sieboldii</i>, <i>Ranunculus repens</i> (creeping buttercup), <i>Raphanus sativus</i> (radish), <i>Rubus fruticosus</i> (blackberry), <i>Yucca</i> sp., <i>Zinnia</i> sp., <i>Nasturtium officinale</i> (watercress), <i>Rosmarinus officinalis</i> (rosemary), <i>Rosa</i> sp., <i>Thymus vulgaris</i> (thyme), <i>Helianthus annuus</i> (sunflower), <i>Trifolium alexandrinum</i> (egyptian clover), <i>Vitis vinifera</i> (grapevine), strawberry, <i>Citrus</i> spp. (orange), <i>Triticum aestivum</i> (wheat)</p>		<p>Nonfolk Is Heliland, Pitcairn Island, Samoa</p>
15.	<p><i>Helix pomatia</i> L.; Helicidae; Roman snail, edible snail,</p>	II	<p><i>Nicotiana tabacum</i> (tobacco),</p>	bibit	<p>America: Canada Europe: Denmark,</p>

	vineyard snail, burgundy snail		<i>Vitisvinifera</i> (anggur, grapevine), <i>Triticum aestivum</i> (gandum, wheat), dansayuran (vegetables)		Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan, Uzbekistan, Ukraine, Russia, Germany, Italy, Sweden, Switzerland, Austria, Czech Republic, Poland, Slovakia, Hungary, Romania, Bulgaria, Slovenia, Croatia, Bosnia & Herzegovina, Serbia, Republic of Macedonia, Great Britain, Belgium, Netherlands, France, Norway, Finland, Ukraine, Portugal, Greece
16.	<i>Helix rufescens</i> Pennant; Helicidae; reddish snail	II	<i>Fragaria vesca</i> (arbei, strawberry)	bibit	America: all
17.	<i>Lanistes ovum</i> Trosch; (= <i>Lanistes connollyi</i> = <i>Lanistes elator</i> = <i>Lanistes innesi</i> = <i>Lanistes procerus</i>); Ampullariidae; freshwater snail	II	<i>Oryza sativa</i> (padi, paddy)	tanaman	Africa: Botswana, Congo, Chad, Ghana, Cameroon, Gambia, Angola, Namibia, Niger, Nigeria, Tanzania, Mozambique, Zimbabwe, South Africa
18.	<i>Lehmania valentiana</i> Ferussac; Limacidae; terrestrial pulmonate gastropod mollusk	II	Orchidaceae(anggrek, orchid), <i>Solanum tuberosum</i> (kentang, potato), sayuran (vegetables)	seedling, bulb, tuber, corm, root	Africa: South Africa America: USA, Canada, Chile, Peru, Colombia. Asia: China, Japan

					<p>Europe: Andora, Austria, Azores, Balearis Island, Belgium, Britain Island, Canary Island, Corsica, Czech Republic, Danish Mainland, French Mainland, Gibraltar, Hungary, Ireland, Italian Island, Lithuania, Madeira, Malta, Poland, Portuguese, Romania, Russia, Spanish Mainland, Sweden, The Netherland.</p> <p>Oceania: Australia, New Zealand</p>
19.	<p><i>Limax cinereoniger</i> Wolf; (= <i>Limax antiquorum</i>); Limacidae; Ash-grey slug, black keel-slug</p>	II	<p><i>Solanum tuberosum</i> (kentang, potato), <i>Apium graveolens</i> (seledri, celery), <i>Daucus carota</i> (wortel, carrot), plant hias (anggrek, anthurium, leafy plant)</p>	seed, bulb, tuber, corm	<p>Europe: all</p>
20.	<p><i>Limax maximus</i> L; (= <i>Limax maculatus</i> = <i>Limax cellarius</i> = <i>Limax cinereus</i> = <i>Limacella parma</i> = <i>Limax antiquorum</i>); Limacidae; Giant garden slug, Great slug, Tiger slug, Spotted leopard slug</p>	II	<p><i>Solanum tuberosum</i> (kentang, potato), <i>Apium graveolens</i> (seledri, celery), <i>Cucumis sativus</i> (ketimun, cucumber), <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Daucus carota</i> (wortel, carrot), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage),</p>	seed, bulb, tuber, corm	<p>America: USA, Hawaii Europe: Italy, Norway Oceania: New Zealand</p>

			<i>Cucurbitamoschata</i> (labu, pumpkin), planthias (anggrek, anthurium, leafy plant), jamur (mushroom)		
21.	<i>Marisa cornuarietis</i> L.; Ampullariidae; Giant ramshorn snail, apple snail	II	<i>Oryzasativa</i> (padi, paddy).	tanaman.	Africa: all America: USA, Hawaii, Karibia
22.	<i>Milax budapestensis</i> Hazay; Milacidae; budapest slug, keeled slug, subterranean slug	II	<i>Solanumtuberosum</i> (kentang, potato), <i>Daucuscarota</i> (wortel, carrot), sayuran, rootsayuran, <i>Triticum aestivum</i> (gandum, wheat), rape, poppy, rye, <i>Hordeum vulgare</i> (barli, barley), <i>Apium graveolens</i> (seledri, celery), <i>Helianthusannuus</i> (bunga matahari, sunflower)	seed, bulb, tuber, corm	Europe: all
23.	<i>Milax gagategs</i> Draparnaud; (= <i>Limax gagtes</i> = <i>Limax fulginosus</i> = <i>Milax antipodarum</i> = <i>Limax pectinatus</i> = <i>Milax hewstoni</i> = <i>Milax emarginata</i> = <i>Milax tasmanicus</i> = <i>Milax nigricolus</i> = <i>Amalia antipodarum</i> var. <i>pallida</i> = <i>Amalia parryi</i> = <i>Amalia babori</i>); Milacidae; Greenhouse slug, Keeled slug	II	<i>Solanumtuberosum</i> (kentang, potato), <i>Daucuscarota</i> (wortel, carrot), <i>Brassicaoleraceavar. capitata</i> (kubis, cabbage), <i>Fragariavesca</i> (arbei, strawberry), <i>Cynara scolimus</i> (Artichoke), <i>Glycine max</i> (kedelai, soyabean), <i>Helianthusannuus</i> (bunga matahari, sunflower), (oilseed rape)	seed, bulb, tuber, corm, seedling, root, stem	Africa: all America: USA Asia: Japan, Sri Lanka Europe: Britain, Mediterranean region Oceania: New Zealand, Australia
24.	<i>Milax sowerbyi</i> Tandonia sowerbyi; sowerby's slug, bulb-	II	<i>Solanum tuberosum</i> (kentang, potato),	seed, bulb, tuber, corm	Europe: all

	eating slug		<i>Apiumgraveolens</i> (seledri, celery), <i>Daucus carota</i> (wortel, carrot)		
25.	<i>Otala lacteal</i> Muller; Helicidae; Milk snail, Milky snail	II	<i>Alliumsativum</i> (bawangputih, garlic), <i>Apiumgraveolens</i> (seledri, celery), <i>Brassicaoleraceavar.botrytis</i> (kembang kol, cauliflower), <i>Brassicaoleracea capitata</i> (kubis, cabbage), <i>Brassicaoleraceavar.italica</i> (b rokoli, broccoli), Brassicaceae, Citrus, <i>Caricapapaya</i> (pepaya, papaya), <i>Lactuca sativa</i> (selada, lettuce), <i>Pimpinella anisum</i> (anise), lily, yucca,	seed, bulb, tuber, corm	Africa: North Africa America: Bermuda, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana, USA, Cuba, Jamaica Europe: Netherlands, Spain Oceania: Australia
26.	<i>Oxychilus cellarius</i> Muller; Zonitidae; Cellar glass snail	II	Orchidaceae (Anggrek, orchid), legumes, <i>Cucumissativus</i> (ketimun, cucumber), <i>Cucurbita moschata</i> (labu, pumpkin), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Cucumis melo</i> (melon, melon)	stem, root, fruit	Africa: North Africa America: USA, Canada Asia: all Europe: all Oceania: New Zealand
27.	<i>Oxychilus draparnaudi</i> Beck; Zonitidae; Dark bodied glass snail	II	Orchidaceae (Anggrek, orchid), legumes, <i>Cucumissativus</i> (ketimun, cucumber), <i>Cucurbita moschata</i> (labu, pumpkin)	stem, root, fruit	Europe: all
28.	<i>Pila globosa</i> (Swainson); common freshwater gastropod	II	<i>Oryzasativa</i> (padi, paddy), plantair	seedling, sisa tanaman	Asia: Argentina, Bolivia, Brazil, Colombia, Chile,

					Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana
29.	<i>Theba pisana</i> Muller; (= <i>Helix pisana</i>); Helicidae; White garden snail, mediteranean sandsnail, sandhill snail, white snail	II	<i>Vitis vinifera</i> (anggur, grape), <i>Citrus</i> spp. (jeruk, orange), <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Lycopersicon esculentum</i> (tomat, tomato), legumes (kacang-kacangan), <i>Medicago sativa</i> (alfalfa), ornamental plant, <i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli, barley), <i>Daucus carota</i> (wortel, carrot)	seed, seedling	Africa: South Africa, Somaliland America: USA, Atlantic Island, Bermuda, Canary Island Asia: Iran Europe: Western France, England, Wales, Ireland Oceania: Australia
30.	<i>Vaginula hedleyi</i> Simroth; Veronicellidae; Vaginula slugs	II	<i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Ipomoea batatas</i> (ubi jalar, sweetpotato), <i>Coffea</i> spp. (kopi, coffee), <i>Medicago sativa</i> (alfalfa, lucerne)	seed	America: all

IV. NEMATODA (NEMATODES)

NO	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ SCIENTIFIC NAME/ SYNONIM/ TAXON/ COMMON NAME	GOLONGAN/ GROUP	INANG/ HOST	MEDIA PEMBAWA/ PATHWAYS	DAERAH SEBAR/ GEOGRAPHICAL DISTRIBUTION
1.	<p><i>Anguina agrostis</i> (Steinbuch) Filipjev; (= <i>Anguillula agrostidis</i> = <i>A. agrostis</i> = <i>A. phalaridis</i> = <i>Anguillulina agrostis</i> = <i>A. phalaridis</i> = <i>Anguina funesta</i> = <i>A. lolii</i> = <i>A. phalaridis</i> = <i>A. poophila</i> = <i>Tylenchus agrostidis</i> = <i>T. agrostis</i> = <i>T. phalaridis</i> = <i>T. phlei</i> = <i>Vibrio agrostis</i> = <i>Vibrio phalaridis</i>); Anguinidae; rye grass nematode, bentgrass nematode, grass seed eelworm</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Agrostis canina</i> (velvet bentgrass), <i>Agrostis exarata</i> (spike bentgrass), <i>Agrostis stolonifera</i> var. <i>Palustris</i> (creeping bentgrass), <i>Agrostis capillaris</i> (colonial bentgrass), <i>Bromus erectus</i> (erect brome), <i>Dactylis glomerata</i> (orchardgrass), <i>Festuca ovina</i> (sheep fescue), <i>Festuca nigrescens</i> (red fescue), <i>Lolium rigidum</i> (wimmera ryegrass), <i>Phleum pratense</i> (timothy), <i>Phleum boehmeri</i>, <i>Phleum phleoides</i> (boehmer's cat's-tail), <i>Poa alpina</i> (alpine bluegrass), <i>Poa annua</i> (annual bluegrass), <i>Poa pratensis</i> (kentucky bluegrass), <i>Trisetum flavescens</i> (yellow oatgrass)</p>	<p>buds, leaf, seed, stem/litter, root, flower, stolon, soil</p>	<p>Africa: South Africa America: Canada, USA Asia: China, Kyrgyzstan Europe: Czech, Estonia, Finland, Germany, Ireland, Netherlands, Norway, Poland, Russia, Slovakia, Sweden, Ukraine, UK Oceania: Australia, New Zealand.</p>
2.	<p><i>Anguina tritici</i> (Steinbuch)</p>	<p>I: for</p>	<p><i>Secale cereale</i> (rye), <i>Triticum</i></p>	<p>buds,</p>	<p>Africa: Egypt, Ethiopia</p>

	Chitwood; (= <i>Anguillula tritici</i> = <i>Anguillulina tritici</i> = <i>Rhabditis tritici</i> = <i>Tylenchus scandens</i> = <i>T. tritici</i> = <i>Vibrio tritici</i>); Anguinidae; wheat nematode, wheatgall nematode, eelworm disease, earcockles, bunted wheat, hard smut, cockle wheat, purples	unprocessed commodity. II: for processed commodity	<i>aestivum</i> (gandum, wheat), <i>Triticum dicoccum</i> , <i>Triticum spelta</i> <i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barli, barley), <i>Triticum turgidum</i>	flower, leaf, stem, litter, seed, soil	America: USA, Brazil, Canada Asia: China, Iran, India, Syria, Iraq, Israel, Afghanistan, Azerbaijan, South Korea, Pakistan, Saudi Arabia, Turkey Europe: Austria, Bulgaria, Croatia, Cyprus, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Netherlands, Poland, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand.
3.	<i>Aphasmatylenchus straturatus</i> Germani; Hoplolaimidae; ground nut chlorosis nematode	I: for unprocessed commodity. II: for processed commodity	<i>Arachys hypogaea</i> (kacang tanah, peanut). <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Glycine max</i> (kedelai, soyabean), <i>Vigna cylindrical</i> (kacang tunggak, long bean), <i>Voandzeia subterranea</i> (bambara groundnut)	root, pod, soil	Africa: Burkina Faso
4.	<i>Aphelenchoides arachidis</i>	I: for	<i>Arachys hypogaea</i> (kacang	buds, pod,	Africa: Nigeria, Cameroon,

	Bos.; Aphelenchoididae; groundnut testa nematode, peanut testa nematode	unprocessed commodity. II: for processed commodity	tanah, peanut) <i>Oryza sativa</i> (padi, paddy, rice), <i>Pennisetum glaucum</i> (pearl millet), <i>Saccharumofficinarum</i> (tebu, sugarcane), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Zea mays</i> (jagung, corn)	root, seed, soil	Egypt
5.	<i>Aphelenchoides ritzemabosi</i> (Schwartz) Steiner & Buhner; (= <i>Aphelenchoides ribes</i> = <i>Aphelenchus phyllophagus</i> = <i>A.ribes</i> = <i>A.ritzemabosi</i> = <i>Pathoaphelenchus ritzemabosi</i> = <i>Pseudaphelenchoides ritzemabosi</i> = <i>Tylenchus ribes</i>); Aphelenchoididae; bud and leaf nematode, <i>Chrysant</i> foliar eelworm, leaf wilt nematode of Chrysant, Chrysant foliar nematode, Blackcurrant nematode	I: for unprocessed commodity. II: for processed commodity	<i>Chrysanthemum morifolium</i> (krisan, chrysanthemum (florists), <i>Dahlia</i> , <i>Fragaria vesca</i> (stroberi, wildstrawberry), <i>Fragaria ananassa</i> (stroberi, strawberry) <i>Asplenium nidus</i> (bird's nest fern), <i>Bergenia spp.</i> (elephant-leaved saxifrage), <i>Calceolaria spp.</i> (pouch flower), <i>Campanula spp.</i> (campanulas), <i>Campanula pyramidalis</i> (chimney bellflower), <i>Consolida ambigua</i> (rocket larkspur), <i>Crassula coccinea</i> , <i>Callistephus chinensis</i> (China aster), <i>Geranium spp.</i> (cranesbill), <i>Helianthus annuus</i> (bunga matahari, sunflower),	seed, leaf, stem, root, flower, bulb, tuber, corm, kormus, stolon, growing media, soil	Africa: South Africa, Mauritius America: Brazil, Chile, Canada, Cuba, Mexico, USA, Venezuela. Asia: China, India, Iran, Japan, Kazakhtans, South Korea, Uzbekistan Europe: Bosnia and Herzegovina, Bulgaria, Croatia, Germany, Hungary, Ireland, Italy, Latvia, Montenegro, Macedonia, Netherlands, Poland, Portugal, Russia, Spain, Switzerland, Serbia, Slovenia, UK, Ukraine, Oceania: New Zealand, Fiji

			<p> <i>Hibiscus rosa – sinensis</i> (kembang sepatu, china-rose), <i>Helleborus niger</i>(christmas rose), <i>Lavandula angustifolia</i>(lavender), <i>Lotus corniculatus</i>, <i>Lupinus</i> spp. (lupine), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Limonium sinuatum</i> (sea pink), <i>Lotus corniculatus</i> (bird's-foot trefoil), <i>Lupinus</i> (lupins), <i>Medicago sativa</i> (lucerne), <i>Mimulus</i> spp.(monkey-flower), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Ocimum basilicum</i> (kemangi, basil), <i>Passiflora quadrangularis</i>(markisa, passionfruit, granadilla), <i>Peperomia</i> sp., <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Philadelphus coronarius</i> (mock orange), <i>Ranunculus</i> (buttercup), <i>Rheum hybridum</i>(rhubarb), <i>Rhododendron</i> spp. (azalea), <i>Rudbeckia</i> spp. (coneflower), <i>Salvia splendens</i>(scarlet sage), <i>Sinningia speciosa</i>(gloxinia), </p>	
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			<p><i>St. paulia</i> spp.(african violet), <i>St. paulia ionantha</i>(african violet), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum nigrum</i>(black nightshade), <i>Verbena</i> spp.(vervain), <i>Viburnum</i> spp., <i>Viola</i> spp. (violet), <i>Ribes nigrum</i>(blackcurrant), <i>Veronica</i> (speedwell), <i>Limonium sinuatum</i>, <i>Medicago sativa</i> (alfalfa, lucerne), <i>Vigna</i> spp. (buncis, cowpea), <i>Zinnia elegans</i>(zinnia), <i>Buddleia</i> spp., <i>Eleusine coracana</i>(finger millet), <i>Ribes uva-crispa</i> (gooseberry), <i>Rumex</i> (Dock), <i>Ranunculus</i> spp., <i>Sambucus</i> spp.(elderberry), <i>Senecio</i> spp.(groundsel), <i>Sonchus</i> spp., <i>Veronica</i> spp., <i>Echium</i> spp., <i>Rumex</i> spp., <i>Stellaria media</i></p>		
6.	<i>Belonolaimus longicaudatus</i> Rau; Belonolaimidae; sting nematode	I: for unprocessed commodity. II: for	<i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Brassica</i> spp., <i>Cynodon dactylon</i> (Bermuda grass), <i>Citrus sinensis</i> (jeruk manis, navel orange),	tanah berpasir, kerikil, root, seedling	America: Bahama, Bermuda, Costa Rica, Mexico, Puerto Rico, USA. Asia: Pakistan, Saudi Arabia, Turkey

		processed commodity	<p><i>Cucumis melo</i> (melon, melon), <i>Daucus carota</i> (wortel, carrot), <i>Fragaria</i> spp., (stroberi, strawberry), <i>Gossypium hirsutum</i>(kapas, bourbon cotton), <i>Glycine max</i> (kedelai, soyabean), <i>Zea mays</i> (jagung, corn), Poaceae, <i>Abelmoschus esculentus</i> (okra, lady's finger), <i>Acer</i> spp.(maples), <i>Acer pseudoplatanus</i>(sycamore), <i>Agrostis stolonifera</i> var. <i>palustris</i>(bent grass), <i>Allium cepa</i> (bawang bombay, onion), <i>Apium graveolens</i> (seledri, celery), <i>Baccharis halimifolia</i> (groundsel-bush), <i>Beta vulgaris</i> (bit, beetroot), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Brassica rapa</i> subsp. <i>oleifera</i> (turnip rape) <i>Capsicum annum</i> (cabai, hot pepper, chillies, red pepper), <i>Casuarina equisetifolia</i>(casuarina),</p>		
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			<p> <i>Chrysanthemum</i> spp.(daisy), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Desmodium</i> <i>tortuosum</i>(florida beggarweed), <i>Digitaria</i> <i>decumbens</i>(pangolagrass), <i>Digitaria sanguinalis</i>(large crabgrass), <i>Diospyros kaki</i> (kesemek, persimmon),<i>Eremochloa</i> <i>ophiuroides</i>(centipedegrass), <i>Festuca arundinacea</i>(reed fescue), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Hordeum</i> <i>vulgare</i> (sorgum, sorghum), Ilex (holly), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Ipomoea purpurea</i> (Tall morning glory), <i>Lactuca</i> <i>sativa</i> (selada, lettuce), <i>Liquidambar</i> <i>styraciflua</i>(sweet gum), <i>Lolium multiflorum</i>(italian ryegrass), <i>Lycopersicon</i> <i>esculentum</i> (tomat, tomato),<i>Mentha spicata</i> (Spear mint), <i>Ocimum</i> <i>basilicum</i> (kemangi, basil), </p>	
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			<p>Oxalis (wood sorrels), <i>Paspalum notatum</i>(bahiagrass), <i>Pennisetum glaucum</i>(pearl millet), <i>Pisum sativum</i> (kapri, sweet pea), <i>Pennisetum purpureum</i> (elephant grass), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Pinus palustris</i>(longleaf pine), <i>Pinus taeda</i>(loblolly pine), <i>Pisum sativum</i> (pea), <i>Pittosporum tobira</i>(Japanese pittosporum), Poaceae (grasses), <i>Pharbitis purpurea</i>, <i>Rumex crispus</i>(curled dock), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Schinus terebinthifolius</i>(Brazilian pepper tree), <i>Secale cereale</i> (rye), <i>Sesbania exaltata</i>(coffeebean (USA)), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum Sudanense</i>(Sudan grass), <i>Stenotaphrum</i></p>	
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			<i>secundatum</i> (buffalograss), <i>Trifolium</i> spp.(clovers), <i>Triticum aestivum</i> (gandum, wheat), <i>turfgrasses</i> , <i>Ulmus parvifolia</i> (lacebark elm), <i>Vaccinium corymbosum</i> (blueberry), <i>Vigna unguiculata</i> (cowpea), <i>Baccharis halimifolia</i> , <i>Vigna</i> spp. (buncis, cowpea), <i>Vitis rotundifolia</i> (Muscadine grape)		
7.	<i>Bursaphelenchus cocophilus</i> (Cobb) Baujard; (= <i>Aphelenchoides cocophilus</i> = <i>Aphelenchus cocophilus</i> = <i>Rhadinaphelenchus cocophilus</i> = <i>Chitinoaphelenchus cocophilus</i>); Aphelenchoididae; red ring nematode	I: for unproces sed commodit y. II: for processed commodity	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm) <i>Phoenix canariensis</i> , <i>Phoenix dactylifera</i> (kurma, dates-palm), <i>Sabal palmetto</i>	buds, kulit wood, planlet, stem, leaf, root, wood, soil, seedling Vector: Coleoptera, Curculionid ae: <i>Rhynchopho rus palmarum</i> , <i>R. cruentatus</i>	America: Belize, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Guyana, Grenada, Honduras, Mexico, Nicaragua, Panama, Peru, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, Venezuela, French Guiana
8.	<i>Bursaphelenchus xylophilus</i> (Steiner & Buhner) Nickle; (= <i>Aphelenchoides xylophilus</i>	I: for unproces sed	<i>Pinus</i> spp. <i>Abies</i> spp., (fir), <i>Cedrus deodara</i> (deodar cedar),	kulit wood, stem, wood, kemasan	Africa: South Africa America: Canada, Mexico, USA.

	= <i>Bursaphelenchus lignicolus</i>); Parasitaphelenchidae; pine wood nematode, pine wilt nematode	commodity. II: for processed commodity	<i>Cedrus atlantica</i> , <i>Chamaecyparis nootkatensis</i> (alaska cedar), <i>Picea</i> spp. (spruce), <i>Pseudotsuga menziesii</i> (douglas-fir), <i>Larix</i> spp. (larch)	kayu Vector: Coleoptera, Cerambycidae: <i>Monochamus alternatus</i> , <i>M. nitens</i>	Asia: China, Japan, South Korea, Vietnam, Taiwan Europe: Portugal
9.	<i>Cactodera cacti</i> (Filipjev & Schuumans Stekhoven) Krall & Krall; (= <i>Heterodera cacti</i>); Heteroderidae; cactus cyst nematode, cactus cyst eelworm, cactus root eelworm	I: for unprocessed commodity. II: for processed commodity	<i>Schlumbergera truncata</i> (christmas cactus), <i>Epiphyllum</i> spp., <i>Epiphyllum ackermannii</i> , <i>Echinopsis</i> spp., <i>Erysimum allionii</i> , <i>Ferocactus</i> spp., <i>Opuntia microdasys</i> (angel's wings), <i>Opuntia stricta</i> (erect prickly pear), <i>Saccharum officinarum</i> (tebu, sugarcane), family cactaceae	root, stem, soil	Africa: Algeria America: Argentina, Brazil, Canada, Colombia, Cuba, Mexico, USA, Asia: China, India, Israel, Japan, South Korea, Uzbekistan, Vietnam, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan Europe: Austria, Belgium, Czech, Denmark, Hungary, France, Germany, Italy, Malta, Netherlands, Poland, Rumania, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Ukraina, Russia, Slovakia, Spain, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina,

					Montenegro, Macedonia Oceania: Australia.
10.	<i>Ditylenchus africanus</i> Wendt <i>et. al.</i> ;Anguinidae; thepeanut pod nematode, groundnut pod nematode	I: for unproces sed commodit y. II: for processed commodity	<i>Arachis hypogaea</i> (kacang tanah, peanut) <i>Chenopodium album</i> (fat hen), <i>Datura stramonium</i> (jimsonweed), <i>Eleusine</i> <i>indica</i> (goose grass), <i>Glycine</i> <i>max</i> (kedelai, soyabean), <i>Gossypium hirsutum</i> (Bourbon cotton), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Lupinus albus</i> (white lupine), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Nicotiana</i> <i>tabacum</i> (tembakau, tobacco), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Pisum sativum</i> (kapri, sweet pea), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum</i> <i>bicolor</i> (sorgum, sorghum), <i>Tagetes minuta</i> (stinking Roger), <i>Triticum aestivum</i> (gandum, wheat), <i>Vigna</i> <i>unguiculata</i> (kacang panjang, cowpea), <i>Xanthium</i> <i>strumarium</i> (common cocklebur), <i>Zea mays</i> (jagung, corn)	seed, pod, root, bulb, tuber, corm, fruit	Africa: Mozambique, South Africa Asia: China
11.	<i>Ditylenchus destructor</i> Thorne;	I: for	<i>Allium ascalonicum</i> (bawang	pod, bulb,	Africa: South Africa

<p>Anguinidae; potato rot nematode, potato tuber nematode, potato eelworm</p>	<p>unprocessed commodity. II: for processed commodity</p>	<p>merah, shallot), <i>Allium sativum</i> (bawang putih, garlic), <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Beta vulgaris</i> (bit, beetroot), <i>Camellia sinensis</i> (teh, tea), <i>Chrysanthemum</i> spp. (krisan, chrysant), <i>Citrus sinensis</i> (jeruk manis, navel orange), <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita maxima</i> (waluh, labu parang, pumpkin), <i>Daucus carota</i> (wortel, carrot), <i>Dahlia hybrids</i>, <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Gladiolus hybrids</i> (sword lily), <i>Glycine max</i> (kedelai, soyabean), <i>Humulus lupulus</i> (hops), <i>Irish</i> spp., <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Mentha</i> spp. (mentol, mint), <i>Panax schinseng</i> (ginseng), <i>Solanum tuberosum</i> (kentang, potato), <i>Solanum melongena</i> (terung, eggplant), <i>Trifolium</i> spp.,</p>	<p>tuber, corm, rimpang, stem, stolon, kormus, root, planlet, soil</p>	<p>America: Canada, Ecuador, Haiti, Mexico, Peru, USA Asia: Azerbaijan, China, Iran, Japan, Kazakhstan, South Korea, Kyrgyzstan, Pakistan, Saudi Arabia, Tajikistan, Turkey, Uzbekistan, Europe: Albania, Austria, Belarusia, Belgium, Netherlands, Bulgaria, Czech, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Moldova, Norway, Poland, Rumania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia, New Zealand</p>
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			<i>Triticum aestivum</i> (gandum, wheat), <i>Tulipa</i> spp., <i>Zea mays</i> (jagung, corn)		
12.	<p><i>Ditylenchus dipsaci</i> (Khun.) Filipjev; (= <i>Aguillulina dipsaci</i> = <i>A. Dipsaci</i> var. <i>tobaensis</i> = <i>Tylenchus dipsaci</i> = <i>T. devastator</i> = <i>T. devastatrix</i> = <i>Anguillula dipsaci</i> = <i>A. secalis</i> = <i>A. devastatrix</i> = <i>Ditylenchus allocotus</i> = <i>D. amsinckiae</i> = <i>D. fragariae</i> = <i>D. sochophila</i> = <i>D. trifolii</i> = <i>D. dipsaci</i> var. <i>Communis</i> = <i>Tylenchus putrefaciens</i> = <i>T. havensteinii</i> = <i>T. hyacinthi</i> = <i>T. Allii</i>;</p> <p>Anguinidae; nematoda umbi/brown ring disease of hyacinth, stem and bulb nematode, onion bloat, bulb eelworm, ring disease of bulbs</p>	<p>I: for unprocessed commodity.</p> <p>II: for processed commodity</p>	<p><i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium sativum</i> (bawang putih, garlic), <i>Allium cepa</i> (bawang bombay, onion), <i>Allium fistulosum</i> (bawang leaf, welch onion), <i>Allium porrum</i> (bawang leaf, leek), <i>Avena sativa</i> (oat, oats), <i>Begonia</i>, <i>Beta vulgaris</i> var. <i>saccharifera</i> (bit gula, sugarbeet), <i>Cannabis sativa</i> (hemp), <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Gladiolus hybrids</i> (sword lily), <i>Hyacinthus orientalis</i> (hyacinth), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Narcissus</i> (daffodil), <i>Narcissus pseudonarcissus</i>, <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Phlox drummondii</i> (phlox), <i>Phlox paniculata</i> (garden phlox), <i>Pisum sativum</i> (kapri, sweet pea), <i>Secale cereale</i> (gandum, rye), <i>Trifolium pratense</i> (purple clover), <i>Trifolium</i></p>	<p>bulb, tuber, corm, fruit, flower, leaf, seedling, stem, seed, stolon, soil</p>	<p>Africa: Algeria, Kenya, Morocco, Nigeria, Réunion, South Africa, Tunisia.</p> <p>America: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, Haiti, Mexico, Paraguay, Peru, USA (Hawaii), Uruguay, Venezuela.</p> <p>Asia: Armenia, Azerbaijan, China, Georgia (Republic), Iran, Iraq, Israel, Japan, Jordan, Kazakhstan, South Korea, Kyrgyzstan, Oman, Pakistan, Syria, Turkey, Uzbekistan, Yemen</p> <p>Europe: Europe (as a whole), Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania,</p>

		<p><i>repens</i> (white clover), <i>Solanum tuberosum</i> (kentang, potato), <i>Tulipa</i> spp., <i>Vicia faba</i> (broad bean), <i>Zea mays</i> (jagung, corn).</p> <p><i>Allium cepa</i> var. <i>aggregatum</i> (bawang merah, shallot), <i>Apium graveolens</i> (seledri, celery), <i>Abrosia</i> spp., <i>Avena</i> spp., <i>Agropiron</i> spp., <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Bergenia</i>, <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), <i>Carduus acanthoides</i> (welted thistle), <i>Crocus sativus</i> (kuma-kuma, safron, saffron), Cucurbitae, <i>Chenopodium murale</i> (nettleleaf goosefoot), <i>Cirsium arvense</i> (creeping thistle), <i>Convolvulus arvensis</i> (bindweed), <i>Chrysanthemum</i> spp., <i>Cirsium arvense</i> (creeping thistle), <i>Dianthus caryophyllus</i> (anyelir, carnation), <i>Erigeron</i> spp., <i>Iris</i> spp., <i>Ipomoea batatas</i> (ubi jalar, sweetpotato), <i>Helianthus annuus</i> (bunga matahari, sunflower),</p>	<p>Macedonia, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia (Central Russia, Russian Far East, Siberia, Southern Russia, Western Siberia), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK (England and Wales, Scotland), Serbia, Slovenia, Croatia, Montenegro, Macedonia.</p> <p>Oceania: Australia, New Zealand.</p>
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			<p> <i>Daucus carota</i> (wortel, carrot), <i>Delpinium</i> spp., Hydrangea (hydrangeas), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil, lentil), <i>Onobrychis vicifolia</i> (sainfoin), <i>Petroselinum crispum</i> (parsley), <i>Phaseolus coccineus</i> (runner bean), <i>Triticum</i> (gandum, wheat), Orchidaceae (anggrek, orchids), <i>Raphanus sativus</i> (lobak, radish), <i>Lactucasativa</i> (selada, lettuce), <i>Lepidium</i> spp., <i>Tagetes</i> spp., <i>Trifolium</i> spp., <i>Plantago</i> spp., <i>Hyacinthes</i> spp., <i>Hieracium pilosella</i> (mouse-ear hawkweed), <i>Lamium album</i> (white deadnettle), <i>Lamium amplexicaule</i> (henbit deadnettle), <i>Lamium purpureum</i> (purple deadnettel), <i>Myriophyllum verticillatum</i> (whorled watermilfoil), <i>Nerine sarniensis</i> (guernsey lily), <i>Ranunculus arvensis</i> (Corn buttercup), <i>Raphanus raphanistrum</i> (wild radish), <i>Stellaria media</i> (common </p>	
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			chickweed), <i>Taraxacum officinale</i> complex (dandelion)		
13.	<i>Globodera tabacum</i> (Lownsbery & Lownsbery) Skarbilovich; (= <i>Globodera tabacum</i> = <i>Heterodera tabacum</i>); Heteroderidae; tobacco cyst nematode	I: for unprocessed commodity. II: for processed commodity	<i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Nicotiana rustica</i> (wild tobacco), <i>Lycopersicum esculentum</i> (tomat, tomato) <i>Solanum melongena</i> (terung, eggplant), <i>Solanum nigrum</i> (black nightshade), <i>Solanum gilo</i> (gilo), <i>Solanum indicum</i> , <i>Solanum mauritianum</i> (tree tobacco), <i>Solanum quitoense</i> (Narangillo), <i>Solanum tuberosum</i> (kentang, potato)	root, bulb, tuber, corm, soil	Africa: Madagascar, Morocco America: Argentina, Canada, Colombia, Mexico, USA. Asia: China, Japan, South Korea, Pakistan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan Europe: Bulgaria, Spain, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Latvia, Lithuania, Moldova, Ukraine, France, Greece, Italy, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia
14.	<i>Hemicycliophora arenaria</i> Raski; Criconematidae; sheath nematode	I: for unprocessed commodity. II: for processed commodity	<i>Citrus limonia</i> (mandarin lime), <i>Citrus aurantiifolia</i> (jeruk nipis, lime), <i>Citrus reticulata</i> (jeruk mandarin, mandarin), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Cucurbita maxima</i> (waluh, labu parang, pumpkin) <i>Apium graveolens</i> (selederi, celery), <i>Citrus limettioides</i>	root, seedling, soil	America: Argentina, Brazil, USA. Oceania: Australian

			(palestine sweet lime), <i>Citrus macrophylla</i> (alemow), <i>Citrus Taiwanica</i> (nanshodaidai), <i>Capsicum annuum</i> (cabai, hot pepper, chilies, red pepper), <i>Capsicum frutescens</i> (chili), <i>Libocedrus Chilensis</i> (Chilean cedar), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Vigna unguiculata</i> (kacang panjang, cowpea), <i>Vigna cylindrical</i> (kacang tunggak, long bean), <i>Vitis vinifera</i> (anggur, grapevine)		
15.	<i>Heterodera avenae</i> Wollenweber; (= <i>Bidera avenae</i> = <i>B.ustinovi</i> = <i>Heterodera major</i> = <i>H. schachtii maior</i> = <i>H. schachtii</i> var. <i>avenae</i> = <i>H. ustinovi</i>); Heteroderidae; oat cyst nematode, cereal cyst nematode, cereal cyst eelworm, oat root eelworm	I: for unprocessed commodity. II: for processed commodity	<i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barli, barley), <i>Secale cereale</i> (rye), <i>Triticale</i> spp., <i>Triticum aestivum</i> (gandum, wheat) Poaceae(grasses), <i>Zea mays</i> (jagung, corn)	seedling, root, soil	Africa: Algeria, Libya, Morocco, South Africa, Tunisia America: Canada, Peru, USA Asia: China, India, Iran, Israel, Japan, Kazakstan, Pakistan, Saudi Arabia, Turkey Europe: Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech, Denmark, Estonia, France, Germany, Greece, Ireland, Italy, Latvia, Montenegro, Macedonia, Malta,

					Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Serbia, Slovenia, Ukraine, UK Oceania: Australia, New Zealand.
16.	<i>Heterodera carotae</i> Jones; Heteroderidae; carrot cyst nematode, carrot cyst eelworm, carrot root eelworm	I: for unprocessed commodity. II: for processed commodity	<i>Daucus carota</i> (wortel, carrot), <i>Olea europaea</i> subsp. <i>europaea</i> (olive)	bulb, tuber, corm, root, soil	America: USA Europe: Armenia, Azerbaijan, Belarus, Estonia, France, Germany, Georgia, Poland, Portugal, Italy, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Latvia, UK, Ukraine, Uzbekistan, Kazakhstan, Kyrgyzstan, Switzerland
17.	<i>Heterodera cruciferae</i> Franklin; Heteroderidae; crucifer cyst nematode	I: for unprocessed commodity. II: for processed commodity	<i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica napus</i> var. <i>napus</i> (rape), Cruciferae, <i>Raphanus sativus</i> (lobak, radish) <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage)	root, soil	Asia: Pakistan. Europe: All Oceania: Australia
18.	<i>Heterodera goettingiana</i>	I: for	<i>Pisum sativum</i> (kapri, sweet	seedling,	Africa: Algeria

	Liebscher; (= <i>Heterodera göttingiana</i>); Heteroderidae; pea cyst nematode, pea cyst eelworm, pea root eelworm	unprocessed commodity. II: for processed commodity	pea), <i>Vicia faba</i> (kacang babi, broadbean) <i>Cicer arietinum</i> (kacang arab, chickpea), <i>Glycine max</i> (kedelai, soyabean), <i>Lathyrus cicera</i> (flat-podded vetchling), <i>Lathyrus odoratus</i> (sweet pea), <i>Lathyrus sativus</i> (grasspea), <i>Lens esculentum</i> (lentil, lentil), <i>Lens culinaris</i> subsp. <i>culinaris</i> (lentil), <i>Lupinus albus</i> (white lupine), <i>Lupinus luteus</i> (yellow lupin), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Vicia</i> (vetch), <i>Vicia benghalensis</i> (purple vetch), <i>Vicia calcarata</i> , <i>Vicia cracca</i> (Tufted vetch), <i>Vicia ervilia</i> (Bitter vetch)	root, soil	America: USA. Asia: China, Israel, Iran, Jordan, Japan, Turkey, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan, Uzbekistan Europe: Belgium, Bulgaria, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Ukraine, Russia, France, Germany, Italy, Malta, Poland, Portugal, Spain, UK
19.	<i>Heterodera oryzicola</i> Rao & Jayaprakash; Heteroderidae; rice cyst nematode, paddy cyst nematode	I: for unprocessed commodity. II: for processed commodity	<i>Oryza sativa</i> (padi, rice, paddy) <i>Brachiara decumbens</i> (signal grass), <i>Urochloa decumbens</i> (signal grass), <i>Musa paradisiaca</i> (pisang, plantain), <i>Cynodon dactylon</i> (bermuda grass)	root, bonggol, seedling, soil	Africa: Ivory Coast Asia: India.
20.	<i>Heterodera sacchari</i> Luc.&	I: for	<i>Oryza sativa</i> (padi, rice,	root, soil	Africa: Benin, Burkina

	Merny.; Heteroderidae; sugarcane cyst nematode	unprocessed commodity. II: for processed commodity	paddy), <i>Zea mays</i> (jagung, corn), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Nicotiana tabacum</i> (tembakau, tobacco) <i>Axonopus compressus</i> (carpet grass), <i>Cynodon dactylon</i> (Bermuda grass), <i>Echinochloa colona</i> (junglerice), <i>Eleusine indica</i> (goose grass), <i>Psapalum conjugatum</i> (sour paspalum), <i>Saccharum spontaneum</i> (wild sugarcane), <i>Urochloa brizantha</i> (palisadegrass)		Faso, Chad, Congo, Ivory Coast, Gambia, Ghana, Liberia, Nigeria, Senegal. Asia: India, Pakistan, Thailand
21.	<i>Heterodera schachtii</i> Schmidt; (= <i>Heterobolbus schachtii</i> = <i>Heterodera schachtii minor</i> = <i>Tylenchus schachtii</i>); Heteroderidae; sugarbeet nematode, beet cyst eelworm	I: for unprocessed commodity. II: for processed commodity	<i>Alliaria petiolata</i> (garlic mustard), <i>Alyssum argentium</i> , <i>Amaranthus</i> spp., <i>Apium dulce</i> , <i>Arabis</i> spp., <i>A Armoracia rusticana</i> (horseradish), <i>Atriplex</i> spp., <i>Aubrieta</i> spp. (rainbow rock-cress), <i>Aubrieta columnae</i> , <i>Alyssum argentium</i> , <i>Beta</i> spp., <i>Brassica</i> spp., <i>Dianthus</i> spp., <i>Gypsophila acutifolia</i> , <i>Gypsophila elegans</i> (baby's breath), <i>Phaseolus vulgaris</i> (buncis, common bean),	root, seedling, stem, bulb, tuber, corm, soil	Africa: Algeria, Cape Verde, Gambia, Libya, Morocco, Senegal, South Africa, Tunisia, America: Chile, Canada, Mexico, Peru, USA, Uruguay Asia: Azerbaijan, China, Iran, Iraq, Israel, Jordan, Kazakistan, Kyrgyzstan, Pakistan, Syria, Turkey Europe: Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Hungary, Finland, Serbia,

		<p><i>Phytolacca acinosa</i>, <i>Pisum sativum</i> (kapri, sweet pea), <i>Polygonum</i> spp., <i>Polygonum convolvulus</i>(black bindweed), <i>Portulaca oleracea</i> (purslane), <i>Oryza sativa</i> (padi, rice, paddy), <i>Thlaspi arvense</i>, <i>Raphanus maritimus</i>, <i>Raphanus raphanistrum</i>(wild radish), <i>Raphanus sativus</i> (lobak, radish), <i>Rheum hybridum</i>(rhubarb), <i>Rorippa amphibia</i>(great yellowcress), <i>Rorippa islandica</i>(yellow marshcress), <i>Rumex</i> spp., <i>Saponaria ocymoides</i>(rock soapwort), <i>Saponaria officinalis</i>(soapwort), <i>Sesbania macrocarpa</i>, <i>Sesbania exaltata</i>(coffeebean (USA)), <i>Silene armeria</i>(garden catchfly), <i>Silene maritima</i>, <i>Silene nutans</i>(nottingham catchfly (UK)), <i>Silene quadrifida</i>, <i>Silene saxifraga</i>, <i>Sinapis arvensis</i>, <i>Sinapis eruca</i>, <i>Sisymbrium austriacum</i>, <i>Sisymbrium</i> spp., <i>Solanum sarrachoides</i>(green</p>	<p>Slovenia, Bosnia and Herzegovina, Ireland, Italy, Latvia, Moldova Montenegro, Macedonia, France, Germany, Greece, Netherlands, Poland, Portugal, Rumania, Russia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia, New Zealand</p>
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			<p>nightshade (UK)), <i>Spinacia glabra</i>, <i>Spinacia oleracea</i>(spinach), <i>Tetragonia tetragonioides</i>(New Zealand spinach), <i>Thlaspi arvense</i> (field pennycress), <i>Tropaeolum perigrinum</i>, <i>Vaccaria hispanica</i>(bladder soapwort), <i>Vicia benghalensis</i>(purple vetch), <i>Vigna</i> spp. (buncis, cowpea), <i>Vigna catjang</i> Chenopodium (goosefoot), <i>Stellaria media</i> (common chickweed)</p>		
22.	<i>Heterodera trifolii</i> Goffart; Heteroderidae; clover cyst nematode, clover cyst eelworm	<p>I: for unprocessed commodity.</p> <p>II: for processed commodity</p>	<p><i>Dianthus caryophyllus</i> (anyelir, carnation) Poaceae (grasses), <i>Beta vulgaris</i> var. <i>saccharifera</i> (bit gula, sugar beet), <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium</i> spp. (clovers), <i>Trifolium pratense</i>(purple clover), <i>Trifolium repens</i>(white clover), Leguminosae</p>	<p>root, bulb, tuber, corm, soil</p>	<p>Africa: Tunisia America: Canada, USA, Argentina, Chile, Colombia Asia: India, Iran, Israel, Japan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan Europe: Belgium, Bulgaria, Denmark, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Latvia, Lithuania, Moldova, France, Germany, Italy, Netherlands, Poland, Russia, Slovenia, Spain, Sweden, Switzerland,</p>

					Ukraine, UK Oceania: Australia, New Zealand.
23.	<i>Heterodera vigni</i> Edward & Mura; (= <i>Heterodera cajani</i>); Heteroderidae; pigeonpea cyst nematode, cowpea cyst nematode	I: for unprocessed commodity. II: for processed commodity	<i>Vigna sinensis</i> (kacang panjang, cowpea), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Cyamopsis tetragonoloba</i> (guar bean), <i>Lablab purpureus</i> (banner bean), <i>Vigna aconitifolia</i> (mat Bean), <i>Vigna radiata</i> (kacang hijau, mungbean), <i>Vigna mungo</i> , <i>Vigna</i> spp. (buncis, cowpea), <i>Pisum sativum</i> (kapri, sweet pea), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Sesamum indicum</i> (wijen, sesame), <i>Vigna cylindrica</i> (kacang tunggak, long bean) <i>Crotalaria juncea</i> (cascavelle), <i>Sesbania cannabina</i> (sesbania)	root, soil	Africa: Egypt. Asia: India, Pakistan
24.	<i>Heterodera zae</i> Koshy, Swarup & Sethi; Heteroderidae; corn/maize cyst nematode	I: for unprocessed commodity. II: for processed commodity	<i>Zea mays</i> (jagung, corn) <i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barli, barley), <i>Oryza sativa</i> (padi, rice, paddy), <i>Setaria italica</i> (foxtail millet), <i>Sorghum Sudanense</i> (Sudan grass), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Triticum</i>	root, seedling, soil	Africa: Egypt America: USA Asia: Afghanistan, India, Pakistan, Nepal, Thailand Europe: Greece, Portugal

			<i>aestivum</i> (gandum, wheat), <i>Zea mays</i> subsp. <i>mexicana</i> (teosinte), Poaceae		
25.	<i>Hirschmanniella miticausa</i> Bridge Mortimer & Jackson; Pratylenchidae; miti miti disease	I: for unproces sed commodit y. II: for processed commodit y	<i>Colocasia esculenta</i> (talas, taro)	bulb, tuber, corm, seedling, root, soil	Oceania: Papua New Guinea, Solomon Islands
26.	<i>Hirschmanniella spinicaudata</i> (Schuurmans Steekhoven) Luc & Goodey; (= <i>Hirschmannia</i> <i>spinicaudata</i> = <i>Radopholus</i> <i>lavabri</i> = <i>Tylenchorhynchus</i> <i>spinicaudatus</i>); Pratylenchidae; rice root tip nematode, root lesion nematode	I: for unproces sed commodit y. II: for processed commodit y	<i>Oryza sativa</i> (padi, rice, paddy), <i>Saccharum officinarum</i> (tebu, sugarcane) <i>Fimbristylis dichotoma</i> (tall fringe rush), Cyperaceae (sedges), <i>Oryza</i> <i>longistaminata</i> (perennial wild rice), Poaceae (grasses), <i>Juncus</i> (rushes), <i>Typha</i> (reedmace)	bulb, tuber, corm, seedling, planlet, root, soil	Africa: Benin, Burkina Faso, Cameroon, Congo, Ivory Coast, Gambia, Ghana, Nigeria, Senegal, South Africa, Togo, Zambia America: Brazil, Costa Rica, Cuba, USA, Venezuela Asia: China, Pakistan
27.	<i>Hoplolaimus columbus</i> Sher.; (= <i>Hoplolaimus colombuson</i> = <i>Basirolaimus colombus</i>); Hoplolaimidae; Coltuber/Columbia lance nematode	I: for unproces sed commodit y. II: for processed	<i>Cyperus esculentus</i> (yellow nutsedge), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium barbadens</i> (kapas, cotton), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sorghum</i>	root, soil.	Africa: Egypt America: USA, Trinidad and Tobago. Asia: India, Pakistan

		commodity	<i>bicolor</i> (sorgum, sorghum), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn)		
28.	<i>Hoplolaimus galeatus</i> (Cobb) Filipjev & Schuurmans Stekh; Hoplolaimidae: lance nematode	I: for unprocessed commodity. II: for processed commodity	<i>Diospyros kaki</i> (kesemek, persimmon) <i>Arachis hypogea</i> (kacang tanah, peanut), <i>Brassica oleraceae</i> var. <i>capitata</i> (kubis, cabbage), <i>Bambusa</i> (bambu, bamboo), <i>Borrchia frutescens</i> (sea-oxeye), <i>Citrus sinensis</i> (jeruk manis, navel orange), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium</i> (kapas, cotton), <i>Poa annua</i> (annual meadowgrass), <i>Poaceae</i> (grasses), <i>Musa</i> (pisang, banana), <i>Malus domestica</i> (apel, apple), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Sansevieria trifasciata</i> (snake plant), <i>Stenotaphrum secundatum</i> (buffalograss), <i>Trifolium</i> spp. (clovers), <i>Zea mays</i> (jagung, corn)	root, soil	America: USA, Canada Asia: Pakistan
29.	<i>Hoplolaimus indicus</i> Sher.; (= <i>Basirolaimus arachidis</i> = <i>Basirolaimus indicus</i> = <i>Hoplolaimus arachidis</i>);	I: for unprocessed commodity	<i>Oryza sativa</i> (padi, rice, paddy) <i>Abelmoschus moschatus</i> (okra, lady's finger),	root, bulb, tuber, corm, soil	Asia: Bangladesh, China, India, Iran, Pakistan.

	Hoplolaimidae; lance nematode	y. II: for processed commodity	<p><i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Basella</i> spp., <i>Brassica oleracea botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Chrysanthemum</i> spp. (krisan, chrysant), <i>Citrus jambhiri</i>(rough lemon), <i>Cyamopsis tetragonoloba</i>(guar bean), <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Capsicum annuum</i> (cabai rawit, hot pepper, chilies, red pepper), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Eleusine coracana</i>(finger millet), <i>Gossypium barbadens</i> (kapas, cotton), <i>Ipomoea batatas</i> (ubi jalar, Sweet potato), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Mangifera indica</i> (mangga, mango), <i>Musa</i> spp. (pisang, banana), <i>Pennisetum glaucum</i>(pearl millet), <i>Vigna radiata</i> (kacang hijau, mungbean), <i>Vigna mungo</i>(black gram), <i>Pisum</i></p>		
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			<p><i>sativum</i> (kapri, sweet pea), <i>Poncirus trifoliata</i> (hardy orange), <i>Prunus persica</i> (persik, peach), <i>Psidium</i> spp., (guava) <i>Raphanus sativus</i> (lobak, radish), <i>Solanum melongena</i> (terung, eggplant), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Trifolium alexandrinum</i> (egyptian clover), <i>Triticum aestivum</i> (gandum, wheat), <i>Vigna cylindrica</i> (kacang tunggak, long bean), <i>Zea mays</i> (jagung, corn), <i>Senna siamea</i> (siamese cassia), <i>Pinus roxburghii</i>, <i>Saccharum officinarum</i> (tebu, sugarcane)</p>		
30.	<p><i>Hoplolaimus pararobustus</i> (Schuermans stekhoven & Teunissen) Sher. In Coomans; (= <i>Gottholdsteineria pararobusta</i> = <i>Hoplolaimus angustulatus</i> = <i>H. capensis</i> = <i>H. casparus</i> = <i>H. kittenbergeri</i> = <i>H. pararobustus</i> = <i>Rotylenchus pararobustus</i> = <i>Tylenchorhynchus</i>)</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Musa</i> spp. (pisang, banana) <i>Coffea</i> spp. (kopi, coffee), <i>Camellia sinensis</i> (teh, tea), <i>Psidium guajava</i> (jambu seed, guava), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Gossypium hirsutum</i>, <i>Mangifera indica</i></p>	<p>root, bonggol, soil.</p>	<p>Africa: Angola, Burkina Faso, Cameroon, Congo, Egypt, Gambia, Guinea, Ivory Coast, Kenya, Madagascar, Malawi, Mozambique, Niger, Nigeria, Réunion, Sao Tome & Principe, Senegal, South Africa, Tanzania, Togo, Uganda, Zimbabwe</p>

	<i>pararobustus</i>); Hoplolaimidae; lance nematode		(mangga, mango), <i>Carica papaya</i> (pepaya, papaya, pawpaw), <i>Oryza sativa</i> (padi, rice, paddy), <i>Dioscorea</i> spp., <i>Ananas comosus</i> (nenas, pineapple), <i>Triticum aestivum</i> (gandum, wheat), <i>Vigna cylindrica</i> (kacang tunggak, long bean), <i>Vitis vinifera</i> (anggur, grapevine), <i>Citrus</i> , <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Eleusine coracana</i> , kakao, <i>Rosa</i> spp. (mawar, rose)		America: Dominica, Grenada, St. Lucia, St. Vincent and the Grenadines. Asia: China, Pakistan, Sri Lanka
31.	<i>Longidorus attenuatus</i> Hooper; Longidoridae; needle nematode	I: for unprocessed commodity. II: for processed commodity	<i>Hordeum vulgare</i> (barli, barley), <i>Brassica</i> sp. (kubis, cabbage), <i>Trifolium</i> sp. (cengkeh, clover), <i>Fragaria ananassa</i> (strawberry), <i>Fragaria vesca</i> (stroberi, wildstrawberry), <i>Beta vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beetroot), <i>Triticum</i> sp. (gandum, wheat), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Daucus carota</i> (wortel, carrot), <i>Cucurbita</i> sp. (labu, pumpkin), <i>Vitis</i> sp. (anggur, grape)	root, bulb, tuber, corm, stolon, soil sebagai Vector: <i>Tomato black ring virus</i>	Africa: Nigeria Europe: Russia, Bulgaria, France, Italy, Germany, Poland, Spain, UK
32.	<i>Longidorus caespiticola</i> Hooper; Longidoridae; needle	I: for unproces	<i>Fragaria vesca</i> (stroberi, wildstrawberry), <i>Rosa</i> spp.	root, stolon, soil	Europe: Western Europe

	nematode	sed commodity. II: for processed commodity	(mawar, rose)	sebagai Vector: <i>Raspberry ringspot virus</i> , <i>Cherry leaf roll virus</i>	
33.	<i>Longidorus elongatus</i> (de Man) Thorne & Swanger; (= <i>Dorylaimus elongatus</i> = <i>Dorylaimus tenuis</i> = <i>Longidorus menthasolanus</i> = <i>Longidorus monohystera</i> = <i>Trichodorus elongatus</i>); Longidoridae; needle nematode, tomato black ring eelworm	I: for unprocessed commodity. II: for processed commodity	<i>Beta vulgaris</i> (bit, beetroot), <i>Daucus carota</i> (wortel, carrot), <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Fragaria vesca</i> (stroberi, wildstrawberry), <i>Lolium perenne</i> (perennial ryegrass), <i>Mentha piperita</i> (peppermint) <i>Allium</i> spp., <i>Apium graveolens</i> (seledri, celery), <i>Avena sativa</i> (oat, oats), <i>Brassica oleracea</i> var. <i>Gemmifera</i> (Brussels sprouts), <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Ficus carica</i> (fig), <i>Hordeum vulgare</i> (barli, barley), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Raphanus sativus</i> (lobak, radish), <i>Ribes nigrum</i> (blackcurrant), <i>Ribes</i>	root, stolon, bulb, tuber, corm, pod, soil sebagai Vector: <i>Raspberry ringspot virus</i> , <i>Tomato black ring virus</i>	Africa: South Africa America: Canada, USA Asia: Georgia, India, Kazakhtan, Pakistan, Tajikistan, Uzbekistan, Vietnam Europe: Austria, Belgium, Netherlands, Bulgaria, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Moldova, Norway, Poland, Portugal, Rumania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: New Zealand.

			<p><i>rubrum</i>(red currant), <i>Trifolium pratense</i>(purple clover), <i>Urtica dioica</i>(stinging nettle), <i>Vitis vinifera</i>(anggur, grapevine), <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Brassica rapa subspec. rapa</i> (turnip, turnip), <i>Polygonum convolvulus</i>(black bindweed), <i>Malus domestica</i> (apel, apple), <i>Pyrus communis</i> (pir, pear), <i>Ranunculus acris</i>, <i>Rosa</i> spp. (mawar, rose), <i>Rubus idaeus</i>(raspberry), <i>Capsella burs-pastoris</i> (shepherd's purse), <i>Dactylis glomerata</i> (orchardgrass), <i>Lolium multiforum</i> (Italian ryegrass), <i>Poa annua</i> (annual meadowgrass), <i>Stellaria media</i>(common chickweed)</p>		
34.	<p><i>Longidorus leptcephalus</i> Hooper; Longidoridae; needle nematode</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p>Cerealia, <i>Daucus carota</i> (wortel, carrot), <i>Solanum tuberosum</i> (kentang, potato), grass, <i>Tagetes</i> spp. (marigold), <i>Rosa</i> sp. (mawar, rose), <i>Beta vulgaris</i> (bit gula, sugarbeet), <i>Tulipa</i> sp. (Tulip), <i>Brassica rapa</i></p>	<p>root, bulb, tuber, corm, soil sebagai Vector: <i>Raspberry ringspot</i></p>	<p>Europe:Denmark, Germany, Ireland, Norway, Sweden, Netherlands, UK, Slovenia, Slovakia, Scotland, England, Russia, Poland</p>

		y	(turnip), <i>Malus domestica</i> (apel, apple), <i>Prunus avium</i> (ceri, cherry), <i>Prunus domestica</i> (prem, plum)	virus, Cherry leaf roll virus	
35.	<i>Longidorus macrosoma</i> Hooper; Longidoridae; needle nematode	I: for unprocessed commodity. II: for processed commodity	<i>Rosa</i> spp. (mawar, rose), <i>Fragaria vesca</i> (stroberi, wildstrawberry), <i>Vitis vinifera</i> (anggur, grapevine), <i>Prunus avium</i> (ceri, cherry)	root, stolon, soil sebagai Vector: Raspberry ringspot virus	Europe: all
36.	<i>Meloidogyne acronea</i> Coetzee; (= <i>Hypsoperine (Hypsoperine) acronea</i> = <i>Hypsoperine acronea</i>); Meloidogynidae; African cotton root nematode	I: for unprocessed commodity. II: for processed commodity	<i>Gossypium barbadens</i> (kapas, cotton), <i>Gossypium hirsutum</i> (Bourbon cotton) <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Cassia</i> spp., <i>Chloris gayana</i> (rhodes grass), <i>Cyamopsis tetragonoloba</i> (guar), <i>Croton tiglium</i> (purgings croton), <i>Eleusine coracana</i> (finger millet), <i>Eragrostis</i> spp. (lovegrasses), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Hibiscus sabdariffa</i> (jamaica sorrel), <i>Lycopersicum esculentum</i> (tomat, tomato),	root, pod, bulb, tuber, corm, seedling, soil	Africa: Malawi, South Africa.

			<i>Pennisetum glaucum</i> (pearl millet), <i>Vigna</i> spp. (buncis, cowpea), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum)		
37.	<i>Meloidogyne brevicauda</i> Loos; Meloidogynidae; Indian rootknot nematode, tea rootknot nematode	I: for unprocessed commodity. II: for processed commodity	<i>Camellia sinensis</i> (teh, tea), <i>Crocus sativus</i> (kuma-kuma, safron, saffron)	root, bulb, tuber, corm, planlet, seedling, soil	Asia: Azerbaijan, India, Srilanka.
38.	<i>Meloidogyne chitwoodi</i> Golden O' Bannon, Santo & Finley; Meloidogynidae; Columbia root-knot nematode	II	<i>Daucus carota</i> (wortel, carrot), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Medicago sativa</i> (alfalfa, lucene), <i>Solanum tuberosum</i> (kentang, potato) <i>Vigna</i> spp. (buncis, cowpea), <i>Pisum sativum</i> (kapri, sweet pea), <i>Scorzonera hispanica</i> (oyster plant), <i>Zea mays</i> (jagung, corn), <i>Chenopodium quinoa</i> (quinoa), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Avena sativa</i> (oat, oats), <i>Beta vulgaris var. saccharifera</i> (bit gula,	root, bulb, tuber, corm, seedling, soil	Africa: South Africa America: Argentina, Mexico, USA. Asia: Turkey Europe: Belgium, Germany, Netherland, France, Italy, Portugal

			sugarbeet), <i>Hordeum vulgare</i> (barli, barley), Poaceae, <i>Triticum aestivum</i> (gandum, wheat)		
39.	<i>Meloidogyne coffeicola</i> Lordello & Zamith; Meloidogynidae; coffeerootknot nematode	I: for unprocessed commodity. II: for processed commodity	<i>Coffea</i> spp. (kopi, coffee) Eupatorium (Asteraceae)	root, soil	America: Brazil
40.	<i>Meloidogyne decalineata</i> Whitehead; Meloidogynidae; African coffee rootknot nematode	I: for unprocessed commodity. II: for processed commodity	<i>Coffea</i> spp. (kopi, coffee)	root, soil	Africa: Tanzania, Sao Tome & Principe.
41.	<i>Meloidogyne exigua</i> Goeldi; (= <i>Heterodera exigua</i>); Meloidogynidae; coffee rootknot nematode, Brazilian pyroid coffee nematode, root-knot nematode	II	<i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium cepa</i> (bawang bombay, onion), <i>Bidens pilosa</i> (blackjack), <i>Citrus aurantium</i> (jeruk nipis, lime), <i>Citrullus vulgaris</i> (semangka, watermelon), <i>Capsicum annum</i> (paprika, bell-	bulb, tuber, corm, bonggol, root, soil	America: Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominica, El Salvador, French Guiana, Guatemala, Guadeloupe, Guyana, Honduras, Martini, Nicaragua, Puerto Rico, Peru, Suriname, Trinidad, Venezuela.

			pepper), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cyphomandra betacea</i> (tree tomato), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Musa</i> spp. (pisang, banana), <i>Oryza sativa</i> (padi, paddy), <i>Pilea</i> spp., <i>Poncirus trifoliata</i> (trifoliolate orange), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Solanum nigrum</i> (black nightshade), <i>Stachys arvensis</i> (staggerweed), <i>Coffea</i> spp. (kopi, coffee), <i>Ipomoea acuminata</i> .		
42.	<i>Meloidogyne fallax</i> Karssen; (= <i>Meloidogyne chitwoodi</i> (Baexem) B Type (van Maggelen et al 1994); Meloidogynidae; false Colombia root-knot nematode	I: for unprocessed commodity. II: for processed commodity	<i>Daucus carota</i> subsp. <i>sativus</i> (wortel, carrot), <i>Scorzonera hispanica</i> (oyster plant), <i>Solanum tuberosum</i> (Kentang, potato) <i>Arachis hypogea</i> (peanut) <i>Asparagus officinalis</i> (asparagus), <i>Beta vulgaris</i> (beetroot), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (bit gula, beet, sugarbeet), <i>Chenopodium album</i> (lambquarters), <i>Cynara scolynus</i> , <i>Cynara</i>	seedling, root, soil	America: USA Eropa: Belgium, France, Germany, Switzerland, Netherlands Oceania: Australia, New Zealand

			<p><i>cardunculus</i> var. <i>scolymus</i> (globeartichoke), <i>Dahlia</i> spp. (dahlia), <i>Fragaria</i> sp., <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Hemerocallis</i> sp. (daylily), <i>Lactuca sativa</i> (selada, lettuce), <i>Lamprocapnos spectabilis</i> (bleeding heart), <i>Lolium</i> sp., <i>Lolium perenne</i> subsp. <i>multiflorum</i> (ryegrass, Italian ryegrass), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Oenothera biennis</i>, <i>O. glazioviana</i> (primrose), <i>Phacelia tenacetifolia</i> (lacy phacelia), <i>Sinapsis alba</i> (mustard), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Triticum</i> sp., <i>T. aestivum</i>, <i>T. durum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn),</p>		
43.	<p><i>Meloidogyne minor</i> Karssen et al.; Meloidogynidae</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Lycopersicon esculentum</i> (tomat, tomato), <i>Solanum tuberosum</i> (kentang, potato) <i>Agrostis stolonifer</i> (creeping bentgrass)</p>	<p>root, bulb, tuber, corm, soil</p>	<p>America: USA Europe: Belgium, Ireland, Netherlands, UK</p>

44.	<i>Meloidogyne naasi</i> Franklinl; Meloidogynidae; rootknot nematode	II	<i>Hordeum vulgare</i> (barli, barley), <i>Trifolium repens</i> (white clover), <i>Triticum aestivum</i> (gandum, wheat), <i>Beta vulgaris</i> var. <i>sacchraifera</i> (bit gula, sugar beetroot), cerealea, <i>Glycine max</i> (kedelai, soyabean) Turfgrasses	root, bulb, tuber, corm, soil	America: USA Europe: France, Hungary, UK
45.	<i>Meloidogyne oteifae</i> Elm iligy; Meloidogynidae; rootknot nematode	I: for unproces sed commodit y. II: for processed commodit y	<i>Coffea</i> spp. (kopi, coffee), <i>Peuraria</i> spp.	root, soil	Africa: Angola, DR Congo
46.	<i>Nacobbus aberrans</i> (Thome) Thorne & Allen; (= <i>Nacobbus batatifomis</i> = <i>N.serendipiticus</i> <i>bolivianus</i> = <i>Pratylenchus aberrans</i> = <i>Nacobbus serendipiticus</i> = <i>Anguillulina aberrans</i>); Pratylenchidae; false rootknot nematode, potato rosery nematode	I: for unproces sed commodit y. II: for processed commodit y	<i>Solanum tuberosum</i> (kentang, potato), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Beta vulgaris</i> var. <i>sacchraifera</i> (bit gula, sugar beetroot), <i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica nigra</i> (black mustard), <i>Brassica oleracea</i> (kubis, flower kol, cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>gemmaifera</i>	bulb, tuber, corm, root, seedling, soil	Africa: Egypt America: Argentina, Bolivia, Chile, Ecuador, Mexico, Peru, USA Europe: Italy, Netherlands, Russia, UK

			<p>(Brussels sprouts), <i>Brassica oleracea</i> var. <i>gongylodes</i> (kohlrabi), <i>Brassica oleracea</i> var. <i>italica</i> (brokoli, broccoli), <i>Brassica oleracea</i> var. <i>viridis</i> (collards), <i>Brassica rapa</i> subsp. <i>Pekinensis</i> (petsai), <i>Amaranthus hybridus</i> (bayam, spinach), <i>Atriplex confertifolia</i>(shadscale saltbush), <i>Beta vulgaris</i> (bit, beetroot), <i>Chenopodium album</i>(fat hen), <i>Chenopodium quinoa</i> (quinoa), <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita maxima</i>(giant pumpkin), <i>Cucurbita pepo</i> (labu kuning, zucchini), <i>Daucus carota</i> (wortel, carrot), <i>Gaillardia</i> spp., <i>Kochia</i> spp., <i>Lactuca sativa</i> (selada, lettuce), <i>Opuntia</i> spp.(pricklypear), <i>Pisum sativum</i> (kapri, sweet pea), <i>Sisymbrium irio</i>(london rocket), <i>Solanum melongena</i> (terung, eggplant), <i>Spergula arvensis</i>(corn spurry),</p>	
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			<i>Spinacia oleracea</i> (spinach), <i>Tribulus terrestris</i> (puncture vine), <i>Tragopogon porrifolius</i> (oysterplant), <i>Solanum nigrum</i> (black nightshade), <i>Ullucus tuberosus</i> (ulluco)		
47.	<i>Paratrichodorus porosus</i> (Allen) Siddiqi; (= <i>Trichodorus porosus</i> = <i>T. Bucrius</i> = <i>Paratrichodorus (Atlantadorus)</i> <i>porosus</i> = <i>Atlantadorus porosus</i>); Trichodoridae	I: for unproces sed commodit y. II: for processed commodit y	<i>Allium cepa</i> (bawang bombay, onion), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Brassica rapa</i> subsp. <i>chinensis</i> (kubis, Chinese cabbage), <i>Camellia</i> , <i>Camellia sinensis</i> (teh, tea), <i>Citrus jambhiri</i> (rough lemon), <i>Citrus limon</i> (jeruk lemon, lemon), <i>Citrus reticulata</i> (jeruk mandarin, mandarin), <i>Citrus sinensis</i> (jeruk manis, navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Dioscorea</i> (yam), <i>Dioscorea batatas</i> (Chinese yam), <i>Juglans regia</i> (walnut), <i>Lycopersicon peruvianum</i> , <i>Musa</i> (pisang, banana), <i>Musa x paradisiaca</i> (pisang kepok, plantain), <i>Prunus armeniaca</i> (apricot), <i>Prunus persica</i> (peach), <i>Pyrus communis</i> (European pear), <i>Rubus</i>	seedling, bulb, tuber, corm, bonggol, root, soil sebagai Vector: Tobravirus	Africa: South Africa America: USA, Brazil, Chile, Costa Rica Asia: China, India, Iran, Japan, South Korea, Srilanka, Uzbekistan, Vietnam Europe: Italy,Portugal, Russia Oceania: Australia, Papua New Guinea

			<p> <i>loganobaccus</i> (loganberry), <i>Saccharumofficinarum</i> (tebu, sugarcane), <i>Sorghum</i> <i>bicolor</i> (sorgum, sorghum), <i>Tagetes erecta</i> (African marigold), <i>Tagetes patula</i> (French marigold), <i>Vitis</i> <i>vinifera</i> (anggur, grapevine), <i>Zea mays</i> (jagung, corn) <i>Abelmoschus esculentus</i> (okra, okra), <i>Allium sativum</i> (bawang putih, garlic), <i>Bambusa vulgaris</i> (bambu, common bamboo), <i>Cucurbita maxima</i> (giant pumpkin), <i>Eucalyptus</i> (Eucalyptus tree), <i>Ficus</i> <i>carica</i> (fig), <i>Gardenia</i>, <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium</i> (kapas, cotton), <i>Lagerstroemia indica</i> (indian crape myrtle), <i>Lupinus</i> (lupins), <i>Malus domestica</i> (apel, apple), <i>Morus alba</i> (mora), <i>Olea europaea</i> subsp. <i>europaea</i> (zaitun, olive), <i>Persea americana</i> (avokad, avocado), <i>Poncirus</i> <i>trifoliata</i> (Trifoliolate orange), <i>Prunus domestica</i> (plum), <i>Prunus mahaleb</i> (mahaleb </p>	
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			<p>cherry), <i>Prunus salicina</i> (Japanese plum), <i>Rhododendron</i> (Azalea), <i>Rosa</i> (mawar, roses), <i>Acer palmatum</i> (Japanese maple), <i>Aphananthe aspera</i> (muku), <i>Aucuba japonica</i> (Japanese aucuba), <i>Bambusa tuldoides</i> (punting-pole bamboo), <i>Butia</i>(jelly palm), <i>Callicarpa japonica</i>(Japanese callicarpa), <i>Carpinus tschonoskii</i>, <i>Castanea crenata</i> (Japanese chestnut), <i>Castanopsis cuspidata</i> (chinkapin), <i>Casuarina</i> (beefwood), <i>Casuarina equisetifolia</i> (casuarina), <i>Celtis sinensis</i> (Chinese elm), <i>Cercidiphyllum japonicum</i> (katsura), <i>Cinnamomum camphora</i> (camphor laurel), <i>Cleyera japonica</i>, <i>Cryptomeria japonica</i> (Japanese cedar), <i>Daphniphyllum macropodum</i>, <i>Fatsia japonica</i> (Japanese aralia), <i>Ginkgo biloba</i> (kew tree), <i>Idesia polycarpa</i> (idesia),</p>	
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			<p><i>Ilex crenata</i> (Japanese holly), <i>Ilex integra</i> (mochi), <i>Ilex rotunda</i> (kurogane holly), <i>Juniperus</i> (junipers), <i>Magnolia hypoleuca</i> (Japanese big-leaved magnolia), <i>Musa acuminata</i> (wild banana), <i>Neolitsea sericea</i>, <i>Pinopsida</i> (conifers), <i>Pinus densiflora</i> (Japanese umbrella pine), <i>Pinus pseudostrobus</i> var. <i>pseudostrobus</i>, <i>Pinus thunbergii</i> (Japanese black pine), <i>Pittosporum tobira</i> (Japanese pittosporum), <i>Pyrus amygdaliformis</i>, <i>Quercus acutissima</i> (sawtooth oak), <i>Quercus glandulifera</i> (Glandbearing oak), <i>Quercus salicina</i>, <i>Rhododendron indicum</i> (Satsuki azalea), <i>Taxus cuspidata</i> (Japanese yew), <i>Ternstroemia gymnanthera</i>, <i>Viburnum odoratissimum</i></p>		
48.	<p><i>Pratylenchus goodeyi</i> Sher & Allen; (= <i>Anguillulina musicola</i> = <i>Tylenchus musicola</i>); Pratylenchidae; banana lesion nematode</p>	<p>I: for unprocessed commodity. II: for</p>	<p><i>Musa</i> spp. (pisang, banana), <i>Musa xparadisiaca</i> (pisang kepok, plantain) <i>Zea mays</i> (jagung, corn), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Vigna</i> spp.</p>	<p>bulb, tuber, corm, bonggol, seedling, root, soil</p>	<p>Africa: Burundi, Cameroon, Canary Island, Egypt, Ethiopia, Kenya, Rwanda, Tanzania, Uganda. Europe: Greece, Portugal,</p>

		processed commodity	(kacang panjang, cowpea), <i>Commelina benghalensis</i> (wandering jew), <i>Sesbania grandiflora</i> (turi, agati), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum)		Spain Oceania: Australia
49.	<i>Pratylenchus neglectus</i> (Rensch)Fili&Schuur.Steekh.; Pratylenchidae; California root lesion nematode, California meadow nematode	I: for unprocessed commodity. II: for processed commodity	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), <i>Agropyron cristatum</i> (crested wheatgrass), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Fragaria</i> (stroberi, strawberry), <i>Malus domestica</i> (apel, apple), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Solanum tuberosum</i> (kentang, potato), <i>Pistacia vera</i> (pistachio)	root, stolon, bulb, tuber, corm, soil	Africa: Morocco, South Africa America: Canada, Mexico, USA Asia: Japan, Pakistan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan Europe: Croatia, Estonia, Italy, Poland, Armenia, Azerbaijan, Belarus, Georgia, Latvia, Lithuania, Moldova, Ukraine, Russia, Spain Oceania: Australia
50.	<i>Pratylenchus scribneri</i> Steiner; Pratylenchidae; lesion nematode	I: for unprocessed commodity. II: for processed commodity	<i>Gossypium barbadens</i> (kapas, cotton), <i>Malus domestica</i> (apel, apple), <i>Mentha spicata</i> (Spear mint), <i>Parthenium argentatum</i> (Guayule), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum</i>	root, bulb, tuber, corm, stolon, soil	Africa: Cameroon America: South America, USA, Mexico. Asia: Pakistan, Japan, India, Israel, Turkey Europe: Bulgaria, Sweden, Italy

		y	<i>halepense</i> (Johnson grass), <i>Zea mays</i> (jagung, corn), <i>Fragaria vesca</i> (stroberi, strawberry), <i>Hippeastrum</i> spp. (amarilis, amaryllis).		
51.	<i>Pratylenchus thornei</i> Sher. & Allen; Pratylenchidae; Thorne's root lesion nematode	I: for unproces sed commodit y. II: for processed commodit y	<i>Cicer arietinum</i> (chickpea), <i>Pinus merkusii</i> (tusam, pinetree), <i>Triticum aestivum</i> (gandum, wheat), <i>Quercus</i> spp., <i>Zea mays</i> (jagung, corn), <i>Rosa</i> spp. (mawar, rose), Fabaceae, <i>Agrostis</i> spp.(bentgrasses), <i>Allium</i> <i>ascalonicum</i> (bawang merah, shallot), <i>Apium</i> <i>graveolens</i> (seledri, celery), <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Avena</i> <i>sativa</i> (oat, oats), <i>Beta</i> <i>vulgaris</i> (bit, beetroot), <i>Citrullus vulgaris</i> (semangka, watermelon), <i>Cupressus</i> spp.(cypresses), <i>Cynara scolymus</i> (artichoke), <i>Daucus carota</i> (wortel, carrot), <i>Fragaria</i> <i>vesca</i> (stroberi, strawberry), <i>Glycine max</i> (kedelai, soyabean), <i>Hordeum vulgare</i> (barli, barley), <i>Iberis</i> spp.(candytuft), <i>Juglans</i>	root, bulb, tuber, corm, pod, stolon, seedling, stem, soil	Africa: Egypt, Kenya, Libya, Malawi, Morocco, South Africa, Sudan, Tunisia America: Canada, Argentina, Mexico, USA, Chile, Venezuela Asia: Afghanistan, India, Iran, Israel, Japan, Jordan, Pakistan, Saudi Arabia, Syria, Turkey Europe: Belgium, Bulgaria, Netherlands, Croatia, Cyprus, Denmark, Serbia, Slovenia, Slovakia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Germany, Greece, Italy, Portugal, Russia, Spain, UK Oceania: Australia.

			<p><i>regia</i> (walnut), <i>Lens esculenta</i> (lentil), <i>Lathyrus odoratus</i>(sweet pea), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Mentha piperita</i>(Peppermint), <i>Mentha spicata</i>(Spear mint), <i>Vigna</i> spp. (kacang panjang, cowpea), <i>Pisum sativum</i> (kapri, sweet pea), <i>Prunus</i> spp.(stone fruit), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Trifolium</i> spp., <i>Vicia faba</i>(faba bean), <i>Vigna cylindrica</i> (kacang tunggak, long bean), <i>Vitis vinifera</i> (anggur, grapevine), <i>Brassica oleracea</i> (cabbages, cauliflowers)</p>		
52.	<p><i>Pratylenchus vulnus</i> (Allen & Jensen); Pratylenchidae; walnut root lesion nematode; root lesion nematode; meadow nematode</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Actinidia arguta</i> (tara vine), <i>Actinidia deliciosa</i> (kiwi, kiwifruit), <i>Araucaria araucana</i> (monkey puzzle), <i>Bambusa</i> sp. (bambu, bamboo), <i>Berberis thunbergii</i> (Japanese barberry), <i>Brassica oleracea</i></p>	<p>root, stolon, seedling, bulb, tuber, corm, soil, stem, kulit kayu</p>	<p>Africa: Cameroon, Egypt, Kenya, R�union America: Argentina, Brazil, Cuba, Canada, USA, Uruguay Asia: China, India, Iran, Israel, Japan, Philippines, South Korea, North Korea,</p>

		y	<p><i>var. capitata</i> (kubis, cabbage), <i>Buxus sempervirens</i> (common boxwood), <i>Carya illinoensis</i> (pecan), <i>Citrus aurantium</i> (sour orange), <i>Citrus sinensis</i> (jeruk manis, navel orange), <i>Citrus x paradisi</i> (grapefruit), <i>Corylus avellana</i> (hazel), <i>Crotalaria juncea</i> (sunn hemp), <i>Crotalaria spectabilis</i> (Showy rattlepod), <i>Cydonia oblonga</i> (quince), <i>Cytisus scoparius</i> (broom), <i>Daucus carota</i> (wortel, carrot), <i>Eriobotrya japonica</i> (loquat), <i>Ficus carica</i> (ara), <i>Forsythia intermedia</i> (Golden bells), <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Gossypium hirsutum</i> (kapas, Bourbon cotton), <i>Hamamelis</i> (witchhazel), <i>Impatiens balsamina</i> (garden balsam), <i>Juglans hindsii</i> (californian black walnut), <i>Juglans major</i> (arizona walnut), <i>Juglans microcarpa</i> (River walnut tree), <i>Juglans nigra</i> (black</p>	<p>Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan, uzbekistan, Pakistan, Sri Lanka Europe: Belgium, Bulgaria, Denmark, Finland, France, Germany, Greece, Italy, Netherlands, Norway, Russia, Spain, UK, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Latvia, Lithuania, Moldova, Ukraine Oceania: Australia, New Zealand</p>
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			<p>walnut), <i>Juglans regia</i> (walnut), <i>Juniperus chinensis</i> (Chinese juniper), <i>Lathyrus odoratus</i> (sweet pea), <i>Ligustrum ovalifolium</i> (california privet), <i>Lilium longiflorum</i> (Easter lily), <i>Lilium speciosum</i> (Showy lily), <i>Lotus corniculatus</i> (bird's-foot trefoil), Mahonia (holly grape), <i>Malus sylvestris</i> (crab-apple tree), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Melilotus alba</i> (honey clover), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Olea europaea subsp. europaea</i> (zaitun, olive), <i>Papaver somniferum</i> (Opium poppy), <i>Persea americana</i> (avokad, avocado), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Pistacia vera</i> (pistachio), <i>Pisum sativum</i> (kapri, sweet pea), <i>Prunus amygdalus</i>, <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus besseyi</i> (bessey cherry), <i>Prunus</i></p>		
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			<p><i>cerasifera</i> (myrobalan plum), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus persica</i> (persik, peach), <i>Pterocarya stenoptera</i> (chinese wing nut), <i>Pyrus communis</i> (European pear), Rosa (roses), <i>Rosa canina</i> (Dog rose), <i>Rosa chinensis</i> (China rose), <i>Rosa multiflora</i> (Multiflora rose), Rubus (blackberry, raspberry), <i>Rubus idaeus</i> (raspberry), <i>Taxus baccata</i> (English yew), <i>Vicia benghalensis</i> (purple vetch), <i>Vicia faba</i> (kacang babi, broad bean), <i>Vigna catjang</i>, <i>Vitis rupestris</i> (sand-grape), <i>Vitis vinifera</i> (grapevine), <i>Zea mays</i> (jagung, corn)</p>		
53.	<p><i>Punctodera punctata</i> (Thorne) Mulvey & Stone; (= <i>Heterodera punctata</i>); Heteroderidae; grass cyst nematode, grass cyst eelworm</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Agrostis stolonifera</i> var. <i>Palustris</i> (bent grass), <i>Agrostis stolonifera</i> (creeping bentgrass), <i>Agrostis capillaris</i> (brown bentgrass), <i>Festuca rubra</i> (red fescue), <i>Lolium perenne</i> (perennial ryegrass), <i>Poa</i></p>	<p>root, seedling, soil</p>	<p>Africa: Morocco America: Argentina, Canada, Chile, Mexico, USA. Asia: Israel, Japan Europe: Austria, Belgium, Czech Republic, Croatia, Denmark, Estonia,</p>

		y	<i>annua</i> (annual meadowgrass), <i>Poa pratensis</i> (smooth-stalked meadowgrass), Turfgrasses <i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barli, barley), <i>Triticum aestivum</i> (gandum, wheat)		Finland, France, Serbia, Slovenia, Bosnia and Herzegovina, Montenegro, Macedonia, Germany, Greece, Iceland, Ireland, Italy, Latvia, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK
54.	<i>Radopholus citrophilus</i> Huettel, <i>et al.</i> ; (= <i>Radopholus similis</i> citrus race); Pratylenchidae; burrowing nematode, spreading decline of citrus	I: for unprocessed commodity. II: for processed commodity	<i>Citrus</i> spp. (jeruk, orange)	seed, soil	America: USA
55.	<i>Scutellonema bradys</i> (Steiner & Le Hew) Andrassy; (= <i>Anguillulina bradys</i> = <i>Hoplolaimus bradys</i> = <i>Rotylenchus blaberus</i> = <i>R. bradys</i> = <i>Scutellonema blaberum</i> = <i>S. dioscorea</i>); Hoplolaimidae; yam dry rot nematode, yam nematode	I: for unprocessed commodity. II: for processed commodity	<i>Dioscorea</i> spp. (yam), <i>Vigna cylindrica</i> (kacang tunggak, long bean), <i>Zea mays</i> (jagung, corn), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Quercus</i> spp. <i>Abelmoschus moschatus</i> (okra, lady's finger), <i>Ananas comosus</i> (nenas, pineapple), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Cocos nucifera</i> (kelapa, coconut), <i>Celosia argentea</i> (celosia	bulb, tuber, corm, seedling, root, soil	Africa: Benin, Burkina Faso, Cameroon, Ivory Coast, Gambia, Ghana, Guinea, Mali, Nigeria, Senegal, Sudan, Togo America: Barbados, Brazil, Costari Rica, Cuba, Dominica, Dominican republic, Guadeloupe, Guatemala, Haiti, Jamaica, Martinique, Puerto Rico, Trinidad and Tobago, USA, Venezuela

			argentea), <i>Corchorus olitorius</i> (jute), <i>Hibiscus cannabinus</i> (kenaf), <i>Hibiscus sabdariffa</i> (jamaica sorrel), <i>Luffa acutangula</i> (gambas, angled loofa), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Pachyrhizus erosus</i> (bangkuang, yam-bean), <i>Vigna radiata</i> (kacang hijau, mungbean), <i>Pueraria phaseoloides</i> (tropical kudzu), <i>Sesamum indicum</i> (wijen, sesame), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Urena lobata</i> (caesar weed), <i>Synedrella nodiflora</i> (synedrella)		Asia: India, Pakistan
56.	<i>Trichodorus similis</i> Seinhorst; Trichodoridae; stubby root nematode	I: for unprocessed commodity. II: for processed commodity	<i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Beta vulgaris</i> var. <i>saccharifera</i> (bit gula, sugarbeetroot), <i>Dioscorea batatas</i> (Chinese yam), <i>Nicotiana tabacum</i> (tembakau, tobacco)	root, bulb, tuber, corm, soil sebagai Vector: <i>Tobacco rattle virus</i>	America: USA. Asia: Turkey Europe: Belgium, Bulgaria, Czech Republic, Netherlands, France, Germany, Italy, Norway, Poland, Sweden, UK
57.	<i>Trichodorus viruliferus</i> Hooper; Trichodoridae; stubby root nematode	I: for unprocessed commodity.	<i>Beta vulgaris</i> var. <i>saccharifera</i> (bit gula, sugarbeetroot), <i>Hordeum vulgare</i> (barli, barley),	root, bulb, tuber, corm, soil sebagai	America: USA Europe: Belgium, Bulgaria, Czech Republic, France, Germany, Hungary, Italy, Netherlands, Poland,

		II: for processed commodity	<i>Malus domestica</i> (apel, apple), <i>Pisum sativum</i> (kapri, sweet pea), <i>Secale cereale</i> (rye), <i>Solanum tuberosum</i> (kentang, potato), <i>Vitis vinifera</i> (anggur, grapevine), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn)	Vector: <i>Pea early browning virus</i> , <i>Tobacco rattle virus</i>	Slovakia, Spain, Sweden, Switzerland, UK
58.	<i>Tylenchorhynchus claytoni</i> Steiner; (= <i>Tesselus claytoni</i>) Dolichodoridae; stunt nematode; tobacco stunt nematode	I: for unprocessed commodity. II: for processed commodity	<i>Arachniodes adiantiformis</i> (Leatherleaf fern), <i>Avena sativa</i> (oats), Azaleas, <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium sp.</i> (kapas, cotton), <i>Lolium</i> (ryegrasses), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Nandina</i> , <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Olea europaea</i> subsp. <i>europaea</i> (zaitun, olive), <i>Oryza sativa</i> (padi, paddy, rice), Peony, <i>Photinia glabra</i> , <i>Pinus resinosa</i> (red pine), <i>Pisum sativum</i> (kapri, sweet pea), Poaceae (grasses), <i>Prunus persica</i> (peach), <i>Rhododendron</i> (Azalea), <i>Rhododendron indicum</i> (Satsuki azalea), <i>Rhododendron japonicum</i>	root, seedling, bulb, tuber, corm, pod, soil	Africa: South Africa America: Honduras, Canada, USA, Asia: Bangladesh, China, Japan, India, Turkey, Korea Europe: Belgium, Bulgaria, Cyprus, Denmark, Germany, Italy, Netherlands, Switzerland, UK, Poland Oceania: Australia

			<p>(Japanese azalea), <i>Rhododendron obtusum</i> (Kirishima azalea), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Secale cereale</i> (rye), <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium</i> spp., <i>Zea mays</i> (jagung, corn) <i>Arachis hypogaea</i> (kacang tanah, groundnut), <i>Aucuba japonica</i> (Japanese aucuba), <i>Cajanus cajan</i> (kacang gude, pigeon pea), <i>Citrus aurantium</i> (sour orange), <i>Citrus limon</i> (lemon, lemon), <i>Citrus x paradisi</i> (grapefruit), <i>Eleusine coracana</i> (finger millet), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Litchi chinensis</i> (leci, lichi), <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Picea abies</i> (common spruce), <i>Pinus echinata</i> (shortleaf pine), <i>Pinus elliottii</i> (slash pine), <i>Pinus palustris</i> (longleaf pine), <i>Pinus taeda</i> (loblolly pine), <i>Rubus</i> (blackberry, raspberry), <i>Rubus fruticosus</i> (blackberry), <i>Solanum</i></p>	
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			<p><i>melongena</i> (terong, eggplant), <i>Vaccinium myrtillus</i> (blueberry), <i>Agrostis stolonifera</i> var. <i>palustris</i> (bent grass), <i>Arctium lappa</i> (burdock), <i>Bouteloua curtipendula</i> (Side-oats grama), <i>Bouteloua gracilis</i> (blue grama), <i>Camellia japonica</i> (camellia), <i>Chamaecyparis pisifera</i> (sawara false cypress), <i>Cynodon dactylon</i> (Bermuda grass), <i>Echinochloa colona</i> (junglerice), <i>Enkianthus perulatus</i> (white enkianthus), <i>Erica</i> (heaths), <i>Festuca</i> (fescues), <i>Festuca arundinacea</i> (reed fescue), <i>Osmanthus fragrans</i>, <i>Pieris japonica</i> (Lily-of-the-valley shrub), <i>Poa pratensis</i> (smooth-stalked meadowgrass)</p>		
59.	<p><i>Xiphinema americanum</i> Cobb.; (= <i>Tylencholaimus americanus</i> = <i>Xiphinema taylori</i> = <i>Xiphinema californicum</i>); Xiphinematidae; American dagger nematode, tobacco ring spot nematode</p>	<p>I: for unprocessed commodity. II: for processed</p>	<p><i>Citrus</i> spp. (jeruk, orange), <i>Coffea</i> spp. (kopi, coffee), <i>Malus domestica</i> (apel, apple), <i>Rubus idaeus</i> (raspberry), <i>Vaccinium</i> spp. (blueberries), <i>Vitis vinifera</i> (anggur,</p>	<p>root, seedling, stolon, bulb, tuber, corm, soil. sebagai</p>	<p>Africa: Nigeria, Senegal America: Argentina, Brazil, Canada, Chile, Ecuador, Guatemala, Mexico, Panama, Peru, USA, Uruguay, Venezuela, Argentina,</p>

		commodity	<p>grapevine), <i>Zea mays</i> (jagung, corn), <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Avena sativa</i> (oat, oats), <i>Cocos nucifera</i> (kelapa , coconut), <i>Citrus sinensis</i> (jeruk manis, navel orange), <i>Ficus carica</i> (ara), <i>Fragaria vesca</i> (stroberi, strawberry), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium barbadens</i> (kapas, cotton), <i>Juglans regia</i> (walnut), <i>Dimocarpus litchii</i> (leci, lychee), <i>Linum usitatissimum</i>(flax), <i>Mangifera indica</i> (mangga, mango), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Oryza sativa</i> (padi, paddy), <i>Prunus</i> spp. (stone fruit), <i>Psidium guajava</i> (jambu seed, guava), <i>Rubus</i> spp.(blackberry, raspberry), <i>Saccharumofficinarum</i> (tebu, sugarcane), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Vaccinium</i> spp.(blueberries), <i>Vitis vinifera</i> (anggur,</p>	<p>Vector:<i>Tobacco ring spot virus</i>, <i>Tomato ring spot virus</i>, <i>Peach yellow bud virus</i>, <i>Cherry rasp leaf virus</i></p>	<p>Asia: China, India, Japan, Kazakhtan, North Korea, Oman, Pakistan, Philippines, Sri Lanka, Tajikistan, Turkey, Uzbekistan Europe: Hungary, Poland, Russia, Spain, UK Oceania: Australia.</p>
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			<p>grapevine), <i>Coffea canephora</i> (kopi robusta, robusta coffee), <i>Cucurbita pepo</i> (ornamental gourd), <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium hirsutum</i> (bourbon cotton), <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Malus sylvestris</i> (crab-apple tree), <i>Mangifera indica</i> (mangga, mango), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Pistacia vera</i> (pistachio), Polyphagous, <i>Prunus</i> (stone fruit), <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (persik, peach), <i>Prunus salicina</i> (Japanese plum), <i>Rubus</i> (blackberry, raspberry), <i>Rubus idaeus</i> (raspberry), <i>Zea mays</i> (jagung, corn) <i>Mentha</i> spp. (mints), <i>Pinus</i> spp. (pines), <i>Achras</i> (= <i>Manilkara</i>) <i>zapota</i> (sawo,</p>	
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			<p>sapodilla), <i>Onobrychis viciifolia</i>(sainfoin), <i>Petunia hybrida</i>, <i>Picea</i> spp., <i>Plantago</i> spp. (plantain), <i>Poncirus trifoliata</i>(Trifoliolate orange), <i>Potentilla</i> spp.(Cinquefoil), <i>Rosa</i> spp. (mawar, rose), <i>Shorea robusta</i>(sal), <i>Tectona grandis</i> (jati, teakwood), <i>Trifolium</i> spp. (clovers), <i>Zoysia japonica</i>(zoysiagrass), <i>Agropyron</i> spp., <i>Codiaeum variegatum</i>(croton), <i>Callicarpa americana</i>(American beautyberry), <i>Nerium oleander</i>(oleander), <i>Acer platanoides</i>(Norway maple), <i>Agropyron cristatum</i>(crested wheatgrass), <i>Agropyron desertorum</i>(crested wheatgrass (USA)), <i>Anethum graveolens</i>(dill), <i>Bambusa</i> (bamboo), <i>Bambusa tuldoides</i>(punting-pole bamboo), <i>Callicarpa americana</i> (American beautyberry), <i>Cichorium intybus</i> (chicory), <i>Codiaeum variegatum</i> (croton),</p>	
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			<p><i>Cydonia oblonga</i>(quince), <i>Manilkara zapota</i> (sapodilla), <i>Nerium oleander</i>(oleander), <i>Onobrychis viciifolia</i> (sainfoin), <i>Petunia hybrida</i>, <i>Picea glauca</i>(white spruce), <i>Picea pungens</i>(blue spruce), Plantago (Plantain), <i>Poncirus trifoliata</i>(Trifoliata orange), Potentilla(Cinquefoil), Rosa (mawar, roses), <i>Shorea robusta</i> (sal), <i>Tectona grandis</i> (teak), Trifolium (clovers), <i>Trifolium pratense</i> (purple clover), <i>Trifolium repens</i> (white clover), <i>Zoysia japonica</i> (zoysiagrass)</p>		
60.	<p><i>Xiphinema diversicaudatum</i> (Micoletzky) Thorne; (= <i>Dorylaimus (Longidorus) diversicaudatus</i> = <i>D. elongatus</i> = <i>Longidorus diversicaudatus</i> = <i>Xiphinema (Diversiphinema) diversicaudatum</i> = <i>X. amarantum</i> = <i>X. basiri</i> = <i>X. israeliae</i> = <i>X. paraelongatum</i> = <i>X. sahelense</i> = <i>X. seredouense</i>); Xiphinematidae; dagger nematode</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Beta vulgaris</i> (bit, beetroot), <i>Fragaria ananassa</i> (stroberi, strawberry), <i>Prunus</i> spp., <i>Rosa</i> spp. (mawar, rose), <i>Rubus fruticosus</i>(blackberry), <i>Rubus idaeus</i> (raspberry), <i>Vitis vinifera</i> (anggur, grapevine) <i>Prunus salicina</i> (Japanese plum), <i>Acer pseudoplatanus</i> (sycamore), <i>Allium porrum</i> (bawang leaf, leek), <i>Brassica oleracea</i> (kubis, flower kol,</p>	<p>root, bulb, tuber, corm, stolon, seedling, soil sebagai Vector: <i>Arabis mosaic virus</i> <i>Strawberry latent ringspot</i></p>	<p>Africa: Algeria, South Africa America: USA Asia: Turkey Australia: New Zealand Europe: Austria, Belgium, Bulgaria, Netherlands, Bulgaria, Croatia, Czech Republic, Denmark, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Ireland,</p>

			cabbage, cauliflower), <i>Chamaecyparislawsoniana</i> (Port Orford cedar), <i>Chamomilla suaveolens</i> (Rounded chamomile), <i>Chrysanthemum coronarium</i> (garland chrysanthemum), <i>Crataegus laevigata</i> , <i>Cucumis sativus</i> (mentimun, cucumber), <i>Daucus carota</i> (wortel, carrot), <i>Fagus sylvatica</i> (common beech), <i>Fraxinus excelsior</i> (ash), <i>Hordeum vulgare</i> (barli, barley), <i>Lactuca sativa</i> (selada, lettuce), <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Malus sylvestris</i> (crab-apple tree), <i>Mentha arvensis</i> (corn mint), <i>Pisum sativum</i> (kapri, sweet pea), <i>Pyrus communis</i> (European pear), <i>Sambucus nigra</i> (elder), <i>Senecio vulgaris</i> , <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium pratense</i> (purple clover), <i>Tussilago farfara</i> (Colt's-foot), Veronica(Speedwell)	<i>virus</i>	Italy, Moldova, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK
61.	<i>Xiphinema index</i> Thorne & Allen;(= <i>Diversiphinema index</i>);	I: for unproces	<i>Vitis vinifera</i> (anggur, grapevine), <i>Ficus carica</i>	root, bulb, tuber, corm,	Africa: Algeria, South Africa, Tunisia

<p>Xiphinematidae; dagger nematode, fan-leaf virus nematode</p>	<p>sed commodity. II: for processed commodity</p>	<p>(ara, fig), <i>Muscadinia rotundifolia</i> (monkhood-vine), <i>Vitis</i> spp. <i>Citrus</i> spp. (jeruk, orange), <i>Ampelopsis aconitifolia</i> (monkhood-vine), <i>Anacardium occidentale</i> (jambu mete, cashew-nut), <i>Citrus aurantium</i> (jeruk nipis, lime), <i>Cydonia oblonga</i> (kwinsi, quince), <i>Juglans regia</i> (walnut), <i>Jasminum officinale</i>, <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Malus sylvestris</i> (crab-apple tree), <i>Morus alba</i> (mora), <i>Olea europaea subsp. europaea</i> (zaitun, olive), <i>Opuntia</i> sp. (pricklypear), <i>Parthenocissus tricuspidata</i>, <i>Petunia hybrida</i>, <i>Vigna</i> spp. (buncis, cowpea), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Pistacia mutica</i>, <i>Pistacia vera</i> (pistachio), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus</i> spp., <i>Pyrus communis</i> (pir, pear), <i>Rosa</i> spp. (mawar, rose),</p>	<p>seedling, soil sebagai Vector: <i>Grapevine fanleaf virus</i></p>	<p>America: Argentina, Brazil, Chile, Peru, USA Asia: Armenia, Azerbaijan, Georgia, India, Iran, Iraq, Israel, Lebanon, Pakistan, Tajikistan, Turkey, Turkmenistan, Uzbekistan Europe: Albania, Austria, Bulgaria, Croatia, Cyprus, Czech, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Malta, Moldova, Poland, Portugal, Romania, Russia, Slovakia, Spain, Switzerland, Ukraine Oceania: Australia, New Zealand.</p>
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			<p><i>Solanum tuberosum</i> (kentang, potato), <i>Betula</i> (birches), <i>Chenopodium giganteum</i> (large lambsquarters), <i>Chenopodium quinoa</i> (quinoa), <i>Cupressus pyramidalis</i>, <i>Fagus silvaticus</i>, <i>Gomphrena globosa</i> (Globe amaranth), <i>Nicotiana rustica</i> (wild tobacco), <i>Pinus halepensis</i> (Aleppo pine), <i>Pinus</i> sp. (pine), <i>Populus</i> sp. (poplar), <i>Quercus lucombeana</i>, <i>Solanum nigrum</i> (black nightshade), <i>Thuja</i>, <i>Urtica urens</i> (annual nettle), <i>Vitis rupestris</i> (sand-grape)</p>		
62.	<i>Xiphinema italiae</i> Meyl.; Xiphinematidae; dagger nematode	I: for unprocessed commodity. II: for processed commodity	<p><i>Citrus</i> spp., <i>Vitis vinifera</i> (anggur, grapevine), <i>Olea europea</i> subsp. <i>europea</i> (zaitun, olive)</p>	<p>root, soil sebagai Vector: <i>Grap evine fanleaf virus</i></p>	<p>Africa: Egypt, Cameroon, Libya, Nigeria, South Africa, Tunisia. Europe: Greece, Italy, Spain</p>

V. GULMA (WEEDS)

No	NAMA ILMIAH/	GOLONGA	MEDIA PEMBAWA/	DAERAH ASAL/
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	SINONIM/ KLASIFIKASI/ NAMA UMUM/ SCIENTIFIC NAME/ SYNONYM/ TAXON/ COMMON NAME	N/ GROUP	PATHWAY	GEOGRAPHICAL DISTRIBUTION
1.	<i>Agropyron repens</i> (L.) Beauv.; (<i>Elymus repens</i> = <i>Elytrigia repens</i> = <i>Triticum</i> <i>repens</i>); Poaceae; quack grass, couch grass, quick grass, rope twich, scotch quelch, dog grass, twich grass, wikens, wicks	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Avena sativa</i> (oat, oats), <i>Beta</i> <i>vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beet), <i>Brassica</i> spp., <i>Daucus</i> <i>carota</i> (wortel, carrot), <i>Helianthus</i> <i>annuus</i> (bunga matahari, sunflower), <i>Hordeum vulgare</i> (barli, barley), <i>Linum usitatissimum</i> , <i>Medicago sativa</i> , Pastures, <i>Phaseolus</i> spp., <i>Pisum sativum</i> (kapri, sweet pea), Poaceae(grasses), <i>Secale cereale</i> (rye), <i>Solanum</i> <i>tuberosum</i> (kentang, potato), <i>Trifolium</i> (clover), <i>Zea mays</i> (jagung, corn, maize),	Africa: Egypt, Nigeria America: Argentina, Canada, Ecuador, USA Asia: Afghanistan, Armenia, Bangladesh, Georgia, India, Iran, Israel, Japan, Kazakhstan, Mongolia, Pakistan, Turkey Europe: Austria, Belarus, Belgium, Bulgaria, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Netherland, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand, Papua New Guinea
2.	<i>Alectra fulminensis</i> (Vell.) Stearn; Scrophulariaceae: <i>sugarcane weed</i>	II	<i>Saccharumofficinarum</i> (sugarcane)	America: Venezuela
3.	<i>Alectra orobanchoides</i> (Benth); (= <i>A. kirkii</i> Benth. Kick); Schropulariaceae; tobacco witch weed	II	Leguminoceae (kacang-kacangan)	Africa: Kenya
4.	<i>Alectra sessiliflora</i> (Vahl) Kuntze;	II	Leguminoceae (kacang-kacangan)	Africa: all Asia: India, Myanmar, China,

	Schropulariaceae; tobacco witch weed, yellow witch weed			Philippines
5.	<i>Alectra vogelli</i> (Benth); Schropulariaceae; cowpeawitch weed	II	<i>Vigna unguiculata</i> (kacang panjang, cowpea) <i>Arachis hypogaea</i> (kacang tanah, groundnut, peanut), <i>Glycine max</i> (kedelai, soybean), <i>Lablab purpureus</i> (hyacinth bean), <i>Mucuna pruriens</i> (Buffalobean), <i>Phaseolus acutifolius</i> (tepany bean), <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus radiata</i> , <i>Phaseolus vulgaris</i> (common bean), <i>Voandzeia subterranea</i> (bambara groundnut)	Africa: South Africa, Central Africa, Mali, Kenya Europe: Switzerland
6.	<i>Alopecurus myosuroides</i> Hudson (= <i>A. agrestis</i> L); Poaceae; blackgrass, slender meadow foxtail, twitch grass, black twitch	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli, barley), <i>Brassica napus</i> var. <i>napus</i> , <i>Secale cereale</i> (rye) <i>Beta vulgaris</i> (bit gula, beetroot), <i>Allium cepa</i> (bawang bombay, onion), <i>Solanum tuberosum</i> (kentang, potato), <i>Zea mays</i> (jagung, corn, maize), <i>Malus</i> spp., <i>Prunus</i> (stone fruits), <i>Pyrus communis</i> (pir, pear)	Africa: Northern Africa America: Argentina, Bolivia, Canada, Mexico, Peru, USA, Uruguay Asia: Afghanistan, China, India, Iran, Iraq, Israel, Jordania, Lebanon, Pakistan, Turkey Europe: Albania, Austria, Belgium, Bulgaria, Czech Republic, Slovakia, Denmark, France, Corsica, Germany, Greece, Hungary, Italy, Macedonia, Netherland, Norway, Portugal, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, UK Oceania: Australia, New Zealand
7.	<i>Asphodelus fistulosus</i> (L.); (= <i>Asphodelus</i>	II	<i>Cicer arietinum</i> , <i>Linum usitatissimum</i> , <i>Nicotiana tabacum</i>	Africa: Algeria, Egypt, Mauritius, Morocco, Sudan

	<i>tenuifolius Cav.)</i> Asphodelaceae; onion weed, asphodelus, wild onion, onion-leafed, pink asphodel, asphodel		(tembakau, tobacco), <i>Pisum sativum</i> (kapri, sweet pea), <i>Solanum tuberosum</i> (kentang, potato), <i>Triticum aestivum</i> (gandum, wheat) <i>Beta vulgaris</i> (bit gula, beetroot), <i>Brassica juncea</i> var. <i>juncea</i> (Indian mustard), <i>Citrus</i> , <i>Gossypium hirsutum</i> (bourbon cotton), <i>Hordeum vulgare</i> (barli, barley), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Phoenix dactylifera</i> (kurma, date-palm), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Zea mays</i> (jagung, corn, maize)	America: Bolivia, Mexico, Peru, USA Asia: Afghanistan, Bangladesh, India, Iran, Iraq, Israel, Malaysia, Nepal, Oman, Pakistan, Saudi Arabia, Turkey, Yemen Europe: Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Greece, Italy, Portugal, Spain, Balearic Islands Oceania: Australia, New Zealand
8.	<i>Buchnera hispida</i> (Bunch.-Ham. ex D. Don); (= <i>Buchnera longifolia</i> Klotzsch. = <i>B. browniana</i> Schinz. = <i>B. macrocarpa</i> Hochst.) Orobanchaceae; karanji, marathi	II	<i>Sorghum bicolor</i> (cintel, sorghum), <i>Setaria italic</i> (jewawut, millet)	Africa: Southeast Africa Asia: India, Madagascar
9.	<i>Cirsium arvense</i> (L.) Scop.; (= <i>Cirsium incanum</i> = <i>C. lanatum</i> = <i>C. setosum</i> = <i>C. arvensis</i>); Asteraceae; california thistle, canada thistle, creeping thistle, field thistle	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Aeschynomene falcata</i> , <i>Avena sativa</i> (oat, oats), <i>Bromus</i> , <i>Brassica napus</i> var. <i>napus</i> , <i>Carthamus tinctorius</i> , <i>Coronilla varia</i> , <i>Dactylis glomerata</i> , <i>Fagopyron esculentum</i> , <i>Glycine max</i> (kedelai, soybean), <i>Gossypium barbadens</i> (kapas, cotton), <i>Helianthus annuus</i>	Africa: Angola, South Africa, Sudan, Swaziland, Tunisia, Zimbabwe America: North America (Canada, Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Northwest Territories, Nova Scotia, Ontario, Prince Edward Island, Quebec, Saskatchewan, Yukon Territory, Mexico, USA, Alaska,

		<p>(bunga matahari, sunflower), <i>Hordeum vulgare</i> (barli, barley), <i>Linum usitatissimum</i>, <i>Lotus corniculatus</i>, <i>Pinus merkusii</i> (tusam, pinetree), <i>Medicago sativa</i>, <i>Onobrychis viciifolia</i>, <i>Panicum miliaceum</i>, Phleum, <i>Pisum sativum</i> (kapri, sweet pea), <i>Poa</i>, <i>Polyphagous</i>, <i>Secale cereale</i> (rye), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Trifolium</i>, <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn, maize) <i>Allium cepa</i> (bawang bombay, onion), <i>Allium porrum</i> (bawangleaf,leek), <i>Allium sativum</i> (bawang putih, garlic), <i>Apium graveolens</i> (seledri, celery), <i>Arachis hypogaea</i> (kacang tanah, groundnut, peanut), <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Beta vulgaris var. saccharifera</i> (sugarbeet), <i>Brassica juncea var. juncea</i> (Indian mustard), <i>Brassica nigra</i> (black mustard), <i>Brassica oleracea</i> (kubis (cabbages),bunga kol(cauliflowers), <i>Brassica oleracea var. botrytis</i> (bunga kol,cauliflower), <i>Brassica oleracea var. italica</i> (brokoli,broccoli), <i>Brassica oleracea var. viridis</i> (collards), <i>Brassica rapa subsp.</i></p>	<p>Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming), South America (Chile), Brazil Asia: Afghanistan, Armenia, China, Georgia, India, Iran, Japan, Korea, Lebanon, Pakistan, Turkey, Turkmenistan Europe:Belgium, Bulgaria, Czech Republic, Denmark, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Iceland, Italy, Netherland, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Ukraine, UK, Ireland Oceania: Australia, New Zealand.</p>
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			<p> <i>rapa</i> (turnip), <i>Capsicum annuum</i> (paprika, bell-pepper, red pepper), <i>Chamomilla recutita</i> (common chamomile), <i>Cicer arietinum</i> (chickpea), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita maxima</i> (waluh, labuparang, pumpkin), <i>Cucurbita pepo</i> (labukuning, zucchini), <i>Daucus carota</i> (wortel, carrot), <i>Fragaria ananassa</i> (strawberry), <i>Lactuca sativa</i> (selada, lettuce), <i>Lagenaria siceraria</i> (bottle gourd), <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Petroselinum crispum</i> (peterseli, parsley), <i>Phaseolus</i> (beans), <i>Phaseolus lunatus</i> (lima bean), <i>Piper nigrum</i> (lada, pepper), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Pyrus communis</i> (pir, pear), <i>Raphanus sativus</i> (lobak, radish), <i>Rubus fruticosus</i> (blackberry), <i>Rubus idaeus</i> (raspberry), <i>Solanum melongena</i> (terong, eggplant, aubergine), <i>Solanum tuberosum</i> (kentang, potato), </p>	
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			<i>Spinacia oleracea</i> (bayam, spinach), <i>Vicia faba</i> (broad bean), <i>Vigna angularis</i> (adzuki bean), <i>Vitis vinifera</i> (anggur, grapevine)	
10.	<i>Cuscuta epilinum</i> (Weike); Convolvulaceae; flax dodder	II	Flax, Linseed	Africa: Ethiopia, Egypt, Morocco, South Africa America: Canada, USA Asia: Cyprus Europe: all
11.	<i>Cuscuta epithymum</i> (L.) Murr. (= <i>C. trifoli</i>); Convolvulaceae; alfalfa dodder	II	Herbaceous, Legume	Africa: South Africa America: North America, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana Asia: Japan, West Asia Europe: all Oceania: Australia
12.	<i>Cuscuta agronovii</i> (Willd.); Convolvulaceae; swamp dodder	II	Herbaceous, <i>Solanum tuberosum</i> (kentang, potato), <i>Piper nigrum</i> (lada, pepper), <i>Apium graveolens</i> (seledri, celery)	America: North America Europe: all
13.	<i>Cuscuta indecora</i> (Choisy.); Convolvulaceae; thin- vine dodder	II	Leguminosae	Africa: Morocco America: North dan Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana Europe: Greece
14.	<i>Cuscuta japonica</i> (Choisy); Convolvulaceae; dodder	II	<i>Solanum tuberosum</i> (kentang, potato), <i>Solanum melongena</i> (terong,	Asia: Japan

	seed		eggplant, aubergine), <i>Lycopersicon esculentum</i> (tomat, tomato)	
15.	<i>Cuscutamonogyna</i> (Vahl.); Convolvulaceae; eastern dodder	II	Leguminoceae, <i>Citrus</i> spp. (jeruk, orange), Tamarix, Salix	Asia: Central East, Afghanistan Europe: France, South Europe Oceania: Mediteranean
16.	<i>Cuscutapedicellata</i> (Ledeb) ; Convolvulaceae	II	Leguminoceae	Asia: Central Asia, Central East Asia Oceania: Eastern Mediteranean
17.	<i>Cuscutaplaniflora</i> (Ten.); (= C. Approximate); Convolvulaceae; espagete	II	Leguminoceae	America: North America Asia: Central Asia Oceania: Mediteranean
18.	<i>Digitaria scalarum</i> (Schweinf.) Chiov.; (= <i>Digitaria abyssinica</i> = <i>D. abyssinica</i> var. <i>scalarum</i> = <i>D. eichingeri</i> = <i>D. hackelii</i> = <i>D. merkeri</i> = <i>D. mutica</i> = <i>D. scalarum</i> = <i>D. somaliensis</i> = <i>D. tangaensis</i> = <i>D. vestita</i> = <i>Panicum abyssinicum</i> = <i>P. hackelii</i> = <i>P. kafuroense</i> = <i>P. muticum</i> = <i>P. scalarum</i>); Poaceae; cough grass	II	<i>Agave part of lana</i> , <i>Ananas comosus</i> (nenas, pineapple), <i>Coffea</i> spp. (kopi, coffee), <i>Gossypium barbadens</i> (kapas, cotton), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Zea mays</i> (jagung, corn, maize) <i>Acacia</i> (wattles), <i>Camellia sinensis</i> (teh, tea), <i>Linum usitatissimum</i> (flax), <i>Musa</i> sp. (pisang, banana), <i>Phaseolus vulgaris</i> (common bean), <i>Tanacetum cinerariifolium</i> (Pyrethrum), <i>Triticum aestivum</i> (gandum, wheat)	Africa: Cameroon, Ethiopia, Malawi, Seychelles, Somalia, Sudan, Swaziland, Nigeria, South Africa, Kenya, Uganda, Burundi, Rwanda, Tanzania, Madagascar, Zambia, Zimbabwe Asia: Saudi Arabia, India, Sri Lanka
19.	<i>Emex australis</i> (Steinh.); Polygonaceae; Spiny Emex, doublegee, three-cornered jack	II	<i>Avena sativa</i> (oat, oats), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Cicer arietinum</i> (chickpea), <i>Hordeum vulgare</i> (barli, barley), <i>Lupinus</i>	Africa: Bostwana, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Namibia, Ascension, South Africa, Tanzania, Zambia, Zimbabwe

			<p><i>spp.</i>, <i>Medicago sativa</i> (lucerne), <i>Medicago spp.</i>, <i>Pisum sativum</i> (kapri, sweetpea), <i>Secale cereale</i> (rye), <i>Triticale</i>, <i>Triticum aestivum</i> (gandum, wheat), <i>Vicia faba</i> (broad bean), <i>Vitis vinifera</i> (grapevine) <i>Allium cepa</i> (bawang bombay, onion), <i>Apium graveolens</i> (seledri, celery), <i>Arachis hypogaea</i> (kacang tanah, groundnut, peanut), <i>Brassica oleracea</i> (kubis (cabbages), flower kol (cauliflowers), <i>Citrus</i>, <i>Coriandrum sativum</i> (coriander), <i>Dactylis glomerata</i> (orchardgrass), <i>Daucus carota</i> (wortel, carrot), <i>Festuca arundinacea</i> (reed fescue), <i>Glycine max</i> (kedelai, soybean), <i>Gossypium</i> (cotton), <i>Lens culinaris ssp. culinaris</i> (lentil), <i>Linum usitatissimum</i> (flax), <i>Malus domestica</i> (apel, apple), <i>Pastinaca sativa</i> (parsnip), <i>Prunus</i> (stone fruit), <i>Pyrus communis</i> (pir, pear), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Trifolium spp.</i>, <i>Zea mays</i> (jagung, corn, maize)</p>	<p>America: North America (USA, California, Hawaii), Central America & Caribbean (Trinidad and Tobago) Asia: Taiwan, India, Pakistan Oceania: Australia, New Zealand</p>
20.	<i>Melampyrum arvense</i> (L.); Orobanchaceae; field	II	Cereal, <i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli,	<p>Asia: West Asia Europe: West Europe, France,</p>

	cow-wheat, purple cow-wheat, horse flower		barley)	Belgium, Germany, Netherland
21.	<i>Odontites verna</i> (Bell) Dum; (= <i>Bastisia odontites</i> = <i>O. serotinus</i> = <i>O. rubra gilib</i>); Orobanchaceae; red bartsia, Eyebright, red rattle, Perlina di Primavera	II	Poaceae(grasses), Lucerne, <i>Triticum aestivum</i> (gandum, wheat)	America: North America Asia: Turkey Europe: Southeast Europe, Germany
22.	<i>Orobanche cernua</i> (Loefl.);(= <i>O. cernua</i> , <i>O. bicolor</i> , <i>O. curviflora</i> , <i>O. hispanica</i> , <i>O. gallica</i> , <i>O. pogonantha</i> , <i>O. nicotiana</i> , <i>O. glaucantha</i> , <i>O. cumana</i>); Orobanchaceae	II	Tanaman Compositae, Solanaceae	Africa: Tanzania, Uganda, Algeria, Egypt, Ethiopia, Kenya, Morocco, Somalia, Sudan, Tunisia Asia: India, Afghanistan, China, Bahrain, Geogia, Irak, Israel, Jordania, Kuwait, Kazaktans, Lebanon, Mongolia, Nepal, Pakistan, Saudi Arabia, Syria, Turkey, Yemen Europe: Yugoslavia, Bulgaria, Czech Republic, Slovakia, France, Greece, Hongary, Italy, Rumania, Rusia, Spain, UK Oceania: Australia
23.	<i>Orobanche foetida</i> (Poir.), Orobanchaceae; Broomrapes	II	Legumimosae/ Fabaceae	Africa: Morocco, Tunisia, Iberian Peninsula, Balearic Islands Europe: Spain
24.	<i>Orobanche gracilis</i> (SM.); Orobanchaceae; Broomrapes	II	Legumimosae/ Fabaceae	Africa: Kenya, Uganda, Burundi, Rwanda, Tanzania Europe: Sout East Europe
25.	<i>Orobanche ramosa</i> (L.); (= <i>O. Interrupta</i> , <i>O. Micrantha</i> , <i>Kopsia interrupta</i> , <i>O. cannabis</i> , <i>Philipaea ramosa</i> ,	II	<i>Brassica</i> spp., <i>Lycopersicon esculentum</i> (tomat, tomato), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Solanum melongena</i> (terong, eggplant, aubergine)	Africa: North Africa, South Africa America: USA, Central America (Cuba), South America, Chile Asia: Armenia, Afghanistan, China, India, Iran, Irak, Israel, Jordan,

	<i>Phelipanche ramosa</i> , <i>Kopsia ramosa</i>); Orobanchaceae; Broomrapes		<i>Allium cepa</i> (bawang bombay, onion), <i>Apium graveolens</i> (seledri, celery), <i>Arachis hypogaea</i> (kacang tanah, groundnut, peanut), <i>Cannabis sativa</i> (hemp), <i>Capsicum annuum</i> (paprika, bell pepper, red pepper), <i>Carthamus tinctorius</i> (safflower), <i>Cicer arietinum</i> (chickpea), <i>Citrullus lanatus</i> (semangka, watermelon), <i>Cucumis melo</i> (melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita</i> (pumpkin), <i>Daucus carota</i> (wortel, carrot), <i>Foeniculum vulgare</i> (fennel), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Lactuca sativa</i> (selada, lettuce), <i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Pastinaca sativa</i> (parsnip), <i>Pisum sativum</i> (kapri, sweet pea), <i>Prunus armeniaca</i> (apricot), <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium</i> spp., <i>Vicia faba</i> (broad bean)	Lebanon, Nepal, Oman, Saudi Arabia, Pakistan, Qatar, Syria, Turkey, Yemen Europe: Albania, Austria, Belarus, Belgium, Bulgaria, Cyprus, Czech Republic, Slovakia, France, Corsica, Germany, Greece, Hungary, Italy, Malta, Moldova, Netherland, Poland, Portugal, Rumania, Rusia, Spain, UK, Switzerland Oceania: Australia
26.	<i>Parthenium hysterophorus</i> L.; (= <i>rgyrochaeta bipinnatifida</i> Cav. = <i>Villanova binnatifida</i> Ortega) Asteraceae; parthenium weeds, congress grass, whiteheads, barley flower	II	<i>Abelmoschus esculentus</i> (okra, lady'sfinger), <i>Allium cepa</i> (bawang bombay, onion), <i>Anacardium occidentale</i> (cashew nut), <i>Arachis hypogaea</i> (kacang tanah, groundnut, peanut), <i>Carica papaya</i> (pepaya, papaw, papaya), <i>Cicer arietinum</i> (chickpea), <i>Citrus</i> ,	Africa: Ethiopia, Kenya, Madagascar, Mauritius, Mozambique, Réunion, Cornoros, Seychelles, South Africa, Somalia, Mayotte, Swaziland, Tanzania, Uganda, Zimbabwe America: Bermuda, North America (Mexico, USA) Tropical America, Caribbean Island, Central America

			<p><i>Cocos nucifera</i> (kelapa , coconut), <i>Coffea</i> (kopi, coffee), <i>Daucus carota</i> (wortel, carrot), <i>Eleusine coracana</i> (finger millet), <i>Eragrostis tef</i> (teff), <i>Gossypium</i> (kapas, cotton), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Lycopersicon</i> <i>esculentum</i> (tomat,tomato), <i>Mangifera indica</i> (mangga,mango), <i>Musa</i> (pisang,banana), <i>Pastures</i>, <i>Phaseolus</i> (beans), <i>Psidium guajava</i> (jambu seed, guava), <i>Saccharumofficinarum</i> (tebu, sugarcane), <i>Sesamum indicum</i> (sesame), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Zea mays</i> (Jagung, corn, maize), <i>Radish</i></p>	<p>(Barbados, Belize, Bahama, Cuba, Dominican Republik, Haiti, Honduras, Jamaica, Poerto Rico, Costa Rica), South America (Argentina, Bolivia, Brazil, Ecuador, Guyana, Paraguay, Suriname, Venezuela, Uruguay) Asia: Bangladesh, Bhutan, China, Taiwan,India, Israel, Japan, Vietnam, Nepal, Pakistan Europe: Belgium Oceania: Eastern Queensland, Australia, Frenche Polinesia, New Caledonia, Vanuatu</p>
27.	<p><i>Praxelis clematidea</i> R.M. King & H. Robinson; (=<i>Eupatorium catarium</i> Veldk.); Asteraceae</p>	II	<p>Pasture, <i>Saccharumofficinarum</i> (tebu, sugarcane)</p>	<p>America: Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana, Guyana Asia: Hongkong, China Oceania: Australia</p>
28.	<p><i>Rhamphicarpa fistulosa</i> (Hochst)Benth; (= <i>R.</i> <i>Longiflora</i>); Schropulariaceae</p>	II	<p><i>Oryza sativa</i> (padi, rice, paddy), <i>Zea mays</i> (jagung, corn, maize), Rumput-rumputan</p>	<p>Africa: Africa Tropic, South Africa, Tanzania, Kayela, Mbunga</p>
29.	<p><i>Rhinanthus angustifolius</i></p>	II	<p><i>Triticum aestivum</i> (gandum, wheat),</p>	<p>America: North America</p>

	(C. Gmelin); (= <i>Alecterolophus major</i> = <i>A. glaber</i> = <i>A. montanus</i> = <i>R. apterus</i> = <i>R. glaber</i> <i>R. major</i> = <i>R. serotinus</i>); Orobanchaceae; greater yellow-rattle		<i>Hordeum vulgare</i> (barli, barley)	Asia: Turkey, Caucasus, Armenia, Azerbaijan, Georgia Europe: Denmark, Finland, Norway, Sweden, United Kingdom, Austria, Belgium, Czech Republic, Germany, Hungary, Netherland, Poland, Switzerland, France, Belarus, Estonia, Latvia, Lithuania, Moldova, Ukraine, Bulgaria, Romania, Slovenia, Macedonia, Croatia, Balkans, Russia
30.	<i>Rhinanthus minor</i> (L.); Orobanchaceae; yellow rattle, cockscomb	II	<i>Triticum aestivum</i> (gandum, wheat), <i>Hordeum vulgare</i> (barli, barley)	America: North America, Canada, USA Asia: West Asia, Siberia Europe: Russia
31.	<i>Striga aspera</i> (Willd.), (= <i>Euphrasia aspera</i> Willd); Orobanchaceae; parasitic weed, witchweed	II	<i>Zea mays</i> (jagung, corn,maize), millet, <i>Oryza sativa</i> (padi, rice, paddy) <i>Sorghum bicolor</i> (sorgum, sorghum)	Africa: Benin, Burkina Faso, Cameroon, Sudan, Ethiopia, Tanzania, Gambia, Malawi, Niger, Nigeria, Mali, Senegal, Togo
32.	<i>Striga forbesii</i> (Benth);Orobanchaceae; parasitic weed, <i>Buchera forbesii</i> (Benth) D. Dietr.; giant maize witchweed, giant mealie witchweed	II	<i>Zea mays</i> (jagung, corn,maize), <i>Sorghum bicolor</i> (sorgum, sorghum)	Africa: Madagascar, South Africa
33.	<i>Striga gesnerioides</i> (Willd) Vatke; (=S. <i>Orobanchoides</i> = <i>Buchnera gesnerioides</i>);Orobanchac eae; cowpea witchweed	II	<i>Nicotianatabacum</i> (tembakau,tobacco), <i>Ipomoeabatatas</i> (ubijalar,sweet potato), <i>Vignaspp.</i> (cowpea)	Africa: Sudan, Egypt, Ethiopia, Guinea, Kenya, Mozambique, Sudan, Zimbabwe America: USA, Florida, Guyana Asia: Morocco, Sri Langka, India, Saudi Arabia, Cambodia, Japan, Nepal, Oman, Pakistan, Yemen Oceania: Australia

34.	<i>Striga hermonthica</i> (Delile) Benth.; (= <i>S. senegalensis</i>); Scrophulariaceae; parasitic weed, purple witchweed	II	<i>Eleusine coracana</i> (finger millet), <i>Oryza sativa</i> (padi, rice, paddy), Panicum (millets), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Zea mays</i> (jagung, corn, maize) <i>Eragrostis tef</i> (teff), <i>Hordeum vulgare</i> (barli, barley)	Africa: Angola, Benin, Burkina Faso, Burundi, Cameroon, Congo, Egypt, Gambia, Malawi, Mali, Mauritania, Morocco, Mozambique, Niger, Nigeria, Ghana, Gambia, Guinea, Kenya, Namibia, Madagascar, Sudan, Ethiopia, Rwanda, Senegal, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe Asia: Cambodia, Saudi Arabia, Yemen, Peninsula
35.	<i>Striga latericea</i> (Vatke); (= <i>S. somaliensis</i>); Orobanchaceae; parasitic weed, cowpea witchweed	II	<i>Saccharum officinarum</i> (tebu, sugar cane)	Africa: Ethiopia, Tanzania, Kenya, Somalia, Mali, Central Africa Republic
36.	<i>Striga passargei</i> (Engl.); Orobanchaceae; parasitic weed	II	<i>Zea mays</i> (jagung, corn, maize)	Africa: Senegal, Sudan, Tanzania, Nigeria Asia: Saudi Arabia
37.	<i>Thesium australe</i> (R. Br.); Santalaceae; Austral toadflax, Austral Toadflax, Australian Toadflax	II	<i>Hordeum vulgare</i> (barli, barley), grasses, <i>Saccharum officinarum</i> (tebu, sugar cane)	Oceania: Australia
38.	<i>Thesium humile</i> (Vahl.); Santalaceae; lesser bastard toadflax	II	<i>Hordeum vulgare</i> (barli, barley), grasses, <i>Saccharum officinarum</i> (tebu, sugar cane)	Africa: North Africa Asia: Israel Europe: Spain
39.	<i>Thesium resdoides</i> ; Santalaceae	II	<i>Hordeum vulgare</i> (barli, barley), grasses, <i>Saccharum officinarum</i> (tebu, sugar cane)	Africa: South Africa

VI. CENDAWAN (*FUNGAL/FUNGAL LIKE ORGANISM/PSEUDOFUNGY*)

No	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ <i>SCIENTIFIC NAME/ SYNONIM/ TAXON/ COMMON NAME</i>	GOLONGAN/ GROUP	INANG/ HOST	MEDIA PEMBAWA / PATHWAY	DAERAH SEBAR/ GEOGRAPHICAL DISTRIBUTION
1.	[a]: - [s]: <i>Claviceps africana</i> (Fr.) ; =Sphacelia sorghi; Ascomycota, Pezizomycotina, Sordariomycetes	I	<i>Sorghum bicolor</i> (sorgum, sorghum) <i>Sorghum halepense</i> (Johnson grass)	seed, growing media	Africa: Angola, Botswana, Burundi, Ethiopia, Ghana, Kenya, Lesotho, Malawi, Mozambique, Nigeria, Rwanda, Senegal. Swaziland, Tanzania, Uganda, Zambia, Zimbabwe. America: Argentina, Bolivia, Brazil, Colombia, Dominica, Haiti, Honduras, Jamaica, Mexico, Puerto Rico, Paraguay, USA, Uruguay, Venezuela. Asia: India, Japan, Thailand, Yemen. Oceania: Australia.
2.	[a]: - [s]: <i>Claviceps gigantea</i> (Fuentes), de la Ista, Ullstrup & Rodrigues(1964); (= <i>Sphacelia gigantea</i>); Ascomycota, Pezizomycotina, Sordariomycetes; ergot of maize, horse's tooth	I	<i>Zea mays</i> (jagung, corn, maize)	seed, growing media	America: Mexico

3.	<p>[a]: - [s]: <i>Sphacelia segetum</i> Lév., 1827 (=<i>Claviceps purpurea</i> (Mantle); =<i>Sphacelia sorghi</i> =<i>Claviceps microcephala</i> (Wallr.) Tul., 1853; Ascomycota, Pezizomycotina, Sordariomycetes; sugary disease</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Agrostis</i> (bentgrasses), <i>Avena sativa</i> (oat, oats), <i>Cynodon</i> (quickgrass), <i>Festuca</i> (fescues), <i>Hordeum</i> (barleys), <i>Hordeum vulgare</i> (barley), <i>Lolium</i> (rye grasses), <i>Lolium perenne</i> (perennial rye grass), <i>Phleum</i> (timothies), <i>Poa</i> (meadow grass), <i>Poa pratensis</i> (smooth-stalked meadowgrass), <i>Poaceae</i> (grasses), <i>Secale</i> (rye), <i>Secale cereale</i> (rye), <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Triticum</i> (wheat), <i>Triticum aestivum</i> (gandum, wheat) <i>Bromus</i> (bromegrasses), <i>Echinochloa</i> spp., <i>Panicum</i> (millets), <i>Pennisetum</i> (feather grass)</p>	<p>seed, growing media</p>	<p>Africa: Algeria, Ethiopia, Guinea, Kenya, Malawi, Mauritania, Mauritius, Morocco, South Africa (Sudan, Tanzania, Zimbabwe). America: Canada, Mexico, USA, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana Asia: Armenia, China, India, Iran, Israel, Japan, Kazakhstan, South Korea, Kyrgyzstan, Nepal, Philippines, Turkey. Europe: Austria, Belgium, Bulgaria, Czech, Denmark, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand.</p>
4.	<p>[a]: - [s]: <i>Moniliophthora perniciosa</i></p>	<p>I: for unprocessed</p>	<p><i>Theobroma cacao</i> (kakao, cocoa),</p>	<p>part of plant</p>	<p>America: Belize, Bolivia, Brazil, Colombia, Dominica,</p>

	(Stahel) Aime & Phillips-Mora (2006) = <i>Marasmius perniciosus</i> (Stahel, 1915) = <i>Crinipellis perniciosus</i> (Stahel) (Singer, 1943) Basidiomycota, Agaricomycotina, Agaricomycetes; cocoa witches' broom disease	ssed commod ity. II: for processe d commod ity	<i>Bixa orellana</i>		Ecuador, Grenada, Guyana, Panama, Peru, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, Venezuela
5.	[a]: - [s]: <i>Exobasidium reticulatum</i> Ito & Sawada; Basidiomycota, Ustilaginomycotina, Exobasidiomycetes; net blister blight of tea	I: for unprocesse d commod ity. II: for processe d commod ity	<i>Camellia sinensis</i> (teh, tea)	leaf, stem muda	Asia: China, Taiwan, Japan, Malaysia
6.	[a]: - [s]: <i>Fomes robiniae</i> (Murr) Sacc and D. Sacc (1905) = <i>F. rimosus</i> = <i>Phellinus robiniae</i> (Murrill) A. Ames 1913 = <i>Pyropolyporus robiniae</i> Murrill 1903 = <i>Fulvifomes robiniae</i> (Murrill) Murrill 1914; Basidiomycota, Agaricomycotina, Agaricomycetes; Yellow spongy rot	I: for unprocesse d commod ity. II: for processe d commod ity	<i>Albizia falcataria</i> (L.), <i>Albizia lebeck</i> , <i>Robinia pseudo acacia</i> , <i>Anogeissus latifolia</i> , <i>Boswellia serrata</i> , <i>Casuarina striata</i> , <i>Dalberbia sissoo</i> , <i>Eucalyptus</i> spp, <i>Querus</i> sp., <i>Shrea robusta</i> , <i>Terminalia bellarica</i> , <i>Terminalia tomentosa</i> , <i>Morus alba</i> , <i>Pistacia lentiscus</i>	stem, root	Africa: Jamaica Asia: India, Ceylon, Pakistan Oceania: Australia, Samon

7.	<p>[a]: - [s]: <i>Fomitopsis pinicola</i> (Sw.: Fr.) P. Karst. 1881; (= <i>Boletus pinicola</i> Sw.: Fr. 1810; <i>Fomes pinicola</i> (Sw.: Fr.) Fr. 1849; <i>Placodes pinicola</i> (Sw.: Fr.) Pat. 1887; <i>Polyporus pinicola</i> (Sw.: Fr.) Fr. 1821; <i>Pseudofomes pinicola</i> (Sw.: Fr.) Lázaro Ibiza 1916; <i>Trametes pinicola</i> (Sw.: Fr.) P. Karst. 1882 Basidiomycota, Agaricomycotina, Agaricomycetes; brown crumbly rot, pinicola conk, red belt fungus, root rot conifers, brown rot of conifers, brown cubical heart rot of fir</p>	<p>I: for unprocessed commodity. II: for processed commodity</p>	<p><i>Abies alba</i> (silver fir), <i>Abies amabilis</i> (Pacific silver fir), <i>Abies concolor</i> (Rocky Mountain white fir), <i>Abies holophylla</i> (Manchurian fir), <i>Abies magnifica</i> (red fir), <i>Abies nephrolepis</i> (Khingan fir), <i>Abies procera</i> (noble fir), <i>Abies religiosa</i> (sacred fir), <i>Acer macrophyllum</i> (broadleaf maple), <i>Agathis</i>, <i>Betula papyrifera</i> (paper birch), <i>Larix gmelinii</i> (Dahurian larch), <i>Picea abies</i> (common spruce), <i>Picea glauca</i> (white spruce), <i>Picea jezoensis</i> (Yeddo spruce), <i>Picea koraiensis</i> (Korean spruce), <i>Picea mariana</i> (black spruce), <i>Picea obovata</i> (Siberian spruce), <i>Picea rubens</i> (red spruce), <i>Picea sitchensis</i> (Sitka spruce), <i>Pinus contorta</i> (lodgepole pine), <i>Pinusedulis</i> (pinyon), <i>Pinus flexilis</i> (limber pine), <i>Pinus koraiensis</i> (fruit pine), <i>Pinus sylvestris</i> (Scots pine), <i>Prunus persica</i> (peach), <i>Prunus sargentii</i> (sargent's cherry), <i>Prunus serotina</i> (black cherry), <i>Pseudotsuga</i></p>	stem, root	<p>Africa: Egypt, Morocco America: Guatemala, Canada, Mexico, USA, Brazil Asia: Armenia, Azerbaijan, China, Taiwan, India, Iran, Israel, Japan, Kazakhstan, Nepal, Pakistan, Philippines, Thailand, Turkey Europe: Austria, Belarus, Bulgaria, Czech Republic, Denmark, Estonia, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia,</p>
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			<p> <i>menziesii</i> (Douglas-fir), <i>Tsuga heterophylla</i> (western hemlock), <i>Tsuga</i> <i>mertensiana</i> (Patton's hemlock), <i>Vitis</i> (grape) <i>Abies balsamea</i> (balsam fir), <i>Abies grandis</i> (grand fir), <i>Abies lasiocarpa</i> (rocky mountain fir), <i>Abies</i> <i>nordmanniana</i> (Nordmann fir), <i>Acer pictum</i> (painted maple), <i>Alnus glutinosa</i> (European alder), <i>Alnus</i> <i>incana</i> (grey alder), <i>Betula</i> <i>alleghaniensis</i> (yellow birch), <i>Betula pendula</i> (common silver birch), <i>Betula</i> <i>platyphylla</i> (Manchurian birch), <i>Betula populifolia</i> (gray birch), <i>Calocedrus</i> <i>decurrens</i> (bastard cedar), <i>Carpinus betulus</i> (hornbeam), <i>Carpinus</i> <i>cordata</i> (heart-leaved hornbeam), <i>Carya</i> (hickories), <i>Castanea</i> (chestnuts), <i>Chamaecyparis</i> <i>nootkatensis</i> (Alaska cedar), <i>Corylus avellana</i> (hazel), <i>Fagus grandifolia</i> (American beech), <i>Fagus sylvatica</i> (common beech), <i>Larix</i> </p>		
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			<p> <i>kaempferi</i> (Japanese larch), <i>Larix komarovii</i>, <i>Larix</i> <i>laricina</i> (American larch), <i>Magnolia</i>, <i>Malus domestica</i> (apple), <i>Picea engelmannii</i> (Engelmann spruce), <i>Picea</i> <i>pungens</i> (blue spruce), <i>Pinus</i> <i>lambertiana</i> (big pine), <i>Pinus</i> <i>monophylla</i> (single-leaf pinyon pine), <i>Pinus</i> <i>ponderosa</i> (ponderosa pine), <i>Pinus sibirica</i> (Siberian stone pine), <i>Pinus strobus</i> (eastern white pine), <i>Pinus</i> <i>tabuliformis</i> (chinese pine), <i>Platanus occidentalis</i> (sycamore), <i>Platanus</i> <i>orientalis</i> (plane), <i>Populus</i> <i>grandidentata</i> (Bigtooth aspen), <i>Populus</i> <i>maximowiczii</i> (Japanese poplar), <i>Populus nigra</i> (black poplar), <i>Populus tremula</i> (aspen (European)), <i>Populus</i> <i>tremuloides</i> (trembling aspen), <i>Prunus avium</i> (sweet cherry), <i>Prunus salicina</i> (Japanese plum), <i>Salix alba</i> (white willow), <i>Salix caprea</i> (pussy willow), <i>Salix fragilis</i> (crack willow), <i>Sequoia</i> <i>sempervirens</i> (coast </p>	
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			redwood), <i>Sorbus aucuparia</i> (mountain ash), <i>Thuja occidentalis</i> (Eastern white cedar), <i>Thuja plicata</i> (western redcedar), <i>Tilia cordata</i> (small-leaf lime), <i>Tsuga canadensis</i> (eastern hemlock)		
8.	[a]: - [s]: <i>Gaeumannomyces graminis</i> var. <i>graminis</i> (Sacc.) Arx & D.L. Olivier (1952); (= <i>Rhaphidophora graminis</i> Sacc. (1875); <i>Gaeumannomyces graminis</i> (Sacc.) Arx & D. Olivier (1952); <i>Ophiobolus graminis</i> (Sacc.) Sacc. (1881); <i>Ophiobolus oryzinus</i> Sacc. (1916); <i>Linocarpon oryzinum</i> (Sacc.) Petr. (1952); <i>Gaeumannomyces oryzinus</i> (Sacc.) Schrantz (1961) Ascomycota, Pezizomycotina, Sordariomycetes; crown sheath rot, crown sheath rot of rice, patch disease of turf, white-heads of grasses	I: for unprocessed commodity. II: for processed commodity	<i>Oryza sativa</i> (padi, paddy), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn, maize), <i>Zizania</i> spp., <i>Avena</i> spp., secale, Poaceae, <i>Cynodon</i> spp., <i>Eremochloa ophiuroides</i> , <i>Pennisetum clandestinum</i> , <i>Stenotaphrum secundatum</i> , <i>Zoysia japonica</i>	root, stem, leaf, seed, growing media	Africa: Egypt, South Africa America: Peru, USA Asia: India, Philippines
9.	[a]: -	I: for	<i>Saccharum officinarum</i> (tebu,	leaf	Asia: Taiwan

	[s]: <i>Leptosphaeria Taiwanensis</i> W.Y. Yen & C.C. Chi: 213 (1952); (= <i>Didymella Taiwanensis</i> (J.M. Yen & C.C. Chi) Shoemaker & C.E. Babco., (1989); <i>Saccharicola Taiwanensis</i> (J.M. Yen & C.C. Chi) O.E. Erikss. & D. Hawksw., (2003) Ascomycota, Pezizomycotina, Dothideomycetes; sugar cane leaf blight	unprocessed commodity II. for processed commodity	sugarcane)		
10.	[a]: - [s]: <i>Marasmiellus cocophilus</i> Pegler; Basidiomycota, Agaricomycotina, Agaricomycetes; basal stem break, lethal bole rot of coconut	I: for unprocessed commodity II. for processed commodity	<i>Cocos nucifera</i> (kelapa , coconut) <i>Cynodon dactylon</i> , <i>Echinochloa colona</i> , <i>Eleusine indica</i>	fruit, leaf, stem, growing media	Africa: Kenya, Tanzania Oceania: Solomon Islands
11.	[a]: - [s]: <i>Marasmiellus inoderma</i> (Berk.) Singer (1955); (= <i>Marasmius inoderma</i> Berk. Basidiomycota, Agaricomycotina, Agaricomycetes; crown rot	I: for unprocessed commodity II. for processed commodity	<i>Oryza sativa</i> (padi, paddy) <i>Zea mays</i> (jagung, corn, maize), <i>Musa</i> spp. (pisang, banana), Orchidaceae (anggrek, orchids)	root, leaf, stem, plant, soil.	Africa: Egypt Oceania: Samoa America, Samoa

	of rice, pre-emergence shoot rot, root rot of maize, sheath rot of maize	commodity			
12.	[a]: - [s]: <i>Microthyriella rubi</i> Petr.;(= <i>Schizothyriina rubi</i> <i>Schizothyriina rubi</i> (Petr.)) Ascomycota, Pezizomycotina, Dothideomycetes; fly speck	I: for unprocessed commodity II. for processed commodity	<i>Vitis vinifera</i> (anggur, grapevine), <i>Malus domestica</i> (apel, apple), <i>Citrus</i> spp.(jeruk, orange)	fruit	America: USA Asia: China, India, Japan
13.	[a]: - [s]: <i>Moniliophthora roreri</i> (Cif.) H.C. Evans, Stalpers, Samson & Benny (1978); (= <i>Monilia roreri</i> Cif. (1933) Basidiomycota, Agaricomycotina, Agaricomycetes; frosty pod rot, monilia pod rot, pod rot of cocoa, quevedo disease, watery pod rot of cocoa	I: for unprocessed commodity II. for processed commodity	<i>Theobroma cacao</i> (kakao, cocoa)	fruit, seed	America: Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Nicaragua, Panama, Peru, Venezuela
14.	[a]: - [s]: <i>Laetiporus baudonii</i> (Pat.) Ryvarden (1991); (= <i>Polyporus baudonii</i> Pat. (1914) = <i>Polyporus baudoni</i> = <i>Cladoporus baudonii</i> (Pat.) Teixeira	I: for unprocessed commodity II. for processed	<i>Manihot esculenta</i> (singkong, cassava),	bulb, tuber, corm, root, stem	Africa: Madagascar

	(1994) = <i>Pseudophaeolus baudonii</i> (Pat.) Ryvar den (1975) = <i>Phaeolus manihotis</i> R. Heim (1931) Basidiomycota, Agaricomycotina, Agaricomycetes; root rot	d commodity			
15.	[a]: - [s]: <i>Podospaera clandestina</i> var. <i>clandestina</i> , (1851); (= <i>Alphitomorpha clandestina</i> Wallr., (1819) = <i>Erysiphe clandestina</i> (Wallr.) Link, (1824) = <i>Erysiphe oxyacanthae</i> DC., (1815) = <i>Podospaera kunzei</i> Lév., (1851) = <i>Microspira fulvofulcra</i> Cooke (1851) = <i>Podospaera minor</i> Howe, (1874) Ascomycota, Pezizomycotina, Leotiomycetes; powdery mildew of cherry; powdery mildew of hawthorn; mildew of quince	I: for unprocessed commodity II. for processed commodity	<i>Crataegus monogyna</i> (hawthorn), <i>Cydonia oblonga</i> (quince), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus salicina</i> (Japanese plum)	leaf, fruit, stem muda	Africa: Libya, Mauritius, Morocco, Zimbabwe America: Canada, USA Asia: Armenia, Azerbaijan, China, India, Iran, Iraq, Japan, Kazakhstan, Korea Republic of (South Korea), Kyrgyzstan, Lebanon, Turkey, Turkmenistan, Uzbekistan Europe: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Ukraine, UK Oceania: Australia, New Zealand

16.	<p>[a]: <i>Sclerotium cepivorum</i> [s]: <i>Stromatinia cepivorum</i> (Berk.) Whetzel ; = <i>Stromatinia cepivora</i> (Berk., 1945) = <i>Stromatinia cepivorum</i> (Berk., 1945) Basidiomycota, Agaricomycotina, Agaricomycetes; white rot of onion and garlic, onion white root rot, bulb rot of onion, Allium white rot, onion white rot</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (onion), <i>Allium cepa</i> var. <i>aggregatum</i> (shallot), <i>Allium fistulosum</i> (Welsh onion), <i>Allium porrum</i> (leek), <i>Allium sativum</i> (garlic), <i>Allium schoenoprasum</i> (chives)</p>	<p>bulb, tuber, corm, root, stem</p>	<p>Africa: Egypt, Libya, South Africa, Uganda, Zimbabwe America: Canada, Mexico, USA, Argentina, Bolivia, Brazil, Chile, Colombia, Guyana, Uruguay, Venezuela Asia: China, India, Iran, Japan, Philippines Europe: Austria, Bulgaria, Cyprus, Czech Republic and Slovakia, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Norway, Portugal, Romania, Russia, Serbia and Montenegro, Spain, Sweden, Switzerland, UK Oceania: Australia, New Zealand</p>
17.	<p>[a]: - [s]: <i>Sporisorium cruentum</i> (J.G. Kühn) Vanky (1985); (= <i>Sphacelotheca cruenta</i> (J.G. Kühn) Potter (1912) = <i>S. holci</i> = <i>Ustilago cruenta</i> J.G. Kühn (1872) = <i>Endothlaspis sorghi</i> Sorokin (1890) = <i>Cintractia sorghi</i></p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Sorghum bicolor</i> (sorghum, sorghum) <i>Saccharum officinarum</i> (tebu, sugarcane)</p>	<p>seed</p>	<p>Africa: Botswana, Burundi, Cameroon, Central Africa, Chad, DR Congo, Ethiopia, Gambia, Ghana, Kenya, Malawi, Mauritius, Morocco, Mozambique, Niger, Nigeria, Rwanda, Senegal, Somalia, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe America: Argentina, Barbados, Brazil, Cuba, El Salvador,</p>

	(Sorokin) De Toni (1888) = <i>Sphacelotheca sorokiniana</i> Cif. (1928) = <i>Ustilago sorghi</i> Pass. (1873) Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; loose kernel smut, loose smut, sorghum loose kernel smut				Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Puerto Rico, USA, Venezuela Asia: Afghanistan, China, Taiwan, India, Iran, Iraq, Israel, Japan, South Korea, Lebanon, Myanmar, Pakistan, Turkey, Yemen Europe: Bulgaria, Cyprus, Czech, Slovakia, Germany, Greece, Hungary, Italy, Poland, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia
18.	[a]: - [s]: <i>Tilletia indica</i> Mitra(1931)(= <i>Neovossia indica</i> (Mitra) Mundk (1940); Basidiomycota, Ustilaginomycotina, Exobasidiomycetes; Karnal bunt of wheat, Indian bunt of wheat, partial bunt of wheat, new bunt	I: for unprocessed commodity II. for processed commodity	<i>Triticum aestivum</i> (gandum, wheat)	seed	Africa: South Africa, Mexico, USA Asia: Afghanistan, India, Iran, Iraq, Nepal, Pakistan
19.	[a]: - [s]: <i>Tilletia laevis</i> J. G. Kühn(1873); (= <i>Tilletia foetens</i> (Berk. & M.A. Curtis) J. Schröt (1877) = <i>Tilletia foetida</i> = <i>Ustilago</i>	I: for unprocessed commodity II. for	<i>Triticum aestivum</i> (gandum, wheat)	seed, stem, flower	Africa: Algeria, Angola, Egypt, Ethiopia, Kenya, Lesotho, Libya, Morocco, Somalia, South Africa, Tunisia, Zimbabwe America: Argentina, Canada,

	<p><i>foetens</i> Berk. & M.A. Curtis (1874); Basidiomycota, Ustilaginomycotina, Exobasidiomycetes; common bunt, complete bunt, covered smut, hill bunt, smooth-spored wheat bunt, stinking bunt, stinking wheat smut</p>	<p>processed commodity</p>			<p>Chile, Colombia, Mexico, Peru, USA, Uruguay, Venezuela, Asia: Afghanistan, Armenia, Azerbaijan, China, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea, Lebanon, Mongolia, Nepal, Pakistan, Saudi Arabia, Syria, Turkey, Turkmenistan, Uzbekistan Europe: Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Switzerland, Ukraine Oceania : Australia, New Zealand</p>
20.	<p>[a]: - [s]: <i>Tilletia tritici</i> (Bjerk.) G. Winter (1884); (= <i>Tilletia caries</i> (DC.) Tul. & C. Tul. (1847) = <i>Uredo caries</i> DC. (1815) = <i>Uredo Sitophila Ditmar</i> (1816) = <i>Caecoma sitophilum</i> (Ditmar) Link (1825) = <i>Tilletia sitophila</i></p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Triticum</i> spp. (gandum, wheat) <i>Agropyron</i> spp., <i>Bromus</i> spp., <i>Elymus</i> spp., <i>Festuca</i> spp., <i>Hordeum</i> spp., <i>Poa</i> spp., <i>Secale cereale</i>, <i>Lolium</i> spp.</p>	<p>seed, flower, stem</p>	<p>Africa: Algeria, Egypt, Ethiopia, Lesotho, Libya, Morocco, South Africa, Tunisia, Uganda, Zimbabwe America: Argentina, Canada, Chile, Colombia, Ecuador, Guatemala, Mexico, Nicaragua, Peru, USA, Uruguay, Venezuela</p>

	(Ditmar) J. Schröt. (1877) Basidiomycota, Ustilaginomycotina, Exobasidiomycetes; complete bunt, covered smut, hill bunt, rough- spored wheat bunt, stinking smut, wheat bunt, common bunt	ity			Asia: Afghanistan, Armenia, Azerbaijan, Bhutan, China, Taiwan, India, Iran, Iraq, Israel, Japan, Jordan, Kazakhstan, Korea, Kyrgyzstan, Lebanon, Mongolia, Pakistan, Saudi Arabia, Syria, Turkey, Uzbekistan Europe: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Slovakia, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand
21.	[a]: - [s]: <i>Urocystis agropyri</i> (Preuss) A.A. Fisch. Waldh. (1867); (= <i>Uredo agropyri</i> Preuss (1848) = <i>Polycystis agrropyri</i> (Preuss) J.	I: for unprocessed commodity II. for processed	<i>Triticum aestivum</i> (gandum, wheat) <i>Agropyron</i> , <i>Elymus repens</i> , <i>Agropyron smithii</i> , <i>Agrostis stolonifera</i> var. <i>palustris</i> , <i>Agrostis capillaris</i> , <i>Alopecurus</i> , <i>Avena sativa</i>	flower, leaf, stalk malai, seed	Africa: Algeria, Egypt, Morocco, South Africa, Tunisia America: Argentina, Canada, Chile, Falkland Islands, Greenland, Guatemala, Mexico, USA, Uruguay, Venezuela

	<p>Schröt. (1877) =<i>Tuburcinia agropyri</i> (Preuss) Liro (1922) =<i>Tuburcinia agropyri-juncei</i> Vienn.-Bourg. (1954) =<i>Urocystis agropyri-juncei</i> (Vienn.-Bourg.) H. Zogg. (1986) =<i>Tuburcinia elymi</i> Cif. (1931) =<i>Urocystis elymi</i> (Cif.) Schwarzman (1960) =<i>Urocystis preussii</i> J.G. Kühn (1874)</p> <p>Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; flag smut, flag smut of wheat, stem smut, stripe smut</p>	<p>d commod ity</p>	<p>(oat, oats), <i>Bromus carinatus</i>, <i>Bromus marginatus</i>, <i>Carex</i>, <i>Dactylis glomerata</i>, <i>Elymus</i>, <i>Festuca rubra</i>, <i>Lolium</i>, <i>Phleum pratense</i>, <i>Poa</i> spp., <i>Trisetum</i></p>		<p>Asia: Afghanistan, China, Taiwan, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea, Mongolia, Nepal, Pakistan, Syria, Turkey, Uzbekistan</p> <p>Europe: Baltic area, Bulgaria, Cyprus, Czech, Slovakia, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, UK</p> <p>Oceania: Australia, New Zealand</p>
22.	<p>[a]: - [s]:<i>Urocystis cepulae</i> Frost. (1877) (= <i>Tuburcinia cepulae</i> Frost (1877) =<i>Urocystis magica</i> Pass. (1875) = <i>Tuburcinia magica</i> (Pass.) Liro (1922) =<i>Urocystis allii</i> Schellenb. (1911) = <i>Tuburcinia allii</i> (Schellenb.) Liro (1922) = <i>Tuburcinia oblonga</i> Massenot (1953) = <i>Urocystis oblonga</i> (Massenot) H. Zogg (1986)</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Allium</i> spp. <i>Anthrinum</i> sp.</p>	<p>bulb, tuber, corm, leaf, stem</p>	<p>Africa: Egypt, Gabon, Morocco America: Canada, Chile, Cuba, Mexico, Peru, Puerto Rico, St. Lucia, USA Asia: China, Taiwan, India, Iran, Iraq, Japan, Kazakhstan, Korea, Nepal, Pakistan, Philippines, Tajikistan, Thailand Europe: Austria, Belgium, Bulgaria, Czech, Slovakia, Malta, Denmark, Finland, France, Germany, Greece, Italy, Netherlands, Norway,</p>

	Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; leek smut, <i>onion</i> smut				Romania, Rusia, Slovakia, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand
23.	[a]: - [s]: <i>Urocystis</i> <i>gladiolicola</i> Ainsw. (1950); (= <i>Tuburcinia gladiolicola</i> (Ainsw.) Cif. (1963)) Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; smut	I: for unproce ssed commod ity II. for processe d commod ity	<i>Gladiolus</i> spp.	bulb, tuber, corm, leaf	Asia: Iran
24.	[a]: - [s]: <i>Ustilago nuda</i> f.sp. <i>tritici</i> (Schaffnit); (= <i>Ustilago</i> <i>nuda</i> f.sp. <i>hordei</i>); Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; barley loose smut	I: for unproce ssed commod ity II. for processe d commod ity	<i>Triticum aestivum</i> (gandum, wheat), <i>Secale sereale</i> (barley)	flower, leaf, stalk malai, seed	Africa: Egypt America: Canada, USA Asia: China, India, Pakistan Europe: Ireland, Rusia, Switzerland, UK Oceania: Australia
25.	[a]: - [s]: <i>Ustilago violacea</i> (Pers.) Roussel; (= (= <i>Microbotryum violaceum</i> (Pers.) G. Deml & Oberw.	I: for unproce ssed commod ity	<i>Silene pratensis</i> , <i>Cerastium</i> , <i>Dyanthus</i> , Caryophyllaceae	flower, leaf, stalk malai, seed	America: North America, USA Europe: Sweden,

	<p>=<i>Uredo violacea</i> Pers. =<i>Caeoma violaceum</i> (Pers.) Nees =<i>Uredo antherarum</i> DC. =<i>Ustilago antherarum</i> (DC.) Fr. =<i>Caeoma antherarum</i> (DC.) Schltdl. =<i>Microbotryum antherarum</i> (DC.) Lév. =<i>Erysibe antherarum</i> (DC.) Wallr. =<i>Ustilago silenes-nutantis</i> Liro)</p> <p>Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; Caryophyllaceae anther smut</p>	<p>II. for processe d commod ity</p>			
26.	<p>[a]: - [s]: <i>Sphacelotheca reiliana</i> (J. G. Kühn) G.P Clinton;(=<i>Cintractia reiliana</i> (J. G. Kühn) Clinton =<i>Sorosporium holci-sorghii</i> (Rivolta) Moesz =<i>Sorosporium reilianum</i>(J.G. Kühn) McAlpine =<i>Sphacelotheca holci-sorghii</i> (Rivolta) Cif. =<i>Sporisorium holci-sorghii</i> (Rivolta) Vánky =<i>Sporisorium reilianum</i>(J. G. Kühn)</p>	<p>I: for unproce ssed commod ity II. for processe d commod ity</p>	<p><i>Sorghum sudanense</i>, <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Zea mays</i> (jagung, corn, maize), <i>Zea mays</i> subsp. <i>mays</i> (sweet corn) <i>Andropogon</i>, <i>Zea mexicana</i> (<i>Zea mays</i> subsp. <i>mexicana</i>)</p>	<p>seed, flower, leaf, root, stem, growing media</p>	<p>Africa: Burkina Faso, Burundi, Cameroon, Chad, DR Congo, Egypt, Erythrea, Ethiopia, Ghana, Kenya, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Niger, Nigeria, Rwanda, Senegal, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe America: Argentina, Barbados, Bolivia, Brazil, Canada, Chile, Colombia, El Salvador, Guatemala, Honduras,</p>

	<p>Langdon & Full. =Ustilago holci-sorghii Rivolta =Ustilago reiliana J. G. Kühn)</p> <p>Basidiomycota; Microbotryales;Microbotryaceae; Head smut of maize, loose smut</p>				<p>Jamaica, Mexico, Panama, USA, Uruguay</p> <p>Asia: Bhutan, China, India, Iran, Iraq, Israel, Japan, Kazakhstan, Korea Republic of, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Taiwan, Yemen</p> <p>Europe: Austria, Bulgaria, Cyprus, Czech Republic and Slovakia, Estonia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Serbia and Montenegro, Moldova, Macedonia, France, Germany, Greece, Hungary, Italy, Poland, Portugal, Romania, Russia, Spain, Switzerland, Ukraine</p> <p>Oceania: Australia, New Zealand, Papua New Guinea</p>
27.	<p>[a]:<i>Alternaria citri</i>Ellis & N. Pierce(1992); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; stalk end rot, stem end rot, navel end rot, core rot of citrus, black rot of citrus fruit, brown spot of citrus, black rot of <i>Citrus</i>, fruit rot of <i>Citrus</i>, core rot of <i>Citrus</i>.</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Citrus</i> sp., <i>Citrus jambhiri</i> (rough lemon), <i>Citrus junos</i> (yuzu), <i>Citrus limon</i> (lemon), <i>Citrus medica</i> (citron), <i>Citrus reticulata</i> (mandarin), <i>Citrus sinensis</i> (navel orange)</p>	<p>fruit, leaf</p>	<p>Africa: Egypt, Kenya, Libya, Malawi, Morocco, Mozambique, Nigeria, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe</p> <p>America: Cuba, Jamaica, Puerto Rico, North America, Mexico, USA, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French</p>

					<p>Guiana, Argentina, Paraguay, Uruguay</p> <p>Asia: Bhutan, China, India, Iran, Iraq, Israel, Japan, Korea Republic of (South Korea), Myanmar, Nepal, Pakistan, Turkey, Vietnam</p> <p>Europe: Bulgaria, Cyprus, France, Greece, Italy, Malta, Portugal, Russia, Spain</p> <p>Oceania: Australia, New Zealand</p>
28.	<p>[a]:<i>Aposphaeria ulei</i> Henn. (1904); (= <i>Fusicladium heveae</i> K. Schub. & U. Braun (2003) =<i>Fusicladium macrosporum</i> Kuyper (1911) =<i>Passalora heveae</i> Masee 1913</p> <p>[s]:<i>Microcyclus ulei</i> (Henn.) Arx (1962); (= <i>Dothidella ulei</i> Henn. (1904) =<i>Melanopsammopsis ulei</i> (Henn.) Stahel (1917)</p> <p>Ascomycota, Pezizomycotina, Dothideomycetes; American leaf blight of rubber</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<i>Hevea brasiliensis</i> (karet, rubber tree)	<p>plant, stem muda, leaf, fruit, alat angkut, alat pertanian, media pembawa lainnya</p>	<p>America: Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, Guyana, France, Guatemala, Guyana, Haiti, Honduras, Mexico, Nicaragua, Panama, Peru, Suriname, Trinidad and Tobago, Venezuela</p>
29.	<p>[a]:<i>Armillaria heimii</i> Pegler (1977); (= <i>Clitocybe elegans</i> R. Heim (1963);</p>	<p>I: for unprocessed</p>	<p><i>Anacardium occidentale</i> (jambu mede, cashew nut), <i>Camellia cinensis</i> (teh, tea),</p>	<p>root, stem, soil</p>	<p>Africa: Angola, Cameroon, DR Congo, Congo, Ivory Coast, Ethiopia, Gabon, Kenya,</p>

	<p><i>Armillariella elegans</i> (R. Heim, 1974) [s]: - Basidiomycota, Agaricomycotina, Agaricomycetes; armillaria root rot; honey root rot</p>	<p>commodity II. for processed commodity</p>	<p><i>Coffea arabica</i> (kopi, arabica coffe), <i>Coffea canephora</i> (kopi, robusta coffea), <i>Hevea brasiliensis</i> (karet, rubber), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Pinus ellioti</i> (slash pine), <i>Pinus radiate</i> (radiate pine), <i>Pinus taeda</i> (loblolly pine), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (Japanese plum), <i>Tectona grandis</i> (teak), <i>Theobromoa cacao</i> (coklat, cocoa) <i>Acacia mearnsii</i> (black wattle), <i>Acacia melanoxylon</i> (Australian blackwood), <i>Araucaria cunninghamii</i> (colonial pine), <i>Casuarina equisetifolia</i> (casuarinas), <i>Cinnamamum camphora</i> (camphor laurel), <i>Cocos nucifera</i> (kelapa , coconut), <i>Delonix regia</i> (gold mohar), <i>Eriobotrya japonica</i> (loquat), <i>Eucalyptus citriodora</i> (lemon-scented gum), <i>Grevillea robusta</i> (silky oak), <i>Jacaranda mimosifolia</i> (Brazilian rosewood), <i>Musa paradisiaca</i> (pisang kepok, plantain), <i>Pinus strobes</i> (eastern white pine), <i>Prunus</i></p>		<p>Madagascar, Mozambique, Nigeria, Reunion, South Africa, Tanzania, Uganda, Zambia, Zimbabwe</p>
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			(buah batu, stone fruit), Schinus molle (false pepper tree), swietenia (mahogany).		
30.	[a]: <i>Ascochyta boltshauseri</i> Sacc. = <i>Stagonosporopsis hortensis</i> = <i>Stagonospora hortensis</i> = <i>Ascochyta hortensis</i> = <i>Stagonosporopsis boltshauseri</i> = <i>Phoma boltshauseri</i> = <i>Hendersonia hortensis</i> = <i>Phoma subboltshauseri</i>); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; bean blotch, bean leaf spot	I: for unprocessed commodity II. for processed commodity	<i>Vigna</i> spp. (buncis, cowpea) Fabaceae, Poaceae	seed, pod, leaf, stem, soil	America: Colombia
31.	[a]: <i>Ascochyta gossypii</i> (Woronichin) Syd.; [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; ascochyta blight of cotton, ascochyta leaf spot, ascochyta seedling blight, ashen spot, wet weather blight of cotton.	I: for unprocessed commodity II. for processed commodity	<i>Gossypium barbadens</i> (kapas, cotton) <i>Capsicum annuum</i> (cabai, hot pepper, chilies, red pepper), <i>Abelmoschus moschatus</i> (okra, lady's finger), <i>Solanum melongena</i> (terung, eggplant, aubergine), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Glycine max</i> (kedelai, soybean), <i>Vigna unguiculata</i> , <i>Hibiscus</i> spp., <i>Vigna</i> spp. (buncis, cowpea)	seed, fruit, leaf, stem	Africa: Benin, DR Congo, Ethiopia, Kenya, Mauritius, Nigeria, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe America: Argentina, Brazil, Chile, Colombia, Guatemala, Jamaica, Mexico, Panama, Puerto Rico, USA, Venezuela Asia: Armenia, Azerbaijan, China, Taiwan, Georgia, India, Japan, Korea, Laos, Malaysia, Philippines Europe: Greece

					Oceania: Australia, Papua New Guinea
32.	<p>[a]: <i>Boeremia exigua</i> var. <i>linicola</i> (Naumov & Vassiljevsky) Aveskamp, Gruyter & Verkley (2010); (= <i>Ascochyta linicola</i> Naumov & Vassiljevsky (1926)</p> <p>[s]: <i>Phoma exigua</i> f. sp. <i>linicola</i> (Naumov & Vassiljevsky) Malc. & E.G. Gray (1968) = <i>Phoma exigua</i> var. <i>linicola</i> (Naumov & Vassiljevsky) P.W.T. Maas (1965) = <i>Phoma belgica</i> Cash (1972) = <i>Phoma linicola</i> É.J. Marchal & Verpl. (1926) = <i>Diplodina lini</i> Moesz & Smarods (1930)</p> <p>Ascomycota, Pezizomycotina, Dothideomycetes; foot rot of flax</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Linum ussitatissimum</i> (flax)</p> <p><i>Vigna</i> spp. (buncis, cowpea)</p>	<p>fruit, flower, seed, stem, root,</p>	<p>America: Canada</p> <p>Europe: Belgium, Czech, Denmark, Estonia, France, Germany, Italy, Latvia, Netherlands, Russia, Spain, Slovakia</p> <p>Oceania: Australia, New Zealand</p>
33.	<p>[a]: <i>Botrytis aclada</i> Fresen. = <i>Botrytis allii</i> Munn = <i>Botrytis septospora</i> El-Helaly et al.;</p> <p>[s]: -</p> <p>Ascomycota, Pezizomycotina,</p>	<p>I: for unprocessed commodity</p> <p>II. for processed</p>	<p><i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (onion), <i>Allium cepa</i> var. <i>aggregatum</i> (shallot)</p> <p><i>Allium porrum</i> (leek), <i>Allium sativum</i> (garlic)</p>	<p>umbi lapis, leaf, flower, seed</p>	<p>Africa: Egypt, Kenya, Morocco, South Africa, Tanzania, Zambia</p> <p>America: Costa Rica, Guatemala, Jamaica, Panama, Canada, USA, Brazil, Chile, Colombia, Venezuela</p>

	<i>Leotiomyces</i> ; grey mould of onion, neck rot of onion, leaf rot of onion, small sclerotial neck rot fungus, neck rot fungus, grey mould neck rot of onion, small sclerotial onion neck rot	d commodity			Asia: Afghanistan, Bangladesh, China, Taiwan, India, Iran, Iraq, Israel, Japan, Korea Republic of (South Korea), Nepal, Pakistan, Saudi Arabia, Turkey, Vietnam Europe: Austria, Belgium, Bulgaria, Cyprus, Czech Republic and Slovakia, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Italy, Netherlands, Norway, Poland, UK Oceania: Australia, New Zealand
34.	[a]: <i>Botrytis gladiolorum</i> Timmerm(1941)(= <i>Sclerotinia draytonii</i>) [s]: <i>Botryotinia draytonii</i> (Buddin & Wakefield) Seaver; Ascomycetes; corm rot	I: for unprocessed commodity II. for processed commodity	<i>Gladiolus</i> spp.	bulb, tuber, corm, plant	Asia: Pakistan
35.	[a]: <i>Botrytis porri</i> N.F. Buchw. (1949); (= <i>Sclerotinia porri</i> J.F.H. Beyma (1927) [s]: <i>Botryotinia porri</i> (H.J.F.	I: for unprocessed commodity	<i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (onion), <i>Allium porrum</i> (leek)	umbilic, leaf, flower, seed	America: Canada, USA, Chile Europe: Finland, Germany, Hungary, Norway, UK Oceania: Australia, New Zealand

	Beyma) Whetzel (1945); Ascomycetes; Botrytis rot of garlic, Botrytis rot of leek, seedling damping-off of onion, neck rot of onion, mycelia onion neck rot	II. for processe d commod ity			
36.	[a]: <i>Botrytis squamosal</i> J.C. Walker, (1925) [s]: <i>Botryotinia squamosal</i> Vienn.-Bourg. (1953); (= <i>Sclerotinia squamosa</i> (Vienn.-Bourg. 1956) <i>Ascomycota</i> , <i>Pezizomycotina</i> , <i>Leotiomyces</i> ; leaf blight of onion, neck rot of onion, small sclerotial neck rot, onion leaf blight, onion neck rot	I: for unproce ssed commod ity II. for processe d commod ity	<i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (onion) <i>Allium chinense</i> (spring onion), <i>Allium fistulosum</i> (Welsh onion), <i>Allium</i> <i>schoenoprasum</i> (chives), <i>Allium tuberosum</i> (Oriental garlic)	umbi lapis,leaf, flower, seed	Africa: Mauritius America: Canada, USA, Brazil Asia: China, Japan, Korea, DPR, Korea Republic of (South Korea) Europe: Belgium, Bulgaria, Czech Republic, France, Germany, Ireland, Italy, Netherlands, Poland, UK, Scotland Oceania: New Caledonia, New Zealand
37.	[a]: <i>Botrytis tulipae</i> Lind. (1913) = <i>Sclerotium tulipae</i> Lib. = <i>Botrytis parasitica</i> Cavara (1888); [s]: - <i>Ascomycota</i> , <i>Pezizomycotina</i> , <i>Leotiomyces</i> ; tulip fire	I: for unproce ssed commod ity II. for processe d commod ity	<i>Tulipa</i> (tulip) <i>Allium cepa</i> (onion), <i>Lilium</i> (lily)	umbi lapis,leaf, flower, seed	America: Canada, USA, Argentina, Chile Asia: Iraq, Japan, Korea, DPR, Korea Republic of (South Korea), Philippines Europe: Austria, Belgium, Bulgaria, Czech Republic and Slovakia, Denmark, Finland, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan,

					Uzbekistan, Ukraina, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Guernsey, Hungary, Italy, Jersey, Netherlands, Norway, Portugal, Romania, Switzerland, UK Oceania: Australia, New Zealand
38.	[a]: <i>Catacauma huberi</i> (Henn.) Theiss. & Syd. 1915; (= <i>Phyllachora huberi</i> Henn. (1900)) [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; black spot, tar spot	I: for unprocessed commodity II. for processed commodity	<i>Hevea brasiliensis</i> (karet, rubber tree)	leaf, stem muda	America: Brazil, Guyana
39.	[a]: <i>Cephalosporiumgregatum</i> Alling & Chamb; = <i>Acremoniumgregatum</i> = <i>Phialophora gregata</i> (Allington & D.W. Chamb.) W. Gams, (1971); [s]: <i>Cadophora gregata</i> (Allington & D.W. Chamb.) T.C. Harr. &	I: for unprocessed commodity II. for processed commodity	<i>Glycine max</i> (kedelai, soybean)	seed	Africa: Egypt America: Canada, Mexico, USA Asia: Japan Europe: Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia

	McNew, (2003); Ascomycota, Pezizomycotina, Sordariomycetes; brown stem rot				
40.	[a]: <i>Cercospora duddiae</i> Welles (1923); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; leaf spot of onion and garlic, withertip onion of and garlic, leaf spot: garlic, leaf spot: onion	I: for unproce ssed commod ity II. for processe d commod ity	<i>Allium ascalonicum</i> (bawang merah, shallot), <i>Allium schoenoprasum</i> (bawang daun/leeks, chives)	plant, leaf	America: Barbados, Jamaica Asia: India
41.	[a]: <i>Cercospora elaeidis</i> Steyaert (1948); [s]: <i>Pseudospiropes elaeidis</i> (Steyaert) Deighton, (1985); Ascomycota, Pezizomycotina, Dothideomycetes; cercospora leaf spot, freckle of oil palm, leaf spot of oil palm, oil palm leaf spot	I: for unproce ssed commod ity II. for processe d commod ity	<i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	fruit, seed, leaf,	Africa: Angola, Benin, Cameroon, DR Congo, Congo, Gabon, Ghana, Guinea- Bissau, Guinea, Ivory Coast, Liberia, Nigeria, Sao Tome & Principe, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Zimbabwe, Antilles Netherlands, Suriname Oceania: Australia
42.	[a]: <i>Cercospora epipactidis</i> ; = <i>Cercospora missal</i> ex. Sacc. (1911); [s]: - Ascomycota, Pezizomycotina,	I: for unproce ssed commod ity II. for	Orchidaceae (anggrek, orchids)	leaf, stem, flower stalk	Europe: Italy, Germany, Russia.

	Dothideomycetes; leaf spot	processed commodity			
43.	[a]: <i>Colletotrichum kahawae</i> J.M Waller & Bridge (1993); (= <i>Colletotrichum coffeanum</i> = <i>C. coffeanum</i> 'var. <i>virulans</i> '); [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; anthracnose of coffee, brown blight of coffee, coffee berry disease	I: for unprocessed commodity II. for processed commodity	<i>Coffea</i> spp. (kopi, coffee)	fruit, flower, stem,	Africa: Angola, Burundi, Cameroon, Central Africa, DR Congo, Congo, Ethiopia, Kenya, Malawi, Mozambique, Rwanda, Tanzania, Uganda, Zambia, Zimbabwe America: Cuba
44.	[a]: <i>Colletotrichum sublineolum</i> (Henn.) ex Sacc. & Trotter (1913) = <i>Colletotrichum sublineolum</i> Henn. ex Sacc. & Trotter (1913); [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; sorghum anthracnose, stalk red rot of sorghum, red leaf spot of sorghum, head blight of sorghum	I: for unprocessed commodity II. for processed commodity	<i>Sorghum bicolor</i> (sorghum, sorghum) <i>Poaceae</i> (grasses), <i>Zizania aquatica</i> (annual wildrice)	seed, flower, leaf, stem,	Africa: Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central Africa, Chad, DR Congo, Ethiopia, Ghana, Guinea, Kenya, Malawi, Mali, Mozambique, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe. America: Argentina, Brazil, Barbados, Canada, Colombia, Costa Rica, Cuba, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua,

					<p>Panama, Puerto Rico, Trinidad and Tobago, USA, Guyana, Venezuela</p> <p>Asia: Afghanistan, Bangladesh, Cambodia, China, Taiwan, India, Japan, South Korea, Lebanon, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand.</p> <p>Europe: Romania, UK.</p> <p>Oceania: Australia, Papua New Guinea, Solomon Islands</p>
45.	<p>[a]: <i>Coniothyrium fuckelii</i> Sacc. (1878); (= <i>Microsphaeropsis fuckelii</i> (Sacc.) Boerema</p> <p>[s]: <i>Sphaeria coniothyrium</i> Fuckel, (1870); (= <i>Leptosphaeria coniothyrium</i> (Fuckel) Sacc., (1875); <i>Diaplella coniothyrium</i> (Fuckel) M.E. Barr, (1986); <i>Kalmusia coniothyrium</i> (Fuckel) Huhndorf, (1992); <i>Melanomma coniothyrium</i> (Fuckel) L. Holm, (1957); <i>Sphaeria coniothyrium</i> Fuckel, (1870)</p> <p>Ascomycota, Pezizomycotina,</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Rubus</i> spp., <i>Rosa</i> spp. (mawar, rose). <i>Ribes</i>, <i>Vaccinium</i>, <i>Fragaria</i>, <i>Bambusa</i>, <i>Juniperus</i>, <i>Malus domesticum</i> (apel, apple), <i>Pinus sylvestris</i>, fruit batu (stone fruit), <i>Taxus</i>, <i>Thuja</i></p>	<p>plant, stem, growing media</p>	<p>Africa: Kenya, Malawi, Morocco, Nigeria, South Africa, Uganda, Zambia, Zimbabwe</p> <p>America: Argentina, Brazil, Colombia, Cuba, Canada, USA</p> <p>Asia: Bangladesh, Brunei, China, India, Japan, Kuwait, Malaysia, Nepal, Pakistan, Thailand, Turkmenistan</p> <p>Europe: Austria, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Poland, Portugal, Rusia, Slovakia, Spain, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia,</p>

	Dothideomycetes; cane blight, rose blight, apple canker, pine needle blight, rose stem canker				Oceania: Australia, Fiji, New Zealand, Papua New Guinea
46.	[a]: <i>Coniothyrium wernsdorffiae</i> Laubert (19105); = <i>Coniothyrium cystotricha</i> ; [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; rose brand canker	I: for unprocessed commodity II. for processed commodity	<i>Rosa</i> spp. (mawar, rose)	plant, stem	America: Canada, USA Europe: Austria, Bulgaria, Denmark, France, Germany, Greece, Italy, Lithuania, Netherlands, Poland, Rusia, Sweden, Ukraine, UK Oceania: Australia
47.	[a]: <i>Cylindrocarpon heteronemum</i> (Berk. & Broome) Wollenw. (1928); (= <i>Fusarium willkommii</i> J. Lindau (1909) = <i>Cylindrocarpon willkommii</i> (Lindau) Wollenw. (1928) = <i>Cylindrocarpon willkommii</i> var. <i>minus</i> Wollenw. (1928) = <i>Cylindrocarpon willkommii</i> var. <i>pluriseptatum</i> Wollenw. (1928) [s]: <i>Neonectria ditissima</i> (Tul. & C. Tul.) Samuels & Rossman (2006);	I: for unprocessed commodity II. for processed commodity	<i>Albizia lebbek</i> , <i>Acer pseudoplatanus</i> , <i>Aesculus hippocastanum</i> , <i>Ainus glutinosa</i> , <i>Batula pubescens</i> , <i>Juglans</i> sp, <i>Fraxinus excelsior</i> , <i>Fogus silvatica</i> , <i>Platanus orientalis</i> , <i>Pupulus</i> spp, <i>Quercus robus</i> , <i>Salix alba</i> , <i>S. vitallina</i> , <i>Tillia</i> spp, <i>Ulmus glabra</i>	stem, fruit, pod	Africa: South Africa, Madagascar America: North America Asia: Japan Europe: England

	<p>(=<i>Nectria ditissima</i> Tul. & C. Tul. (1865) =<i>Nectria ditissima</i> var. <i>ditissima</i> Wollenw. (1865) =<i>Nectria ditissima</i> var. <i>arctica</i> Wollenw. (1926) =<i>Nectria galligena</i> Bres.(1901) =<i>Neonectria galligena</i> (Bres.) Rossman & Samuels (1999) =<i>Fusarium heteronemum</i> Berk. & Broome (1865) =<i>Cylindrocarpon heteronema</i> (Berk. & Broome) Wollenw. (1928) =<i>Nectria magnoliae</i> M.L. Lohman & Hepting (1943) =<i>Fusarium mali</i> Allesch. (1892) =<i>Cylindrocarpon mali</i> (Allesch.) Wollenw. (1928)</p> <p>Ascomycota, Pezizomycotina, Sordariomycetes; Hardwoods perennial canker, nectria cancer</p>				
48.	<p>[a]:<i>Dematophora necatrix</i> R. Hartig (1883) =<i>Graphium desmazierii</i> Sacc. (1878)[1879] =<i>Hypoxylon necatrix</i> (R. Hartig) P.M.D. Martin (1976)</p>	<p>I: for unprocessed commodity II. for</p>	<p><i>Actinidia deliciosa</i> (kiwi, kiwi fruit), <i>Begonia</i>, <i>Boehmeria nivea</i> (rami, ramie), <i>Camellia sinensis</i> (teh, tea), <i>Citrus</i> spp., <i>Cydonia oblonga</i>, <i>Cynara scolymus</i> (artisyok,</p>	<p>plant, bulb, tuber, corm, root, stem, growing</p>	<p>Africa: Central Africa, DR Congo, Ethiopia, Kenya, Morocco, Mozambique, Nigeria, South Africa, Réunion America: Argentina, Brazil, Colombia, Dominica, Mexico,</p>

	<p>=<i>Rhizomorpha necatrix</i> R. Hartig (1883) [s]:<i>Rosellinia necatrix</i> Prill.(1902); Ascomycota, Pezizomycotina, Sordariomycetes; dematophora root rot, white root rot of trees</p>	<p>processed commodity</p>	<p>artichoke), <i>Cyclamen</i>, <i>Dianthus</i>, <i>Eriobotrya japonica</i>, <i>Ficus carica</i>, <i>Fragaria vesca</i> (arbei, strawberry), <i>Jasminum sambac</i> (melati, jasmine), <i>Malus domesticum</i> (apel, apple), <i>Morus</i>, <i>Narcissus</i>, <i>Olea europea</i> sub sp. <i>europea</i> (zaitum, olive), <i>Paeonia</i>, <i>Populus</i>, <i>Prunus cerasus</i> (ceri, cherry), <i>Pyrus communis</i> (pir, pear), <i>Rosa</i> spp. (mawar, rose), <i>Viola</i>, <i>Vitis vinifera</i> (anggur, grapevine) cereal, <i>Abies alba</i>, <i>Acacia</i>, <i>Acer</i>, <i>Aesculus</i>, <i>Annona</i>, <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Beta vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beet), <i>Berberis</i>, <i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Ceanothus megacarpus</i>, <i>Cedrus atlantica</i>, <i>Coffea</i> spp. (kopi, coffee), <i>Castanea sativa</i>, <i>Cotoneaster</i>, <i>Carya</i>, <i>Corylus avellana</i>, <i>Cyperus esculentus</i>, <i>Daucus carota</i> (wortel, carrot), <i>Diospyros</i>, <i>Eucalyptus</i>, <i>Fagus</i>, <i>Feijoa</i></p>	<p>media</p>	<p>USA Asia: China, Taiwan, Georgia, India, Iran, Iraq, Israel, Japan, South Korea, Lebanon, Philippines, Turkey Europe: Austria, Bulgaria, Cyprus, France, Germany, Greece, Italy, Portugal, Romania, Southern Russia, Spain, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Oceania: New Zealand</p>
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			<p> <i>sellowiana</i>, <i>Fragaria</i>, <i>Gladiolus</i> hybrids, <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Humulus lupulus</i>, <i>Hyacinthus</i>, <i>Ilex aquifolium</i>, <i>Iris</i>, <i>Juglans</i>, <i>Juglans regia</i>, <i>Ixia</i>, <i>Lavandula</i>, <i>Larix decidua</i>, <i>Ligustrum vulgare</i>, <i>Laurus nobilis</i>, <i>Malus</i>, <i>Manihot esculenta</i> (ubi wood, cassava), <i>Macadamia</i>, <i>Medicago sativa</i>, <i>Mangifera indica</i> (mangga, mango), <i>Passiflora quadrangularis</i> (markisa, passion- fruit, granadilla), <i>Persea americana</i> (alpokat, avocado), <i>Pelargonium</i>, <i>Phaseolus</i>, <i>Pistacia vera</i>, <i>Picea abies</i>, <i>Piper nigrum</i> (lada, pepper), <i>Pinus merkusii</i> (tusam, pinetree), <i>Platanus</i>, fruit batu (stone fruit), <i>Protea</i>, <i>Punica granatum</i> (delima, pomegranate), <i>Pyracantha</i>, <i>Pyrus communis</i> (pir, pear), <i>azalea</i>, <i>Ribes</i>, <i>Rubus</i> spp., <i>Rumex</i>, <i>Salix</i>, <i>Solanum tuberosum</i> (kentang, potato), <i>Sorbus aucuparia</i>, </p>		
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			<i>Theobroma cacao</i> (kakao, cocoa), <i>Crocasmia crocosmiiflora</i> , <i>Tulipa</i> , <i>Ulmus</i> , <i>Viburnum</i> , <i>Vicia</i> , <i>Vitis</i> , <i>Zea mays</i> (jagung, corn, maize), <i>Ziziphus jujuba</i> , <i>Zantedeschia</i>		
49.	[a]: <i>Denticularia mangiferae</i> (Bitanc. & Jenkins) Alcorn, Grice & R.A. Peterson 1999 = <i>Sphaceloma mangiferae</i> Bitanc. & Jenkins 1956 [s]: <i>Elsinoe mangiferae</i> Bitanc. & Jenkins 1946 Ascomycetes; mango scab	I: for unprocessed commodity II. for processed commodity	<i>Mangifera indica</i> (mangga, mango)	leaf, fruit	Africa: Kenya America: Brazil, Canada, Cuba, Dominica, Haiti, Jamaica, Panama, Puerto Rico, USA Asia: Taiwan, India, Nepal, Philippines Oceania: Australia
50.	[a]: <i>Diplodia laelio-cattleyae</i> Sibia (1927); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; leaf spot	I: for unprocessed commodity II. for processed commodity	<i>Cattleya</i> sp. (anggrek cattleya, cattleya)	plant, leaf	America: all
51.	[a]: <i>Fusarium avenaceum</i> (Fr.: Fr.) Sacc. (1886) = <i>Fusarium roseum</i> var. <i>avenaceum</i> Fr.: Fr.) Wollenw. (1930)	I: for unprocessed commodity	<i>Albizia julibrissin</i> (silk tree) <i>Clausena lansium</i> (wampi), <i>Cucurbita</i> (pumpkin), <i>Fraxinus excelsior</i> (ash), <i>Gossypium</i> (cotton), <i>Ipomea</i>	seed, roots, fruit, stem, growing media	Africa: Kenya, Nigeria America: Brazil, Chile, Mexico, Puerto Rico, Peru, USA Asia: China, India, Iran Europe: Hungary, Poland,

	<p>=<i>Fusarium avenaceum</i> f.sp. <i>fabae</i> =<i>Fusarium avenaceum</i> subsp. <i>aywerte</i>) [s]: <i>Gibberella avenaceae</i> R.J. Cook (1967); Ascomycota, Pezizomycotina, Sordariomycetes; Fusarium blight; head blight; stem base disease; scab</p>	<p>II. for processed commodity</p>	<p><i>batatas</i>, (sweet potato), <i>Morus</i> (melberrytree), <i>Oryza sativa</i> (rice), <i>Piper betle</i> (betel pepper), <i>Pseudotsuga menziesii</i> (Douglas-fir), <i>Pyrus communis</i> (European pear), <i>Solanum tuberosum</i> (potato), <i>Theobroma cacao</i> (cocoa)</p>		<p>Slovenia, UK Oceania: Australia, New Zealand.</p>
52.	<p>[a]:<i>Fusarium chlamydosporum</i> Wollenw. & Reinking 1925; (= <i>Fusarium fusarioides</i> (Gonz. Frag. & Cif.) C. Booth 1971; <i>Fusarium sporotrichioides</i> var. <i>chlamydosporum</i> (Wollenw. & Reinking) Joffe 1974 = <i>Dactylium fusarioides</i> Gonz. Frag. & Cif. 1928 [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; wilt cotton</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Morus</i> (mulberrytree), <i>Pennisetum glaucum</i> (pearl millet), <i>Sorghum bicolor</i> (sorghum, sorghum)</p>	<p>seed, root, stem, growing media</p>	<p>Africa: widespread, Nigeria America: USA. Asia: China, India (Haryana), Saudi Arabia. Oceania: Australia</p>
53.	<p>[a]:<i>Fusarium graminearum</i> Schwabe (1838) (= <i>Fusarium roseum</i> Link emend Snyder & Hansen (1945)</p>	<p>I: for unprocessed commodity</p>	<p><i>Alopecurus pratensis</i> (Meadow foxtail), <i>Avena sativa</i> (oats), <i>Glycine max</i> (kedelai, soyabean), <i>Hordeum vulgare</i> (barley),</p>	<p>seed, fruit, flower, leaf, root, stem, growing</p>	<p>Africa: widespread, Egypt, Gambia, Kenya, Malawi, Nigeria, South Africa, Tunisia, Zambia, Zimbabwe. America: Costa Rica,</p>

<p>[s]: <i>Gibberella zeae</i> (Schwein.: Fr.) Petch (1936); (= <i>Sphaeria zeae</i> Schwein.: Fr. (1822) =; <i>Gibberella roseum</i> (Link) W.C. Snyder & E.M. Hans. (1945) =; <i>Gibberella roseum</i> f. <i>cerealis</i> (Cooke) W.C. Snyder & H.N. Hansen; = <i>Gibberella saubinetii</i>; = <i>Gibberella cyanogena</i>; <i>Dothidea zeae</i> Schwein. (1832)</p> <p>Ascomycota, Pezizomycotina, Sordariomycetes; headblight of maize, scab of maize, root rot of maize, stalk rot of maize, ear rot of maize, gibberella stalk rot, gibberella ear rot, red ear rot, pink ear rot, fusarium root and stalk rot, cobweb disease</p>	<p>II. for processe d commod ity</p>	<p><i>Linum usitatissimum</i> (flax), <i>Lupinus</i> (lupins), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Oryza sativa</i> (padi, rice), <i>Pennisetum glaucum</i> (pearl millet), <i>Secale cereale</i> (rye), <i>Sorghum bicolor</i> (sorghum), <i>Triticum aestivum</i> (wheat), <i>Zea mays</i> (jagung, maize) <i>Acacia mearnsii</i> (black wattle), <i>Azadirachta indica</i> (neem tree), <i>Brassica</i>, <i>Dianthus</i> (carnation), <i>Gardenia jasminoides</i> (cape jasmine), <i>Gossypium</i> (cotton), <i>Lycopersicon</i>, <i>Mangifera indica</i> (mangga, mango), <i>Medicago</i> (medic), <i>Medicago littoralis</i> (strand medick), <i>Musa x paradisiaca</i> (plantain), <i>Panicum miliaceum</i> (millet), <i>Phaseolus vulgaris</i> (common bean), <i>Pinus sylvestris</i> (Scots pine), <i>Pisum</i> (pea), <i>Rubus idaeus</i> (raspberry), <i>Solanum</i> (nightshade), <i>Trifolium</i> (clovers), <i>Triticale</i>, <i>Vicia faba</i> (Broad bean), <i>Zingiber officinale</i> (jahe, ginger)</p>	<p>media</p>	<p>Dominica, Grenada, Honduras, St. Lucia, St. Vincent and the Grenadines, Windward Island, Canada, Mexico, USA., Argentina, Bolivia, Brazil, Colombia, Paraguay, Peru, Uruguay. Asia: China, Iran, Japan, Kazakhstan, South Korea, Lebanon, Pakistan, Saudi Arabia, Sri Lanka, Turkey. Europe: Austria, Bulgaria, Croatia, Czech, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Russia, Serbia-Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Oceania: Australia, Fiji, New Zealand. Papua New Guinea, Solomon Islands</p>
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54.	[a]: <i>Fusarium oxysporum</i> f.sp. <i>elaeidis</i> Schltdl.: Fr. (1824) (= <i>Fusarium angustum</i> Sherb. (1915); [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; fusarium wilt of oil palm, vascular oil palm wilt	I: for unprocessed commodity II. for processed commodity	<i>Elaeis guineensis</i> (kelapa sawit, oilpalm)	seed, fruit, flower, stem, leaf, root, growing media	Africa: Benin, Cameroon, DR Congo, Congo, Ivory Coast, Ghana, Nigeria America: Brazil, Colombia, Ecuador, Suriname, Costa Rica
55.	[a]: <i>Fusarium sporotrichioides</i> Sherb. (1915); (= <i>Fusarium sporotrichiella</i> var. <i>sporotrichioides</i> (Sherb.) Bilai (1953); <i>Fusarium sporotrichioides</i> var. <i>sporotrichioides</i> Sherb. (1915) [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; kernel rot of maize, blight of grasses, foot rot of carnation	I: for unprocessed commodity II. for processed commodity	<i>Avena sativa</i> (oats), <i>Hordeum vulgare</i> (barley), <i>Lolium perenne</i> (perennial ryegrass), <i>Triticum aestivum</i> (wheat), <i>Zea mays</i> (maize) <i>Glycine max</i> (soyabean), <i>Medicago sativa</i> (lucerne), <i>Pinus strobus</i> (eastern white pine), <i>Pisum sativum</i> (pea), turfgrasses, <i>Zizania palustris</i> (northern wild rice (USA)	seed, stem, growing media	Africa: Egypt, Kenya, Sierra Leone, South Africa, Tanzania America: Barbados, Canada, USA, Brazil Asia: China, India, Japan, Pakistan, Thailand, Turkey Europe: Austria, Cyprus, Czech Republic, Denmark, Germany, Ireland, Italy, Poland, Portugal, Russia, UK Oceania: Australia, New Zealand
56.	[a]: <i>Fusarium xylarioides</i> Steyaert (1948); = <i>Fusarium lateritium</i> f. sp. <i>xylarioides</i> W.L. Gordon (1965); = <i>Fusarium oxysporum</i> f. <i>xylarioides</i> (Steyaert) Delassus	I: for unprocessed commodity II. for processed	<i>Coffea</i> spp. (kopi, coffee) <i>Gossypium barbadens</i> (kapas, cotton), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Musa paradisiaca</i> (pisang kepok, plantain)	root, stem, growing media	Africa: Angola, Burkina Faso, Cameroon, Central Africa, Congo, DR Congo, Ivory Coast, Ethiopia, Gabon, Gambia, Ghana, Guinea-Bissau, Guinea, Niger, Nigeria, Rwanda, Senegal, South

	(1954) [s]: <i>Gibberella xylarioides</i> R. Heim & Saccas (1950) Ascomycota, Pezizomycotina, Sordariomycetes; coffee wilt, sudden death of coffee, tracheomycosis of coffee, vascular wilt of coffee	d commodity			Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zimbabwe America: El Salvador
57.	[a]: <i>Fusicladium porni</i> (Fr.: Fr.) Lind; (= <i>Spilocaea porni</i> Fr.: Fr. = <i>Spilocaea amelanchieris</i> I.C. Harv. = <i>Actinonema crataegi</i> Pers. = <i>Capillaria crataegi</i> (Pers.) Link = <i>Phlyctidium crataegi</i> (Pers.) Wallr. = <i>Spilocaea crataegi</i> (Pers.) S. Hughes = <i>Asteroma crataegi</i> (Pers.) Rabenh. = <i>Asteroma crataegi</i> var. <i>porni</i> Desm. = <i>Asteroma crataegi</i> var. <i>sorbi</i> Desm. = <i>Cladosporium dendriticum</i> Wallr. = <i>Fusicladium dendriticum</i> f. <i>microsperma</i> Roum. = <i>Fusicladium dendriticum</i> var. <i>eribotyrae</i> Scalia = <i>Fusicladium dendriticum</i> var. <i>pyracanthae</i> Thüm. = <i>Fusicladium dendriticum</i>	I: for unprocessed commodity II. for processed commodity	<i>Malus domesticum</i> (apel, apple) <i>Crataegus laevigata</i> , <i>Cotoneaster</i> , <i>Malus</i> , <i>Pyracantha</i> , <i>Pyrus communis</i> (pir, pear), <i>Sorbus</i> , <i>Viburnum</i>	fruit, flower, leaf, stem	Africa: Egypt, Ethiopia, Ghana, Kenya, Libya, Morocco, South Africa, Zimbabwe America: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Guatemala, Mexico, Peru, USA, Uruguay Asia: Afghanistan, Bhutan, China, India, Iran, Iraq, Israel, Japan, Jordan, Korea, Lebanon, Pakistan, Saudi Arabia, Syria, Turkey Europe: Austria, Belgium, Bulgaria, Cyprus, Czech, Slovakia, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Malta, Netherlands, Norway, Poland, Portugal, Romania, Rusia, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia

	<p>var. <i>sorbi-torminalis</i> Savul. & Sandu =<i>Fusicladium dendriticum</i> var. <i>sorbinum</i> Sacc. =<i>Basiascum eriobotryae</i> Cavara =<i>Fusicladium</i> <i>eriobotryae</i> (Cavara) Cavara =<i>Fusicladium</i> <i>melanconioides</i> Ferraris =<i>Spilocaea eriobotryae</i> (Cavara) S. Hughes =<i>Fusicladium lalandi</i> É.J. Marchal & Verpl. =<i>Asteroma mali</i> Desm. =<i>Coniosporium mali</i> Dearn. & W.R. Foster =<i>Fumago mali</i> Pers. =<i>Cladosporium</i> <i>orbiculatum</i> Desm. =<i>Fusicladium orbiculatum</i> (Desm.) Thüm. =<i>Passalora dendritica</i> var. <i>orbiculata</i> (Desm.) Berk. =<i>Fusicladium dendriticum</i> var. <i>orbiculatum</i> (Desm.) Sacc. =<i>Fusicladium</i> <i>photinicola</i> McClain =<i>Spilocaea photinicola</i> (McClain) M.B. Ellis =<i>Spilocaea photiniicola</i> (McClain) M.B. Ellis =<i>Fusicladium pirinum</i> var.</p>				<p>Oceania: Australia, New Zealand</p>
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<p> <i>amelanchieris</i> Sacc. =<i>Fusicladium pirinum</i> var. <i>pyracanthae</i> Thüm. =<i>Fusicladium pirinum</i> var. <i>pyracanthae</i> Thüm. =<i>Actinonema pomi</i> Lév. =<i>Passalora pyracanthae</i> G.H. Otth =<i>Spilocaea</i> <i>pyracanthae</i> (G.H. Otth) Arx =<i>Fusicladium</i> <i>pyracanthae</i> (G.H. Otth) Vienn.-ourg. =<i>Napicladium soraueri</i> Thüm. =<i>Fusicladium</i> <i>dendriticum</i> var. <i>soraueri</i> (Thüm.) Sacc. =<i>Fusicladium dendriticum</i> var. <i>soraueri</i> (Thüm.) Sacc. =<i>Napicladium</i> <i>soraueri</i> Thüm. =<i>Fusicladium dendriticum</i> var. <i>soraueri</i> (Thüm.) Sacc. =<i>Scolecotrichum</i> <i>venosum</i> Bonord. =<i>Scolicotrichum venosum</i> Bonord.) [s]:<i>Venturia inaequalis</i> (Cooke) G.Winter; (=<i>Sphaerella inaequalis</i> Cooke =<i>Endostigme</i> <i>cinerascens</i> (Aderh.) Jorst. =<i>Spilosticta</i> </p>				
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	<p><i>cinerascens</i> (Aderh.) Petr. =<i>Didymosphaeria inaequalis</i> (Cooke) Niessl =<i>Endostigme inaequalis</i> (Cooke) Syd. =<i>Spilosticta inaequalis</i> (Cooke) Petr. =<i>Venturia inaequalis</i> var. <i>cinerascens</i> Aderh. =<i>Phaeosphaerella berlinensis</i> Kirschst. =<i>Venturia chlorospora</i> f. sp. <i>mali</i> Aderh. =<i>Sphaerella cinerascens</i> Fleischh. =<i>Sphaeria cinerascens</i> Fuckel =<i>Venturia inaequalis</i> f. sp. <i>mali</i> R. Menon)</p> <p>Ascomycota; Pleosporales; Venturiaceae; apple scab, apple black spot, apple scab, black spot</p>				
58.	<p>[a]:<i>Gloeocercospora sorghi</i> D.C. Bain & Edgerton ex Deighton, (1971); (= <i>Microdochium sorghi</i> (D.C. Bain & Edgerton ex Deighton) U. Braun, (1995);</p> <p>[s]: - Ascomycota, Pezizomycotina, Sordariomycetes; zonate</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Sorghum bicolor</i> (sorghum, sorghum) <i>Agrostis capillaris</i> (brown bentgrass), <i>Agrostis stolonifera</i> var. <i>palustris</i> (bent grass), <i>Cynodon dactylon</i> (Bermuda grass), <i>Pennisetum glaucum</i> (pearl millet), <i>Pennisetum purpureum</i> (elephant grass), <i>Saccharum officinarum</i> (tebu,</p>	<p>seed, leaf, plant</p>	<p>Africa: Benin, Burkina Faso, Central African Republic, Chad, Congo, Eritrea, Ethiopia, Gambia, Ghana, Kenya, Mali, Niger, Nigeria, Rwanda, Senegal, Somalia, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe. America: Belize, El Salvador, Guatemala, Haiti, Nicaragua, Panama, Mexico, USA,</p>

	leaf spot		sugarcane), <i>Sorghum halepense</i> (Johnson grass), <i>Sorghum sudanense</i> (Sudan grass), <i>Zea mays</i> (jagung, maize)		Argentina, Brazil, Venezuela. Asia: China, Taiwan, India, Japan, North Korea, Malaysia, Philippines, Thailand. Europe: Russia Oceania: American, Samoa, Australia, Samoa, Tonga.
59.	[a]: <i>Gloeodes pomigena</i> (Schwein.) Colby (1920) [s]: <i>Dothidea pomigena</i> Schwein. (1832); (= <i>Phyllachora pomigena</i> (Schwein.) Sacc. (1883) Ascomycota, <i>Gloeodes</i> ; sooty blotch on twig & fruit	I: for unprocessed commodity II. for processed commodity	<i>Malus domesticum</i> (apel, apple) <i>Citrus</i> spp., <i>Magnolia</i> spp., <i>Vitis vinifera</i> (anggur, grapevine), Orchidaceae (anggrek, orchid), <i>Quercus</i> spp.	leaf, branches, fruit	America: Brazil, USA Asia: India, Japan Europe: Germany
60.	[a]: <i>Heterosporium allii-cepae</i> Ranoj., (1910); (= <i>Cladosporium allii-cepae</i> (Ranoj.) M.B. Ellis, (1976) [s]: <i>Davidiella allii-cepae</i> (M.M. Jord., Maude & Burchill) Crous & U. Braun, (2003) Ascomycota, Pezizomycotina, Dothideomycetes; leafspot	I: for unprocessed commodity II. for processed commodity	<i>Allium cepa</i> (onion), <i>Allium porum</i> (leek), <i>Allium fistulosum</i> (welsh onion)	leaf, bulb, tuber, corm	America: Brazil Asia: South Korea Europe: Germany, Switzerland, UK
61.	[a]: <i>Hypoxylon nummularium</i> Bull., (1791); (= <i>Biscogniauxia nummularia</i> (Bull.)	I: for unprocessed commodity	<i>Camellia sinensis</i> (teh, tea), <i>Malus domesticum</i> (apel, apple), <i>Pyrus communis</i> (pir, pear)	plant, root, stem, growing media	Africa: Kenya, South Africa Asia: Japan Europe: UK

	<p>Kuntze, (1891); <i>Hypoxylon nummularium</i> var. <i>nummularium</i>; <i>Nemania decorticata</i> (Sowerby) Gray, (1821); <i>Nummularia nummularia</i> (Bull.) J. Schröt., (1897); <i>Numulariola nummularia</i> (Bull.) House, (1925); [s]: <i>Sphaeria decorticata</i> Sowerby, (1799) (= <i>Sphaeria decorticans</i> Sowerby; <i>Sphaeria</i> <i>nummularia</i> (Bull.) DC., (1805) Ascomycota, Pezizomycotina, Sordariomycetes; tea wood rot, tea root rot, rot root, tarry root rot</p>	<p>ity II. for processe d commod ity</p>	<p><i>Vitis vinifera</i> (anggur, grapevine)</p>		
62.	<p>[a]: <i>Micronectriella nivalis</i> (Schaffnit) C. Booth (1971) = <i>Fusarium nivale</i> = <i>Gerlachia nivalis</i> = <i>Fusarium nivale</i> f.sp. <i>graminicola</i> = <i>Fusarium</i> <i>nivale</i> var. <i>nivale</i> = <i>Fusarium nivale</i> var. <i>majus</i> = <i>Microdochium</i> <i>nivale</i> = <i>Calonectria</i> <i>graminicola</i> F. Stevens); [s]: <i>Monographella nivalis</i></p>	<p>I: for unprocesse d commod ity II. for processe d commod ity</p>	<p><i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barley), <i>Secale cereale</i> (rye), <i>Triticum</i> <i>aestivum</i> (gandum, wheat). <i>Agrostis canina</i> (velvet bentgrass), <i>Agrostis</i> <i>stolonifera</i> (creeping bentgrass), <i>Festuca rubra</i> (red fescue), <i>Oryza sativa</i> (padi, rice), <i>turfgrasses</i>.</p>	<p>seed, flower, leaf, stem, root</p>	<p>Africa: Egypt, Ethiopia, Senegal, Zambia. America: Canada, Mexico, USA, Bolivia, Brazil. Asia: Bahrain, China, India, Japan, Pakistan. Europe: Austria, Belgium, Czech, Denmark, Estonia, Finland, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan,</p>

	<p>(Schaffnit) E. Müll. (1977); (= <i>Calonectria nivalis</i> Schaffnit (1913) = <i>Griphosphaeria nivalis</i> (Schaffnit) E. Müll. & Arx (1955))</p> <p>Ascomycota, Pezizomycotina, Sordariomycetes; foot rot of cereals, snow blight of cereals, head blight of cereals, pink snow mould of cereals, seedling blight of cereals, snow mould of cereals, Fusarium patch of turf, Microdochium patch of turf, pink snow mould of turf</p>				<p>Tajikistan, Turkmenistan, Uzbekistan, Ukraina, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Iceland, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Serbia-Montenegro, Slovakia, Sweden, Switzerland, Ukraine, UK.</p> <p>Oceania: Australia, New Zealand</p>
63.	<p>[a]: <i>Monilia fructicola</i> L.R. Batra [s]: <i>Monilinia fructicola</i> (G. Winter) Honey (= <i>Sclerotinia fructicola</i> (G. Winter) Rehm)</p> <p>Ascomycota; Helotiales; Sclerotiniaceae; Brown rot, American brown rot of stone fruit, brown rot of apple, brown rot of cherry, twig canker of stone fruit</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum) <i>Carica papaya</i> (papaw), <i>Malus domestica</i> (apple), <i>Prunus armeniaca</i> (apricot), <i>Prunus cerasus</i> (sour cherry), <i>Prunus dulcis</i> (almond), <i>Rubus fruticosus</i> (blackberry)</p>	<p>flower, fruit, leaf, stalk fruit, growing media</p>	<p>Africa: Egypt, Nigeria, South Africa, Zimbabwe America: Canada, Mexico, USA, Guatemala, Panama, Argentina, Brazil, Bolivia, Chile, Ecuador, Paraguay, Peru, Uruguay, Venezuela Asia: China, India, Korea Republic of, Taiwan, Yemen Europe: Austria, Belgium, Czech Republic and Slovakia, France, Germany, Hungary,</p>

					Italy, Netherland, Serbia, Spain, Switzerland, UK Oceania: Australia, New Caledonia, New Zealand
64.	<p>[a]: <i>Monilia laxa</i> (Ehrenb.) Sacc. & Voglino (1886); (= <i>Oidium laxum</i> Ehrenb. (1818) = <i>Oospora laxa</i> (Ehrenb.) Wallr. (1833) = <i>Acrosporium laxum</i> (Ehrenb.) Pers. (1822) = <i>Sclerotinia cerasi</i> Woronin (1895) = <i>Stromatinia cerasi</i> (Woronin) Boud. (1907) = <i>Monilia cinerea</i> Bonord. (1851) = <i>Sclerotinia cinerea</i> (Bonord.) J. Schröt. (1893) = <i>Monilia oregonensis</i>)</p> <p>[s]: <i>Sclerotinia laxa</i> Aderh. & Ruhland (1905) (= <i>Stromatinia laxa</i> (Aderh. & Ruhland) (Chiffot, 1921))</p> <p>Ascomycota, Pezizomycotina, Leotiomyces; blossom blight, mummifying fruit, blossom wilt, brown rot of stone fruits, spur blight, twig canker, wither tip</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (peach), <i>Cydonia oblonga</i> (quince), <i>Malus domestica</i> (apple), <i>Prunus triloba</i> (Rose tree of China), <i>Pyrus communis</i> (European pear)</p>	<p>fruit, flower, leaf, stem</p>	<p>Africa: Morocco, South Africa America: Guatemala, Canada, USA, Argentina, Brazil, Chile, Uruguay, Asia: Afghanistan, Bhutan, China, India, Iraq, Israel, Japan, Lebanon, Turkey, Europe: Austria, Belgium, Bulgaria, Czech Republic, Czech Republic and Slovakia, Denmark, Finland, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, Ukraine, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Ireland, Italy, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia, New Zealand</p>

65.	<p>[a]: <i>Monilochaetes infuscans</i> Ellis & Halst. (1890); (= <i>Dischloridium cylindrospermum</i> S.K. Srivast. (1987)[1986])</p> <p>[s]: - Ascomycota, Pezizomycotina, Sordariomycetes; scurf of sweet potato, manure stain, soils stain</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Ipomoea batatas</i> (ubi jalar, sweet potato)</p>	<p>bulb, tuber, corm, stem, growing media</p>	<p>Africa: Sierra Leone, South Africa, Zimbabwe America: Argentina, Brazil, USA Asia: China, Taiwan, Israel, Japan, Korea, Sri Lanka Europe: Italy, Portugal Oceania: Australia, Palau, Cook Islands, Micronesia, New Zealand, Northern Mariana Island, Papua New Guinea, Vanuatu</p>
66.	<p>[a]: <i>Oidium anacardii</i> F. Noack (1898); (= <i>Acrosporium anacardii</i> (F. Noack) J.A. Stev. (1975) = <i>Oidium erysiphoides</i> f. <i>citri</i> J.M. Yen (1967) = <i>Oidium citri</i> (J.M. Yen) U. Braun (1982) = <i>Oidium heveae</i> B.A. Steinm. (1925) = <i>Acrosporium heveae</i> (B.A. Steinm.) Subram. (1971) = <i>Oidium mangiferae</i> Berthet (1914) = <i>Acrosporium mangiferae</i> (Berthet) Subram. (1971))</p> <p>[s]: <i>Erysiphe quercicola</i> S. Takam. & U. Braun (2007)</p> <p>Ascomycota,</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Anacardium occidentale</i> (jambu mete, cashew-nut)</p>	<p>plant, leaf, fruit</p>	<p>Africa: Malawi, Tanzania</p>

	Pezizomycotina, Leotiomycetes; powdery mildew				
67.	[a]: <i>Oidium passerinii</i> Bertol. [s]: <i>Podosphaera tridactyla</i> (Wallr.) de Bary(= <i>Podosphaera</i> <i>oxyacanthae</i> var. <i>tridactyla</i> (Wallr.) Salmon = <i>Podosphaera</i> <i>clandestina</i> var. <i>tridactyla</i> (Wallr.) W.B. Cooke = <i>Alphitomorpha tridactyla</i> Wallr. = <i>Erysiphe</i> <i>tridactyla</i> (Wallr.) Rabenh. = <i>Erysiphe</i> <i>bertolinii</i> Roum.) Ascomycota; Erysiphales; Erysiphaceae	I: for unproce ssed commod ity II. for processe d commod ity	<i>Prunus</i> (stone fruit), <i>Prunus</i> <i>armeniaca</i> (apricot), <i>Prunus</i> <i>avium</i> (sweet cherry), <i>Prunus</i> <i>dulcis</i> (almond)	fruit	Africa: Egypt, Libya, Morocco, South Africa, Spain America: Canada, USA, Argentina, Chile, Acuator, Peru Asia: Afghanistan, Armenia, Azerbaijan, Georgia Republic of, India, Iran, Iraq, Israel, Japan, Jordan, Korea Republic of, Kyrgyzstan, Lebanon, Saudi Arabia, Taiwan, Tajikistan, Turkey, Turkmenistan, Uzbekistan, Yemen Europe: Bulgaria, Czech Republic and Slovakia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Netherland, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukaraine, UK, Serbia and Monteneggro (Yugoslavia) Oceania: Australia, Ne Zealand
68.	[a]: <i>Penicillium expansum</i> Link. (= <i>Penicillium</i> <i>crustaceum</i> Link.	I: for unproce ssed	<i>Malus domestica</i> (apple) <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels	fruit	Africa: Egypt, Ghana, Kenya, Mauritius, Morocco, Nigeria, South Africa, Zimbabwe

	<p>=<i>Penicillium glaucum</i> Stoll.)</p> <p>[s]: - Ascomycota; Eurotiales; Trichocomaceae; Blue mould of stored apple, soft rot of apple, soft rot of grape, storage rot of fruit</p>	<p>commodity</p> <p>II. for processed commodity</p>	<p>sprouts), <i>Cydonia oblonga</i> (quince), <i>Fragaria ananassa</i> (strawberry), <i>Gossypium hirsutum</i> (<i>Bourbon cotton</i>), <i>Hordeum vulgare</i> (barley), <i>Lilium</i> (lily), <i>Phoenix dactylifera</i> (<i>date-palm</i>), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Punica granatum</i> (pomegranate), <i>Pyrus communis</i> (European pear), <i>Rheum hybridum</i> (rhubarb), <i>Solanum lycopersicum</i> (tomato), <i>Triticum aestivum</i> (wheat), <i>Vaccinium</i> (blueberries), <i>Vitis vinifera</i> (grapevine), <i>Zea mays</i> (maize), <i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet)</p>		<p>America: Canada, USA, Honduras, Nicaragua, Argentina, Brazil, Chile, Uruguay, Venezuela</p> <p>Asia: Armenia, Brunei Darussalam, China, Georgia Republic of, India, Iran, Israel, Japan, Kazakhstan, Korea DPR (North Korea), Korea Republic of (South Korea), Philippines, Sri Lanka, Saudi Arabia, Turkey</p> <p>Aurope: Belgium, Bulgaria, Cyprus, Czech Republic and Slovakia, Denmark, France, Greece, Italy, Latvia, Lithuania, Poland, Romania, Slovakia, Spain, Sweden, Ukraine, UK, Serbia and Montenegro</p> <p>Oceania: Australia, New Zealand</p>
69.	<p>[a]:<i>Periconia manihoticola</i> (Vincens) Viegas, <i>Bragantia</i> 14:63 (1955); (= <i>Haplographium manihoticola</i> Vincens: 24, (1916)</p> <p>[s]: - Ascomycota,</p>	<p>I: for unprocessed commodity</p> <p>II. for processed</p>	<p><i>Hevea brasiliensis</i> (karet, rubber tree), <i>Acasia</i> spp., <i>Pisum</i> spp., <i>Manihot esculenta</i> (ubi wood, cassava)</p>	<p>plant, leaf, stem</p>	<p>Asia: India</p> <p>Oceania: Fiji, Papua New Guinea, Solomon Islands, Vanuatu</p>

	Pezizomycotina, Dothideomycetes; Periconia blight	commodity			
70.	<p>[a]: <i>Phoma cucurbitacearum</i> (Fr. ex Fr.) Sacc.; <i>Ascochyta cucumis</i> Fautrey & Roum. = <i>Phyllosticta citrullina</i> Chester = <i>Ascochyta melonis</i> Potebnja = <i>Ascochyta citrullina</i> (CHESTER) SMITH = <i>Cercospora citrullina</i> Cooke = <i>Cercospora cucurbitae</i> Ell. & Ev.</p> <p>[s]: <i>Didymella bryoniae</i> (Auersw.) Rehm = <i>Mycosphaerella melonis</i> (Pass.) Chiu & Walker = <i>Didymosphaeria melonis</i> Pidoplichko = <i>Didymosphaeria effusa</i> Sacc. = <i>Mycosphaerella citrullina</i> = <i>Didymella melonis</i> Pass. = <i>Sphaeria bryoniae</i> FÜCKEL = <i>Sphaerella bryoniae</i> AUERSW.;</p> <p>Ascomycota, Pezizomycotina, Dothideomycetes; gummy stem blight, leaf spot of</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p>Cucurbitaceae, <i>Citrullus vulgaris</i> (semangka, watermelon), <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita</i> spp., <i>Momordica charantia</i> (paria, bitter gourd), <i>Sechium edule</i> (labu siam), <i>Solanum tuberosum</i> (kentang, potato)</p>	<p>seed, stem, leaf, fruit, growing media</p>	<p>Africa: Ethiopia, Gabon, Kenya, Malawi, Mauritius, Morocco, Nigeria, South Africa, Uganda, Zambia, Zimbabwe</p> <p>America: Argentina, Barbados, Belize, Bermuda, Bolivia, Brazil, Canada, Chile, Costa Rica, Cuba, Dominica, El Salvador, Jamaica, Mexico, Nicaragua, Peru, Puerto Rico, Trinidad and Tobago, USA</p> <p>Asia: Bangladesh, Brunei, China, Taiwan, India, Iraq, Israel, Japan, South Korea, Laos, Malaysia, Myanmar, Pakistan, Philippines, Sri Lanka, Thailand</p> <p>Europe: Austria, Bulgaria, Czech, Denmark, Rusia, Germany, Greece, Ireland, Italy, Netherlands, Norway, Poland, Romania, Rusia, Slovakia, Sweden, Switzerland, Ukraine, UK</p> <p>Oceania: Samoa America, Australia, Fiji, France Polynesia, New Caledonia, New Zealand, Pitcairn, Samoa, Solomon Islands, Tonga</p>

	cucurbits, cercospora leafspot of squash, cucumber black rot, cucurbits stem blight, cucurbits leaf spot, cucurbits stem-end rot				
71.	[a]: <i>Phoma tracheiphila</i> (Petri) L.A. Kantsch. & Gikaschvili (1948); (= <i>Deuterophoma tracheiphila</i> Petri (1929) = <i>Bakerophoma tracheiphila</i> (Petri) Cif. (1946) [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; mal secco disease of <i>citrus</i> , wilt of <i>citrus</i> , <i>citrus</i> wilt, <i>citrus</i> mal secco	I: for unprocessed commodity II. for processed commodity	<i>Citrus</i> spp. <i>Fortunella</i> , <i>Poncirus</i>	fruit, root, stem,seed,	Africa: Algeria,Tunisia Asia: Georgia, Iraq, Israel, Lebanon, Syria, Turkey, Yemen Europe: Albania, Cyprus, France, Greece, Italy, Russia
72.	[a]: <i>Phomopsis percae</i> Serova [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; fruit rot	I: for unprocessed commodity II. for processed commodity	<i>Persea americana</i> (alpokat, avocado)	fruit	America: USA.
73.	[a]: <i>Phomopsis viticola</i> (Sacc.)	I: for	<i>Vitis vinifera</i> (grapevine)	fruit,	Africa: Egypt, Kenya, South

	<p>Sacc. (1915); (= <i>Phomopsis viticola</i> var. <i>viticola</i> (Sacc.) Sacc. (1919) = <i>Phomopsis ampelopsidis</i> Petr. (1916) [s]: <i>Cryptosporella viticola</i> Shear (1911) Ascomycota, Pezizomycotina, Dothideomycetes; Phomopsis cane and leaf spot; Phomopsis cane and leaf blight; black knot: grapevine; black rot: grapevine; dead-arm: grapevine; necrosis of grapevine</p>	<p>unprocessed commodity II. for processed commodity</p>	<p><i>Parthenocissus quinquefolia</i> (creeper), <i>Vitis labrusca</i> (fox grape), <i>Vitis rupestris</i> (sand-grape)</p>	<p>flower, leaf, stem.</p>	<p>Africa, Zimbabwe America: Canada, Mexico, USA, Brazil, Chile, Venezuela Asia: Brunei Darussalam, China, Taiwan, India, Japan, Turkey Europe: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Jersey, Macedonia, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Serbia and Montenegro, Slovenia, Spain, Switzerland, Ukraine, UK Oceania: Australia, New Zealand</p>
74.	<p>[a]: <i>Phyllosticta ampellicida</i> (Engelm.) Aa, (1973) [s]: <i>Guignardia bidwellii</i> (Ellis) Viala & Ravaz, (1892); (= <i>Botryosphaeria bidwellii</i> (Ellis) Petr., (1958); sin: <i>Carlia bidwellii</i> (Ellis) Magnus (1892); <i>Carlia bidwellii</i> (Ellis) Prunet (1989); <i>Laestadia bidwellii</i> (Ellis) Viala & Ravaz (1888);</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Vitis vinifera</i> (anggur, grapevine) <i>Ampelopsis</i>, <i>Cissus</i>, <i>Parthenocissus</i>, <i>Citrus</i> spp.</p>	<p>fruit, flower, leaf, stem, calix</p>	<p>Africa: Morocco, Mozambique, Sudan America: Argentina, Barbados, Brazil, Canada, Chile, Cuba, El Salvador, Guyana, Haiti, Jamaica, Martinique, Mexico, Panama, USA Asia: China, Taiwan, India, Iran, Japan, North Korea, Pakistan, Philippines, Turkey Europe: Austria, Bulgaria, Cyprus, France, Germany,</p>

	<p><i>Phyllachorella bidwellii</i> (Ellis) Theiss., (1919); <i>Physalospora bidwellii</i> (Ellis) Sacc., (1882); <i>Sphaerella bidwellii</i> (Ellis) Ellis (1890); <i>Sphaeria bidwellii</i> Ellis (1880)</p> <p>Ascomycota, Pezizomycotina, Dothideomycetes; black rot</p>				<p>Italy, Romania, Rusia, Slovakia, Switzerland, Ukraine, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia</p> <p>Oceania: Christmas Island</p>
75.	<p>[a]: <i>Phyllosticta arbutifolia</i> Ellis & G. Martin (1886); (= <i>Phyllosticta arbutifoliae</i> Ellis & G. Martin (1886) = <i>Phyllosticta solitaria</i> Ellis & Everh. (1895) = <i>Phyllostictina solitaria</i> (Ellis & Everh.)</p> <p>[s]: - Ascomycota, Pezizomycotina, Dothideomycetes; apple blotch</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Malus domesticum</i> (apel, apple) <i>Crataegus</i> sp., <i>Pyrus coronaria</i></p>	fruit, leaf	America: Canada, USA
76.	<p>[a]: <i>Phyllosticta capitalensis</i> Henn. (1908); (= <i>Phyllosticta cymbidii</i> Sawada (1943) = <i>Phyllostictina mangiferae</i> Bat. & A.F. Vital 1952 = <i>Phyllosticta</i></p>	<p>I: for unprocessed commodity</p> <p>II. for processed</p>	Orcidaceae (anggrek, orchids)	plant, leaf, stalk, flower	America: Hawaii

<p><i>anacardiacearum</i> =<i>Phyllosticta ophiopogonis</i> Wulandari, Wikee & Hyde (2012) =<i>Phyllosticta</i> <i>phalenopsidis</i> Marchal & Verpl. (1927)[1926] =Variant spelling <i>Phyllosticta</i> <i>phalaenopsidis</i> Marchal & Verpl. (1927)[1936] =<i>Phyllosticta</i> <i>phalenopsidis</i> var. <i>vanillae</i> Verpl. & Claess. (1934) =<i>Phyllostictina</i> <i>pyriformis</i> E.K. Cash & A.M.J. Watson (1955) =<i>Phyllostictina theicola</i> Petr. (1927) =<i>Phyllosticta</i> <i>theacearum</i> Aa (1973) =<i>Macrophoma theicola</i> Siemaszko (1923 - illegitimate later homonym, not included in search] Note: Illegitimate later homonym of <i>Macrophoma theicola</i> Petch 1917). [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; leaf spot</p>	<p>d commod ity</p>			
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77.	[a]: <i>Phyllosticta phaseolina</i> Sacc.(1878) [s]:- Ascomycota, Pezizomycotina, Dothideomycetes; leaf spot, fruit blotch, twig canker	I: for unproce ssed commod ity II. for processe d commod ity	<i>Glycine max</i> (kedelai, soybean), <i>Phaseolus</i> spp. <i>Vanilla</i> sp.	plant, leaf, fruit, stem, pod	America: Barbados, Jamaica
78.	[a]: <i>Phymatotrichopsis</i> <i>omnivora</i> (Shear) Hennebert (1973); (= <i>Ozonium omnivorum</i> Shear (1907) = <i>Phymatotrichum</i> <i>omnivorum</i> (Shear) Duggar (1916) = <i>Ozonium</i> <i>auricomum</i> [s]: <i>Hydnum omnivorum</i> Ascomycota, Pezizomycotina, Pezizomycetes; cotton root rot, root rot of cotton, soft rot of cotton, cotton soft rot, grapevine root rot	I: for unproce ssed commod ity II. for processe d commod ity	Fabaceae, <i>Juglandaceae</i> , Malvaceae, <i>Rosa</i> ceae, Umbelliferae, <i>Abelmoschus</i> <i>moschatus</i> (okra, lady's finger), <i>Arachys hypogaea</i> (kacang tanah, groundnut, peanut), <i>Beta vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beet) <i>Carya illinoensis</i> , <i>Ficus carica</i> (ara), <i>Glycine</i> <i>max</i> (kedelai, soybean), <i>Gossypium barbadens</i> (kapas, cotton), <i>Juglans</i> <i>regia</i> , <i>Malus domesticum</i> (apel, apple), <i>Medicago</i> <i>sativa</i> , <i>Phaseolus</i> , <i>Populus</i> , <i>Prunus</i> spp., <i>Pyrus</i> <i>communis</i> (pir, pear), <i>Salix</i> , <i>Ulmus</i> , <i>Vitis vinifera</i> (anggur, grapevine)	root, stem, growing media	America: Mexico, USA, Venezuela
79.	[a]: <i>Plenodomus destruens</i> Harter (1913) [s]: - Ascomycota, Pezizomycotina,	I: for unproce ssed commod ity	<i>Ipomoea batatas</i> (ubi jalar, sweet potato)	seed, bulb, tuber, corm	America: Brazil, Caribbean, USA

	Dothideomycetes; foot rot of sweet potato	II. for processed commodity			
80.	[a]: <i>Polyscytalum pustulans</i> (M.N. Owen & Wakef.) M.B. Ellis (1976); (= <i>Oospora pustulans</i> M.N. Owen & Wakef. (1919) [s]: - Ascomycota, Pezizomycotina, <i>Polyscytalum</i> ; potato skin spot	I: for unprocessed commodity II. for processed commodity	<i>Solanum tuberosum</i> (kentang, potato) <i>Solanum</i> spp.	bulb, tuber, corm	Africa: South Africa America: Canada, USA Europe: Estonia, Germany, Ireland, Lithuania, Norway, Romania, Russia, UK Oceania: Australia, New Zealand
81.	[a]: <i>Pseudocercospora aleuritis</i> (I. Miyake) Deighton (1976); (= <i>Cercospora aleuritidis</i> I. Miyake (1912) = <i>Cercosporina aleuritis</i> (Miyake) Sacc. (1931) [s]: <i>Mycosphaerella aleuritis</i> S.H. Ou (1940); (= <i>Mycosphaerella aleuritidis</i> S.H. Ou (1940) Ascomycota, Pezizomycotina, Dothideomycetes; angular leaf spot	I: for unprocessed commodity II. for processed commodity	<i>Aleurites moluccana</i> (kemiri, candle-nut)	Leaf	Asia: China Oceania: Tonga, Cook Islands, New Zealand
82.	[a]: <i>Pseudocercospora fijiensis</i> (M. Morelet)	I: for unproce	<i>Musa</i> spp. (pisang, banana)	leaf	Africa: Benin, Burundi, Cameroon, Central African

	<p>Deighton (1976); (= <i>Cercospora fijiensis</i> M. Morelet (1969) = <i>Paracercospora fijiensis</i> (M. Morelet) Deighton (1979) = <i>Cercospora fijiensis</i> var. <i>difformis</i> J.L. Mulder & R.H. Stover (1976) = <i>Paracercospora fijiensis</i> var. <i>difformis</i> (J.L. Mulder & R.H. Stover) Deighton (1979)</p> <p>[s]: <i>Mycosphaerella fijiensis</i> M. Morelet (1969); (= <i>Mycosphaerella fijiensis</i> var. <i>difformis</i> J.L. Mulder & R.H. Stover (1976)</p> <p>Ascomycota, Pezizomycotina, Dothideomycetes; Black sigatoka</p>	<p>ssed commodity II. for processed commodity</p>			<p>Republic, Comoros, DR Congo, Congo, Ivory Coast, Gabon, Ghana, Guinea-Bissau, Kenya, Madagascar, Malawi, Niger, Nigeria, Rwanda, Sao Tome and Principe, Tanzania, Togo, Uganda, Zambia.</p> <p>America: Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Netherlands Antilles, Nicaragua, Panama, Peru, USA, Hawaii, Venezuela.</p> <p>Asia: Bhutan, China (Fujian, Hainan, Taiwan), Malaysia, Philippines, Singapore, Thailand, Vietnam.</p> <p>Oceania: American Samoa, Australia, Cook Islands, Federated states of Micronesia, Fiji, French Polynesia, New Caledonia, Niue, Norfolk Island, Northern Mariana Islands, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu, Wallis, Futuna.</p>
83.	[a]: <i>Pyricularia setariae</i> Y.	I: for	<i>Eleusine coracana</i> (finger	seed,	Africa: Tanzania, Uganda

	<p>Nisik. (1927); (= <i>Pyricularia grisea</i> f. sp. <i>eleusines</i> S. Yamanaka=<i>Pyricularia oryzae</i> Cavara,(1891) [s]: <i>Magnaporthe oryzae</i> B.C. Couch, (2002) Ascomycota, Pezizomycotina, Sordariomycetes; blast of millet, leaf spot of millet</p>	<p>unprocessed commodity II. for processed commodity</p>	<p>millet), <i>Setaria italica</i> (foxtail millet) <i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barley), <i>Pennisetum glaucum</i> (pearl millet), <i>Zea mays</i> (jagung, maize)</p>	<p>stem, leaf, stalk malai</p>	<p>Asia: China, India, Japan, Malaysia, Sri Lanka</p>
84.	<p>[a]: <i>Sarocladium strictum</i> (W. Gams) Summerbell (2011); (= <i>Sarocladium zeae</i> W. Gams & D.R. Sumner, (2011) =<i>Acremonium strictum</i> W.Gams (1971) =<i>Tilachlidium medietatis</i> Novobr, (1972) =<i>Acremonium stricta</i> =<i>Hyalopus acremonium</i> (Corda) M.A.J. Barbosa =<i>Cephalosporium acremonium</i> Corda [s]: - Ascomycota, Pezizomycotina, Sordariomycetes; acremonium wilt, black bundle disease of maize, kernel rot of maize;</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Zea mays</i> (jagung, maize) <i>Arachis hypogaea</i> (kacang tanah, peanut), <i>Avena sativa</i> (gandum, oats), <i>Glycine soja</i>, <i>Sorghum bicolor</i>, (sorghum),</p>	<p>seed,stem, leaf</p>	<p>Africa: Burkina Faso, Cameroon, Egypt, Libya, Nigeria, South Africa, Uganda. America: Mexico, USA, Argentina, Brazil, Chile. Asia: China, India, Iran, Pakistan, Syria, Turkey. Europe: Czech Republic and Slovakia, Italy, Netherlands, Poland, Russia, Spain. Oceania: Australia</p>
85.	<p>[a]:<i>Sclerotium gladioli</i></p>	<p>I: for</p>	<p><i>Gladiolus</i> spp.</p>	<p>bulb,</p>	<p>Africa: South Africa</p>

	Massee (1928) [s]: <i>Stromatinia gladioli</i> (Drayton) Whetzel (1945) (= <i>Sclerotinia gladioli</i>) Drayton (1934) Basidiomycota, Agaricomycotina, Agaricomycetes; gladiolus dry rot	unproce ssed commod ity II. for processe d commod ity		tuber, corn, root, stem	Europe: UK
86.	[a]: <i>Septoria pisi</i> Westend (1857); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; septoria blight/blotch	I: for unproce ssed commod ity II. for processe d commod ity	<i>Pisum sativum</i> (kapri, sweet pea), <i>Vicia faba</i>	seed, leaf, pod	America: Canada, USA Europe: Denmark, Finland, Ireland, Norway, Sweden Oceania: New Zealand
87.	[a]: <i>Septoria selenophomoides</i> Cash & Watson (1955); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; leaf spot	I: for unproce ssed commod ity II. for processe d commod ity	Orchidaceae	plant, leaf, flower stalk	America
88.	[a]: <i>Setophoma terrestris</i> (H.N. Hansen) Gruyter, Aveskamp & Verkley	I: for unproce ssed	<i>Allium</i> spp. <i>Asparagus officinalis</i> (asparagus, asparagus),	plant, bulb, tuber,	Africa: Senegal America: Argentina, USA, Venezuela Oceania: Australia

	(2010); (= <i>Phoma terrestris</i> H.N. Hansen (1929) = <i>Pyrenochaeta terrestris</i> (H.N. Hansen) Gorenz, J.C. Walker & Larson (1948) [s]: - Setophoma; onion pink root	commodity II. for processed commodity	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn, maize)	corn, root	Europe: Netherlands, Greece, Poland, Israel
89.	[a]: <i>Sphaceloma arachidis</i> Bitanc & Jenkins (1940); [s]: - Ascomycota, Pezizomycotina, Dothideomycetes; groundnut scab, peanut scab, scab of groundnut, scab: groundnut	I: for unprocessed commodity II. for processed commodity	<i>Arachys hypogaea</i> (kacang tanah, groundnut, peanut)	stem, leaf,	Africa: Swaziland America: Argentina, Brazil, Colombia Asia: China, Japan
90.	[a]: <i>Sphaceloma manihoticola</i> Bitanc. & Jenkins [s]: <i>Elsinoe brasiliensis</i> Bitanc. & Jenkins 1942(= <i>Elsinoë jatrophae</i>); Ascomycota, Pezizomycotina, Dothideomycetes; superelongation disease of cassava, cassava root enlargement	I: for unprocessed commodity II. for processed commodity	<i>Manihot esculenta</i> (ubi wood, cassava)	young stem, leaf	America: Barbados, Brazil, Colombia, Mexico, Panama, Venezuela Oceania: Cook Islands
91.	[a]: <i>Sphaceloma rosarum</i> (Pass.) Jenk. 1932 = <i>Phyllosticta rosarum</i>	I: for unprocessed	<i>Rosa</i> spp. (mawar, rose)	stem, leaf, flower stalk	America: USA.

	Pass. 1881 [s]: <i>Elsinoe rosa rum</i> Jenk. & bitanc; Ascomycetes; kudis, scab	commodity II. for processed commodity			
92.	[a]: <i>Stagonospora nodorum</i> (Berk.) Castell. & E.G. Germano (1977); (= <i>Depazea nodorum</i> Berk. (1845) = <i>Hendersonia nodorum</i> (Berk.) Petr. (1947) = <i>Septoria nodorum</i> (Berk.) Berk. (1845) = <i>Septoria glumarum</i> Pass. (1879) = <i>Phoma hennebergii</i> J.G. Kühn (1877) = <i>Macrophoma hennebergii</i> (J.G. Kühn) Berl. & Voglino (1886) = <i>Rhabdospora hennebergii</i> (J.G. Kühn) Sacc. & D. Sacc. (1906) = <i>Stagonospora hennebergii</i> (J.G. Kühn) Petr. & Syd. (1925) = <i>Septoria holci</i> Pass. (1879) [s]: <i>Phaeosphaeria nodorum</i> (E. Müll.) Hedjaroude (1968); (= <i>Leptosphaeria</i>	I: for unprocessed commodity II. for processed commodity	<i>Triticum aestivum</i> (gandum, wheat), <i>Secale cereale</i> (rye), <i>Hordeum vulgare</i> (barli, barley) <i>Agropyron</i> , <i>Bromus inermis</i> , <i>Cynodon dactylon</i> , <i>Lolium perenne</i> , <i>Triticale</i>	seed, leaf	Africa: Angola, Ethiopia, Kenya, Malawi, Morocco, South Africa, Tanzania, Uganda, Zambia, Zimbabwe America: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Mexico, USA Asia: Armenia, Bhutan, China, Taiwan, India, Israel, Japan, Korea, Lebanon, Nepal, Pakistan, Philippines, Saudi Arabia Europe: Austria, Belgium, Bulgaria, Czech, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Rusia, Slovakia, Spain, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Oceania: Australia, New Zealand

	<p><i>nodorum</i> E. Müll. (1952) Ascomycota, Pezizomycotina, Dothideomycetes; glum blotch</p>				
93.	<p>[a]: <i>Stenocarpella maydis</i> (Berk) B. Sutton (1980); (= <i>Sphaeria maydis</i> Berk. (1847) = <i>Diplodia zae</i> Lév. (1848) = <i>Diplodia maydis</i> (Berk.) Sacc. (1884) = <i>Diplodia maydicola</i> Speg. (1910) = <i>Macrodiplodia zae</i> (Lév.) Petr. & Syd. (1923) = <i>Sphaeria zae</i> Schwein. (1832) = <i>Hendersonia zae</i> (Lév.) Hazsl. (1872) = <i>Phaeostagonosporopsis zae</i> (Lév.) Woron. (1925) = <i>Diplodia zae-maydis</i> Mekht. (1962)</p> <p>[s]: - Ascomycota, Pezizomycotina, Sordariomycetes; ear rot of maize, leaf spot of maize, stalk rot of maize, seedling blight of maize, leaf blight of maize, leaf blight of</p>	<p>I: for unprocessed commodity II. for processed commodity</p>	<p><i>Zea diploperennis</i>, <i>Zea mays</i> (jagung, maize), <i>Zea mays</i> subsp. <i>mays</i> (sweetcorn)</p>	<p>seed, leaf, stem, flower</p>	<p>Africa: Congo, DR Congo, Ethiopia, Ghana, Kenya, Malawi, Nigeria, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe America: Belize, Honduras, Canada, Mexico, USA, Argentina, Brazil, Colombia, Ecuador. Asia: China, India, Iran, Japan, South Korea, Nepal, Pakistan, Thailand. Europe: Austria, Bulgaria, Czech, Italy, Serbia-Montenegro, UK. Oceania: Australia, New Zealand.</p>

	Sorghum spp., leaf spot of grasses, Diplodia ear and stalk rot, white ear rot of maize				
94.	[a]: <i>Stilbella flavidum</i> (Cooke) Henn. (1904) [s]: <i>Mycena citricolor</i> (Berk. & M.A. Curtis) Sacc.; (= <i>Omphalopsis citricolor</i> (Berk. & M.A. Curtis) Murrill = <i>Omphalia flavida</i> Maubl. & Rangel (1914) = <i>Agaricus citricolor</i> = <i>Stilbum flavidum</i> Ascomycota, Pezizomycotina, Sordariomycetes; American leaf spot of coffee, American: coffee leaf spot, cock's eye spot, iron spot of coffee	I: for unprocessed commodity II. for processed commodity	<i>Coffea</i> spp. (kopi, coffee), <i>Citrus</i> , <i>Cinchona officinalis</i> (kina, quinine tree) <i>Theobroma cacao</i> (kakao, cocoa)	fruit, leaf, stem, seedling, micropropagated plant	America: Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, Guyana France, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Nicaragua, Panama, Peru, Puerto Rico, Suriname, Trinidad and Tobago, USA
95.	[a]: <i>Synchytrium endobioticum</i> (Schilb.) Percival (1909); = <i>Chrysophlyctis endobioticum</i> Schilb. (1896) = <i>Chrysophlyctis endobiotica</i> Schilb (1896) = <i>Synchytrium solanum</i> Masee (1910); [s]: - Chytridiomycota,	I: for unprocessed commodity II. for processed commodity	<i>Solanum tuberosum</i> (kentang, potato) <i>Solanum nigrum</i> , <i>Solanum dulcamara</i> , <i>Hyoscyamus niger</i> , <i>Nicandra physaloides</i> , <i>Solanum lycopersicum</i> (tomat, tomato)	bulb, tuber, corm, root, growing media	Africa: Algeria, South Africa, Tunisia America: Bolivia, Canada, Chile, Ecuador, Falkland Islands, Peru, USA, Asia: Armenia, Bhutan, India, Nepal Europe: Austria, Belarus, Belgium, Czech, Denmark, Estonia, Faroe Islands, Finland, Germany, Hungary, Ireland,

	Chytridiomycetes; black wart of potato, potato black scab, potato wart disease, wart disease of potato				Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Rusia, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: New Zealand
96.	[a]: <i>Thanatophytum crocorum</i> (Pers.: Fr.) Nees (1816); (= <i>Rhizoctonia crocorum</i> (Pers.) DC., (1815); <i>Helminthosporium rhizoctonon</i> Rabenh. (1855); <i>Helminthosporium rhizoctonum</i> Rabenh. (1855); <i>Hypochnus violaceus</i> Erikss. (1912); <i>Rhizoctonia asparagi</i> Fuckel ex Erikss. (1915); <i>Rhizoctonia asparagi</i> Fuckel, (1870); <i>Rhizoctonia medicaginis</i> DC., (1815); <i>Rhizoctonia rubiae</i> M.J. Decne., (1837); <i>Rhizoctonia violacea</i> f. <i>dauci</i> J.G. Kühn (1875); <i>Tuber croci</i> Dubois, (1803); <i>Tuber parasiticum</i> Bull., (1790)	I: for unprocessed commodity II. for processed commodity	<i>Beta vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beetroot) <i>Araucaria cunninghamii</i> , <i>Daucus carota</i> (wortel, carrot), <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Solanum tuberosum</i> (kentang, potato), <i>Morus</i> spp. (murbei, mulberry)	bulb, tuber, corm, root, seedling, stem	Africa: Algeria, Ethiopia, Kenya, Malawi, Morocco, Rhodesia, South Africa, Tanzania, Trinidad, Tunisia, Zambia, Zimbabwe America: Argentina, Barbados, Canada, Colombia, Dominica, Mexico, Trinidad and Tobago, USA, Uruguay Asia: China, India, Iran, Japan, Philippines, Turkey, Vietnam Europe: Austria, Belgium, Bulgaria, Czech, Denmark, England, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Netherlands, Norway, Poland, Romania, Rusia, Scotland, Slovakia, Sweden, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro,

	[s]: <i>Helicobasidium brebissonii</i> (Desm.) Donk, (1958); (= <i>Helicobasidium purpureum</i> (Tul.) Pat., (1885) Basidiomycota, Pucciniomycotina, Pucciniomycetes; Asparagus officinalis root rot, apple violet root rot, sweet potato, violet root rot				Macedonia Oceania: Australia, New Zealand
97.	[a]: <i>Thecaphora solani</i> (Thirum & M.J. O'Brien) Mordue (1988); (= <i>Angiosorus solani</i> Thirum. & M.J. O'Brien (1974) = <i>Thecaphora solani</i> Barrus (1944); [s]: - Basidiomycota, Ustilaginomycotina, Ustilaginomycetes; potato smut, thecaphora smut	I: for unprocessed commodity II. for processed commodity	<i>Solanum tuberosum</i> (kentang, potato)	bulb, tuber, corm, leaf, stem	America: Bolivia, Chile, Colombia, Ecuador, Mexico, Panama, Peru, Venezuela
98.	[a]: <i>Verticillium cinerescens</i> Wollenw. (1930) [s]: <i>Phialophora cinerescens</i> (Wollenw.) J.F.H. Beyma (1940); Ascomycota, Pezizomycotina, Eurotiomycetes; phialophora wilt, vascular	I: for unprocessed commodity II. for processed commodity	<i>Dianthus</i> spp. <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Fragaria</i> spp.	plant, root, stem, growing media	America: Canada, Colombia, USA Asia: China Europe: Belgium, Bulgaria, Croatia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania,

	wilt of carnation, wilt of carnation	ity			Rusia, Spain, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: New Zealand
99.	[a]: <i>Zygothiala jamaicensis</i> E.W.Mason (= <i>Microbotryum violaceum</i> (Pers.) G. Deml & Oberw. = <i>Uredo violacea</i> Pers. = <i>Caeoma violaceum</i> (Pers.) Nees = <i>Uredo antherarum</i> DC. = <i>Ustilago antherarum</i> (DC.) Fr. = <i>Caeoma antherarum</i> (DC.) Schltdl. = <i>Microbotryum antherarum</i> (DC.) Lév. = <i>Erysibe antherarum</i> (DC.) Wallr. = <i>Ustilago silenes-nutantis</i> Liro) [s]: <i>Schizothyrium pomi</i> (Mont.) v. Arx (= <i>Leptothyrium pomi</i> (Mont.) Arx = <i>Labrella pomi</i> Mont. = <i>Asterina gaultheriae</i> M.A. Curtis = <i>Microthyriella paludosa</i> C. Booth) Ascomycota, Pezizomycotina, Dothideomycetes; greasy	I: for unprocessed commodity II. for processed commodity	<i>Citrus</i> , <i>Diospyros</i> , <i>Malus domesticum</i> (apel, apple), <i>Pyrus communis</i> (pir, pear), <i>Diospyros sp.</i> (<i>Malabar ebony</i>)	fruit	America: USA Asia: China, India, Japan

	blotch, flyspeck, sooty blotch				
100	[c]: <i>Aphanomyces euteiches</i> Drechsler (1925); Chromista, Oomycetes; aphanomyces root rot, common root rot, root rot	I: for unprocessed commodity II. for processed commodity	<i>Vigna</i> spp. (buncis, cowpea), <i>Pisum sativum</i> (kapri, sweet pea), pod-polongan lain (legumes)	seedling, root, stem, growing media	America: Canada, USA Asia: China, India, Japan Europe: Czech, Denmark, Finland, Russia, France, Italy, Netherlands, Norway, Poland, Slovakia, Sweden, Ukraine Oceania: Australia, New Zealand
101	[c]: <i>Pachymetra chaunorhiza</i> B.J. Croft & M.W. Dick (1989) Oomycetes; pachymetra root rot	I	<i>Saccharum officinarum</i> (tebu, sugarcane), <i>Zea mays</i> (jagung, corn, maize), <i>Sorghum bicolor</i> (sorgum, sorghum)	plant, root, growing media	Oceania: Australia
102	[c]: <i>Peronospora hyoscyami</i> f.sp. <i>tabacina</i> (D.B. Adam) Skalicky; (= <i>Peronospora tabacina</i> = <i>Peronospora hyoscyami</i> = <i>Peronospora nicotianae</i>) Oomycetes; angular tobacco leaf spot, blue mould of tobacco, downy mildew, tobacco black fire, tobacco blue mould, tobacco wildfire	I: for unprocessed commodity II. for processed commodity	<i>Nicotiana tabacum</i> (tembakau, tobacco) <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant, aubergine)	leaf, seed	America: Argentina, Brazil, Chile, Costa Rica, Cuba, Dominica, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Puerto Rico, USA, Uruguay, Venezuela Asia: Armenia, Azerbaijan, Taiwan, Georgia, Iran, Iraq, Israel, Jordan, Lebanon, Myanmar, Syria, Turkey, Uni Arab Emirat, Yemen, Algeria, Egypt, Libya, Morocco, Tunisia

					<p>Europe: Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Czech, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Netherlands, Poland, Portugal, Romania, Russia, Spain, Slovakia, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia</p> <p>Oceania: Australia</p>
103	<p>[c]:<i>Peronospora sparsa</i> Berk. (1862); (= <i>Peronoplasmopara sparsa</i> (Berk.) Uljan. (1967) =<i>Pseudoperonospora sparsa</i> (Berk.) Jacz. (1928) =<i>Peronospora rosae-gallicae</i> Savul. & Rayss (1934) =<i>Peronospora sanguisorbae</i> Gäum. (1923)</p> <p>Oomycetes; downy mildew</p>	<p>I: for unprocessed commodity</p> <p>II. for processed commodity</p>	<p><i>Rosa</i> spp. (mawar, rose), <i>Punus laurocerasus</i>, <i>Rubus</i> spp.</p>	<p>leaf, fruit, flower, plant hasilmikro propagasi, root, stem</p>	<p>Africa: Egypt</p> <p>America: USA, Canada, Brazil, Colombia</p> <p>Asia: Israel</p> <p>Europe: Finland, Ireland, France, Scandinavia, UK, Russia, Russia</p> <p>Oceania: Australia.</p>
104	<p>[c]:<i>Peronospora viciaef.sppisi</i> (Sydow) Boerema & Verhoeven</p> <p>Oomycetes; pea downy mildew</p>	<p>I: for unprocessed commodity</p>	<p><i>Pisum sativum</i> (kapri, sweet pea), <i>Vicia faba</i></p>	<p>seed, fruit, flower, leaf, stem</p>	<p>Asia: India</p> <p>Europe: Scandinavia</p>

		II. for processed commodity			
105	[c]: <i>Phytophthora cryptogea</i> Pethybr. & Laff. (1919) Oomycetes; tomato foot rot, damping off, gerbera foot rot, black neck of chrysanthemum, tulip shanking, corm, stem and leaf rot of gloxinia, pink rot of potato, stem rot, root rot, damping-off	I: for unprocessed commodity II. for processed commodity	<i>Actinidia chinensis</i> (Chinese gooseberry), <i>Actinidia deliciosa</i> (kiwifruit), <i>Allium cepa</i> (bawang bombay, onion), <i>Antirrhinum majus</i> (snapdragon), <i>Apium graveolens</i> (seledri, celery), <i>Asparagus officinalis</i> (asparagus), Aster, <i>Brassica oleracea var. botrytis</i> (bunga kol, cauliflower), <i>Cajanus cajan</i> (pigeon pea), Calathea, <i>Calendula officinalis</i> (Pot marigold), <i>Callistephus chinensis</i> (China aster), <i>Capsicum annuum</i> (bell pepper), Castanea (chestnuts), <i>Celosia argentea</i> (celosia), Chrysanthemum (daisy), <i>Chrysanthemum frutescens</i> (marguerite), <i>Chrysanthemum vestitum</i> , Cichorium (chicory), <i>Cichorium intybus</i> (chicory), <i>Citrullus lanatus</i> (semangka, watermelon), Citrus, Clarkia (satin flowers), <i>Consolida</i>	root, stem, seedling plant, growing media	Africa: Egypt, South Africa, Zimbabwe America: Canada, USA, Argentina, Brazil, Chile Asia: China, Iran, Japan, Jordan, Korea Europe: Austria, Bulgaria, Croatia, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Poland, Russia, Serbia-Montenegro, Slovakia, Spain, Sweden, UK Oceania: Australia, New Zealand, Papua New Guinea

			<p> <i>ambigua</i> (rocket larkspur), Cotoneaster, <i>Cucumis melo</i> (melon), <i>Cucumis sativus</i> (ketimun, cucumber), Cucurbita (pumpkin), <i>Cucurbita maxima</i> (giant pumpkin), <i>Cucurbita</i> <i>moschata</i> (labu, pumpkin), <i>Cucurbita pepo</i> (ornamental gourd), Cupressus (cypresses), <i>Cyamopsis</i> <i>tetragonoloba</i> (guar), <i>Cyphomandra betacea</i> (tree tomato), Dahlia, <i>Daucus</i> <i>carota</i> (wortel, carrot), <i>Dianthus barbatus</i> (sweet williams), <i>Dianthus</i> <i>caryophyllus</i> (anyelir, carnation), Erica (heaths), <i>Erysimum cheiri</i> (wallflower), <i>Eucalyptus spp.</i>, <i>Euphorbia</i> <i>pulcherrima</i> (poinsettia), Fragaria (strawberry), Gerbera (Barbeton daisy), <i>Gerbera jamesonii</i> (African daisy), <i>Gladiolus hybrids</i> (sword lily), <i>Glycine max</i> (kedelai, soyabean), <i>Gynura</i> <i>bicolor</i>, <i>Gypsophila</i> <i>paniculata</i> (babysbreath), Hebe, <i>Helianthus annuus</i> (sunflower), <i>Humulus lupulus</i> </p>		
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			<p>(hop), <i>Juglans regia</i> (walnut), <i>Juniperus chinensis</i> (Chinese juniper), <i>Lactuca sativa</i> (lettuce), <i>Liatris spicata</i> (spike gayfeather), <i>Limonium sinuatum</i> (sea pink), <i>Lupinus spp.</i>, <i>Solanum lycopersicum</i> (tomat, tomato), <i>Malus domestica</i> (apel, apple), <i>Maranta</i> (arrowroot), <i>Matthiola incana</i> (stock), <i>Medicago sativa</i> (lucerne), <i>Nasturtium officinale</i> (watercress), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Onobrychis viciifolia</i> (sainfoin), <i>Papaver nudicaule</i> (Iceland poppy), <i>Parthenium argentatum</i> (Guayule), <i>Pericallis cruenta</i> (common cineraria), <i>Persea americana</i> (avocado), <i>Petroselinum crispum</i> (parsley), <i>Petunia hybrida</i>, <i>Phaseolus vulgaris</i> (common bean), <i>Picea</i> (spruces), <i>Pinus</i> (pines), <i>Pinus lambertiana</i> (big pine), <i>Pinus mugo</i> (mountain pine), <i>Pinus nigra</i> (black pine), <i>Pinus radiata</i> (radiata pine), <i>Pisum spp.</i>, <i>Populus simonii</i> (Simon</p>		
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			<p>poplar), <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunus dulcis</i> (almond), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Rubus idaeus</i> (raspberry), <i>St.paulia ionantha</i> (African violet), <i>Salvia officinalis</i> (common sage), <i>Simmondsia chinensis</i> (jojoba), <i>Solanum melongena</i> (terung, aubergine), <i>Solanum tuberosum</i> (potato), <i>Spinacia oleracea</i> (bayam, spinach), <i>Syzygium samarangense</i> (water apple), <i>Tagetes erecta</i> (African marigold), <i>Tanacetum cinerariifolium</i> (Pyrethrum), <i>Triticum aestivum</i> (gandum, wheat), <i>Tulipa</i> (tulip), <i>Vicia villosa</i>, <i>Viola</i> (violet), <i>Vitis vinifera</i> (anggur, grapevine), <i>Zinnia elegans</i> (zinnia)</p>		
106	<p>[c]:<i>Phytophthora megakarya</i> Brasier & M.J. Griffin (1979) Oomycetes; black pod of cocoa, seedling blight of</p>	<p>I: for unprocessed commodity</p>	<p><i>Theobroma cacao</i> (kakao, cocoa)</p>	<p>fruit, stem</p>	<p>Africa: Cameroon, Equatorial Guinea, Gabon, Ghana, Guinea, Nigeria, Togo</p>

	cocoa, trunk canker of cocoa	II. for processed commodity			
107	[c]: <i>Phytophthora megasperma</i> Drechsler 1931; (= <i>Phytophthora megasperma</i> var. <i>megasperma</i> Drechsler 1931 = <i>Pythiomorpha miyabeana</i> S. Ito & Nagai 1931 Oomycetes; root rot, crown rot, trunk canker, collar rot, apoplexy, sudden wilt, fruit rot, stem blight, seed-piece rot, tuber rot, pod rot, black rot, blight, spear rot	I: for unprocessed commodity II. for processed commodity	<i>Actinidia deliciosa</i> (kiwifruit), <i>Asparagus officinalis</i> (asparagus), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica oleracea</i> var. <i>botrytis</i> (cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (cabbage), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Brassica rapa</i> subsp. <i>pekinensis</i> (Pe-tsai), <i>Daucus carota</i> (carrot), <i>Juglans regia</i> (walnut), <i>Solanum lycopersicum</i> (tomato), <i>Malus domestica</i> (apple), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus mahaleb</i> (mahaleb cherry), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Pseudotsuga menziesii</i> (Douglas-fir),	plant, bulb, tuber, corm, fruit, pod, leaf, root, stem, seedling, bahan perbanyak an tanaman (micropropagated)	America: Canada, USA, Argentina, Chile Asia: China, India, Iran, Japan, Korea Republic of (South Korea), Philippines Europe: Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Greece, Ireland, Italy, Spain, UK, Scotland Oceania: Australia, New Zealand

			<p><i>Solanum tuberosum</i> (potato) <i>Aesculus hippocastanum</i> (buckeye), <i>Alcea rosea</i> (Hollyhock), <i>Banksia</i>, <i>Buddleia</i> (Butterflybush), <i>Carthamus tinctorius</i> (safflower), <i>Castanea sativa</i> (chestnut), <i>Chamaecyparis lawsoniana</i> (Port Orford cedar), <i>Cicer arietinum</i> (chickpea), <i>Cytisus</i> (Broom), <i>Dahlia</i>, <i>Dianthus caryophyllus</i> (carnation), <i>Eucalyptus</i> (Eucalyptus tree), <i>Matthiola incana</i> (stock), <i>Narcissus</i> (daffodil), <i>Parthenium argentatum</i> (Guayule), <i>Pinus</i> (pines), <i>Ribes uva-crispa</i> (gooseberry), <i>Rubus idaeus</i> (raspberry), <i>Saccharum officinarum</i> (sugarcane), <i>Sorbus aria</i> (whitebeam), <i>Sorbus aucuparia</i> (mountain ash), <i>Vicia faba</i> (broad bean)</p>		
108	<p>[c]:<i>Phytophthora phaseoli</i> Thaxt. (1889); (= <i>Phytophthora infestans</i> var. <i>phaseoli</i> (Thaxt.) Leonian (1925) Oomycetes; Phaseolus leaf</p>	<p>I: for unprocessed commodity II. for</p>	<p><i>Phaseolus lunatus</i></p>	<p>seed, leaf, stem, root, growing media</p>	<p>Africa: DR Congo America: Mexico, Puerto Rico, USA Asia: Sri Lanka, Philippines Europe: Italy, Russia</p>

	blight, collar rot of lima bean	processed commodity			
109	[c]: <i>Phytophthora sojae</i> Kaufm & Gerd.; (= <i>P. megasperma</i> var. <i>sojae</i> Hildebr. = <i>Phytophthora megasperma</i> f.sp. <i>glycinea</i> T.L. Kuan & Erwin; = <i>Phytophthora sojae</i> f.sp. <i>glycines</i>); Chromista; Oomycota; Pythiales; Pythiaceae; <i>Phytophthora</i> root and stem rot, root and stem rot of soybean, root and stem rot of soyabean	I: for unprocessed commodity II. for processed commodity	<i>Glycine max</i> (kedelai, soyabean) <i>Lupinus</i> sp.	pod, seed, growing media (soil), leaf, root, stem,	America: Argentina, Brazil, Canada, Chile, USA Asia: China, Iran, Japan, Korea Republic of (South Korea), Mongolia, Pakistan Europe: Bulgaria, France, Italy, Poland, Russia, Slovenia, Switzerland, Ukraine Oceania: Australia
110	[c]: <i>Sclerophthora macrospora</i> (Sacc.) Thirum., C.G. Shaw & Naras; (= <i>Sclerospora oryzae</i> = <i>Phytophthora macrospora</i> = <i>Sclerospora kriegeriana</i> = <i>Nozemia macrospora</i> = <i>Sclerospora macrospora</i>); Oomycetes; downy mildew; crazy top of maize, yellow wilt of rice, witches' broom	I: for unprocessed commodity II. for processed commodity	<i>Avena sativa</i> (oat, oats), <i>Eleusine coracana</i> (finger millet), <i>Hordeum vulgare</i> (barley), <i>Oryza sativa</i> (paddy, rice), <i>Pennisetum glaucum</i> (pearl millet), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Triticum</i> (wheat), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, maize).	media tanam, flower, leaf, root, stem, seed	Africa: Ethiopia, Mauritius, South Africa, Uganda. American: Cuba, Canada, Mexico, USA, Brazil, Peru, Venezuela. Asia: China, India, Iran, Iraq, Japan, Kazakhstan, Korea, Pakistan, Syria, Thailand, Turkey. Europe: Austria, Bulgaria, Germany, Italy, Poland,

	on maize		<i>Bromus inermis</i> (Awnless brome), <i>Digitaria sanguinalis</i> (large crabgrass), <i>Echinochloa crus-galli</i> (barnyard grass), <i>Eleusine indica</i> (goose grass) <i>Elymus repens</i> (quackgrass) <i>Eragrostis</i> (lovegrasses), <i>Lolium temulentum</i> (darnel), <i>Panicum capillare</i> (tumble panicgrass), <i>Poa</i> (meadow grass), <i>Setaria viridis</i> (green foxtail), <i>Stenotaphrum secundatum</i> (buffalograss)		Serbia-Montenegro, Slovenia, Switzerland. Oceania: Australia, New Zealand
111	[c]: <i>Sclerospora graminicola</i> (Sacc.) J. Schrot (1886); (= <i>Sclerospora graminicola</i> var. <i>setariae-italicae</i> = <i>Protomyces graminicola</i> = <i>Peronospora graminicola</i> = <i>Peronospora setariae</i> = <i>Ustilago urbanii</i>); Oomycetes; downy mildew of pearl millet, green ear	I: for unprocessed commodity II. for processed commodity	<i>Pennisetum glaucum</i> (pearl millet), <i>Zea mexicana</i> (teosinte) <i>Saccharum officinarum</i> (sugarcane), <i>Zea mays</i> (maize)	flower, stem, seed, leaf	Africa: Burkina Faso, Chad, Ivory Coast, Egypt, Gambia, Ghana, Malawi, Mauritania, Mozambique, Niger, Nigeria, Senegal, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zimbabwe America: Puerto Rico, Canada, Mexico, USA, Hawaii, Argentina Asia: China, Taiwan, India, Iran, Israel, Japan, Kazakhstan, South Korea, Pakistan, Yemen Europe: Bulgaria, Czech, Slovakia, France, Germany, Hungary, Italy, Netherlands, Poland, Romania, Russia,

					Russia (Europe), Spain, Switzerland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Oceania: Fiji
112	[c]: <i>Trachysphaera fructigena</i> Tabor & Bunting (1923); Oomycetes; cigar end rot of banana, berry rot of coffee, fungus rot of banana, mealy pod of cacao, fruit rot of coffee, pod rot of cacao	I: for unprocessed commodity II. for processed commodity	<i>Theobroma cacao</i> (kakao, cocoa), <i>Musaspp.</i> <i>Pyrus</i> , <i>Prunus</i> , <i>Malus</i> and <i>Citrus</i> , <i>Coffea</i> spp. (kopi, coffee), <i>Persea americana</i> (alpokat, avocado)	fruit, flower	Africa: Cameroon, Central Africa, Chad, DR Congo, Congo, Ivory Coast, Equatorial Guinea, Gabon, Ghana, Guinea, Madagascar, Nigeria, Sierra Leone
113	[r]: <i>Aecidium cantense</i> Arthur (1929); Basidiomycota, Pucciniomycotina; Pucciniomycetes; <i>Aecidium</i> potato rust, deforming potato rust, deforming rust, Peruvian rust	I: for unprocessed commodity II. for processed commodity	<i>Solanum tuberosum</i> (kentang, potato), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Ullucus tuberosus</i>	plant, flower, fruit, stem, leaf	America: Peru
114	[r]: <i>Armillaria luteobubalina</i> Watling & Kile (1978); <i>Basidiomycota</i> , <i>Agaricomycotina</i> , <i>Agaricomycetes</i> ; <i>armillaria</i> root rot; honey root rot	I: for unprocessed commodity II. for	<i>Acacia dealbata</i> (acacia bernier), <i>Acacia melanoxylon</i> (Australian blackwood), <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Prunus persica</i> (persik, peach), <i>Citrus</i>	root, stem, seedling, bulb, tuber, corm	Oceania: Australia, Papua New Guinea

		processed commodity	reticulata (jeruk mandarin, mandarin orange), Citrus sinensis (jeruk, navel orange), Cotoneaster, Cycas revoluta (sago cycas), Hibiscus (rosemallows), Malus (ornamental species apple), Melia azedarach (Chinaberry), Nerium oleander (oleander), Pinus radiata (radiata pine), Prunus (buah batu, stone fruit), Prunus dulcis (almond), Rhododendron indicum (Satsuki azalea), Salix (willows), Taxus (yew), Viburnum, Vitis vinifera (anggur, grapevine)		
115	[r]: <i>Hemileia coffeicola</i> Maubl & Roger, (1934); (= <i>Uredo coffeicola</i>); Basidiomycetes, Pucciniomycotina, Pucciniomycetes; grey rust of coffee powdery rust of coffee, coffee rust	I: for unprocessed commodity II. for processed commodity	<i>Coffea</i> spp. (kopi, coffee)	leaf	Africa: Cameroon, Central Africa, DR Congo, Ivory Coast, Nigeria, Sao Tome & Principe, Togo, Uganda
116	[r]: <i>Phragmidium mucronatum</i> (Pers.) Schlect; (= <i>Phragmidium disciflorum</i>)	I: for unprocessed commodity	<i>Rosa</i> spp. (mawar, rose)	leaf, stem	Africa: Egypt America: Chile Asia: Japan Europe: Bulgaria, Germany,

	Basidiomycetes; rust	ity II. for processe d commod ity			Italy
117	[r]: <i>Puccinia asparagi</i> DC. (1805); (= <i>Uredo asparagi</i> Lasch (1848) = <i>Aecidium asparagi</i> Lasch (1848) = <i>Dicaeoma asparagi</i> (DC.) Kuntze (1898) = <i>Persooniella asparagi</i> (DC.) Syd.(1922) = <i>Puccinia discoidearum</i> var. <i>asparagi</i> (DC.) Wallr. (1833) Urediniomycetes; asparagus rust	I: for unprocesse d commod ity II. for processe d commod ity	<i>Asparagus officinalis</i> (asparagus, asparagus)	leaf, stem, seed, seedling	Africa: Angola, Ethiopia, Kenya, Morocco, South Africa, Tanzania, Uganda, Zambia America: Canada, Cuba, Dominica, Mexico, USA Asia: Azerbaijan, China, Taiwan, Georgia, India, Iran, Israel, Japan, Kazakhstan, Philippines, Turkey, Turkmenistan, Uzbekistan Europe: Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Netherlands, Norwagia, Poland, Portugal, Romania, Russia
118	[r]: <i>Puccinia coronata</i> Corda (1837); (= <i>Puccinia coronata</i> var. <i>bromi</i> W.P. Fraser & Ledingham (1933) = <i>Puccinia coronata</i> var. <i>calamagrostis</i> W.P. Fraser & Ledingham (1933) = <i>Puccinia coronata</i> var. <i>elaeagni</i> W.P. Fraser	I: for unprocesse d commod ity II. for processe d commod	<i>Agrostis capillaris</i> (brown bentgrass), <i>Agrostis gigantea</i> (black bent), <i>Agrostis stolonifera</i> (creeping bentgrass), <i>Alopecurus aequalis</i> (Dent foxtail), <i>Arrhenatherum elatius</i> (false oatgrass), <i>Avena sativa</i> (oats), <i>Bromus erectus</i>	flower, leaf, stem	Africa: Algeria, Egypt, Ethiopia, Kenya, Morocco, Tanzania America: Canada, Mexico, USA, Argentina, Brazil, Chile, Uruguay Asia: India, Israel, Japan, Kazakhstan, Mongolia, Uzbekistan

	<p>& Ledingham (1933) =<i>Puccinia lolii</i> =<i>Puccinia sertata</i> =<i>Puccinia coronata</i> var. <i>lolii</i> =<i>Puccinia coronata</i> var. <i>sertata</i> =<i>Puccinia alpiniae-coronata</i> =<i>Puccinia mediterranea</i> =<i>Puccinia coronata</i> f. <i>holci</i> =<i>Puccinia coronata</i> var. <i>calamagrosteos</i> =<i>Aecidium alaterni</i> =<i>Aecidium cathartici</i> =<i>Aecidium frangulae</i> =<i>Aecidium rhamni</i> =<i>Aecidium rhamni-alipnae</i> =<i>Aecidium rhamni-infectoriae</i> =<i>Puccinia coronata</i> var. <i>intermedia</i> =<i>Puccinia pumilae-coronata</i> =<i>Puccinia alpinae-coronata</i> =<i>Puccinia coronata</i> var. <i>avenae</i>); Urediniomycetes; crown rust, crown rust of oat, oat crown rust, leaf rust of oats</p>	ity	<p>(upright brome(grass)), <i>Bromus tectorum</i> (downy brome), <i>Calamagrostis epigejos</i>, <i>Festuca arundinacea</i> (reed fescue), <i>Festuca ovina</i> (sheeps fescue), <i>Festuca pratensis</i> (English bluegrass), <i>Festuca rubra</i> (red fescue), <i>Lolium rigidum</i> (rigid ryegrass), <i>Phalaris canariensis</i> (Canarygrass), <i>Phleum pratense</i> (timothy), <i>Secale cereale</i> (rye), <i>Trisetum flavescens</i> (yellow oatgrass) <i>Rhamnus caroliniana</i> (Carolina buckthorn), <i>Rhamnus cathartica</i> (buckthorn), <i>Rhamnus frangula</i> (alder buckthorn), turfgrasses</p>		<p>Europe: Austria, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech, Denmark, Estonia, Finland, France, Corsica, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia-Montenegro, Slovakia, Spain, Canary Islands, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Oceania: Australia, New Zealand</p>
119	<p>[r]: <i>Sphenospora saphena</i> Cummins; Basidiomycetes; rust</p>	I: for unprocessed commod	<i>Oncidium orchids</i>	leaf, stalk	America: USA

		ity II. for processe d commod ity			
120	[r]: <i>Uredo nigropuncta</i> Henn. (1896); (= <i>Uredo guacae</i> Mayor (1913) = <i>Uredo behnickiana</i> Henn. (1896) = <i>Uredo epidendri</i> Henn = <i>Uredo nigropuncta</i> Henn) Basidiomycetes; rust	I: for unproce ssed commod ity II. for processe d commod ity	Orchidaceae, <i>Cattleya</i> sp, <i>Epidendrum</i> sp.	leaf, stalk	America: Argentina, USA, Nicaragua, Bahama, Brazil, Bolivia, Colombia, Cuba.

VII. BAKTERI (BACTERIA) DAN FITOPLASMA (PHYTOPLASMA)

No	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ SCIENTIFIC NAME/ SYNONIM/ TAXON/ COMMON NAME	GOLONGAN/ GROUP	INANG/ HOST	MEDIA PEMBAWA/ PATHWAY	DAERAH SEBAR/ GEOGRAPHICAL DISTRIBUTION
1.	<i>Acetobacter aceti</i> (Pasteur, 1864) Beijerinck 1989 (= <i>Bacterium aceti</i> Beij, <i>Mycoderma aceti</i> Pasteur) pink disease of pineapple	I	<i>Ananas comosus</i> (nanas, pineapple), <i>Malus domestica</i> (apel, apple), <i>Pyrus communis</i> (European pear)	fruit	America: USA Asia: Philippines Oceania: Australia
2.	<i>Acidovorax citrulli</i> (Manns) Willems <i>et al</i> (= <i>Acidovorax avenae</i> subsp.	I	<i>Cucumis melo</i> (melon, melon), <i>Citrullus vulgaris</i> (semangka, watermelon),	seed, leaf, fruit, stem, seedling	America: USA, Brazil, Costarica Asia: Turkey, China, Japan,

	<i>citrulli</i> (Manns) Willems <i>et al.</i> = <i>Pseudomonas avenae</i> subsp. <i>citrulli</i> = <i>P.pseudoalcaligenes</i> subsp. <i>citrulli</i>); Burkholderiales, Comamonadaceae; busuk fruit, fruit blotch, fruit rot		<i>Cucurbita maxima</i> (waluh, labu parang, pumpkin), <i>Cucumis sativus</i> (mentimun, cucumber)		Taiwan, Thailand Oceania: Australia, Guam, Northern Mariana Island
3.	<i>Burkholderia andropogonis</i> (Smith) Gilliset <i>al.</i> ; (= <i>Aplanobacter stizolobii</i> = <i>Bacterium andropogonis</i> = <i>B.stizolobii</i> = <i>B.woodsii</i> = <i>Phytobacterium andropogonis</i> = <i>P.Stizolobii</i> = <i>P.woodsii</i> = <i>Phytomonas andropogonis</i> = <i>P.stizolobii</i> = <i>P.woodsii</i> = <i>Pseudomonas andropogonis</i> = <i>P.andropogonis</i> pv. <i>Stizolobii</i> = <i>P.stizolobii</i> = <i>P.woodsii</i>); Burkholderiales: Burkholderiaceae; bacterial stripe, striping	I	<i>Zea mays</i> (jagung, corn, maize), <i>Triticum aestivum</i> (gandum, wheat), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Dianthus</i> spp. (anyelir, carnation), <i>Bougainvillea</i> spp. (bogenvil, bougenville), <i>Trifolium repens</i> (white clover), <i>Vicia sativa</i> (common vetch), <i>Ceratoniasiliqua</i> (locust bean), <i>Cicer arietinum</i> (chick paea), <i>Gypsophila paniculata</i> (baby's breath), <i>Limonium sinuatum</i> (sea pink), <i>Ruscus</i> , <i>Trifolium pratense</i> (purple clover), <i>Trifolium subterraneum</i> (subterraneum clover), <i>Tulipa</i> (tulip), <i>Vaccinium</i> (blueberries), <i>Simmondsia chinensis</i> (jojoba), <i>Dyopsis lutescens</i> (golden cane palm)	flower, buds, meristem tissue, micropropagated plant, seedling	Africa: Ethiopia, Kenya, Mauritania, Nigeria, Rwanda, South Africa, Sudan, Togo, Uganda, Zambia, Zimbabwe. America: Argentina, Brazil, Canada, Colombia, Costa Rica, Cuba, El Salvador, Haiti, Honduras, Mexico, USA, Uruguay, Venezuela Asia: China, Hongkong, Iraq, Japan, Pakistan, Philippines, Thailand, Taiwan Europe: Bulgaria, Hungary, Italy, Polandia, Portugal, Russia, United Kingdom Oceania: Australia, Federasi Micronesia, New Zealand.

4.	<i>Burkholderia gladioli</i> Yabuuchi <i>et al.</i> ; (= <i>Pseudomonas gladioli</i>); Burkholderiales: Burkholderiaceae; spot of orchids; soft rot of orchids; bacterial crown rot of lisianthus; busuk umbi	I	<i>Gladiolus</i> spp., <i>Asplenium nidus</i> (bird's nest fern), <i>Crocus sativus</i> (saffron), <i>Eustoma grandiflorum</i> (Lisianthus (cut flower crop), Orchidaceae (orchids), <i>Poa annua</i> (annual meadowgrass).	bulb, tuber, corm, root, stem, leaf, flower, fruit, growing media	Africa: Algeria. America: USA Asia: China, Japan.
5.	<i>Clavibacter michiganensis</i> subsp. <i>Nebraskensis</i> (Vidaver & Mandel) Davis <i>et al.</i> ; (= <i>Corynebacterium michiganense</i> pv. <i>nebraskensis</i> = <i>C. michiganense</i> subsp. <i>nebraskense</i> = <i>C. nebraskense</i>); Actinomycetales: Microbacteriaceae; bacterial stripe, freckles and wilt	I	<i>Zea mays</i> (jagung, corn, maize), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Sorghum sudanense</i> (Sudan grass), <i>Zea mexicana</i> (teosinte) <i>Triticum aestivum</i> (gandum, wheat), <i>Echinochloa crus-galli</i> (barnyard grass)	seed, root, stem, leaf, flower, fruit, seedling, micropropagated plant	America: USA, Canada
6.	<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> (Spieckermann & Kotthoff) Davis <i>et al.</i> ; (= <i>Aplanobacter sepedonicus</i> = <i>Bacterium sepedonicum</i> = <i>Corynebacterium michiganense</i> pv. <i>sepedonicum</i> = <i>C. michiganense</i> subsp. <i>sepedonicum</i> = <i>C. sepedonicum</i> = <i>Mycobacterium sepedonicum</i> = <i>Phytomonas sepedonica</i> = <i>Pseudobacterium</i>	I	<i>Solanum tuberosum</i> (kentang, potato) <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum melongena</i> (terung, eggplant), <i>Lycopersicon pimpinellifolium</i> (currant tomato)	bulb, tuber, corm, seed, growing media, root, stem, leaf, flower, fruit, soil, seedling, micropropagated plant	Africa: Algeria America: Canada, USA, Venezuela, Mexico, Costa Rica, Haiti, Panama, Peru Asia: Afganistan, Cambodia, China, Israel, Taiwan, Japan, Kazakhstan, Korea, Lebanon, Nepal, Pakistan, Turkey, Uzbekistan, Vietnam, Europe: Austria, Belarus, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France,

	<i>sepedonicum</i>); Actinomycetales: Microbacteriaceae; bacterial ring rot				Germany, Greece, Crete, Latvia, Lithuania, Netherlands, Norway, Poland, Russia, Siberia, Sweden, Ukraine, Belgia, Bulgaria, Hungaria, Irlandia, Italy, Romania, Slovakia, Slovenia, Spain, Switzerland, United Kingdom
7.	<i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> (Hedges) Collins & Jones; (= <i>Bacterium</i> <i>flaccumfaciens</i> = <i>Corynebacterium</i> <i>flaccumfaciens</i> pv. <i>flaccumfaciens</i> = <i>C. flaccumfaciens</i> = <i>C. flaccumfaciens</i> ssp. <i>flaccumfaciens</i> = <i>Phytomonas</i> <i>flaccumfaciens</i> = <i>Pseudomonas</i> <i>flaccumfaciens</i>); Actinomycetales: Microbacteriaceae; bacterial wilt	I	<i>Glycine max</i> (kedelai, soybean), <i>Zea mays</i> (jagung, corn, maize), <i>Vigna</i> <i>radiata</i> (kacang hijau, mungbean), <i>Vigna</i> spp. (kacang panjang, cowpea), <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus</i> <i>lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Zornia</i> . spp., <i>Ipomoea</i> (morning glory), <i>Lablab purpureus</i> (hyacinth bean)	seed, fruit, stem, seedling, micropropa gated plant (<i>planlet</i>)	Africa: Mauritius, Tunisia, Kenya America: Brazil, Colombia, USA, Venezuela, Canada, Mexico Asia: Turkey Europe: Romania, Russia, Albania, Belgium, Bulgaria, France, Germany, Greece, Hungary, Italy, Netherland, Poland, Portugal, Russia, Serbia, Spain, Switzerland, Ukraine, Yugoslavia Oceania: Australia
8.	<i>Dickeya chrysanthemi</i> . (= <i>Erwinia chrysanthemi</i> (Bulkholder, Mc. Fadden & Dimock); = <i>Erwinia carotovora</i> f.sp. <i>parthenii</i> = <i>E. carotovora</i> f.sp. <i>zeae</i> = <i>E. carotovora</i> var. <i>chrysanthemi</i> = <i>E. dieffenbachiae</i> = <i>E. maydis</i>	I	<i>Chrysanthemum</i> spp., Araceae, <i>Aglaonema</i> , <i>Aloe</i> <i>vera</i> (lidah buaya), <i>Allium</i> spp. (bawang-bawangan), <i>Begonia</i> , <i>Brachiaria</i> , <i>Brassica oleraceae</i> var. <i>botrytis</i> (kol flower, cauliflower), <i>Dieffenbachia</i> ,	bulb, tuber, corm, stem, leaf, growing media (soil)	Africa: Algeria, Comoros, Congo, Cote d'Ivoire, Egypt, Morocco, Reunion, South Africa, Sudan, Zimbabwe, America: Aruba, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Guadeloupe,

<p>=<i>E.paradisiaca</i>=<i>Pectobacterium carotovorum</i> f. sp. <i>chrysanthemi</i> =<i>P.carotovorum</i> var. <i>chrysanthemi</i> =<i>P.carotovorum</i> var. <i>graminarum</i> =<i>P.chrysanthemi</i>=<i>P.chrysanthe mi</i> pv. <i>zcae</i> =<i>P.parthenii-dianthicola</i>); Enterobacteriales: Enterobacteriaceae; busuk kaki, bacterial wilt, bacterial soft rot</p>	<p><i>Dianthus</i>, <i>Dracaena marginata</i>, <i>Elettaria cardamomum</i>, <i>Pelargonium zonale</i> hybrids, <i>Petunia hybrida</i> <i>Philodendron</i>, <i>Anggrek Vanda</i>, <i>Phalaenopsis</i>. <i>Aglaonema commutatum</i>, <i>Ananas comosus</i> (nenas, pineapple), <i>Apium graveolens</i> (seladeri, celery), <i>Brachiaria mutica</i>, <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Dieffenbachiamaculata</i>, <i>Dianthus</i> spp., <i>Lycopersicum esculentum</i> (tomat, tomato), <i>Panicum maximum</i>, <i>Pennisetum purpureum</i>, <i>Philodendron</i> spp., <i>Aechmea fasciata</i>, <i>Anemone</i>, <i>Celosia argentea</i>, <i>Cichorium endivia</i> (andewi, endevi), <i>Cichorium intybus</i>, <i>Canna</i>, <i>Consolida ambigua</i>, <i>Cucumis melo</i> (melon, melon), <i>Colocasia esculenta</i> (taleus, taro), <i>Cynara scolimus</i> (artichoke), <i>Cyclamen</i>, <i>Dahlia pinnata</i>, <i>Daucus carota</i> (wortel,</p>	<p>Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Panama, Peru, Puerto Rico, Saint Lucia, United States of America, Venezuela Asia: Bangladesh, China, India, Iran, Japan, Korea Dem. People's Republic, Korea Republic, Malaysia, Nepal, Philippines, Saudi Arabia, Sri Lanka, Syria, Taiwan Europe: Austria, Belarus, Belgium, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Poland, Portugal, Romania, Russia, Serbia, Spain, Sweden, Switzerland, United Kingdom (England, Scotland). Oceania: Australia, Cook Islands, New Zealand, Papua New Guinea, Solomon Islands</p>
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		<p>carrot), <i>Euphorbia pulcherrima</i>, <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Hyacinthus</i>, <i>Imperata cylindrica</i> (alang-alang, bedding grass), <i>Ipomoea batatas</i> (ubi rambat, sweet potato), <i>Kalanchoe blossfeldiana</i>, <i>Lactuca sativa</i> (selada, lettuce) <i>Medicago sativa</i>, <i>Musa paradisiaca</i> (pisang kepok, plantain), <i>Musa textilis</i>, <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Oryza sativa</i> (padi, paddy), <i>Paspalum</i>, <i>Parthenium argentatum</i>, <i>Phalaenopsis</i> sp. <i>Pyrus communis</i>, <i>Raphanus sativus</i> (lobak, radish), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sedum spectabile</i>, <i>Saintpaulia ionantha</i>, <i>Solanum melongena</i> (terung, eggplant) <i>Solanum tuberosum</i> (kentang, potato), <i>Sorghum bicolor</i> (sorgum, sorghum), Sweet potato, <i>Syngonium podophyllum</i>, <i>Tagetes patula</i> (French</p>		
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			marigold) <i>Tulip</i> spp., <i>Xanthosoma caracu</i> , <i>Zea mays</i> (jagung, corn, maize)		
9.	<i>Dickeya dadantii</i> ; Enterobacteriales: Enterobacteriaceae;bacterial wilt and soft rot of ornamentals and potato	I	<i>Pelargonium</i> sp., <i>Solanum tuberosum</i> (kentang, potato), <i>Ananas comosus</i> (nanas, pineapple), <i>Dianthus</i> spp., <i>Euphorbia</i> sp., <i>Ipomoea batatas</i> (ubi jalar, sweet potato), <i>Musa</i> sp. (pisang, banana), <i>Zea mays</i> (jagung, maize), <i>Philodendron</i> sp., <i>Sintpaulia</i> sp.	bulb, tuber, corm, stem, leaf, growing media (soil)	Asia: China, America: USA, Honduras, Puerto Rico, Europe: Belgium, France, Germany, Italy, United Kingdom
10.	<i>Dickeya dianthicola</i> ; Enterobacteriales: Enterobacteriaceae; <i>slow wilt of Dianthus and potato</i>	I	<i>Dianthus</i> spp, <i>Solanum tuberosum</i> (kentang, potato), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Cichorium</i> sp. (Chicory), <i>Cynara</i> sp. (Artichoke), <i>Dahlia</i> sp., <i>Hyacinthus</i> sp., <i>Iris</i> sp., <i>Kalanchoe</i> sp.	bulb, tuber, corm, stem, leaf, growing media (soil)	Asia: Japan, America: USA, Europe: Belgium, Denmark, Finland, France, Germany, Greece, Italy, Jersey, Netherlands, Poland, Romania, Sweden, Switzerland, United Kingdom, Oceania: New Zealand
11.	<i>Dickeya dieffenbachiae</i> ; Enterobacteriales: Enterobacteriaceae	I	<i>Dieffenbachiae</i> sp., <i>Solanum lycopersicum</i> (tomat, tomato)	bulb, tuber, corm, stem, leaf, growing media (soil)	Asia: China, America: USA, Honduras, Puerto Rico, Europe: Belgium, France, Germany, Italy, United Kingdom
12.	<i>Dickeya paradisiacal</i> ; Enterobacteriales:	I	<i>Musa</i> sp. (pisang, banana)	bulb, tuber, corm, stem,	America: Cuba, Guatemala, Honduras, Jamaica, Panama,

	Enterobacteriaceae			leaf, growing media (soil)	Colombia, Venezuela Oceania: Papua New Guinea
13.	<i>Dickeya solani</i> ; Enterobacteriales: Enterobacteriaceae	I	<i>Solanum tuberosum</i> (kentang, potato)	bulb, tuber, corm, stem, leaf, growing media (soil)	Europe: Belgium, Finland, France, Poland, Netherlands, Spain) Africa: Israel
14.	<i>Dickeya zea</i> ; Enterobacteriales: Enterobacteriaceae	I	<i>Zea mays</i> (jagung, Maize), <i>Solanum tuberosum</i> (kentang, potato), <i>Ananas comosus</i> (nanas, pineapple), <i>Musa</i> sp. (pisang, banana), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Oryza sativa</i> (padi, rice), <i>Brachiaria</i> sp, <i>Chrysanthemum</i> sp.	bulb, tuber, corm, stem, leaf, growing media (soil)	Asia: China, India, Iran, Japan, Korea Dpr, Korea Republic Of, Malaysia, Philippines, Taiwan, Africa: Comoros, Egypt, Mauritius, Réunion, South Africa, Sudan, Zimbabwe, America: Usa, Costa Rica, Cuba, Honduras, Jamaica, Panama, Puerto Rico, Brazil, Colombia, Guyana, Europe: France, Germany, Greece, Italy, Netherlands, Portugal, Russian Federation, Spain, Switzerland, United Kingdom, Oceania: Australia, Cook Islands, New Zealand
15.	<i>Erwinia amylovora</i> (Burrill); (= <i>Bacillus amylovorus</i> = <i>Bacterium amylovorum</i> = <i>Erwinia amylovora</i> f.sp. <i>rubi</i> = <i>Micrococcus amylovorus</i>); Enterobacteriales:	I	<i>Malus domesticum</i> (apel, apple), <i>Prunus dulcis</i> (almon, almond), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus cerasus</i> (ceri, cherry), <i>Pyrus</i>	buds, micropropagated plant(planlet), fruit, flower, leaf,	Africa: Egypt, Algeria, Morocco America: Bermuda, Guatemala, Mexico, USA, Canada Asia: Armenia, Iran, Israel,

	Enterobacteriaceae, fire blight		<i>communis</i> (pir, pear), <i>Prunus persica</i> (persik, peach), <i>Amelanchier</i> spp., <i>Cydonia oblonga</i> , <i>Rubus</i> spp., <i>Sorbus</i> spp.	stem Seedling, wood	Jordan, Libanon, Turkey, Azerbaijan, China, India, Iran, Israel, Japan, Jordan, Korea, Lebanon, Saudi Arabia, Syria, Taiwan, Turkey, Vietnam, Asia Tenggara (South-east Asia) Europe: Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech, Denmark, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia. Oceania: New Zealand
16.	<i>Erwinia rhapontici</i> (= <i>Pectobacterium rhapontici</i> (Millard 1924) Patel & Kulkarni 1951 = <i>Erwinia carotovora</i> var. <i>rhapontici</i> = <i>Aplanobacter</i> <i>rhapontici</i> = <i>Bacillus rhapontici</i> = <i>Bacterium rhapontici</i> = <i>Phytomonas rhapontici</i> = <i>Pseudobacterium rhapontici</i> = <i>Xanthomonas rhapontici</i>);	I	<i>Rheum hybridum</i> (rhubarb), <i>Triticum</i> (wheat), <i>Triticum</i> <i>aestivum</i> (gandum, wheat) <i>Allium cepa</i> (bawang bombay, onion), <i>Allium</i> <i>sativum</i> (bawang putih, garlic), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Cichorium</i> (chicory), <i>Cyclamen persicum</i>	seed, bulb, tuber, corm lapis, fruit, seedling, stem, root, planlet, growing media, tuber, corms,	America: North America (Canada), Mexico, USA Asia: Iran, Israel, Japan, Korea, Malaysia Europe: Belgium, Czech Republic and Slovakia, France, Italy (Sardinia), Lithuania, Netherlands, Norway, Poland, Ukraine, UK (England, Wales)

	Enterobacteriales; Enterobacteriaceae; rhubarb crown rot; wheat pink seed; cereal pink grain		(cyclamens), <i>Dianthus</i> (carnation), <i>Hippeastrum</i> , <i>Hyacinthus orientalis</i> (hyacinth), <i>Solanum</i> <i>lycopersicum</i> (tomat, tomato), <i>Morus</i> (mulberrytree), <i>Morus alba</i> (mora), <i>Pisum sativum</i> (kapri, sweet pea), <i>Pyrus</i> (pir, pears), <i>Armoracia</i> <i>rusticana</i> (horseradish), <i>Amaranthus hybridus</i> (smooth pigweed)	rhizome	Oceania: Australia
17.	<i>Erwinia tracheiphila</i> (Holland) Smith; (= <i>Bacillus tracheiphilus</i> Smith = <i>Bacillus tracheiphilus</i> f.sp. <i>cucumis</i> = <i>Bacterium</i> <i>tracheiphilum</i> = <i>Erwinia</i> <i>amylovora</i> var. <i>tracheiphila</i>); Enterobacteriales: Entero bacteriaceae; bacterial wilt	I	<i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucumis melo</i> (melon, melon), labu, <i>Cucurbita</i> <i>maxima</i> (waluh, labu parang, pumpkin), <i>Citrullus</i> <i>vulgaris</i> (semangka, watermelon), Cucurbitaceae lainnya	flower, leaf, root, stem, seedling, micropropa gated plants Vector: <i>Coleoptera</i> , <i>Chrysomeli</i> <i>dae</i> : <i>Acalymma</i> <i>vittata</i>	Africa: DR Congo, South Africa, America: Canada, Honduras, Peru, USA, New Mexico Asia: China, Iraq, Japan, Korea, Thailand, Iran, Taiwan Europe: Czech, Slovakia, Lithuania, Russia. Oceania: Australia.
18.	<i>Herbaspirillum</i> <i>rubrisubalbicans</i> (= <i>Pseudomonas</i> <i>rubrisubalbicans</i> North. & Smith; (= <i>Bacterium</i> <i>rubrisubalbicans</i> = = <i>Phytomonas</i>	I	<i>Saccharum officinarum</i> (tebu, sugarcane), <i>Zea</i> <i>mays</i> (jagung, corn, maize), <i>Sorghum halepense</i> (Johnson grass), <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Oryza sativa</i>	leaf, stem	Africa: Angola, Benin, Central Africa, Ivory Coast, Madagascar, Malawi, Mauritius, Nigeria, Réunion, South Africa, Tanzania, Burundi, Cote d'Ivoire, Togo America: Barbados, Brazil,

	<i>rubrisubalbicans</i> = <i>Xanthomonas rubrisubalbicans</i>); Pseudomonadales: Pseudomonadaceae; mottled stripe, bacterial stripe		(padi, paddy)		Colombia, Guadeloupe, Jamaica, Martinique, Nicaragua, Peru, Puerto Rico, USA, Venezuela, Cuba, Panama Asia: Sri Lanka, China, Japan, Thailand Oceania: Australia, Fiji, New Zealand
19.	<i>Pantoea agglomerans</i> (= <i>Bacterium herbicola</i> = <i>B. typhiflavum</i> = <i>Corynebacterium beticola</i> = <i>Enterobacter agglomerans</i> = <i>E. agglomerans</i> sp. <i>millettieae</i> = <i>Erwinia herbicola</i> = <i>E. herbicola</i> pv. <i>millettieae</i> = <i>E. lathyri</i> = <i>E. mangiferae</i> = <i>E. millettieae</i> = <i>E. vitivora</i> = <i>Flavobacterium herbicola</i> = <i>F. rhenanum</i> = <i>F. trifolii</i> = <i>Kurthia baccarinii</i> = <i>Pantoea agglomerans</i> pv. <i>millettieae</i> = <i>Phytomonas itoana</i> = <i>Pseudomonas herbicola</i> = <i>P. itoana</i> = <i>P. trifolii</i> = <i>Xanthomonas cosmicola</i> = <i>X. indica</i> = <i>X. itoana</i> = <i>X. maydis</i> = <i>X. penniseti</i> = <i>X. rubrisorghii</i> = <i>X. tagetis</i> = <i>X. translucens</i> f.sp. <i>oryzae</i> = <i>X. trifolii</i>); Enterobacteriales:	I	<i>Ananas comosus</i> (nenas, pineapple), <i>Medicago sativa</i> (alfalfa, lucerne), <i>Allium</i> spp. (bawang-bawangan), <i>Vitis vinifera</i> (anggur, grapevine), <i>Malus sylvestris</i> (apel, apple), <i>Pyrus communis</i> (pir, pear) <i>Abelmoschus moschatus</i> (okra, lady's finger), <i>Citrus</i> spp. (jeruk, orange), <i>Impatiens balsamina</i> , <i>Lathyrus odoratus</i> , <i>Solanum lycopersicum</i> (tomat, tomato), <i>Manihot esculenta</i> (ubi wood, cassava), <i>Mangifera indica</i> (mangga, mango), <i>Oryza sativa</i> (padi, paddy), <i>Setaria italica</i> , <i>Vitis vinifera</i> (anggur, grapevine), <i>Zea mays</i> (jagung, corn, maize), <i>Allium sativum</i> (bawang	fruit, pod, root, stem, leaf, flower	Africa: Egypt, Burkina Faso, Cameroon, Gabon, Madagascar, Mali, Niger, Senegal, South Africa, Togo, Tunisia America: Barbados, Cuba, USA, Costarica, El Salvador, Honduras, Nicaragua, Panama, Mexico, Colombia, Bolivia, Equador, Venezuela Asia: Israel, Japan, Saudi Arabia., Bangladesh, Kambodia, China, India, Korea DPR (North Korea), Republic of Korea (South Korea), Laos, Malaysia, Myanmar, Nepal, Pakistan, Philipine, Sri Lanka, Thailand, Vietnam Europe: France, Germany, Poland, Spain, UK., Italy, Moldova, Poland Oceania: New Zealand.,

	Enterobacteriaceae; bacterial grapevine blight, bacterial riceblight, pink disease of pineapple		putih, garlic), <i>Carthamus tinctorius</i> , <i>Daucus carota</i> (wortel, carrot), <i>Glycine max</i> (kedelai, soyabean), <i>Gossypium hirsutum</i> (kapas, cotton), <i>Hordeum vulgare</i> , <i>Morus</i> , <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Solanum tuberosum</i> (kentang, potato)		Australia
20.	<i>Pantoea ananatis</i> (Serrano, 1928), Mergaert, 1931 (= <i>Pectobacterium ananas</i> (Serrano) Patel & Kulkarni = <i>Pantoea ananatis</i> pv. <i>ananatis</i> (Serrano) Mergaert et al. = <i>Erwinia uredovora</i> Pon et al. = <i>Pantoea ananatis</i> pv. <i>uredovora</i> (Pon et al.) Mergaert et al. = <i>Bacillus ananas</i> Serrano = <i>Bacterium ananas</i> (Serrano) Burgvits = <i>Chromobacterium ananas</i> (Serrano) Krasil'nikov = <i>Erwinia herbicola</i> var. <i>ananas</i> (Serrano) Dye = <i>Pectobacterium ananas</i> (Serrano) Patel & Kulkarni = <i>Erwinia ananas</i> pv. <i>uredovora</i> (Pon et al.) Dye = <i>Erwinia urediniolytica</i> Borders	I	<i>Ananas comosus</i> (nenas, pineapple), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Cucumis melo</i> (melon, melon), <i>Allium cepa</i> (bawang bombay, Onion), <i>Eucalyptus grandis</i> (saligna gum), <i>Eucalyptus nitens</i> (shining gum) <i>Oryza sativa</i> (padi, paddy), <i>Zea mays</i> (jagung, corn), <i>Solanum lycopersicum</i> (tomat, tomato), sorghum bicolor (sorghum, sorghum)	buds, fruit, seed, stem, leaf, micropropagated plant (planlet)	Africa: Nigeria, South Africa, Zimbabwe America: Brazil, Guatemala, Guyana, Haiti, Mexico, Puerto Rico, USA, Venezuela, New York, Argentina Asia: China, Taiwan, Malaysia, Philippines, India, Japan. Eropa: Polandia Oceania: Australia

	<p>=<i>Xanthomonas uredovora</i> =<i>Pantoea ananas</i> pv. <i>ananas</i> (Serrano) Mergaert et al. =<i>Pantoea ananas</i> pv. <i>uredovora</i> (Pon et al.) comb. Nov; <i>Enterobacteriales</i>: <i>Enterobacteriaceae</i></p>				
21.	<p><i>Pectobacterium aroidearum</i>; <i>Enterobacteriales</i>: <i>Enterobacteriaceae</i></p>	I	<p><i>Zantedeschia aethiopica</i> (lilium, calla lily, arum lily)</p>	bulb, tuber, corm, leaf, root, stem, soil	Africa: South Africa
22.	<p><i>Pectobacterium atrosepticum</i> (Van Hall) Jennison; (= <i>Erwinia caricae</i> = <i>Bacillus atrosepticus</i> = <i>Bacillus melanogenes</i> = <i>B. phytophthorus</i> = <i>Bacterium atrosepticum</i> = <i>B. carotovorum</i> = <i>B. carotovorum</i> pv <i>atrosepticum</i> = <i>B. melanogenum</i> = <i>B. phytophthorum</i> = <i>Erwinia carotovora</i> = <i>E. carotovora</i> pv. <i>atroseptica</i> = <i>E. dahliae</i> = <i>E. melonis</i> = <i>E. papayae</i> = <i>E. phytophthora</i> = <i>E. phytophthorus</i> = <i>Pectobacterium atrosepticum</i> = <i>P. carotovorum</i> = <i>P. carotovorum</i> pv <i>atrosepticum</i> = <i>P. carotovorum</i> pv <i>carotovorum</i> = <i>P. phytophthorum</i> = <i>Erwinia atroseptica</i> = <i>E. carotovora</i> var. <i>atroseptica</i>); <i>Enterobacteriales</i>:</p>	I	<p><i>Solanum tuberosum</i> (kentang, potato), <i>Euphorbia pulcherrima</i> (poinsettia) <i>Saccharum officinarum</i> (tebu, sugarcane), Brassicaceae, <i>Allium ascalonicum</i> (bawang merah, shallot), <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Carica papaya</i> (pepaya, pawpaw), <i>Coffea</i> spp. (kopi, coffee), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Daucus carota</i> (wortel, carrot), <i>Glycine max</i> (kedelai, soybean), <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Iris</i> spp., <i>Lycopersicum esculentum</i> (tomat, tomato),</p>	bulb, tuber, corm, leaf, root, stem, soil.	<p>Europe: Austria, Bulgaria, Cyprus, Czech, Slovakia, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Romania, Russia, Spain, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia., Yugoslavia Asia: Azerbaijan, Bhutan, China, India, Iran, Israel, Japan, Kazakhstan, Libanon, Philippines, Turkey, Vietnam. Africa: Algeria, Egypt, Mauritius, Morocco, Mozambique, South Africa, Tanzania, Tunisia, Zimbabwe.</p>

	Enterobacteriaceae;blackleg		<i>Musa</i> spp. (pisang, banana), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Vigna</i> spp. (buncis, cowpea), <i>Zea mays</i> (jagung, corn, maize) Allium cepa (bawang bombay, onion), <i>Consolida ambigua</i> (rocket larkspur), <i>Cyphomandra betacea</i> (tree tomato), <i>Datura stramonium</i> (jimson weed), <i>Phaseolus vulgaris</i> (common bean), <i>Saccharum officinarum</i> (sugarcane), <i>Saintpaulia</i> (African violet), Solanaceae, <i>Iris</i> (Irises), <i>Lupinus</i> (Lupin), <i>Nicotiana glauca</i> (Tree tobacco), <i>Nicotiana rustica</i> (wild tobacco), <i>Nicandra physalodes</i> (apple of Peru)		America: Argentina, Belize, Bermuda, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominica, French West Indies, Guadeloupe, Honduras, Martinique, Mexico, Peru, St. Lucia, Grenadines, Suriname, Trinidad, Tobago, USA., Saint Vincent and the Grenadines, Venezuela Oceania: Australia, New Zealand.
23.	<i>Pectobacterium betavasculorum</i> (= <i>Erwinia carotovora</i> subsp. <i>Betavasculorum</i> ; = <i>Erwinia betavasculorum</i>); Enterobacteriacee; sugarbeet rot	I	<i>Beta vulgaris</i> var. <i>Sacharifera</i> (Sugarbeet), <i>Solanum tuberosum</i> (kentang, Potato)	root, stem, leaf, flower, fruit	America: USA
24.	<i>Pectobacterium</i>	I	<i>Opuntia</i> spp. (Kaktus,	bulb, tuber,	America: USA, Columbia,

	<i>cacticida</i> ; <i>Enterobacteriales</i> : <i>Enterobacteriaceae</i>		cactus, cacti)	corm, leaf, root, stem, soil	Guatemala
25.	<i>Pectobacterium wasabiae</i> ; <i>Enterobacteriales</i> : <i>Enterobacteriaceae</i>	I	<i>Eutrema wasabi</i> (Wasabi), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), Ipomoea batatas (ubi jalar, sweet potato), <i>Solanum</i> <i>lycopersicum</i> (tomat, tomato), <i>Solanum</i> <i>melongena</i> (terung, eggplant, aubergine), <i>Solanum tuberosum</i> (kentang, potato)	bulb, tuber, corm, leaf, root, stem, soil	Asia: Japan, Malaysia America: Canada
26.	<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> (Burkholder) Gardan <i>et al.</i> (= <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> = <i>Pseudomonas phaseolicola</i> = <i>Pseudomonas medicaginis</i> = <i>Pseudomonas medicaginis</i> var. <i>phaseolicola</i> = <i>Bacterium medicaginis</i> var. <i>phaseolicola</i> = <i>Phytomonas medicaginis</i> var. <i>phaseolicola</i> = <i>Phytomonas puerariae</i> = <i>Pseudomonas medicaginis</i> f.sp. <i>phaseolicola</i> = <i>Xanthomonas medicaginis</i> var. <i>phaseolicola</i> = <i>Pseudomonas vignae</i> = <i>Phytomonas vignae</i> = <i>Bacterium puerariae</i> =	I	<i>Phaseolus acutifolius</i> (tepany bean), <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean) <i>Cajanus cajan</i> (pigeon pea), Centrosema, Desmodium (tick clovers), <i>Glycine max</i> (kedelai, soybean), <i>Lablab purpureus</i> (hyacinth bean), <i>Pisum sativum</i> (kapri, sweet pea), <i>Pueraria</i> var. <i>lobata</i> (kudzu), <i>Vigna angularis</i> (adzuki bean), <i>Vigna radiata</i> (kacang hijau, mung bean), <i>Vigna unguiculata</i> (kacang	Fruit, pod, growing point, leaf, seed, stem, seedling, flower	Africa: Burundi, DR Congo, Egypt, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius (Rodriguez Island), Morocco, Mozambique, South Africa, Rwanda, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe. America: Central America & Caribbean (Barbados, Costa Rica, Guadeloupe, Martinique, Saint Vincent and the Grenadines), North America (Canada), Mexico, USA, Hawaii, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay,

	<p><i>Xanthomonas phaseolicola</i> = <i>Pseudomonas cerasi</i> (= <i>cerasus</i>) = <i>Pseudomonas holci</i> ; Pseudomonadales; Pseudomonadaceae; halo blight (of beans); grease spot (of beans)</p>		panjang, cowpea)		<p>Peru, Uruguay, French Guiana, Suriname, Asia: Georgia, India, Israel, Japan, Pakistan, Saudi Arabia, Turki, Yaman Europe: Austria, Belgium, Bulgaria, Czech Republic and Slovakia, Denmark, France, Germany, Greece, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Hungary, Ireland, Italy, Jersey, Lithuania, Netherlands, Poland, Romania, Russia (Russia (Europe), Spain, Sweden, Switzerland, UK (Channel Islands) Oceania: Australia, Fiji, New Zealand</p>
27.	<p><i>Pseudomonas syringae</i> pv. <i>morsprunorum</i> (Wormald) Young et al. (= <i>Pseudomonas mors-prunorum</i> = <i>Agrobacterium mors-prunorum</i> = <i>Bacterium mors-prunorum</i> = <i>Phytomonas mors-prunorum</i>; Pseudomonadales; Pseudomonadaceae; bacterial canker of stone fruits; spot of stone fruits; shoot wilt of stone fruits; gummosis; blossom</p>	I	<p><i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum), <i>Prunus salicina</i> (Japanese plum) <i>Prunus cerasus</i> (sour cherry)</p>	fruit, flower, leaf, stem, wood, bark	<p>Africa: South Africa America: North America (Canada), USA Asia: India, Japan, Libanon Eroupe: Czech Republic, Czech Republic and Slovakia, Denmark, Finland, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan,</p>

	blast				Uzbekistan, Ukraina, Russia, French, Germany, Greece, Ireland, Italy, Netherlands, Norway, Poland, Romania, Sweden, Serbia and Montenegro, Ukraine, UK, Switzerland Oceania: Australia
28.	<i>Pseudomonas syringae</i> pv. <i>passiflorae</i> (= <i>Pseudomonas passiflora</i> (Reid) Young et al.); <i>Phytobacterium passiflorae</i> (Reid) Magrou & Prévot; <i>Phytomonas passiflorae</i> Reid; <i>Pseudomonas passiflorae</i> (Reid) Burkholder); grease spot of passion fruit; necrotic spots	I	<i>Passiflora</i> (passionflower), <i>Passiflora edulis</i> (markisa, passionfruit)	leaf, fruit, stem	Africa: South Africa America: Dominica Oceania: Australia dan New Zeland
29.	<i>Pseudomonas syringae</i> pv. <i>coriandricola</i> Toben & Rudolph; Pseudomonadales: Pseudomonadaceae; blight, bacterial blight	I	<i>Coriandrum sativum</i> (ketumbar, coriander), <i>Petroselinum crispum</i> (Parsley)	seed, seedling, stem, leaf.	America: Ohio Asia: India Europe: Germany, Spain Oceania: Australia
30.	<i>Pseudomonas syringae</i> pv. <i>garcae</i> Teix. & Pinh.; (= <i>P. garcae</i>); Pseudomonadales: Pseudomonadaceae; bacterial spot, bacterial blight of coffee	I	<i>Coffea</i> spp. (kopi, coffee). <i>Solanum lycopersicum</i> (tomat, tomato), <i>Solanum tuberosum</i> (kentang, potato), <i>Vigna</i> spp. (kacang panjang, cowpea), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Citrus</i> sp. (jeruk, orange)	Tanaman micropropagated (<i>planlet</i>), seedling	Africa: Kenya America: Brazil

31.	<p><i>Pseudomonas syringae</i> pv. <i>Maculicola</i> (McCulloch) Young et al.; (= <i>Bacterium maccullochianum</i> = <i>B. maculicola</i> = <i>B. maculicola</i> var. <i>japonicum</i> = <i>Phytomonas maculicola</i> = <i>Pseudomonas maculicola</i>); Pseudomonadales: Pseudomonadaceae; pepper spot, spot</p>	I	<p><i>Brassica oleracea capitata</i> (kubis, cabbage), <i>Brassica rapa gongylodes</i> (kohlrabi), <i>Brassica rapa</i> sub sp. <i>rapa</i> (turnip, turnip), <i>Brassica juncea</i> var. <i>juncea</i>, <i>Brassica nigra</i>, <i>Brassica oleracea</i> var. <i>viridis</i>, <i>Brassica oleracea</i> var. <i>gemmifera</i>, <i>Brassica rapa</i> sub sp. <i>pekinensis</i>, <i>Raphanus sativus</i> (lobak, radish), <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea</i> var. <i>italica</i> (broccoli)</p>	<p>stem, leaf, root, stem, leaf, flower, fruit</p>	<p>Africa: Algeria, Mauritius, Mozambique, South Africa, Zimbabwe America: Argentina, Bermuda, Brazil, Karibia, Cuba, El Salvador, North America, Puerto Rico, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana, USA, Canada Asia: China, Georgia (Republic), Japan, Korea DPR (North Korea), Republic of Korea (South Korea), Turkey, Taiwan Europe: Bulgaria, Czech, Slovakia, Denmark, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Germany, Italy, Netherlands, Norway, Russia, Rusia, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Yugoslavia Oceania: Australia, Palau, Micronesia, Fiji, New Zealand, Papua New Guinea</p>
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32.	<p><i>Pseudomonas syringae</i> pv. <i>pisi</i> (= <i>Bacterium pisi</i> = <i>Chlorobacter pisi</i> = <i>Phytomonas pisi</i> = <i>Pseudomonas pisi</i>); Pseudomonadales: Pseudomonadaceae; bacterial pea blight</p>	I	<p><i>Pisum sativum</i> (kapri, sweet pea), <i>Lathyrus</i>, <i>Pisum sativum</i> var. <i>arvense</i> <i>Vicia benghalensis</i>, <i>Lablab purpureus</i>, <i>Lathyrus latifolius</i>, <i>Lathyrus odoratus</i>, <i>Vicia</i> spp., <i>Cynodon dactylon</i>, <i>Galium aparine</i>, <i>Reseda lutea</i>, <i>Digitaria sanguinalis</i>, <i>Lepidium campestre</i>, <i>Vicia</i> (vetch)</p>	<p>planlet, fruit, flower, leaf, plant, stem, seed.</p>	<p>Africa: Kenya, Malawi, Morocco, South Africa, Tanzania, Zimbabwe America: Argentina, Bermuda, Brazil, Canada, Colombia, Costa Rica, Ecuador, Mexico, USA, Uruguay Asia: Armenia, Georgia, India, Israel, Japan, Kazakhstan, Kyrgyzstan, Libanon, Nepal, Pakistan, Syria Europe: Bulgaria, Croatia, Czech, Denmark, France, Germany, Greece, Hungary, Italy, Caldarera, Sicily, Lithuania, Moldova, Netherlands, Portugal, Romania, Russia, Southern Rusia, Slovakia, Switzerland, Ukraine, UK (England, Wales), Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Yugoslavia, Spain Oceania: Australia, New Caledonia, New Zealand</p>
33.	<p><i>Pseudomonas syringae</i> pv. <i>syringae</i> (van Hall) Young et al.; (= <i>Bacillus cerasi</i> = <i>B.gummis</i> = <i>B.matthiolae</i> = <i>B.spongiosus</i> = <i>Bacterium cerasi</i> = <i>B.cerasi</i>)</p>	I	<p><i>Cucurbita maxima</i> (waluh, labu parang, pumpkin), <i>Cyphomandra betacea</i> (tree tomato), <i>Lactuca sativa</i> (lettuce), <i>Prunus avium</i></p>	<p>seed, root, stem, leaf, flower, fruit, growing media</p>	<p>Africa: Algeria, Egypt, Ethiopia, Kenya, Lesotho, Malawi, Morocco, South Africa, Tanzania, Tunisia, Uganda, Zimbabwe,</p>

<p>var. <i>prunicola</i> =<i>B.citrarefaciens</i> =<i>B.citriputeale</i> =<i>B.gummis</i> =<i>B.hibisci</i> =<i>B.holci</i> = <i>B.nectalaphilum</i> =<i>B.prunicola</i> =<i>B.rimaefaciens</i> =<i>B.spongiosum</i> =<i>B.syringae</i> =<i>B.trifoliorum</i> =<i>B.utiformica</i> =<i>B.vignae</i> =<i>B.vignae</i> var. <i>leguminophilum</i> =<i>B.viridifaciens</i> =<i>Chlorobacter</i> <i>syringae</i> =<i>Phytomonas cerasi</i> =<i>P.cerasi</i> var. <i>prunicola</i> =<i>P.citrarefaciens</i> =<i>P.citriputealis</i> =<i>P.hibisci</i> =<i>P.holci</i> =<i>P.matthiolae</i> =<i>P.nectalaphila</i> =<i>P.prunicola</i> =<i>P.rimaefaciens</i> =<i>P.spongiosa</i> =<i>P.syringae</i>=<i>P.trifoliorum</i> =<i>P.utiformica</i> =<i>P.vignae</i> =<i>P.vignae</i> var. <i>leguminophila</i> =<i>P.viridifaciens</i> =<i>Pseudomonas</i> <i>cerasi</i>=<i>Pseudomonas cerasi</i> f.sp. <i>pyri</i> =<i>P.cerasi</i> var. <i>prunicola</i> =<i>P.cerasi</i> var. <i>pyri</i> =<i>P.citrarefaciens</i> =<i>P.</i> <i>citriputealis</i> =<i>P.hibisci</i> =<i>P.oryzicola</i> =<i>P.prunicola</i>=<i>P.spongiosa</i> =<i>P.syringae</i> =<i>P.syringae</i> f.sp. <i>prunicola</i> (Wormald) =<i>P.trifoliorum</i> =<i>P.utiformica</i> =<i>P.vignae</i> =<i>P.vignae</i> var. <i>leguminophila</i> =<i>P.viridifaciens</i> =<i>P.syringae</i> pv.</p>		<p>(Sweet Cherry), <i>Pyrus</i> (<i>pir</i>, pear), <i>Passiflora edulis</i> (passionfruit) <i>Malus domesticum</i> (apel, apple), <i>Prunus</i> spp., <i>Vigna</i> spp. (kacang panjang, cowpea), <i>Syringa vulgaris</i>, <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Aconitum</i> spp., <i>Abelmoschus moschatus</i> (okra, lady's finger), <i>Vernicia fordii</i>, <i>Allium</i> spp., <i>Alnus glutinosa</i>, <i>Arbutus</i> spp., <i>Aralia</i> spp., <i>Actinidia</i> <i>deliciosa</i> (kiwi, kiwi fruit), <i>Atriplex hortensis</i>, <i>Beta</i> <i>vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beet), <i>Betula pendula</i>, <i>Brassica</i> <i>rapa</i> subsp. <i>pekinensis</i> (pe- tsai), <i>Carthamus tinctorius</i>, <i>Centaurea maculosa</i>, <i>Erysimum cheiri</i>, <i>Chrysanthemum indicum</i>, <i>Citrus</i> spp.(jeruk, orange), <i>Cinnamomum camphora</i>, <i>Calystegia sepium</i>, <i>Cyamopsis tetragonoloba</i>, <i>Coffea</i> spp. (kopi, coffee), <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Cucumis sativus</i></p>	<p>America: Argentina, Barbados, Brazil, Chile, El Salvador, Guatemala, Honduras, Mexico, Panama, Puerto Rico, USA, Uruguay Asia: Azerbaijan, China, Georgia, India, Iran, Israel, Japan, Kazakhstan, Korea, Kyrgyzstan, Libanon, Sri Lanka, Thailand, Turkey, Uzbekistan, Europe: Belarus, Belgium, Bulgaria, Cyprus, Czech, Slovakia, Denmark, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Ireland, Italy, Moldova, Netherlands, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia, New Zealand</p>
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<p><i>japonica</i>);Pseudomonadales: Pseudomonadaceae; bacterial canker or blast (stone and pome fruits), bacterial brown spot (beans), apoplexy of apricots, bacterial black spot, bacterial eye spot, bacterial spot, bacterial sheath rot, blast of <i>Citrus</i>, blister spot of apple, peach-tree short-life, pear blossom blight</p>	<p>(mentimun, cucumber), <i>Cucurbita</i>, <i>Cydonia oblonga</i>, <i>Cyphomandra betacea</i>, <i>Dahlia pinnata</i>, <i>Daphne odora</i>, <i>Desmodium</i> spp., <i>Diospyros kaki</i> (kesemek, persimmon), <i>Echinochloa crusgalli</i>, <i>Fortunella</i> spp., <i>Forsythia intermedia</i>, <i>Fragaria vesca</i>, <i>Glycine max</i> (kedelai, soybean), <i>Hibiscus</i> spp., <i>Hordeum vulgare</i> (barli, barley), <i>Impatiens balsamina</i>, <i>Juglans regia</i>, <i>Lactuca sativa</i>, <i>Lablab purpureus</i>, <i>Ligustrum ovalifolium</i>, <i>Solanum lycopersicum</i> (tomat, tomato), <i>Magnolia</i> spp., <i>Medicago sativa</i>, <i>Mangifera indica</i> (mangga, mango), <i>Matthiola incana</i>, <i>Musa paradisiaca</i> (pisang kepok, plantain), <i>Mucuna deeringiana</i>, <i>Nerium oleander</i>, <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Oryza sativa</i> (padi, paddy), <i>Panicum</i> spp., <i>Passiflora quadrangularis</i> (markisa,</p>		
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			<p>passion- fruit, granadilla), <i>Persea americana</i> (alpokat, avocado), <i>Pennisetum</i> spp., <i>Philadelphus</i>, <i>Vigna angularis</i>, <i>Phaseolus</i> spp., <i>Pisum sativum</i> (kapri, sweet pea), <i>Piper nigrum</i> (lada, blackpepper), <i>Pinus radiata</i>, <i>Populus</i> spp., <i>Quercus</i> spp., <i>Rhododendron</i>, <i>Rosa</i> spp. (mawar, rose), <i>Rubus ursinus</i>, <i>Salix</i> spp., <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Sorghum</i> spp., <i>Trifolium</i> spp., <i>Trigonella foenum-graecum</i>, <i>Triticum aestivum</i> (gandum, wheat), <i>Vaccinium</i> sp., <i>Vicia faba</i>, <i>Vicia villosa</i>, <i>Vigna cylindrica</i>, <i>Vitis vinifera</i> (anggur, grapevine), <i>Zea mays</i> (jagung, corn, maize). <i>Chenopodium quinoa</i> (quinoa), <i>Panax ginseng</i> (Asiatic ginseng)</p>		
34.	<p><i>Pseudomonas syringae</i> pv.<i>theae</i> (Hori) Young et al. ; (= <i>Bacillus theae</i> = <i>Erwinia theae</i> = <i>Innominatus theae</i> = <i>Pseudomonas theae</i>); Pseudomonadales:</p>	I	<i>Camellia sinensis</i> (teh, tea)	leaf, stem yang muda root, stem, leaf, flower, fruit	Asia: Japan

	Pseudomonadaceae; shoot blight, bacterial stem blight, bacterial tea blight, red blight, tea bacterialspot				
35.	<i>Pseudomonas viridiflava</i> (Burkholder); (= <i>Bacterium viridiflavum</i> = <i>Chlorobacter viridiflavus</i> = <i>Phytomonas viridiflava</i>);Pseudomonadales; Pseudomonadaceae;bacterial blight of tomato; Hydrangea bud blight; bacterialnecrosis of basil; bacterial rot of lettuce; bacterial rot of Chinese cabbage; bacterial soft rot of tomato; bacterial blossom blight of kiwi	I	<i>Actinidia deliciosa</i> (kiwi, kiwifruit), <i>Allium cepa</i> (bawang bombay, onion), <i>Anethum graveolens</i> (dill), <i>Apium graveolens</i> (seledri, celery), <i>Apium graveolens</i> var. <i>dulce</i> (celery), <i>Brassica</i> spp., <i>Capsicum annuum</i> (paprika, bell pepper), <i>Cucumis melo</i> (melon, melon), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Cucurbita maxima</i> (waluh, labu parang, pumpkin), <i>Hydrangea</i> (hydrangeas), <i>Solanum lycopersicon</i> (tomat, tomato) <i>Actinidia chinensis</i> (Chinese gooseberry), <i>Allium fistulosum</i> (Welsh onion), <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea</i> var. <i>capitata</i> (kubis, cabbage), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Calendulaofficinalis</i> (Pot	seed, root, stem, leaf, flower, fruit, growing media, seedling, micropropa gated plant	Africa: Egypt, Kenya, Morocco, Tanzania, Uganda, Algeria America: USA, Argentina, Brazil, Venezuela, Uruguay Asia: China, Iran, Japan, Jordan, South Korea, Nepal, Turkey, Saudi Arabia Europe: Belgium, Bulgaria, Czech, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Macedonia, Netherlands, Poland, Portugal, Serbia-Montenegro, Slovakia, Spain, Switzerland, UK, Yugoslavia, Russia Oceania: Australia, New Zealand.

			<p>marigold), <i>Capsicum frutescens</i> (cabai rawit, chilli), <i>Carthamus tinctorius</i> (safflower), <i>Chrysanthemum indicum</i> (krisan, chrysanthemum), <i>Cichorium endivia</i> (endives), <i>Citrus aurantium</i> (sour orange), <i>Citrus macrophylla</i> (alemow), <i>Citrus sinensis</i> (navel orange), <i>Cyclamen persicum</i> (cyclamens), <i>Eschscholzia californica</i> (california poppy), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Eutrema wasabi</i> (Wasabi), <i>Forsythia suspensa</i>, <i>Glycine max</i> (kedelai, soyabean), <i>Lablab purpureus</i> (hyacinth bean), <i>Lotus corniculatus</i> (bird's-foot trefoil), <i>Lupinus angustifolius</i> (lupin), <i>Medicago sativa</i> (lucerne), <i>Nicotiana rustica</i> (wild tobacco), <i>Papaver</i> (poppies), <i>Papaver nudicaule</i> (Iceland poppy), <i>Passiflora edulis</i> (passionfruit), <i>Pastinaca sativa</i> (parsnip), <i>Petroselinum crispum</i> (parsley), <i>Petunia hybrida</i>,</p>	
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			<p> <i>Phaseolus coccineus</i> (runner bean), <i>Phaseolus lunatus</i> (lima bean), <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Pisum sativum</i> (kapri, sweet pea), <i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus avium</i> (sweet cherry), <i>Pseudopanax</i>, <i>Pyrus communis</i> (European pear), <i>Rosa</i> (mawar, roses), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Sorghum sudanense</i> (Sudan grass), <i>Tanacetum coccineum</i> (common pyrethrum), <i>Trifolium pratense</i> (purple clover), <i>Tropaeolum majus</i> (common nasturtium), <i>Vaccinium corymbosum</i> (blueberry), <i>Vicia faba</i> (broad bean), <i>Vigna angularis</i> (adzuki bean), <i>Vigna unguiculata</i> (kacang panjang, cowpea), <i>Viola</i> (violet), <i>Vitis vinifera</i> (anggur, grapevine), <i>Zea mays</i> (jagung, maize, corn), <i>Zinnia elegans</i> (zinnia) </p>	
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36.	<p><i>Rathayibacter tritici</i> (Hutchinson) Zgurskaya et al.; (= <i>Clavibacter tritici</i> = <i>Corynebacterium michiganense</i> pv. <i>tritici</i> = <i>C. tritici</i> = <i>Agrobacterium tritici</i> = <i>Bacterium tritici</i> = <i>Phytomonas tritici</i> = <i>P. tritici</i> = <i>Pseudomonas tritici</i>); Actinomycetales: Microbacteriaceae; spike blight, tundu disease, yellow ear rot, yellow slime disease, yellow spike</p>	I	<p><i>Triticum aestivum</i> (gandum, wheat), <i>Triticum dicoccum</i>, <i>Triticum turgidum</i> (durum wheat) <i>Alopecurus</i> (foxtails), <i>Hordeum vulgare</i> (barley), <i>Lolium temulentum</i> (darnel)</p>	<p>seed, root, stem, leaf, flower, fruit, soil, growing media Vector: Tylenchida, Anguinidae: <i>Anguina tritici</i></p>	<p>Africa: Egypt:, Ethiopia, Zambia, Marocco. Asia: Afghanistan, China, India, Iran, Iraq, Pakistan Europe: Cyprus Oceania: Australia</p>
37.	<p><i>Rhizobium vitis</i> (Ophel & Kerr) Young et al. ; (= <i>Agrobacterium biovar 3</i> = <i>A. tumefaciens biovar 3</i> = <i>A. vitis</i>); Rhizobiales: Rhizobiaceae; crown gall</p>	I	<p><i>Vitis vinifera</i> (anggur, grapevine)</p>	<p>leaf, planlet, root, stem, seed, soil, growing media.</p>	<p>Africa: Tunisia America: Brazil, Canada, USA Asia: Afghanistan, China, Japan, Jordan, Korea Europe: France, Greece, Hungary, Spain Oceania: Australia</p>
38.	<p><i>Rhodococcus fascians</i> (Zopt.) Tsunukura; (= <i>Bacterium fascians</i> = <i>Phytomonas fascians</i> = <i>Pseudobacterium fascians</i> = <i>Rhodococcus rubropertinctus</i> = <i>Corynebacterium fascians</i>); Actinomycetales: Nocardiaceae; witches' broom syndrome, ornamental cauliflower disease, strawberry cauliflower disease, strawberry</p>	I	<p><i>Asparagus densiflorus</i>, <i>Begonia tuberhybrida</i>, <i>Erysimum cheiri</i>, <i>Chrysanthemum</i> spp., <i>Cucumis melo</i> (melon), <i>Dahlia pinnata</i>, <i>Dianthus caryophyllus</i>, <i>Fragaria vesca</i> (arbei, wild strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Freesia</i> spp., <i>Gloriosa</i> spp.,</p>	<p>leaf, planlet, root, stem, seed, soil, bulb, tuber, corm lapis, bulb, tuber, corm (tuber), corms, rhizomes,</p>	<p>Africa: Egypt America: Canada, Colombia, Mexico, USA, Guatemala Asia: India, Iran, Israel Europe: Belgium, Czech, Denmark, Estonia, France, Germany, Hungary, Italy, Latvia, Netherlands, Norway, Russia, Slovakia, Sweden, Ukraine, UK, Poland Oceania: Australia, New</p>

	fasciation, tobacco leafy gall, leafy gall, fasciation	<p><i>Lilium</i> spp., <i>Lathyrus odoratus</i>, <i>Pelargonium zonale</i>, <i>Triteleia</i> spp., <i>Brassica oleracea</i> var <i>botrytis</i> (bunga kol, cauliflower), <i>Brodiaea</i>, <i>Euphorbia</i>, <i>Fragaria</i>, <i>Hebe</i>, <i>Kalanchoe</i>, <i>Pisum sativum</i> (kapri, sweet pea), <i>Erysimum cheiri</i> (wallflower), <i>Chamaemelum nobile</i>, <i>Antirrhinum majus</i>, <i>Beta vulgaris</i> (bit, beet root), <i>Beloperone</i>, <i>Brassica</i> spp., <i>Buddleia davidii</i>, <i>Cichorium intybus</i>, <i>Cicer arietinum</i>, <i>Consolida ambigua</i>, <i>Capsicum annuum</i> (paprika, bell-pepper), <i>Crysanthemum vestitum</i>, <i>Casuarina equisetifolia</i>, <i>Dactura inosia</i>, <i>Dianthus barbatus</i>, <i>Euphorbia pulcherrima</i>, <i>Erysimum allionii</i>, <i>Forsythia suspensa</i>, <i>Gladiolus hybrids</i>, <i>Glycine max</i> (kedelai, soyabean), <i>Gypsophila paniculata</i>, <i>Hebe andersonii hybrids</i>, <i>Hyacinthus</i>, <i>Impatiens walleriana</i>, <i>Kalanchoe</i></p>	seedling Vector: Hemiptera, Aphididae: <i>Myzus persicae</i> , <i>M. ascalonicus</i>	Zealand
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			<p><i>blossfeldiana</i>, <i>Lycopersicon esculentum</i> (tomat, tomato), Pelargonium, <i>Rhododendron</i> (Azela), <i>Mesembryanthemum</i>, <i>Muscari botryoides</i>, <i>Nicotiana</i>, <i>Petunia hybrida</i>, <i>Phaseolus</i> spp., <i>Physalis</i> spp., <i>Pisum sativum</i> (kapri, sweet pea), <i>Phlox</i> spp., <i>azalea</i>, <i>Spinacia oleracea</i>, <i>Tagetes</i> spp., <i>Tropaeolum majus</i>, <i>Triteleia laxa</i>, Tulip, <i>Viburnum opulus</i>, <i>Vicia faba</i>, <i>Sorbaria sorbifolia</i></p>		
39.	<p><i>Spiroplasma citri</i> (Saglio et. al).; Entomoplasmatales: Spiroplasmataceae; stubborn disease</p>	I	<p><i>Citrus</i> spp. (jeruk, orange), <i>Pisum sativum</i> (kapri, sweet pea), <i>Trifolium pratense</i>, <i>Trifolium repens</i>, <i>Vicia faba</i>, <i>Vinca rosea</i> <i>Armoracia rusticana</i> (horseradish), <i>Citrus aurantium</i> (sour orange), <i>Citrus limon</i> (lemon), <i>Citrus reticulata</i> (mandarin), <i>Citrus reticulata x paradisi</i> (tangelo), <i>Citrus sinensis</i> (navel orange), <i>Citrus paradisi</i> (grapefruit) Amaranthaceae, Brassicaceae (cruciferous crops), <i>Capsella bursa-</i></p>	<p>bibit Vector: Hemiptera, Cicadellidae : <i>Circulifer tenellus</i>, <i>Scaphytopius nitrides</i>, <i>S. acutus delongi</i>, <i>Neoliturus haematocephalus</i>.</p>	<p>Europe: Cyprus, France, Greece, Italy, Spain. Asia: Iran, Iraq, Israel, Jordan, Lebanon, Oman, Pakistan, Saudi Arabia, Syria, Turkey, United Arab Emirates, Yemen. Africa: Algeria, Egypt, Libya, Madagascar, Morocco, Somalia, Sudan, Tunisia. America: Argentina, Brazil, Mexico, Peru, Suriname, USA, Venezuela. Oceania: New Zealand.</p>

			<p><i>pastoris</i> (shepherd's purse), Chenopodiaceae, <i>Citroncirus webberi</i> (citrange), <i>Citrus jambhiri</i> (rough lemon), <i>Citruslimettioides</i> (palestine sweet lime), <i>Citrus limonia</i> (mandarin lime), <i>Citrus</i> <i>madurensis</i> (calamondin), <i>Citrus maxima</i> (pummelo), <i>Citrus unshiu</i> (satsuma), <i>Digitalis purpurea</i> (foxglove), Fortunella (kumquats), Plantaginaceae, <i>Plantago</i> <i>ovata</i> (spogel plantain), <i>Raphanus raphanistrum</i> (wild radish), <i>Sorghum</i> <i>halepense</i> (Johnson grass)</p>		
40.	<p><i>Spiroplasma kunkelii</i> (Whitcomb) Chen <i>et al.</i>; Entomoplasmatales: spiroplasmataceae; corn stunt disease, corn stunt spiroplasma, maize stunt spiroplasma, Rio Grande corn stunt</p>	I	<p><i>Zea mays</i> (jagung, corn, maize), <i>Zea mays</i> subsp. <i>mays</i> (jagung manis, sweetcorn). <i>Zea mexicana</i> (teosinte), <i>Zea perennis</i></p>	<p>leaf, stem, root</p> <p>Vector: Hemiptera, Cicadellidae : <i>Dalbulus</i> <i>maydis</i>, <i>D.</i> <i>eliminatus</i>, <i>Exitianus</i> <i>exitiosus</i>, <i>Graminella</i> <i>nigrifons</i>,</p>	<p>America: Bolivia, Brazil, El Salvador, Jamaica, Mexico, Peru, USA, Venezuela, Belize, Guatemala, Honduras, Nicaragua, Panama, Argentina</p>

				<i>Stirellus bicolor</i>	
41.	<i>Streptomyces ipomoeae</i> (Person & Martin) Waksman & Henrici; (= <i>Actinomyces ipomoeae</i>); Actinomycetales: Streptomycetaceae; Streptomyces soil rot (pox), soil rot, ground rot, sweet potato soft rot, sweet potato soil rot, sweet potato pox	I	<i>Ipomoea batatas</i> (ubi jalar, sweet potato) <i>Ipomoea</i> spp.	umbi (tuber/ corm/ rhizome), planlet, root, soil, growing media, seedling	America: USA Asia: Japan, Vietnam
42.	<i>Tatumella citrea</i> (= <i>Pantoea citrea</i> = <i>Erwinia citreus</i> Sonoyama et al., 1988 pink fruit, pink disease of pineapple.	I	<i>Ananas comosus</i> (nanas, pineapple) <i>Citrus reticulata</i> (jeruk mandarin, mandarin orange)	fruit, pod	Africa: Tanzania America: Mexico, USA Asia: Japan, Philippines, Taiwan Europe: Albania, Czech Republic Oceania: Australia
43.	<i>Xanthomonas arboricola</i> pv. <i>Pruni</i> (Smith) Vauterin, Hoste, Kersters & Swings (= <i>Xanthomonas pruni</i> = <i>Bacillus pruni</i> = <i>Bacterium cerasi wraggi</i> = <i>Bacterium pruni</i> = <i>Phytomonas cerasi wraggi</i> = <i>Phytomonas pruni</i> = <i>Pseudomonas cerasi wraggi</i> = <i>Pseudomonas pruni</i> = <i>Xanthomonas campestris</i> pv. <i>pruni</i> ; Xanthomonadales; Xanthomonadaceae; bacterial canker of stone fruit; bacterial	I	<i>Prunus armeniaca</i> (aprikot, apricot), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum) <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunus japonica</i> (Japanese bush cherry tree), <i>Prunus mume</i> (Japanese apricot tree), <i>Prunus</i> (stone fruit), <i>Prunus laurocerasus</i> (cherry laurel)	fruit, leaf, stem	Africa: South Africa, Zimbabwe America: Central America & Caribbean (Bermuda), North America, Canada, Mexico, USA, Argentina, Bolivia, Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Uruguay, French Guiana Asia: China, Taiwan, India, Iran, Japan, Korea DPR (North Korea), Republic of Korea (South Korea),

	shot-hole of stone fruit; bacterial spot of stone fruit; bacterialsport of stone fruit; black spot of stone fruit				Lebanon, Pakistan, Saudi Arabia, Tajikistan Europe: Bulgaria, France (France [mainland]), Italy, Moldova, Romania, Russia (Russian Far East, Southern Russia), Slovenia, Ukraine, Austria, Belgium, Cyprus, Netherland, Romania, Slovakia, Spain, Switzerland Oceania: Australia, New Zealand
44.	<i>Xanthomonas axonopodis</i> pv. <i>alfalfae</i> Common name: bacterial alfalfa spot	I	<i>Glycine max</i> (kedelai, soyabean), <i>Lablab purpureus</i> (hyacinth bean), <i>Medicago sativa</i> (lucerne), <i>Medicago scutellata</i> (snail medic), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (kapri, sweetpea), <i>Trifolium incarnatum</i> (Crimson clover), <i>Trifolium pratense</i> (purple clover), <i>Vicia benghalensis</i> (purple vetch), <i>Vicia sativa</i> (common vetch), <i>Vigna mungo</i> (black gram)	leaf, stem, micropropagated plant	Africa: Sudan America: Elsalvador, Nicaragua, USA Asia: Georgia (Republic), India dan Syria Europe: Rumania Oceania: Australia
45.	<i>Xanthomonas axonopodis</i> pv. <i>allii</i> Roumagnac et al. (= <i>Xanthomonas campestris</i> pv. <i>allii</i>); Xanthomonadales: Xanthomonadaceae; blight	I	<i>Allium</i> (onions, garlic, leek, etc.), <i>Allium cepa</i> (bawang bombay, onion), <i>Allium cepa</i> var. <i>aggregatum</i> (bawang merah, shallot),	root, stem, leaf, flower, fruit, growing media	Africa: Mauritius, Réunion, South Africa America: Central America & Caribbean (Barbados, Cuba, Saint Kitts and Nevis), USA,

			<i>Allium fistulosum</i> (Welsh onion), <i>Allium porrum</i> (leek), <i>Allium sativum</i> (bawang putih, garlic), <i>Allium schoenoprasum</i> (chives)		Brazil, Venezuela Asia: Japan Europa: Netherland
46.	<i>Xanthomonas axonopodis</i> pv. <i>dieffenbachiae</i> (McCulloch & Pirone Vauterin) et al. ; (= <i>Phytoplasma dieffenbachiae</i> = <i>Bacterium dieffenbachiae</i> = <i>Xanthomonas dieffenbachiae</i> = <i>X. campestris</i> pv. <i>dieffenbachiae</i> = <i>X. campestris</i> pv. <i>syngonii</i>); Xanthomonadales: Xanthomonadaceae; anthurium blight, bacterial blight of aroids	I	<i>Anthurium andreanum</i> , <i>Philodendron hederaceum</i> , <i>Philodendron hederaceum</i> var. <i>oxycardium</i> , <i>Aglaonema commutatum</i> , <i>Anthurium</i> spp., <i>Caladium bicolor</i> hybrids, <i>Dieffenbachia maculata</i> , <i>Epipremnum pinnatum</i> , Araceae, <i>Philodendron selloum</i> , <i>Syngonium podophyllum</i> , <i>Xanthosoma caracu</i> , <i>X. sagittifolium</i>	bulb, tuber, corm, rhizome, leaf, stem, growing media	Africa: Réunion, South Africa America: Barbados, Bermuda, Brazil, Canada, Costa Rica, Dominica, Guadeloupe, Jamaica, Martinique, Puerto Rico, St. Vincent and the Grenadines, Trinidad and Tobago, USA, Venezuela, Asia: China, Philippines, Taiwan, Turkey Europe: Italy, Netherland, Germany, Poland, Romania, UK Oceania: Australia, France Polynesia, New Caledonia
47.	<i>Xanthomonas axonopodis</i> pv. <i>poinsettiicola</i> (Patel, Bhatt & Kulkarni) Vauterin et al. ; (= <i>Xanthomonas campestris</i> pv. <i>poinsettiicola</i> = <i>X. poinsettiicola</i> = <i>X. poinsettiicola</i> = <i>X. pulcherrimae</i> = <i>X. ricini</i> f.sp. <i>poinsettiicola</i> = <i>X. rinici</i> f.sp. <i>poinsettiicola</i>); Xanthomonadales:	I	<i>Codiaeum variegatum</i> , <i>Manihot esculenta</i> (ubi wood, cassava), <i>Euphorbia heterophylla</i> (wild poinsettia), <i>Euphorbia milii</i> (Crown-of-thorns), <i>Euphorbia pulcherrima</i> (poinsettia),	buds, stem, leaf	America: USA, Venezuela Asia: Cocos Islands, Philippines, India, China, Taiwan Europe: Germany, Italy Oceania: Australia, New Zealand

	Xanthomonadaceae				
48.	<p><i>Xanthomonas axonopodis</i> pv. <i>vasculorum</i> (Cobb) Vauterin et al.; (= <i>Xanthomonas campestris</i> pv. <i>vasculorum</i> = <i>Bacillus vasculorum</i> = <i>Bacterium vasculorum</i> = <i>Phytomonas vasculara</i> = <i>P. vasculorum</i> = <i>Pseudomonas vasculorum</i> = <i>Xanthomonas vasculorum</i>);</p> <p>Xanthomonadales: Xanthomonadaceae; sugarcane gumming disease, Gummosis</p>	I	<p><i>Saccharum officinarum</i> (tebu, sugarcane), <i>Saccharum</i> sp. <i>Zea mays</i> (jagung, corn, maize), <i>Roystonea regia</i>, <i>Dictyosperma album</i>, <i>Areca catechu</i> (pinang, betelnut palm), bambu, <i>Cocos nucifera</i> (kelapa, coconut), <i>Coix lacryma-jobi</i>, <i>Panicum</i> spp., <i>Pennisetum purpureum</i>, <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Sorghum halepense</i> (Johnson grass), <i>Sorghum sudanense</i> (Sudan grass), <i>Thysanolaena latifolia</i> (Asian broom grass), <i>Bambusa vulgaris</i> (common bamboo), <i>Megathyrsus maximus</i> (Guinea grass), <i>Sorghum</i> sp. (sorgum, sorghum)</p>	leaf, seed, planlet, stem, bulb, tuber, corm (tuber/ corm/ rhizome), root, seedling, wood	<p>Africa: Ghana, Madagascar, Malawi, Mauritius, Mozambique, Réunion, South Africa, Swaziland, Zimbabwe</p> <p>America: Antigua and Barbuda, Argentina, Barbados, Belize, Brazil, Colombia, Cuba, Dominica, Dominican, Guyana France, Guadeloupe, Jamaica, Martinique, Mexico, Panama, Puerto Rico, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago</p> <p>Europe: Portugal</p> <p>Oceania: Australia, Fiji, Papua New Guinea</p>
49.	<p><i>Xanthomonas axonopodis</i> pv. <i>vitians</i> (Brown) Vauterin et al. ; (= <i>Bacterium lactuca</i> = <i>B. vitians</i> = <i>Phytomonas lactucae</i> = <i>P. lactucae-scariolae</i> = <i>P. vitians</i> = <i>Pseudomonas</i></p>	I	<p><i>Lactuca sativa</i> (lettuce), <i>Syngonium</i>, <i>Syngonium podophyllum</i> (Arrowhead vine), beberapa species gulma yang termasuk kedalam family Asteraceae,</p>	leaf, stem, seed	<p>Africa: South Africa, Zimbabwe</p> <p>America: Brazil, France West Indies, USA, Hawaii, Venezuela</p> <p>Asia: Japan, Republic of</p>

	<i>lactucae</i> = <i>P.lactucae-scariolae</i> = <i>P.vitians</i> = <i>Xanthomonas campestris</i> pv. <i>vitians</i> = <i>X.lactucae</i> = <i>X.lactucae-scariolae</i> = <i>X.vitians</i>); Xanthomonadales: Xanthomonadaceae; leafspot, lettuce bacterial spot		Chenopodiaceae, Malvaceae, Polygonaceae and Portulacaceae		Korea (South Korea) Europe: Germany, Italy, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan, Uzbekistan, Ukraina, Russia Oceania: Australia
50.	<i>Xanthomonas campestris</i> pv. <i>armoraciae</i> (McCulloch) Dye; (= <i>Bacterium campestre</i> var. <i>armoraciae</i> = <i>Phytomonas campestris</i> var. <i>armoraciae</i> = <i>Pseudomonas campestris</i> var. <i>armoraciae</i> = <i>Xanthomonas armoraciae</i>); Xanthomonadales: Xanthomonadaceae; Xanthomonasspot	I	<i>Armoracia rusticana</i> (horseradish), <i>Brassica oleracea</i> var. <i>botrytis</i> (bunga kol, cauliflower), <i>Brassica oleracea</i> var. <i>gemmifera</i> (Brussels sprouts), <i>Brassica oleracea</i> var. <i>italica</i> (broccoli), <i>Iberis</i> (candytuft)	leaf, stem, seed	Africa: Zimbabwe America: USA, Brazil, Oklahoma Asia: China, India, Japan, Turkey Europe: Ukraine Oceania: Australia
51.	<i>Xanthomonas cassavae</i> (ex Wiehe & Dows.) Vauterin <i>et al.</i> ; (= <i>Xanthomonas campestris</i> pv. <i>cassavae</i> = <i>X.ricini</i> f.sp. <i>cassavae</i>); Xanthomonadales: Xanthomonadaceae; cassavaspot, cassava bacterial necrosis	I	<i>Manihot esculenta</i> (ubi wood, cassava)	leaf, stem	Africa: Burundi, DR Congo, Kenya, Malawi, Rwanda, Tanzania, Uganda America: Colombia
52.	<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i> (Brown) Vauterin <i>et al.</i> ; (= <i>Bacterium geranii</i> = <i>B.pelargonii</i> = <i>Phytomonas geranii</i> = <i>P.pelargonii</i>	I	<i>Geranium sanguineum</i> (bloody cranesbill), <i>Pelargonium</i> (pelargoniums), <i>Pelargonium graveolens</i>	buds, stem, leaf, flower Vector: Hemiptera:	Africa: Egypt, Morocco, South Africa America: Argentina, Brazil, Canada, USA Asia: India, Iran, Japan

	<p>=<i>Pseudomonas geranii</i> =<i>P.pelargonii</i> =<i>Xanthomonas campestris</i> pv. <i>pelargonii</i> =<i>X.geranii</i> =<i>X.pelargonii</i>); Xanthomonadales: Xanthomonadaceae; bacterial spot</p>		(Rose geranium)	Cicadellida, Cercopidae	<p>Europe: Austria, Belgium, Denmark, France, Germany, Greece, Hungary, Italy, Netherlands, Portugal, Romania, Russia, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, Ukraine, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Sweden, Switzerland, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia</p> <p>Oceania: Australia</p>
53.	<p><i>Xanthomonas vasicola</i> pv. <i>holcicola</i> (Elliot); (= <i>Xanthomonas holcicola</i> = <i>Bacterium holcicola</i> = <i>Phytomonas holcicola</i> = <i>Pseudomonas holcicola</i> = <i>Xanthomonas campestris</i> pv. <i>holcicola</i>); Xanthomonadales: Xanthomonadaceae; streaky spot of sorghum and Sudan grass; melanosis of Panicum millet; bacterial streak of millet</p>	I	<p><i>Panicum miliaceum</i> (millet), <i>Setaria italica</i> (foxtail millet), <i>Sorghum bicolor</i> (sorghum), <i>Sorghum halepense</i> (Johnson grass), <i>Sorghum sudanense</i> (Sudan grass) <i>Sorghum almum</i> (Columbusgrass), <i>Zea mays</i> (jagung, maize, corn)</p>	stem, leaf, seed	<p>Africa: Ivory Coast, Gambia, Madagascar, Niger, South Africa, Togo.</p> <p>America: Mexico, USA, Argentina, Venezuela.</p> <p>Asia: Bangladesh, India, Iran, Israel, Kazakhstan, Pakistan, Philippines, Thailand.</p> <p>Europe: France, Romania, Russia, Ukraine.</p> <p>Oceania: Australia, New Zealand, Solomon Islands.</p>

54.	<p><i>Xylella fastidiosa</i> Wells <i>et al.</i>; Xanthomonadales: Xanthomonadaceae; Pierce's disease of grapevines, alfalfa dwarf, almondscorch, citrus variegated chlorosis, dwarf lucerne, scorch, phony disease of peach, plumscald</p>	I	<p><i>Acer saccharum</i>, <i>Liquidambar styraciflua</i>, <i>Medicago sativa</i>, <i>Morus alba</i>, <i>Platanus occidentalis</i>, <i>Pyrus communis</i> (pir, pear), <i>Ulmus</i> (elms), Acer (maples), <i>Carya illinoensis</i> (pecan), <i>Citrus latifolia</i> (tahiti lime), <i>Citrus reticulata</i> (mandarin), <i>Citrus reticulata x paradisi</i> (tangelo), <i>Citrus sinensis</i> (navel orange), <i>Liquidambar styraciflua</i> (Sweet gum), <i>Medicago sativa</i> (lucerne), <i>Nerium oleander</i> (oleander), <i>Prunus angustifolia</i> (Mountain cherry tree), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Ulmus</i> (elms), <i>Vitis labrusca</i> (fox grape), <i>Vitis rupestris</i> (sand-grape), <i>Vitis vinifera</i> (anggur, grapevine), <i>Acer rubrum</i> (red maple), <i>Brachiaria</i> spp. (signalgrass), <i>Coffea</i> spp. (kopi, coffee), <i>Conium maculatum</i> (Poison hemlock), <i>Cynodon</i> spp <i>Cyperus</i> (flatsedge),</p>	<p>bulb, root, fruit, flower, stem, leaf, seed, seedling.</p> <p>Vector: Hemiptera, Cicadellidae : <i>Cicadella viridis</i>, <i>Carneoceph ala fulgida</i>, <i>Draeculaceph hala minerva</i>, <i>Graphoceph ala atropunctat a</i>, Hemiptera, Cercopidae: <i>Philaenus spumarius</i></p>	<p>America: Argentina, Brazil, Canada, Costa Rica, Mexico, Paraguay, USA, Venezuela Asia: China, India, Taiwan, Turki.</p>
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			<p><i>Digitaria</i> spp., <i>Echinochloa frumentacea</i> (Japanese millet), <i>Fragaria vesca</i> (arbei, wild strawberry), <i>Lolium</i> spp (ryegrasses), <i>Lolium multiflorum</i> (Italian ryegrass), <i>Medicago</i> (medic), <i>Paspalum</i> spp., <i>Paspalum dilatatum</i> (dallis grass), <i>Passiflora foetida</i> (red fruit passion flower), Poaceae (grasses), <i>Quercus rubra</i> (northern red oak), <i>Rubus</i> spp. (blackberry, raspberr), <i>Sambucus</i> spp. (Elderberry), <i>Salix</i> spp., <i>Taraxacum officinale</i>, <i>Taraxacum officinale complex</i> (dandelion), <i>Trifolium</i> spp., <i>Trifolium</i> (clovers), <i>Ulmus americana</i> (American elm), <i>Vinca minor</i></p>		
55.	<p><i>Xylophilus ampelinus</i> (Panag.) Willems <i>et al.</i> ; (= <i>Xanthomonas ampelina</i>); Pseudomonadales: Pseudomonadaceae; canker of grapevine, bacterial blight of grapevine, black arm</p>	I	<p><i>Vitis vinifera</i> (anggur, grapevine)</p>	Stem	<p>Africa: South Africa Asia: Turkey Europe: France, Greece, Italy, Moldova, Portugal, Spain, Switzerland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia</p>

FITOPLASMA (*PHYTOPLASMA*)

No	NAMA ILMIAH/ SINONIM/ KLASIFIKASI/ NAMA UMUM/ <i>SCIENTIFIC NAME/ SYNONIM/ TAXON/ COMMON NAME</i>	GOLONGAN / <i>GROUP</i>	INANG/ <i>HOST</i>	MEDIA PEMBAWA/ <i>PATHWAY</i>	DAERAH SEBAR/ <i>GEOGRAPHICAL DISTRIBUTION</i>
1.	<i>Apple chat fruit phytoplasma</i> ; (= Apple chat fruit MLO)	I	<i>Malus domesticum</i> (apel, apple), <i>Malus</i> spp.	buds, stem, plant, root, seedling	Africa: South Africa America: USA Europe: Belgium, Bulgaria, Denmark, Germany, Gibraltar, Hungary, Ireland, Italy, Moldova, Netherlands, Norway, Sweden, Switzerland, UK (England and Wales, Scotland) Ocean: New Zealand
2.	<i>Apple rubbery wood phytoplasma</i> ; Acholeplasmatales, Acholeplasmatacea; apple rubbery wood; quince chlorotic blotch; pear rubbery wood disease	I	<i>Malus domestica</i> (apel, apple) <i>Cydonia oblonga</i> (quince), <i>Malus baccata</i> (siberian crab apple), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Pyrus communis</i> (European pear)	vegetative propagating material, seedling, root, micropropa gated plant, stem	Africa: South Africa America: Canada, Mexico, USA, Brazil Asia: India Europe: Austria, Czech Republic, Denmark, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Italy (Italy [mainland]), Moldova, Netherlands, Norway, Poland, Romania, Sweden, Switzerland, Ukraine, UK, Yugoslavia Oceania: New Zealand, Australia

3.	<p><i>Candidatus Phytoplasma asteri</i>; (=Aster yellows phytoplasma group); Acholeplasmatales; Acholeplasmatacea; tomato big bud; western aster yellows; periwinkle little leaf; eastern aster yellows; purple coneflower yellows; multiplier disease</p>	I	<p><i>Allium cepa</i> (bawang bombay, onion), <i>Alstroemeria</i> (Inca lily), <i>Anemone coronaria</i> (Poppy anemone), <i>Apium graveolens</i> (seledri, celery), <i>Brassica napus var. napus</i> (rape), <i>Brassica oleracea var. capitata</i> (kubis, cabbage), <i>Brassica oleracea var. italica</i> (broccoli), <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), <i>Callistephus chinensis</i> (China aster), <i>Chrysanthemum coronarium</i> (garland chrysanthemum), <i>Chrysanthemum frutescens</i> (marguerite), <i>Daucus carota</i> (wortel, carrot), <i>Fragaria ananassa</i> (strawberry), <i>Gladiolus hybrids</i> (sword lily), <i>Hydrangea macrophylla</i> (French hydrangea), <i>Lactuca sativa</i> (lettuce), <i>Paulownia tomentosa</i> (paulownia), <i>Primula</i> sp. (primrose), <i>Ranunculus asiaticus</i> (garden crowfoot), <i>Spinacia oleracea</i></p>	fruit, flower, leaf, root, stem,	<p>Africa: South Africa America: Canada, Mexico, USA, Brazil, Peru Asia: China (Taiwan), India, Israel, Japan, Lebanon, Malaysia, Thailand Europe: Europe (as a whole), Belgium, Czech Republic, France, Germany, Greece, Italy, Portugal, Russia, Spain, UK, Poland, Finland Oceania: Australia</p>
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			<p>(spinach), <i>Tagetes patula</i> (French marigold), <i>Trifolium repens</i> (white clover), <i>Zea mays</i> (jagung, maize, corn)</p> <p><i>Catharanthus roseus</i> (Pink periwinkle), <i>Celtis australis</i> (European nettle wood), <i>Cornus racemosa</i> (gray dogwood), <i>Cryptotaenia canadensis</i> (honewort), <i>Cucurbita pepo</i> (ornamental gourd), <i>Cyclamen persicum</i> (cyclamens), <i>Delphinium hybrids</i> (florist's larkspur), <i>Echinacea purpurea</i> (purple coneflower), <i>Eupatorium capillifolium</i> (Dog fennel), <i>Euphorbia pulcherrima</i> (poinsettia), <i>Lotus corniculatus</i> (bird's-foot trefoil), <i>Solanum lycopersicon</i> (tomat, tomato), <i>Morus bombycis</i> (Japanese mulberry), <i>Myrtus communis</i> (myrtle), <i>Olea europaea</i> subsp. <i>europaea</i> (olive), <i>Opuntia</i> sp. (pricklypear), <i>Petroselinum crispum</i> (parsley), <i>Populus</i></p>	
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			<p>(poplars), <i>Populus nigra</i> (black poplar), <i>Prunus armeniaca</i> (apricot), <i>Prunus persica</i> var. <i>nucipersica</i> (nectarine), <i>Prunus salicina</i> (Japanese plum), <i>Santalum album</i> (Indian sandalwood), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (kentang, potato), <i>Solidago</i> (Goldenrod), <i>Spiraea tomentosa</i> (Hardhack), <i>Trifolium pratense</i> (purple clover), <i>Vaccinium</i> (blueberries), <i>Vitis vinifera</i> (anggur, grapevine), <i>Ambrosia artemisiifolia</i> (common ragweed), <i>Calendula officinalis</i> (Pot marigold), <i>Conyza canadensis</i> (Canadian fleabane), <i>Lepidium draba</i> (hoary cress), <i>Malva</i> (mallow), <i>Papaver rhoeas</i> (common poppy), <i>Portulaca oleracea</i> (purslane), <i>Raphanus raphanistrum</i> (wild radish), <i>Stellaria media</i> (common chickweed)</p>	
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4.	<i>Candidatus Phytoplasma mali</i> ; <i>Acholeplasmatales</i> : <i>Acholeplasmataceae</i> ; <i>Apple proliferation</i>	I	<i>Malus domestica</i> (apel, apple), <i>Prunus salicina</i> (Japanese plum), <i>Vitis vinifera</i> (anggur, grapevine), <i>Catharanthus roseus</i> , <i>Corylus avellana</i> , <i>Pyrus communis</i> (pir, pear), <i>Convolvulus arvensis</i> (bindweed), <i>Cynodon dactylon</i> (Bermuda grass), <i>Dahlia</i> sp., <i>Lilium</i> sp., <i>Prunus armeniaca</i> , <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum)	buds, stolon, vegetative propagating material Vector: Hemiptera, Cercopidae: <i>Philaenus spumarius</i> ; Hemiptera, Aphrophoridae: <i>Aphrophoraalni</i> , <i>Lepyronia coleoptrata</i> ; Hemiptera, Psyllidae: <i>Cacopsylla costalis</i> , <i>C. Mali</i> , <i>C. picta</i>	Africa: South Africa Asia: Turkey, India Europe: Austria, Bulgaria, Croatia, Cyprus, Czech, Denmark, France, Germany, Greece, Hungary, Italy, Moldova, Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Switzerland, Ukraine, Serbia, Bosnia and Herzegovina, Montenegro, Macedonia., Albania, Balkans, Belgium, Bulgaria, Russia, UK, Finland
5.	<i>Candidatus Phytoplasma Palmae</i> ; (=Coconut lethal yellowing phytoplasma; coconut lethal yellowing mycoplasma-like organism); <i>Acholeplasmatales</i> : <i>Acholeplasmataceae</i> ; <i>Lethal yellowing of palm</i> ; <i>Cape St Paul</i>	I	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), and other <i>Palmae</i> (<i>Arenga engleri</i> , <i>Borassus flabellifer</i> , <i>Caryota mitis</i> , <i>Howea forsteriana</i> , <i>Hyophorbe verschaffeltii</i> , <i>Phoenix</i>	seed, seedling Vector: Hemiptera, Cixiidae: <i>Myndus crudus</i> ;	Africa: Benin, Cameroon, Ghana, Kenya, Mozambique, Nigeria, Tanzania, Togo America: Belize, Cayman Islands, Cuba, Dominica, Haiti, Honduras, Jamaica, Mexico, USA, Bahamas, Guatemala, Saint Kitts and

	disease;Cape Three Point disease; Keincope; Kribi		canariensis, <i>P. dactylifera</i> , <i>P. reclinata</i> , <i>P. sylvestris</i> , <i>Chrysalidocarpus cabadae</i> , <i>Corypha utan</i> , <i>Dictyosperma album</i> , <i>Latania spp.</i> , <i>Livistona chinensis</i> , <i>L. rotundifolia</i> , <i>Trachycarpus fortunei</i> , <i>Veitchia macandielsii</i> , <i>Veitchia merrillii</i> , <i>Panandus utilis</i>	Cicadellida, Fulgoridae	Nevis, Guyana Asia: India Eropa: Netherland Oceania: Papua New Guinea, Australia
6.	Grapevine flavescence doree phytoplasma; Acholeplasmatales: Acholeplasmataceae;	I	<i>Vitis vinifera</i> (anggur, grapevine) <i>Chrysanthemum</i> spp., <i>Xleia faba</i> , <i>Vince rosea</i> .	buds, stolon, vegetative propagating material Vector: Hemiptera, Cicadellidae : <i>Scaphoideus titanus</i>	America: USA, Uruguay Europe: Croatia, France, Corsica, Germany, Italy, Slovenia, Spain, Serbia, Switzerland and Montenegro, Belgium, Netherland, Portugal
7.	Potato witches broom phytoplasma; Acholeplasmatales: Acholeplasmataceae; yellow-type disease; witches' broom phytoplasma	I	<i>Dicentra spectabilis</i> (bleeding heart), <i>Medicago sativa</i> (lucerne), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium hybridum</i> (Alsike clover), <i>Trifolium pratense</i> (purple clover), <i>Trifolium repens</i> (white	root, stem, leaf, flower, fruit	America: Canada dan USA Asia: Taiwan, India dan Japan, Iran, China Europe: Poland, Ukraine, Former USSR Oceania: Tonga

			clover) S: <i>Catharanthus roseus</i> (Pink periwinkle), <i>Salix</i> (willows)		
8.	Strawberry lethal decline phytoplasma(SLD); Acholeplasmatales: Acholeplasmataceae;northwest disease	I	<i>Fragaria</i> sp.(strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Fragaria</i> <i>chiloensis</i> (Chilean strawberry), <i>Fragaria vesca</i> (arbei, wild strawberry)	leaf, stem, root, seedling plant, flower.	America: Canada, USA
9.	<i>Sugarcane Grassy Stunt</i> <i>Disease</i> (SCGSD);Acholeplasmatales: Acholeplasmataceae;grassy shoot disease;sugarcane grassy;stunt phytoplasma;grassy shoot;gassy stunt phytoplasma; <i>Sugarcane</i> grassy shoot; white phytoplasmas	I	<i>Saccharumofficinarum</i> (tebu, sugarcane), <i>Saccharumspontaneum</i> (wild sugarcane) <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Pennisetum</i> <i>purpureum</i> , <i>Brachiaria</i> <i>mutica</i> , <i>Cynodon dactylon</i> , <i>Imperata arundinacea</i>	stek, buds, stem Vector: Hemiptera, Aphididae: <i>Melanaphis</i> <i>sacchari</i> f.sp <i>indosacchar</i> <i>i</i>	Africa: Sudan Asia: Bangladesh, Taiwan, India, Iran, Japan, Malaysia, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand
10.	<i>Sugarcane Ramu Stunt Disease</i> <i>Phytoplasma</i> ;Acholeplasmatale s: Acholeplasmataceae; ramu stunt	I	<i>Saccharumofficinarum</i> (tebu, sugarcane) Poaceae (grasses), <i>Saccharumrobustum</i> , <i>Saccharumspontaneum</i> (wild sugarcane), <i>Saccharumsp.</i>	stek, buds, stem, seedling Vector: Hemiptera, Delphacidae : <i>Eumetopina</i> <i>flavipes</i>	Oceania: Papua New Guinea:

11.	<i>Sugarcane White Phytoplasma (SCWLD); Acholeplasmatales: Acholeplasmataceae; whitedisease; India albino</i>	I	<i>Saccharum officinarum</i> (tebu, sugarcane). <i>Saccharum spontaneum</i> , <i>Cynodon dactylon</i> , <i>Brachiaria subquadrifida</i> , <i>Dactyloctenium aegyptium</i> , <i>Chloris barbata</i> , <i>Sporobolus fertilis</i> , <i>Saccharum medulla</i> , <i>Saccharum robustum</i>	stek, buds, root, stem, leaf, flower Vector: Hemiptera, Cicadellidae : <i>Matsumuratettix hiroglyphicus</i> , <i>Yamatotettix flavovittatus</i>	Africa: Sudan Asia: Bangladesh, Taiwan, India, Iran, Japan, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand, China
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VIII. VIRUS (VIRUSES)

No	NAMA ILMIAH/ SINONIM/ SCIENTIFIC NAME/ SYNONIM	GOLONGAN / GROUP	INANG/ HOST	MEDIA PEMBAWA/ PATHWAY	DAERAH SEBAR/ GEOGRAPHICAL DISTRIBUTION
1.	<i>African cassava mosaic begomovirus (ACMV); (= African cassava mosaic virus, Cassava latent virus, Cassava latent geminivirus, Cassava mosaic virus, Cassava African mosaic begomovirus, Indian cassava mosaic disease)</i>	I	<i>Manihot esculenta</i> (ubi wood, cassava), <i>Ricinus</i> spp. <i>Hewittia sublobata</i> , <i>Laportea (=Fluerya) aestuans</i> , <i>Manihot glaziovii</i> , <i>Jatropha</i> sp.	plant, stem, bulb, tuber, corm root, buds, stolon	Africa: Angola, Benin, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Congo, Congo Democratic republic of the, Cote d'Ivoire, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi,

					Mauritania, Mauritius, Mozambique, Nigeria, Rwanda, Sao Tome & Principe, Senegal, Seychelles, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe Asia: India, Sri Lanka
2.	<i>Agropyron mosaic rymovirus</i> (AgMV);(= <i>Agropyron mosaic virus</i> , <i>Agropyron green mosaic virus</i> , <i>Agropyron yellow mosaic virus</i> , <i>Agropyron streak mosaic virus</i> , <i>Couch grass streak mosaic virus</i> , <i>Wheat virus 2</i> , <i>Marmor agropyri</i> , <i>Agropyron mosaic PV75 severe isolate</i> , <i>Agropyron mosaic PV101 isolate</i> , <i>Agropyron mosaic mild isolate</i>)	I	<i>Bromus secalinus</i> , <i>Elymus repens</i> (quackgrass), <i>Elytrigia intermedia</i> , <i>Elytrigia repens</i> , <i>Hordeum vulgare</i> , <i>Lolium multiflorum</i> , <i>Lophopyrum elongatum</i> , <i>Poa pratensis</i> , <i>Secale cereal</i> , <i>Setaria viridis</i> , <i>Triticum aestivum</i> (wheat), <i>Triticum turgidum</i> (durum wheat), <i>Triticum durum</i>	plant, leaf Vector: Prostigmata, Eriophyidae: <i>Abacarus hystrix</i>	America: Canada, USA Europe: Finland
3.	<i>Alfalfa mosaic alfamovirus</i> (AMV);(= <i>Alfalfa virus 1 & 2</i> , <i>Lucerne mosaic virus</i> , <i>Marmor medicaginis</i> , <i>Potato calico virus</i>)	I	<i>Medicago sativa</i> , <i>Solanum lycopersicum</i> (tomat, tomato), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Solanum tuberosum</i> (kentang, potato), Cucurbitaceae, <i>Apium graveolens</i> var. <i>rapaceum</i> , <i>Apium graveolens</i> (seladeri, celery), <i>Cicer arietinum</i> , <i>Capsicum annuum</i> (cabai, hot pepper, chili, red	root, stem, leaf, flower, fruit, seed Vector: Hemiptera, Aphididae: <i>Acyrtosiphon pisum</i> , <i>Myzus persicae</i>	Africa: Algeria, Egypt, Ethiopia, Kenya, Libya, Morocco, South Africa, Sudan, Tanzania, Tunisia, Zambia America: Argentina, Brazil, Panama, Canada, Chile, Colombia, Mexico, Peru, USA, Venezuela Asia: Bangladesh, China, India, Iran, Iraq, Israel, Japan, Jordan, South Korea,

			pepper), <i>Glycine max</i> (kedelai, soybean), <i>Lactuca sativa</i> , <i>Vigna unguiculata</i> (kacang tunggak, cowpea), <i>Vigna radiata</i> , <i>Trifolium incarnatum</i> , <i>Trifolium pratense</i> , <i>Trifolium repens</i> , <i>Viburnum opulus</i> <i>Pisum sativum</i> , <i>Cajanus cajan</i> (kacang gude), <i>Cercis siliquastrum</i> , <i>Coriandrum sativum</i> (tumbar, coriander), <i>Cyphomandra betacea</i> , <i>Eutrema wasabi</i> , <i>Euonymus japonicus</i> , <i>Hibiscus cannabinus</i> , <i>Lavandula latifolia</i> , <i>Pelargonium</i> , <i>Vigna angularis</i> , <i>Solanum melongena</i> , <i>Trifolium subterraneum</i> , <i>Vicia faba</i> , <i>Vinca minor</i> , <i>Vitis vinifera</i>		Kyrgyzstan, Lebanon, Myanmar, Nepal, Pakistan, Saudi Arabia, Syria, Tajikistan, Turkey, Uzbekistan, Yemen Europe: Austria, Belarus, Belgium, Bulgaria, Cyprus, Czech, Slovakia, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Netherlands, Poland, Portugal, Romania, Russia, Slovenia, Spain, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, New Zealand
4.	<i>Andean potato latent tymovirus</i> (APLV);(= <i>Eggplant mosaic tymovirus</i> , <i>Andean potato latent str.</i> , <i>Eggplant mosaic virus</i> (<i>Andean potato latent str.</i>), <i>Potato</i> (<i>Andean</i>) <i>latent virus</i> , <i>Potato Andean latent tymovirus</i> , <i>Potato Andean latent virus</i>)	I	<i>Solanum tuberosum</i> (kentang, potato), <i>Ullucus tuberosus</i> (ulluco)	bulb, tuber, corm, plant Vector: Coleoptera: Chrysomelid ae: <i>Epitrix</i> sp.	America: Argentina, Bolivia, Chile, Colombia, Ecuador, Peru
5.	<i>Andean potato mottle</i>	I	<i>Capsicum annuum</i> (cabai,	bulb, tuber,	America: Bolivia, Brazil,

	<i>comovirus</i> (APMoV);(= <i>Potato Andean mottle comovirus</i> , <i>Potato Andean mottle virus</i>)		hot pepper, chili, red pepper), <i>Solanum tuberosum</i> (kentang, potato) <i>Gomphrena globosa</i> , <i>Solanum lycopersicum</i> (tomat, tomato), <i>Physalis peruviana</i> , <i>Amaranthus hybridus</i> (bayam, spinach), <i>Nicotiana tabacum</i> (tembakau, tobacco)	corm, plant	Chile, Colombia, Ecuador, Honduras, Nicaragua, Peru
6.	<i>Apple chlorotic leaf spot trichovirus</i> (ACLSV); (= <i>Apple chlorotic leaf spot virus</i> ; <i>Bark split virus</i> ; <i>Plum bark split virus</i> ; <i>Peach green mottle virus</i> ; <i>Pear ring pattern mosaic virus</i> ; <i>Quince stunt virus</i> ; <i>Apple latent virus type 1</i> ; <i>Apple latent 1 virus</i> ; <i>Plum pseudopox virus</i> ; <i>Pear ring mosaic virus</i>)	I	<i>Cydonia oblonga</i> (quince), <i>Malus</i> (ornamental species apple), <i>Malus domestica</i> (apple), <i>Malus platycarpa</i> , <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasifera</i> (myrobalan plum), <i>Prunus cerasus</i> (sour cherry), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Prunus spinosa</i> (blackthorn), <i>Prunus tomentosa</i> (Nanking cherry tree), <i>Pyrus communis</i> (European pear), <i>Pyrus pyrifolia</i> (Oriental pear tree) <i>Amelanchier canadensis</i> (thicket serviceberry), <i>Chaenomeles</i> (flowering	shoots, stem, plant.	Africa: South Africa, Tunisia America: Canada, USA, Argentina, Brazil, Uruguay Asia: China, Taiwan, India, Iran, Israel, Japan, Jordan, Kazakhstan, Korea Republic of (South Korea), Lebanon, Syria, Turkey Europe: Albania, Austria, Belarus, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Malta, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Central Russia, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, UK Oceania: Australia, New

			quinces), <i>Crataegus monogyna</i> (hawthorn), <i>Crataegus rhipidophylla</i> (Midland hawthorn), <i>Mespilus germanica</i> (medlar), <i>Sorbus aucuparia</i> (mountain ash)		Zealand
7.	<i>Apple fruit crinkle viroid</i> (AFCVd);(= <i>Apple green crinkle disease</i> , <i>Apple green crinkle</i> , <i>Apple fruit crinkle apscaviroid</i>)	I	(P) <i>Malus domesticum</i> (apel, apple)	Plant	America: USA
8.	<i>Apple mosaic ilarvirus</i> (ApMV);(= <i>Apple mosaic ilarvirus</i> , <i>European plumline pattern virus</i> , <i>Mountain ash variegation virus</i> , <i>Birch line pattern virus</i> , <i>Birch ringspot virus</i> , <i>Dutch plum line pattern virus</i> , <i>Hop A virus</i> , <i>Horse chestnut yellow mosaic virus</i> , <i>Rose mosaic virus</i> , <i>Hop virus A</i> , <i>Hop virus C</i> , <i>Mild apple mosaic virus</i> , <i>Severe apple mosaic virus</i>)	I	<i>Betula</i> , <i>Corylus avellana</i> , <i>Fragaria</i> , <i>Humulus lupulus</i> , <i>Malus domesticum</i> (apel, apple), <i>Prunus</i> , <i>Prunus americana</i> (aprikot, apricot), <i>Prunus avium</i> , <i>Prunus dulcis</i> (almon, almond), <i>Ribes rubrum</i> , <i>Rubus</i> spp. (raspberry, blackberry, black raspberry) <i>Prunus domesticum</i> (plam, plum), <i>Prunus persica</i> (persik, peach), Mawar (<i>Rosa</i> sp), Cucumber, <i>Vigna sinensis</i> ,	fruit, flower, root, stem	Africa: Algeria, Kenya, Maroco, South Africa, Tunisia, Zimbabwe America: Argentina, Brazil, Canada, Chile, Mexico, USA, Uruguay Asia: Azerbaijan, China, Bangladesh, India, Japan, Jordan, Lebanon, Syria, Turkey Europe: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Czech, Slovakia, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Montenegro,

					Macedonia Oceania: Australia, New Zealand
9.	<i>Apple stem grooving capillovirus (ASGV); (= Apple topworking disease, Citrange stunt virus, Citrus tatter leaf virus, Crab apple decline, Apple latent virus type 2, Brown line virus disease, Cheno-podium dark green epinasty virus, Apple dark green epinasty virus, Apple E36 virus, Crab stem grooving virus, Apple brown line virus)</i>	I	<i>Citrus, Lilium, Malus pumila, Malus sylvestris, Malus toringo, Prunus mume, Prunus armeniaca, Pyrus communis, Pyrus pyrifolia, Aronia melanocarpa, Cotoneaster bullatus, Cydonia oblonga, Prunus avium, Pyronia veitchii, Sorbus aucuparia, Malus sp, Malus micromalus</i>	Plant	Africa: South Africa, Swaziland America: Brazil, Canada, Antilles Netherlands, USA, Asia: China, Taiwan, India, Israel, Japan, North Korea, South Korea, Nepal, Pakistan, Turkey, Vietnam Europe: Austria, Belgium, Croatia, Czech, Slovakia, Denmark, Georgia, Serbia, Slovenia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Netherlands, Norway, Poland, Portugal, Romania, Russia Oceania: Australia, New Zealand
10.	<i>Apple stem pitting foveavirus (ASPV); (= Apple Spy 227 epinasty & decline, Pear stony pit, Quince sooty ringspot, Pear vein yellows, Pear red mottle)</i>	I	<i>Malus pumila, Pyrus communis Crataegus monogyna, Cydonia oblonga, Malus sylvestris, Malus toringo, Pyronia veitchii, Sorbus discolor.</i>	plant	Africa: South Africa America: Brazil, Canada, USA Asia: China, Japan, South Korea Europe: Austria, Belgium, Bulgaria, Czech, Slovakia, Denmark, Serbia, Slovenia, Croatia, Bosnia and

					Herzegovina, Montenegro, Macedonia, France, Germany, Italy, Netherlands, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Ukraine, UK, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan, Uzbekistan, Ukraina, Russia Oceania: Australia, New Zealand
11.	<i>Apricot ring-pox like disease</i>	I	<i>Prunus armeniaca</i> (Apricot), <i>Prunus avium</i> (Sweet Cherry), <i>Prunus salicina</i> (Javanese plum), <i>Prunus virginiana</i> (Common Chokecherry tree)	fruit, leaf, root, stem	America: Canada dan USA
12.	<i>Arabis mosaic nepovirus</i> (ArMV);(= <i>Arabis mosaic virus</i> , <i>Ash ring and line pattern virus</i> , <i>Hop nettlehead virus</i> , <i>Raspberry yellow dwarf virus</i> , <i>Rhubarb mosaic virus</i> , <i>Forsythia yellow net virus</i> , <i>Jasmine yellow blotch virus</i> , <i>Rhabarber-Mosaik-Virus</i> , <i>rhubarb mosaic virus</i>)	I	<i>Anagallis arvensis</i> , <i>Apium graveolens</i> var. <i>dulce</i> , <i>Armoracia rusticana</i> , <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Astilbe</i> sp., <i>Bellis perennis</i> , <i>Beta vulgaris</i> (bit), <i>Buxus sempervirens</i> , <i>Capsella bursa-pastoris</i> , <i>Carum segetum</i> , <i>Chamaecyparis lawsoniana</i> , <i>Cucumis sativus</i> , <i>Cucurbita pepo</i> , <i>Cyphomandra betacea</i> ,	plant, seed Vector: <i>Dorylaimida</i> , <i>Longidoridae</i> : <i>Xiphinema diversicaudatum</i> , <i>X. madiereuse</i> , <i>X. coxi</i>	Africa: South Africa America: Canada, Asia: Japan, Kazakstan, Turkey Europe: Austria, Belgium, Bulgaria, Croatia, Czech, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Sweden,

		<p><i>Daphne mezereum, Daucus carota, Dianthus caryophyllus, Forsythia intermedia, Fragaria vesca, Fraxinus excelsior, Humulus lupulus, Jasminum officinale, Lactuca sativa, Lamium amplexicaule, Ligustrum vulgare, Melilotus officinalis, Mentha arvensis, Narsisus sp., Phaseolus coccineus, Plantago lanceolata, Polygonum aviculare, P. persicaria, Prunus avium, P. domestica, P. persica, Ranunculus repens, Rheum rhaponticum, Rheum hybridum, Ribessp., Rosa spp., Rubus idaeus, R. procerus, Sambucus nigra, Senecio vulgaris, Solanum nigrum, Stellaria media, Syringa vulgaris, Taraxacum officinale, Trifolium repens, Tulipa spp., Urtica dioica, U. urens, Vitis vinifera, Trifolium repens, Vitis vinifera.</i> <i>Alstroemeria, Fragaria,</i></p>	<p>Switzerland, Ukraine, UK, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia, Caroline Islands, New Zealand</p>
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			<i>Fraxinus, Hordeum vulgare, Narsisus, Ribes nigrum, Rubus</i>		
13.	<i>Arracacha virus B (AVB); (= Arracacha B 'nepovirus', Arracacha B nepovirus (oca strain) Arracacha virus B (oca strain)</i>	I	<i>Arracacia xanthorrhiza, Oxalis tuberosa (oca), Solanum tuberosum (kentang, potato) Brassica campestris ssp.rapa, Vigna unguiculata (kacang tunggak, cowpea), Capsicum annuum, Hyoscyamus niger</i>	bulb, tuber, corm, leaf, stolon, seed	America: Bolivia, Peru.
14.	<i>Artichoke Italian latent nepovirus (AILV); (=Artichoke Italian latent virus)</i>	I	<i>Cynara scolymus Cichorium intybus, Gladiolus hybrids, Pelargonium zonale hybrids, Vitis vinifera (anggur, grapevine)</i>	leaf, stolon, stem Vector: <i>Dorylaimida, Longidoridae: Longidorus apulus</i>	Europe: Bulgaria, Greece, Italy
15.	<i>Asparagus 2 ilarvirus (AV-2); (=Asparagus virus 2, Asparagus ilarvirus 2, Asparagus virus C, Asparagus latent virus)</i>	I	(P) <i>Asparagus officinalis (asparagus, asparagus)</i>	pollen, seed, stolon Vector: <i>Dorylaimida, Longidoridae: Longidorus apulus</i>	America: Canada, Mexico, USA Europe: Denmark, Germany, Italy, UK, Japan
16.	<i>Avocado sunblotch avsunviroid (ASBVd); (= Avocado sunblotch viroid, Sunblotch viroid)</i>	I	<i>Persea americana (alpokat, avocado) Cinnamomum camphora,</i>	bark, fruit, flower, leaf, stolon, stem,	Africa: South Africa America: Peru, USA, Venezuela,

	(avocado)		<i>Cinnamomum zeylanicum</i> , <i>Ocelea bullata</i> ,	seed	Europe: Spain, Israel Oceania: Australia
17.	<i>Banana bract mosaic potyvirus</i> (BBrMV);(= <i>Banana bract mosaic virus</i>)	I	<i>Musa paradisiaca</i>	plant, seedling	America: Ecuador Asia: India, Philippines, Sri Lanka, Thailand, Vietnam Oceania: Samoa
18.	<i>Barley stripe mosaic hordeivirus</i> (BSMV);(= Barley stripe mosaic virus, <i>Barley false stripe virus</i> , <i>Barley mosaic virus</i> , <i>Oat stripe mosaic virus</i> , <i>Barley mild stripe virus</i> , <i>Barley yellow stripe</i> (possibly))	I	<i>Hordeum vulgare</i> (barli, barley), <i>Triticum aestivum</i> (gandum, wheat) Poaceae, <i>Secale cereale</i> (rye), <i>Zea mays</i> (jagung, corn), <i>Oryza sativa</i> (padi, paddy), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Panicum</i> spp. (millet)	polen, seed, plant	Africa: Egypt, South Africa, Tunisia America: Argentina, Brazil, Canada, Mexico, Peru, USA Asia: China, Israel, Japan, Jordan, South Korea, Lebanon, Pakistan, Syria, Turkey Europe: Bulgaria, Czech, Denmark, Greece, Hungary, Moldova, Poland, Portugal, Romania, Russia, Slovakia, Switzerland, Ukraine, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Oceania: Australia, New Zealand
19.	<i>Barley yellow dwarf luteovirus</i> (BYDV);(= <i>Barley yellow dwarf virus</i> ; <i>Maize leaf fleck virus</i> ; <i>Wheat cereal yellow dwarf virus</i> ; <i>Rice giallume virus</i> ; <i>Hordeum virus nanescens</i> ; <i>Red leaf</i>	I	<i>Avena sativa</i> (oats), <i>Hordeum vulgare</i> (barley), <i>Lolium multiflorum</i> (Italian ryegrass), <i>Lolium perenne</i> (perennial ryegrass), <i>Oryza sativa</i> (rice), Poaceae (grasses), <i>Secale cereale</i>	plant, root, stem, leaf, flower Vector: Hemiptera, Aphididae: Au	Africa: Algeria, Egypt, Ethiopia, Kenya, Libya, Morocco, Mozambique, South Africa Africa: Tanzania, Tunisia, Zimbabwe.. America: Canada, Mexico, USA, Argentina, Bolivia,

	disease of barley)		<p>(rye), <i>Triticum aestivum</i> (wheat), <i>Triticum turgidum</i> (durum wheat), <i>Zea mays</i> (corn) <i>Agrostis stolonifera</i> (creeping bentgrass), <i>Arrhenatherum elatius</i> (false oatgrass), <i>Bromus</i> (brome grasses), <i>Bromus catharticus</i> (prairiegrass), <i>Elymus repens</i> (quackgrass), <i>Eragrostis curvula</i> (weeping lovegrass), <i>Festuca</i> (fescues), <i>Leersia oryzoides</i> (Rice cutgrass), <i>Miscanthus sinensis</i> (Eulalia), <i>Pennisetum clandestinum</i> (kikuyu grass), <i>Phleum pratense</i> (timothy), <i>Phragmites</i> (reed), <i>Saccharum officinarum</i> (sugarcane), <i>Setaria italica</i> (foxtail millet), <i>Sorghum bicolor</i> (sorghum), <i>Trifolium repens</i> (white clover)</p>	<p><i>Locorthis circumflexa</i> (= <i>Amphorophora circumflexa</i>, <i>Macrosiphum circumflexa</i>, <i>Myzus circumflexus</i>, <i>Aulacorthum circumflexum</i>, <i>Siphonophora circumflexa</i>); <i>Ceruraphis eriophori</i>; <i>Metopolophium dirhodum</i> (= <i>Acyrtosiphon dirhodum</i>); <i>Myzus persicae</i>; <i>Rhopalosiphum insertum</i> (= <i>Rhopalosiphum annuae</i>, <i>Rhopalosiphum fitchii</i>); <i>Rhopalosiphum maidis</i></p>	<p>Brazil, Colombia, Chile, Venezuela, Dominican Republic, Ecuador, Paraguay, Peru, Uruguay, French Guiana Asia: China, India, Iran, Israel, Japan, Jordan, Lebanon, Pakistan, Syria, Thailand, Turkey. Europe: Belgium, Czech, Slovakia, Denmark, Finland, Former, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Russia, Spain, Sweden, Switzerland, Ukraine, UK. Oceania: Australia, New Zealand.</p>
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				(= <i>Aphis maydis</i>); <i>Rhopalosiphum padi</i> (= <i>Anuraphis padi</i> , <i>Rhopalosiphum prunifoliae</i>); <i>Rhopalosiphum rufiabdominalis</i> ; <i>Schizaphis graminum</i> (= <i>Toxoptera graminum</i>); <i>Sipha agropyrella</i> ; <i>Macrosiphum avenae</i> (= <i>Macrosiphum granarium</i> , <i>Sitobion avenae</i>); <i>Macrosiphum fragariae</i> (= <i>Sitobion fragariae</i>);	
20.	<i>Bean golden mosaic begomovirus</i> (BGMV)(= <i>Bean golden mosaic geminivirus</i> , <i>Bean golden mosaic virus</i> (type	I	<i>Vigna unguiculata</i> (kacang tunggak, cowpea), <i>Phaseolus</i> sp., <i>Phaseolus lathyroides</i> , <i>Phaseolus</i>	plant Vector: Hemiptera:	Africa: Nigeria America: Argentina, Colombia, Costa Rica, Cuba, Dominica, Guatemala,

	1) <i>Brazil, Bean golden yellow mosaic virus (type 2), Caribbean mosaico dorado, Bean calico mosaic begomovirus (possible strain)</i>		<i>acutifolius, Glycine max</i> (kedelai, soybean) <i>Cajanus cajan</i> (kacang gude), <i>Calopogonium mucunoides, Pachyrhizus erosus, Vigna angularis, Phaseolus coccineus, Vigna mungo, Nicotiana tabacum</i> (tembakau, tobacco)	Aleyrodidae: <i>Bemisia argentifolii, B. tabaci</i>	Jamaica, Mexico, Nicaragua, Puerto Rico, USA, Venezuela
21.	<i>Bean pod mottle comovirus (BPMV); (= Bean Pod mottle virus, Desmodium virus)</i>	I	<i>Glycine max</i> (kedelai, soybean), Fabaceae lain	seed, plant Vector: Coleoptera, Chrysomelid ae: <i>Cerotoma trifurcate, Diabrotica balteata, D. undecimpunctata, Colaspis flavida, C. lata</i> , Coleoptera, Coccinelidae: <i>Epilachna varivestis, E. vittata</i>	America: Brazil, Canada, Ecuador, Peru, USA
22.	<i>Beet curly top curtovirus (BCTV); (= Beet curly top virus,</i>	I	<i>Beta vulgaris</i> (bit gula, sugar beet), <i>Capsicum</i>	leaf	Africa: Ivory Coast, Egypt America: Argentina, Bolivia,

	<i>Beet curly top geminivirus, Beet curly top hybrigeminivirus, Sugarbeet curly top virus, Tomato yellow virus, Sugar beet curly-leaf virus, Sugarbeet virus 1, Tomato yellows virus, Western yellow blight virus, Potato green dwarf virus)</i>		<i>annuum</i> (cabai, hot pepper, chilies, red pepper), <i>Vigna unguiculata</i> (kacang tunggak, cowpea), Cucurbitaceae, <i>Beta vulgaris</i> (bit, beetroot), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Phaseolus vulgaris</i> (buncis, common bean). <i>Linum usitatissimum</i> (flax), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Solanum tuberosum</i> (kentang, potato)	Vector: Hemiptera, Cicadellidae: <i>Neoliturus tenellus</i> , <i>N. opacipennis</i>	Canada, Costa Rica, Mexico, USA, Uruguay Asia: India, Iran, Israel, Japan, South Korea, Turkey Europe: Cyprus, Italy
23.	<i>Beet leaf curl rhabdovirus (BLCV); (= Beet leaf curl virus, Beta virus 3, RubenkrSusel-Virus, Rübenkräusel sugar beet leaf crinkle virus, Sugar beet leaf curl rhabdo virus, Sugar beet virus 3, Beet leaf crinkle virus, Sugar beet leaf curl virus)</i>	I	<i>Beta</i> spp. <i>Atriplex</i> , <i>Spinacia</i> , <i>Tetragonia tetragonioides</i>	leaf, root, stem, plant Vector: Hemiptera, Piesmididae: <i>Piesma quadratum</i>	Europe: Germany, Poland, Turkey
24.	<i>Broad bean wilt fabavirus (BBWV); (= Broad bean wilt virus, Nasturtium ringspot virus, Catalpa chlorotic leaf spot virus, Tropaeolum ringspot virus, Nasturtium white spot</i>	I	<i>Apium graveolens</i> (celery), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Brassica napus</i> var. <i>napus</i> (rape), <i>Brassica rapa subsp. chinensis</i> (Chinese	pod, root, stem, leaf, flower, fruit.	Africa: Egypt, Ethiopia, Morocco, South Africa, Sudan, Tanzania, Tunisia, America: USA, Argentina Asia: Bangladesh, China, Taiwan, India, Iran, Iraq,

	<i>virus, Patchouli mild mottle virus, Petunia ringspot virus, Pea streak virus, Patchouli mild mosaic virus)</i>		<i>cabbage), Capsicum annuum (bell pepper), Capsicum frutescens (chilli), Cynara cardunculus L. var. scolymus (globe artichoke), Daucus carota (carrot), Glycine max (soyabean), Lactuca sativa (lettuce), Lycopersicon esculentum (tomato), Nicotiana tabacum (tobacco), Petroselinum crispum (parsley), Petunia hybrida, Phaseolus lunatus (lima bean), Phaseolus vulgaris (common bean), Pisum sativum (pea), Solanum melongena (aubergine), Spinacia oleracea (spinach), Tropaeolum majus (common nasturtium), Vicia faba (broad bean), Vigna angularis (adzuki bean), Vigna radiata (mung bean), Vigna unguiculata (coupea), Vitis vinifera (grapevine) Cicer arietinum (chickpea)</i>		Japan, Jordan, North Korea, South Korea, Philippines, Singapore, Syria, Turkey, Europe: Bulgaria, Czech Republic, Slovenia, Macedonia, Croatia, Serbia, Montenegro, Kosovo, Bosnia, France, Germany, Greece, Hungary, Italy, Poland, Slovakia, Spain, United Kingdom, Oceania: Australia
25.	<i>Brome mosaic bromovirus (BMV);(=Brome mosaic virus, Weidel gras mosaik virus, Ryegrass streak virus, Trespen gras mosaik virus, Marmor</i>	I	<i>Bromus inermis (Awnless brome) Avena sativa (oats), Bromus (brome grasses), Chenopodium quinoa</i>	plant	Africa: South Africa, America: North America Europe: Hungary, Russian Federation, Sweden, Oceania: Australia

	<i>graminis</i>)		<i>(quinoa), Commelina communis (common dayflower), Commelina diffusa (spreading dayflower), Hordeum vulgare (barley), Oryza sativa (rice), Poaceae (grasses), Triticum aestivum (wheat), Vigna unguiculata (cowpea), Zea mays (corn)</i>		
26.	<i>Cacao yellow mosaic tymovirus (CYMV); (=Cacao yellow mosaic virus)</i>	I	<i>Theobroma cacao (kakao, cocoa)</i> <i>Cola nitida, Culcasia scandens</i>	root, stem, leaf, flower, fruit	Africa: Sierra Leone
27.	<i>Carnation necrotic fleck closterovirus (CNFV); (=Carnation necrotic fleck virus, Carnation streak virus, Carnation yellow fleck virus)</i>	I	<i>Dianthus caryophyllus</i> <i>Dianthus barbatus,</i> <i>D.chinensis, Saponaria vaccaria, Silene armeria</i>	flower, root, leaf, stem Vector: <i>Hemiptera,</i> Aphididae: <i>Myzus persicae</i>	America: Colombia, USA, Venezuela Asia: Israel, Japan Europe: Belgium, Czech, Slovakia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Italy, Netherlands, Spain, UK, Oceania: Australia, New Zealand
28.	<i>Cassava brown streak virus (CBSaV); (= Cassava brown streak carlavirus, Cassava brown streak potyvirus, Cassava brown streak-associated (?) carlavirus)</i>	I	<i>Manihot esculenta (ubi wood, cassava)</i>	buds, plant	Africa: Angola, Guinea Ekuator, Kenya, Malawi, Mozambique, Tanzania, Zanzibar, Uganda, Zimbabwe

29.	<i>Cereal yellow dwarf polerovirus-RPV (CYDRV); (= Cereal yellow dwarf virus)</i>	I	<i>Avena sativa</i> (oats), <i>Hordeum vulgare</i> (barley), <i>Secale cereale</i> (rye), <i>Triticum aestivum</i> (wheat), <i>Triticum turgidum</i> (durum wheat)	plant, root, stem, leaf, flower	Africa: Egypt, South Africa, America: Canada, Ecuador, Mexico, USA Asia: China, India, Israel, Japan, Jordan, Pakistan Europe: Belgium, Czech Republic, Czech Republic, Slovakia, Ukraine, Denmark, France, Germany, Hungary, Ireland, Italy, Netherlands, Norway, Russia, Sweden, Switzerland, United Kingdom Oceania: Australia, New Zealand
30.	<i>Cherry leafroll nepovirus (CLRV); (= Cherry leafroll virus, Golden elderberry virus)</i>	I	<i>Betula</i> (birches), <i>Betula pendula</i> (common silver birch), <i>Cornus</i> (Flowering dogwood), <i>Fagus sylvatica</i> (common beech), <i>Fraxinus excelsior</i> (ash), <i>Juglans</i> (walnuts), <i>Juglans regia</i> (walnut), <i>Ligustrum</i> (privet), <i>Prunus avium</i> (sweet cherry), <i>Ptelea trifoliata</i> (Hoptree), <i>Rubus procerus</i> , <i>Sambucus canadensis</i> (American elder), <i>Sambucus racemosa</i> (red-berried elder), <i>Syringa vulgaris</i> (lilac), <i>Ulmus</i> (elms), <i>Ulmus americana</i> (American elm)	seed, leaf, plant.	America: Canada, USA, Chile Asia: China, Turkey Europe: Albania, Belgium, Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Hungary, Italy, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Spain, Switzerland, UK, Scotland Oceania: Australia, New Zealand

			<i>Delphinium hybrids</i> (florist's larkspur), <i>Pelargonium</i> (pelargoniums), <i>Rubus idaeus</i> (raspberry) (Wild hosts): <i>Plantago</i> (Plantain), <i>Rumex</i> (Dock)		
31.	<i>Cherry rasp leaf nepovirus</i> (CRLV);(= <i>Apple flat apple virus</i> , <i>Cherry rasp leaf virus</i> , <i>Flat apple virus</i>)	I	<i>Prunus avium</i> , <i>Prunus cerasus</i> , <i>Prunus persica</i> , <i>Prunus mahaleb</i> , <i>Malus domesticum</i> (apel, apple) <i>Rubus</i> spp. (raspberry)	plant	America: Canada, USA
32.	<i>Citrus impietratura virus</i> ;(= <i>Citrus impietratura disease</i>)	I	<i>Citrus</i> spp.(jeruk, orange)	root, stem, leaf, flower, fruit	Africa: Algeria, Libya, Morocco, South Africa, Tanzania, Zimbabwe America: Venezuela Asia: India, Israel, Lebanon, Turkey Europe: Cyprus, Greece, Italy, Spain
33.	<i>Citrus leaf rugose ilarvirus</i> (CiLRV);(= <i>Citrus leaf rugose ilarvirus</i> , <i>Citrusvariegation virus</i> , <i>Citrus crinkly leaf ilarvirus</i> , <i>Citrusvariegation ilarvirus</i>)	I	<i>Citrus aurantifolia</i> , <i>C. limon</i> , <i>C. paradisi</i> <i>Vigna unguiculata</i> (kacang tunggak, cowpea)	buds, seed	America: USA Europe: Turkey Oceania: Australia
34.	<i>Clover yellow vein potyvirus</i> (CIYVV);(= <i>Clover yellow vein virus</i> , <i>Pea necrosis virus</i> , <i>Bean yellow mosaic virus-S</i> (severe strain), <i>Bean yellow mosaic</i>)	I	<i>Lathyrus odoratus</i> (sweet pea), <i>Phaseolus vulgaris</i> (common bean), <i>Trifolium hybridum</i> (Alsike clover), <i>Trifolium repens</i> (white	Bulbs, tuber, corms, rhizomes, leaf,	America: Canada, USA, Colombia, Asia: Japan, South Korea, Yemen, Europe: Czech, Slovakia,

	<p><i>virus-N (necrotic strain)</i> <i>Statice virus Y)</i></p>	<p><i>clover), Trifolium vesiculosum (Arrowleaf clover)</i> <i>Alysicarpus vaginalis (alyce clover), Borago officinalis (Borage), Coriandrum sativum (coriander), Cucurbita pepo (ornamental gourd), Gentiana (gentians), Gladiolus hybrids (sword lily), Impatiens walleriana (Busy-lizzy), Limonium sinuatum (sea pink), Lupinus (lupins), Lupinus albus (white lupine), Lupinus angustifolius (lupin), Lupinus luteus (yellow lupin), Medicago lupulina (black medick), Medicago sativa (lucerne), Melilotus officinalis (Field melilot), Pisum sativum (pea), Psophocarpus tetragonolobus (winged bean), Trifolium (clovers), Trifolium incarnatum (Crimson clover), Trifolium pratense (purple clover), Trifolium subterraneum (subterranean clover), Vicia faba (broad bean), Viola odorata (English violet),</i></p>	<p>seedling, stem</p>	<p>France, Germany, Hungary, Italy, Netherlands, Poland, Spain, Sweden, United Kingdom Oceania: Australia, New Zealand</p>
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			<i>Daucus carota</i> (carrot), <i>Iris</i> (irises), <i>Lamium amplexicaule</i> (henbit deadnettle), <i>Plantago major</i> (broad-leaved plantain), <i>Veronica persica</i> (creeping speedwell)		
35.	<i>Cocoa swollen shoot badnavirus</i> (CSSV); (=Cocoa swollen shoot virus(CoNV), <i>Cocoa necrosis nepovirus</i> , <i>Cocoa red mottle virus</i> , <i>Cocoa vein clearing virus</i> , <i>Cacao virus I</i> , <i>Theobroma virus I</i>)	I	<i>Theobroma cacao</i> (kakao, cocoa) <i>Ceiba pentandra</i> (kapuk randu, kapok)	root, stem, leaf, flower, fruit Vector:Hemi ptera, Pseudococcid ae: <i>Delococcus tafoensis</i> , <i>Ferrisia virgata</i> , <i>Paraputo anomalus</i> , <i>Phenacoccus hargreavesi</i> , <i>Planococcoides njalensis</i> , <i>Planococcus citri</i> , <i>Pseudococcus concavocerrari</i> , <i>Pseudococcus longis</i>	Africa: Ivory Coast, Ghana, Nigeria, Sierra Leone, Togo, Northwest Africa America: Colombia, Venezuela Asia: Sri Lanka

				Dorylaimida: Longidoridae <i>Longidorus</i> spp.	
36.	<i>Coconut cadang-cadang cocadviroid</i> (CCCVd);(= <i>Coconut cadang-cadang viroid</i> , <i>Palm cadang-cadang viroid</i>)	I	<i>Cocos nucifera</i> (kelapa , coconut), <i>Elaeis guineensis</i> (kelapa sawit, oilpalm), <i>Arenga pinnata</i> , <i>Borassus flabelifer</i> (lontar, palmyra palm), <i>Chloris</i> , <i>Phoenix dactylifera</i> <i>Corypha elata</i> , <i>Livistona rotundifolia</i> , Arecaceae, Panandaceae, Zingiberaceae, Marantaceae (<i>Maranta</i> sp.), Commelinaceae	seed, fruit, plant Vector:Prostigmata, Tenuipalpidae: <i>Brevipalpus phoenicis</i>	Asia: Philippines, Malaysia Oceania: Solomon Islands Island
37.	<i>Coconut tinangaja cocadviroid</i> (CTiVd);(= <i>Coconut tinangaja viroid</i>)	I	<i>Cocos nucifera</i> (kelapa , coconut)	seed, fruit, plant	Oceania: Guam
38.	<i>Coffee blister spot virus</i> ;(= <i>Coffee blister spot agent</i>)	I	<i>Coffea</i> spp. (kopi, coffee)	seed, fruit, plant	America: , Costa Rica
39.	<i>Coffee ringspot rhabdovirus</i> (CoRSV);(= <i>Coffee ringspot virus</i> , <i>Coffee ringspot nucleorhabdovirus</i>)	I	<i>Coffea</i> spp. (kopi, coffee)	seed, plant	America: Brazil, Costa Rica Asia: Philippines
40.	<i>Cotton anthocyanosis virus</i> (CAV);(= <i>Cotton anthocyanosis (?) luteovirus</i> ; <i>Cotton small leaf virus</i>)	I	<i>Gossypium barbadens</i> (kapas, Gallinicotton), <i>Gossypium hirsutum</i> (kapas, Bourbon cotton) <i>Abelmoschus esculentus</i> ,	buds, plant Vector: Hemiptera, Aphididae:	America: Brazil Asia: India, Pakistan

			<i>Hibiscus cannabinus</i> , <i>Sida rhombifolia</i> , <i>S. micrantha</i>	<i>Aphis gossypii</i>	
41.	<i>Cotton leaf curl begomovirus</i> (CLCuV);(= <i>Cotton leaf curl geminivirus</i> , <i>Cotton leaf crumple begomovirus</i>)	I	<i>Gossypium barbadens</i> (kapas, cotton), <i>Abelmoschus esculentus</i> , <i>Hibiscus cannabinus</i> , <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Vigna unguiculata</i> (kacang tunggak, cowpea) <i>Abelmoschus esculentus</i> , <i>Althea rosae</i> , <i>Corchorus fascicularis</i> , <i>Castanospermum australe</i> , <i>Glycine max</i> (kedelai, soybean), <i>Hibiscus cannabius</i> , <i>H. escu lentus</i> , <i>H. sabdarifa</i> , <i>Malvaviscus arboreus</i> , <i>Malva parviflora</i> , <i>Phaseolus acutifolius</i> , <i>Vigna angularis</i> , <i>Sida alba</i>	plant Vector: Hemiptera, Aleyrodidae: <i>Bemisia tabaci</i>	Africa: Benin, Burkina Faso, Cameroon, Central Africa, Chad, Ivory Coast, Egypt, Ghana, Niger, Nigeria, Sudan, Togo America: Mexico, USA, Guatemala Asia: India, Pakistan, Philippines
42.	<i>Cotton leaf mottle disease</i> ;(= <i>Cotton mosaic agent</i>)	I	<i>Gossypium barbadens</i> (kapas, cotton), <i>Gossypium hirsutum</i>	root, stem, leaf, flower, fruit Vector: Hemiptera, Aleyrodidae: <i>Bemisia tabaci</i>	Africa: Benin, Cameroon, Central Africa, Chad, Ivory Coast, Egypt, Ghana, Mali, Nigeria, Sudan, Tanzania, Togo

43.	<i>Coupea chlorotic mottle bromovirus</i> (CCMV);(= <i>Bean yellow stipple virus</i> , <i>Coupea chlorotic mottle virus</i> , <i>Virus del moteado amarillo</i> , <i>Marmor flavopunctum</i>)	I	<i>Vigna unguiculata</i> (kacang tunggak, cowpea), <i>Glycine max</i> (kedelai, soybean) <i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Beta vulgaris</i> (bit), <i>Cajanus cajan</i> (kacang gude), <i>Cassia occidentalis</i> , <i>C.tora</i>	plant Vector: Coleoptera, Chrysomelid ae: <i>Ceratoma ruficornis</i> , <i>C.trifurcata</i> , <i>Diabrotica balteata</i> , <i>D. undecimpunctata</i> ,	Africa: Nigeria America: Costa Rica, Cuba, USA Asia: India
44.	<i>Cucumber green mottle mosaic tobamovirus</i> (CGMMV);(= <i>Bottlegourd indian mosaic virus</i> , <i>Cucumber green mottle mosaic virus</i> , <i>Cucumber green mottle mosaic watermelon strain (W)</i> , <i>Cucumber virus 2</i> , <i>Cucumber virus 3</i> , <i>Cucumber virus 4</i> , <i>Cucumis virus 2</i> , <i>Tobacco mosaic virus watermelon strain-W</i>)	I	<i>Cucumis sativus</i> (mentimun, cucumber), <i>Citrullus vulgaris</i> (semangka, watermelon), <i>Cucumis melo</i> (melon, melon), <i>Lagenaria siceraria</i> , <i>Momordica charantia</i> <i>Prunus Americana</i> (apricot)	seed, root, plant, soil, air, fertilizer, growing media Vector: <i>Coleoptera</i> : <i>Chrysomelid</i> ae: <i>Raphidopalpa fevicollis</i> ; Solanales, Convolvulaceae: <i>Cuscuta</i> spp.	America: Brazil Asia: Taiwan, India, Iran, Israel, Japan, South Korea, Lebanon, Saudi Arabia Europe: Austria, Czech, Slovakia, Denmark, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Germany, Greece, Hungary, Latvia, Netherlands, Romania, Russia, Spain, Sweden, Ukraine, UK, Georgia,
45.	<i>Dasheen mosaic potyvirus</i> (DsMV);(= <i>Dasheen mosaic virus</i>)	I	<i>Aglaonema</i> , <i>Alocasia</i> , <i>Amorphophallus</i> , <i>Anthurium</i> , <i>Araceae</i> ,	leaf, plant	Africa: Africa, Cameroon, Egypt, Nigeria, South Africa, America: Costa Rica, Cuba,

			<i>Caladium, Colocasia, Colocasia esculenta (taro), Dieffenbachia (dumbcanes), Philodendron, Spathiphyllum, Xanthosoma (cocoyam), Zantedeschia (calla-lilies) Cyrtosperma merkusii (giant swamp taro)</i>		Dominican Republic, Jamaica, Martinique, Puerto Rico, Trinidad and Tobago, USA, Brazil, Venezuela Asia: China, Taiwan, India, Japan Europe: Belgium, Denmark, Italy, Netherlands, United Kingdom, Oceania: American Samoa, Australia, Cook Islands, Fiji, French Polynesia, Guam, Kiribati, New Zealand, Niue, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu
46.	<i>Dendrobium vein necrosis (?) closterovirus (DVNV)</i>	I	Orchidaceae	plant,	Europe: Germany
47.	<i>Grapevine Bulgarian latent nepovirus (GBLV); (= Grapevine Bulgarian latent virus, Virus CM112)</i>	I	<i>Vitis spp.</i> (anggur, grapevine).	stem, seed	Europe: Bulgaria, Hungary, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Portugal
48.	<i>Grapevine chrome mosaic nepovirus (GCMV); (= Grapevine chrome mosaic virus, Grapevine Hungarian chrome mosaic virus)</i>	I	<i>Vitis vinifera</i> (anggur, grapevine) <i>Apium graveolens</i>	bark, stem, leaf, buds, root, seed	Europe: Austria, Croatia, Czech, Slovakia, Hungary
49.	<i>Grapevine fanleaf nepovirus (GFLV); (= Grapevine fan leaf virus, Grapevine veinbanding</i>	I	<i>Vitis vinifera</i> (anggur, grapevine) <i>Cucumis sativus, Phaseolus</i>	buds, stolon, plant, seed	Africa: Algeria, Egypt, Madagascar, Morocco, Nigeria, South Africa, Tunisia

	<i>virus, Grapevine yellow mosaic virus, Grapevine arricciamento virus, Grape vine infectious degeneration virus, Grapevine roncet virus, Grapevine urticado virus)</i>		<i>vulgaris</i> (buncis, common bean), <i>Vigna unguiculata</i> (kacang tunggak, cowpea)	Vector: Dorylaimida, Longidoridae: <i>Xiphinema index</i> , <i>X. Italye</i>	America: Argentina, Bolivia, Brazil, Canada, Chile, Mexico, USA, Venezuela Asia: China, Iran, Israel, Japan, Jordan, Kazakhstan, Lebanon, Philippines, Syria, Turkey, Europe: Albania, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech, Slovakia, France, Germany, Greece, Crete, Hungary, Italy, Macedonia, Malta, Moldova, Portugal, Romania, Russia, Slovenia, Spain: Canary Island, Switzerland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Armenia, Oceania: Australia, New Zealand
50.	<i>Grapevine fleck maculavirus</i> (GFkV);(= Grapevine fleck virus, <i>Grapevine marbrure virus, Grapevine phloem-limited isometric virus)</i>	I	<i>Vitis vinifera</i> (anggur, grapevine)	stem, plant	Africa: South Africa America: Brazil, USA Asia: Jordan, Syria Europe: Albania, France, Italy,
51.	<i>Grapevine leafroll-associated closterovirus</i> (GLRaV);(= <i>Grapevine leafroll-associated</i>	I	<i>Vitis vinifera</i> (anggur, grapevine)	bark, root, stem, leaf, tissue	Africa: Algeria, Morocco, Tunisia, Brazil, Canada, Chile, Mexico, USA

	<i>virus, Grapevine B virus, Grapevine leafroll disease, Grapevine C virus)</i>			<p>culture</p> <p>Vector: Hemiptera, Pseudococcid ae: <i>Pseudococcus longis, P. calceolariae, P. maritimus, P. affinis, P. viburni, Planococcus ficus, P. citri, Helicococcus bohemicus, Phenacoccus</i> sp.; Hemiptera, Coccidae: <i>Pulvinaria vitis, Parthenolecanium corni, Neopulvinaria innummerabilis</i></p>	<p>Asia: China, Taiwan, Gaza, Israel, Japan, Jordan, South Korea, Lebanon, Turkey, Yemen, Europe: Albania, Austria, Bulgaria, Croatia, Cyprus, Czech, Slovakia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Italy, Malta, Moldova, Portugal, Romania, Spain, Switzerland, Ukraine, Armenia Oceania: Australia, New Zealand</p>
52.	<i>Grapevine stem pitting associated closterovirus (GVA); (=Grapevine corky bark closterovirus, Grapevine stem</i>	I	<i>Vitis vinifera</i> (anggur, grapevine)	buds, stolon, bark, stem, leaf, buds, root.	<p>Africa: South Africa, Tunisia, South Africa America: Brazil, Mexico, USA Asia: Jordan, Lebanon,</p>

	<i>pitting disease, Grapevine stem pitting virus, Grapevine virus A, Legno Riccio (possibly), Rugose wood (possibly), Grapevine corky bark disease)</i>			Vector: Hemiptera, <i>Pseudococcid</i> <i>ae</i>	Yemen, Central East Europe: Albania, Bulgaria, Italy, Portugal
53.	<i>Grapevine vein necrosis agent (GVVN); (=Grapevine vein necrosis virus, Grapevine vein necrosis disease)</i>	I	<i>Vitis vinifera</i> (anggur, grapevine)	plant, stem	Europe: Hungary, Turkey
54.	<i>Hop stunt viroid (HSVd); (= Citrus cachexia viroid, Citrus xyloporosis viroid, Citrus xyloporosis 'virus', Cucumber pale fruit viroid, Hop stunt hostuviroid)</i>	I	<i>Citrus</i> spp. (jeruk, orange)	plant, stem	America: Cuba, USA
55.	<i>Impatiens necrotic spot tospovirus (INSV); (= Impatiens necrotic spot virus)</i>	I	<i>Chrysanthemum</i> sp. (daisy), <i>Impatiens</i> sp. (balsam) <i>Cichorium</i> sp., <i>Cyclamen persicum</i> , <i>Gentiana</i> sp., <i>Isotoma axillaris</i> , <i>Kalanchoe</i> sp, <i>Ocimum basilicum</i> , <i>Phalaenopsis hybrids</i> , <i>Rubus</i> , <i>Spinacia oleracea</i> , <i>Valerianella</i> , <i>Cardamine scutata</i> , <i>Cerastium glomeratum</i> , <i>Stellaria media</i> , <i>Arachis hypogaea</i> (peanut), <i>Capsicum annuum</i> (paprika, bell pepper), <i>Capsicum</i> spp., <i>Cucumis</i>	Leaf, plant. Vector: Thysanoptera, Thripidae: <i>Frankliniella occidentalis</i>	America: Canada, Chile, Costa Rica, Mexico, USA Asia: China, Iran, Japan Europe: Austria, Belgium, Bulgaria, Czechia, Finland, France, Germany, Guernsey, Hungary, Italy, Netherlands, Poland, Portugal, Slovenia, Spain, United Kingdom Oceania: New Zealand

			<i>sativus</i> (cucumber), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato)		
56.	<i>Johnsongrass mosaic potyvirus</i> (JGMV);(= <i>Maize dwarf mosaic virus - strain O, Johnsongrass mosaic virus, Sugarcane mosaic virus - Australian Johnson grass virus, Maize dwarf mosaic virus - Kansas I strain</i>)	I	<i>Pennisetum glaucum</i> (pearl millet), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Sorghum bicolor</i> (sorghum), <i>Sorghum halepense</i> (Johnson grass), <i>Urochloa brizantha</i> (palisadegrass), <i>Zea mays</i> (jagung, corn)	seed, root, stem, leaf, flower, fruit	America: Colombia, Venezuela Europe: Hungary Oceania: Australia
57.	<i>Lettuce mosaic virus</i> (LMV);(= <i>Lettuce mosaic potyvirus, Lettuce virus 1</i>)	I	<i>Cichorium intybus</i> (chicory), <i>Lactuca sativa</i> (lettuce) <i>Carthamus tinctorius</i> (safflower), <i>Cicer arietinum</i> (chickpea), <i>Cichorium endivia</i> (endives), <i>Eustoma grandiflorum</i> (<i>Lisianthus</i> (cut flower crop)), <i>Pisum sativum</i> (pea), <i>Spinacia oleracea</i> (spinach), <i>Sonchus</i> (<i>Southistle</i>), <i>Stellaria media</i> (common chickweed), <i>Sinapis arvensis</i> (wild mustard)	leaf, plant.	Africa: Egypt, Ghana, Malawi, Mauritius, Morocco, Sierra Leone, South Africa, Tanzania, Tunisia, Zambia, Zimbabwe. America: Argentina, Brazil, Canada, Chile, Ecuador, Jamaica, Mexico, USA, Uruguay. Asia: China, India, Iran, Iraq, Israel, Japan, Jordan, Lebanon, Malaysia, Syria, Taiwan, Yemen. Europe: Austria, Belgium, Croatia, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovakia,

					Spain, Sweden, Switzerland, Turkey, United Kingdom. Oceania: Australia, New Zealand.
58.	<i>Little cherry virus 1</i> (LChV 1);(= <i>Cherry little cherry closteovirus</i> , <i>Cherry little cherry virus</i> , <i>Little cherry closteovirus</i>)	I	<i>Prunus avium</i> (<i>Cherry</i>) <i>Prunus cerasus</i> , <i>Prunus emarginata</i> , <i>Prunus incise</i> , <i>Prunus mahaleb</i> , <i>Prunus sargentii</i> , <i>Prunus serrula</i> , <i>Prunus serrulata</i> , <i>Prunus subhirtella</i> , <i>Prunus tomentosa</i> , <i>Prunus x sieboldii</i> , <i>Prunus x yedoensis</i> , <i>Prunus pennsylvanica</i>	bark, flower, leaf, root, shoots	America: Canada, USA Asia: Japan Europe : Belgium, Czechia, Germany, Greece, Italy, Poland, Romania, Switzerland, Turkey, United Kingdom Oceania: New Zealand
59.	<i>Lucerne enation rhabdovirus</i> (LEV);(= <i>Alfalva enation virus</i> , <i>Lucerne enation virus</i>)	I	<i>Alfalva sp</i> , Fabaceae, <i>Medicago sativa</i> , <i>Nicotiana tabacum</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i>	Plant	Africa: South Africa, Sudan America: Argentina, Canada, Colombia, Peru, USA Asia: Iran, Japan Europe: Belgium, Bulgaria, Czech, Slovakia, Denmark, Greece, Hungary, Italy, Poland, Romania, Russia, Serbia, Switzerland Oceania: Australia
60.	<i>Maize chlorotic dwarf waikavirus</i> (MCDV);(= <i>Maize chlorotic dwarf machlovirus</i> , <i>Maize chlorotic dwarf MCDV group</i> , <i>Maize chlorotic dwarf ribotungrovirus</i> , <i>Maize chlorotic dwarf virus</i> , <i>Corn stunt agent</i>)	I	<i>Zea mays</i> (jagung, corn) <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Setaria</i> spp.	plant Vector: Hemiptera, Cicadellidae: <i>Amblysellus grex</i> ,	America: USA

				<i>Dalbulus maidis</i> , <i>Endria inimica</i> , <i>Exitianus exitiosus</i> , <i>Graminella nigrifrons</i> , <i>Graminella sonora</i> , <i>Macrosteles severini</i> , <i>Planicephalus flavo costatus</i> , <i>Stirellus bicolor</i>	
61.	<i>Maize chlorotic mottle machlomovirus</i> (MCMV);(= <i>Maize chlorotic mottle virus</i> , <i>Maize mottle virus</i> , <i>Peru corn virus</i>)	I	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorgum, sorghum) <i>Bromus arvensis</i> , <i>Panicum vurgatum</i> , <i>Setaria glauca</i> , <i>Zea diploperennis</i>	seed, plant Vector: Coleoptera, Chrysomelidae: <i>Chaetocnema pulicaria</i> , <i>Diabrotica</i> spp., <i>Oulema melanopus</i> , <i>Systema frontalis</i> Thysanoptera, Thripidae:	America: Argentina, Mexico, Peru, USA

				<i>Frankliniella williamsii</i>	
62.	<i>Maize dwarf mosaic potyvirus</i> (MDMV);(= <i>Sorghum red stripe virus</i> ; <i>European maize mosaic virus</i> ; <i>Indian maize mosaic virus</i> ; <i>Maize dwarf mosaic virus</i> , <i>Maize stripe mosaic virus</i>)	I	<i>Sorghum halepense</i> (Johnson grass), <i>Sorghum bicolor</i> (sorghum, sorghum), <i>Zea mays</i> (jagung, corn), <i>Zea mays</i> subsp. <i>mays</i> (sweetcorn) <i>Avena sativa</i> (oats), <i>Panicum miliaceum</i> (millet), <i>Saccharum officinarum</i> (tebu, sugarcane)	seedling, seed	Africa: Ivory Coast, Egypt, Ethiopia, Kenya, Mauritius, Morocco, Niger, Nigeria, South Africa, Zambia, Zimbabwe. America: Argentina, Canada, Chile, Colombia, Haiti, Honduras, Mexico, Peru, USA, Hawaii, Venezuela. Asia: China (Taiwan), Georgia (Republic), India (Uttar Pradesh), Iran, Iraq, Israel, Kazakhstan, Korea Republic of (South Korea), Pakistan, Philippines, Turkey, Uzbekistan. Europe: Bulgaria, Croatia, Czech Republic, Czech Republic and Slovakia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Italy, Romania, Russia (Russia (Europe)), Spain, Ukraine,
63.	<i>Maize mosaic nucleorhabdovirus</i> (MMV);(= <i>Maize mosaic virus</i> , <i>Maize</i>	I	<i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorghum, sorghum)	plant Vector:	Africa: Kenya, Madagascar, Mauritius, Mozambique, Nigeria, Réunion, Tanzania,

	<i>stripe Indian virus, Sorghum chlorosis virus, Zea mays virus)</i>		<i>Axonopus, Hordeum vulgare, Rottboellia cochinchinensis, Sorghum halepense, Zea mexicana</i>	Hemiptera, Delphacidae: <i>Peregrinus maidis</i>	Zimbabwe America: Brazil, Colombia, Cuba, Guyana France, Guadeloupe, Mexico, Peru, Puerto Rico, Suriname, USA, Venezuela Asia: India, Yemen
64.	<i>Maize rayado fino marafivirus (MRFV);(=Maize rayado fino virus)</i>	I	<i>Zea mays</i> (jagung, corn)	plant Vector: Hemiptera, Cicadellidae: <i>Dalbulus maidis, D.elimatus, Balbulus tripsaci, Graminella nigrifrons</i>	America: Argentina, Brazil, Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Peru, USA, Uruguay, Venezuela
65.	<i>Maize rough dwarf fivirus (MRDV);(= Cereal tillering disease fivirus, Cereal tillering disease reovirus, Cereal tillering disease virus, Maize rough dwarf virus)</i>	I	<i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorgum, sorghum), <i>Hordeum vulgare</i> (barli, barley), <i>Lolium perenne</i> (perennial ryegrass), <i>Zea mays</i> subsp. <i>mays</i> (jagung manis, sweetcorn) <i>Triticum aestivum</i> (gandum, wheat), <i>Avena sativa</i> (oat, oats), <i>Cynodon dactylon</i> (rumput bermuda, bermuda grass),	plant Vector: Hemiptera, Delphacidae: <i>Delphacodes propinqua, Dicranotropis hamata, Laodelphax striatellus, Javassella pellucida,</i>	America: Argentina Asia: China, Iran, Israel, South Korea Europe: Czech, Slovakia, France, Germany, Italy, Norway, Spain, Sweden, Switzerland, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia

			<i>Digitaria sanguinalis</i> (large crabgrass), <i>Echinochloa crus-galli</i> (barnyard grass)	<i>Ribautodelphax notabilis</i> , <i>Sogatella vibix</i>	
66.	<i>Maize streak mastrevirus</i> (MSV);(= <i>Maize mottle virus</i> , <i>Maize streak monogeminivirus</i> , <i>Maize streak geminivirus</i> , <i>Maize streak virus</i> , <i>Sereal African streak virus</i> , <i>Sugarcane streak virus</i>)	I	<i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorgum, sorghum), Poaceae Oat, <i>Hordeum vulgare</i> (barli, barley), <i>Secale cereale</i> (rye)	plant Vector: <i>Hemiptera</i> , <i>Cicadellidae</i> : <i>Cicadulina mbila</i> , <i>C.arachidis</i> , <i>C. bipunctella</i> , <i>C. triangula</i> , <i>C. bimaculata</i> , <i>C. similis</i> , <i>C.latens</i> , <i>C.ghaurii</i> , <i>C.parazeae</i> . <i>Nesoclutha declivata</i>	Africa: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central Africa, RD.Congo, Congo, Ivory Coast, Egypt, Ethiopia, Gabon, Ghana, Guinea, Kenya, Madagascar, Malawi, Mali, Mauritius, Mozambique, Niger, Nigeria, Rwanda, Réunion, Sao Tome & Principe, Senegal, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe America: USA Asia: India, Yemen,
67.	<i>Maize stripe tenuivirus</i> (MSpV);(= <i>Maize chlorotic stripe virus</i> , <i>Maize stripe virus</i> , <i>Sorghum chlorosis virus</i>)	I	<i>Zea mays</i> (jagung, corn), <i>Sorghum bicolor</i> (sorgum, sorghum) <i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barli, barley), <i>Oryza sativa</i> (padi, paddy), <i>Triticum aestivum</i> (gandum, wheat),	plant Vector: Hemiptera, Delphacidae: <i>Peregrinus maidis</i>	Africa: Benin, Botswana, Cameroon, RD.Congo, Egypt, Kenya, Madagascar, Mauritius, Mozambique, Nigeria, Réunion, Sao Tome & Principe, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe

			<i>Saccharum officinarum</i> (tebu, sugarcane), <i>Secale cereale</i> (rye)		America: Argentina, Brazil, Costa Rica, Guadeloupe, Peru, Puerto Rico, USA, Venezuela Asia: China, Taiwan, India, Philippines Oceania: Australia
68.	<i>Maize white line mosaic virus</i> (MWLMV);(= <i>Maize dwarf ringspot virus</i> , <i>Maize white line virus</i>)	I	<i>Zea mays</i> (jagung, corn)	Plant	America: USA Europe: France, Italy
69.	<i>Orchid fleck rhabdovirus</i> (OFV);(= <i>Dendrobium leaf streak virus</i> , <i>Dendrobium virus</i> , <i>Laelia red leafspot</i> , <i>Short orchid rhabdovirus</i> , <i>Orchid rhabdovirus</i> , <i>Orchid fleck virus</i> , <i>Phalaenopsis chlorotic spot virus</i> , <i>Phalaenopsis hybrid virus</i> , <i>Phalaenopsis virus</i>)	I	Orchidaceae	Plant	America: Brazil, USA Asia: Japan Europe: Germany Oceania: Australia, New Zealand
70.	<i>Papaya mosaic potexvirus</i> (PapMV);(= <i>Argentine plantago potexvirus</i> , <i>Argentine plantago virus</i> , <i>Australian alternanthera potexvirus</i> , <i>Babaco yellow mosaic virus</i> , <i>Boussingaultia mosaic virus</i> , <i>Olive vein yellow virus</i> , <i>Papaya mild mosaic virus</i> , <i>Papaya mosaic virus</i> , <i>Pawpaw mild mosaic virus</i> , <i>Pawpaw mosaic virus</i> , <i>Portulaca virus</i> , <i>Salvia</i>)	I	<i>Carica papaya</i> (papaya, papaw)	leaf, seedling plant, root, stem, leaf, flower, fruit	Africa: Tanzania America: Dominica, Trinidad and Tobago, USA, Brazil, Venezuela Oceania: Guam

	<i>potexvirus, Trichosanthes virus, Ullucus potexvirus)</i>				
71.	<i>Papaya necrosis virus</i> ; (= <i>Papaya droopy necrosis virus</i> (PDNV), <i>Papaya apical necrosis virus</i> (PANV))	I	<i>Caricapapaya</i> (papaya, papaw)	Plant	America: USA
72.	<i>Passion fruit woodiness virus</i> (PWV); (= <i>Passionfruit woodiness potyvirus</i>)	I	<i>Arachis hypogaea</i> (peanut), <i>Glycine max</i> (soyabean), <i>Passiflora edulis</i> (markisa, passionfruit), <i>Passiflora suberosa</i> (Corky passionflower), <i>Phaseolus vulgaris</i> (common bean) <i>Passiflora foetida</i> (red fruit passion flower, <i>Nicotiana tabacum</i> (tobacco)	Plant	Africa: South Africa, America: Martinique, Brazil, Ceara, Goias, Asia: Japan, Oceania: Australia, Queensland, New Zealand, Samoa
73.	<i>Pea enation mosaic 1 enamovirus</i> (PEMV-1); (= <i>Pea enation mosaic virus-1</i> , <i>Pea enation mosaic virus</i> , <i>Pea enation mosaic virus 'group'</i> , <i>Pea virus 1</i>)	I	<i>Vicia faba</i> <i>Cicer arietinum</i> , <i>Lathyrus odoratus</i> , <i>Lens culinaris</i> , <i>Medicago arabica</i> , <i>Pisum sativum</i> , <i>Trifolium incarnatum</i> , <i>Vicia sativa</i>	seed, plant Vector: Hemiptera, Aphididae: <i>Acyrtosiphon pisum</i> , <i>Myzus persicae</i>	America: USA, Canada Asia: China, Iran Europe: Austria, Czech, Slovakia, Germany, UK
74.	<i>Pea seed-borne mosaic virus</i> (PSbMV); (= <i>Pea leaf-roll virus</i> , <i>Pea seed-borne mosaic virus</i>)	I	<i>Lens culinaris</i> ssp. <i>culinaris</i> (lentil), <i>Pisum sativum</i> (green pea, pea) <i>Vicia faba</i> (broad bean)	leaf, plant	Africa: Algeria, Egypt, Ethiopia, Libya, Morocco, Sudan, Tunisia America: Brazil, Canada, Peru, USA Asia: India, Iran, Japan,

					Jordan, Lebanon, Nepal, Pakistan, Syria, Taiwan, Yemen Europe : Belgium, Czechia, Denmark, France, Germany, Netherlands, Poland, Serbia, Slovakia, Switzerland, Turkey, United Kingdom Oceania: Australia, New Zealand
75.	<i>Pea streak carlavirus</i> (PeSV); (= <i>Alfalfa latent virus</i> , <i>Pea streak virus</i> , <i>Steinklee virus</i> , <i>Pea streak virus</i>)	I	<i>Pisum sativum</i> (kapri, sweet pea), Leguminosae, <i>Medicago sativa</i> , <i>Cicer arietinum</i>	Plant	America: Canada, USA Europe: widespread
76.	<i>Peach latent mosaic pelamoviroid</i> (PLMVd); (= <i>Peach latent mosaic viroid</i> ; <i>Prunus virus 5</i> ; <i>Peach yellow mosaic viroid</i> ; <i>Peach yellow mosaic</i> ; <i>Peach blotch</i> ; <i>Peach virus 6</i> ; <i>Peach American mosaic disease</i> ; <i>Peach American mosaic pathogen</i> ; <i>Peach mosaic</i> ; <i>Peach calico</i>)	I	<i>Prunus persica</i> (peach) <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus domestica</i> (plum)	fruit, pod, flower, leaf, stem, plant.	Africa: Algeria, Egypt, Morocco, South Africa, Tunisia America: Canada, Mexico, USA, Uruguay Asia: China, Japan, Lebanon, Syria Europe: Austria, Bosnia and Herzegovina, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Greece, Italy, Romania, Montenegro, Spain Oceania: Australia

77.	<i>Peach rosette mosaic nepovirus</i> (PRMV);(= <i>Grape decline virus</i> , <i>Grapevine degeneration virus</i> , <i>Peach rosette mosaic virus</i> , <i>Rosette mosaic virus</i>)	I	<i>Vitis vinifera</i> (anggur, grapevine), <i>Prunus persica</i> , <i>Vaccinium corymbosum</i> , <i>Rumex crispus</i> , <i>Solanum carolinense</i> , <i>Taraxacum officinale</i>	seed, stem, leaf, fruit, stolon, soil, growing media Vector: Dorylaimidae , Longidoridae : <i>Xiphinema americanum</i> , <i>Longidorus diadecturus</i>	Africa: Egypt America: Canada, USA Asia: India, Turkey
78.	<i>Peanut chlorotic streak caulimovirus</i> (PCSV);(= <i>Peanut chlorotic streak virus</i> , <i>Peanut chlorotic streak soymovirus</i>)	I	<i>Arachys hypogaea</i> (kacang tanah, peanut) <i>Canavalia ensiformis</i> , <i>Cyamopsis tetragonoloba</i> , <i>Glycine max</i> , <i>Vigna unguiculata</i> (kacang tunggak, cowpea), <i>Spinacia oleracea</i> , <i>Vicia faba</i> (kacang babi, broad bean), <i>Vigna radiata</i> ,	Plant	Asia: India
79.	<i>Peanut clump pecluvirus</i> (PCV);(= <i>Peanut clump furovirus</i> , <i>Peanut clump virus</i> , <i>Indian peanut clump virus</i> (IPCV))	I	<i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Saccharum officinarum</i> (tebu, sugarcane), <i>Triticum aestivum</i> (gandum, wheat), <i>Setaria Italycy</i> (foxtail millet)	seed, plant Vector: <i>Protozoa</i> , <i>Plasmodiophoraceae</i> : <i>Polymyxa graminis</i>	Africa: Burkina Faso, Ivory Coast, Senegal Asia: India, Pakistan

80.	<i>Peanut stunt cucumovirus</i> (PSV);(= <i>Black locust true mosaic virus</i> , <i>Clover blotch virus</i> , <i>Groundnut stunt virus</i> , <i>Peanut common mosaic virus</i> , <i>Peanut stunt virus</i> , <i>Robinia mosaic virus</i>)	I	<i>Arachys hypogaea</i> (kacang tanah, peanut), <i>Glycine max</i> (kedelai, soybean), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Nicotiana tabacum</i> (tembakau, tobacco), pea, <i>Phaseolus vulgaris</i> (buncis, common bean), <i>Vigna unguiculata</i> (kacang tunggak, cowpea)	seed, plant Vector: Hemiptera, Aphididae: <i>Aphis craccivora</i> , <i>A. spiraecola</i> , <i>Myzus persicae</i>	Africa: Morocco, Sudan America: USA Asia: China, Japan, Korea Europe: France, Hungary, Italy, Poland, Spain, Georgia
81.	<i>Pepino mosaic virus</i> (PepMV);(= <i>Pepino mosaic potexvirus</i>)	I	<i>Solanum lycopersicum</i> (tomat), <i>Solanum muricatum</i> , <i>Ocimum basilicum</i> , <i>Amaranthus graecizans</i> , <i>Amaranthus retroflexus</i> , <i>Amaranthus viridis</i> , <i>Calendula arvensis</i> , <i>Chenopodium murale</i> , <i>Chrysanthemum segetum</i> , <i>Convolvulus arvensis</i> , <i>Convolvulus humilis</i> , <i>Malva neglecta</i> , <i>Malva nicaeensis</i> , <i>Malva parviflora</i> , <i>Malva sylvestris</i> , <i>Plantago lagopus</i> , <i>Plantago major</i> , <i>Solanum nigrum</i> , <i>Sonchus asper</i> , <i>Sonchus oleraceus</i> , <i>Sonchus tenerrimus</i> , <i>Lens culinaris</i> (lentil)	fruit, pod, leaf.	Africa: South Africa, America: Canada, Chile, Ecuador, Mexico, Peru, USA Asia: Syria Europe: Austria, Belgium, Bulgaria, Cyprus, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Poland, Spain, Switzerland, Turkey, United Kingdom

82.	<i>Plum pox potyvirus</i> (PPV); (= <i>Plum pox virus</i> ; <i>Prunus virus</i> 7; <i>Annulus pruni</i> ; <i>Sharka virus</i>)	I	<i>Prunus armeniaca</i> (apricot), <i>Prunus domestica</i> (plum), <i>Prunus dulcis</i> (almond), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum) <i>Juglans regia</i> (walnut), <i>Prunus avium</i> (sweet cherry), <i>Prunus besseyi</i> (bessey cherry), <i>Prunus cerasifera</i> (myrobalan plum), <i>Prunus spinosa</i> (blackthorn), <i>Prunus tomentosa</i> (Nanking cherry tree) (Wild hosts): <i>Prunus glandulosa</i> (flowering almond), <i>Prunus japonica</i> (Japanese bush cherry tree), <i>Prunus serotina</i> (black cherry)	fruit, pod, leaf, stem, root, seed, seedling.	Africa: Egypt America: Canada, USA, Argentina, Chile Asia: India, Iran, Jordan, Kazakhstan, Syria, Turkey Europe: Albania, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, France, Germany, Greece, Hungary, Italy, Lithuania, Luxembourg, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Spain, Ukraine, UK
83.	<i>Potato black ringspot nepovirus</i> (PBRSV); (= <i>Andean potato calico strain of tobacco ringspot virus</i> , <i>Andean potato calico strains nepovirus</i> , <i>Potato black ringspot virus</i> , <i>Potato calico strain of tobacco ringspot virus</i>)	I	<i>Solanum tuberosum</i> (kentang, potato) <i>Arracacia xanthorrhiza</i> , <i>Oxalis tuberosa</i>	bulb, tuber, corm, plant	America: Peru
84.	<i>Potato mop-top pomovirus</i> (PMTV); (= <i>Potato mop-top furovirus</i> , <i>Potato mop-top virus</i>)	I	<i>Solanum tuberosum</i> (kentang, potato)	bulb, tuber, corm, plant Vector: <i>Protoz</i>	America: Bolivia, Canada, Chile, Peru, USA Asia: China: Taiwan, Israel, Japan, Pakistan

				<i>oa</i> , <i>Plasmodioph</i> <i>oraceae</i> : <i>Spongospora</i> <i>subterranea</i>	Europe: Czech, Slovakia, Denmark, Estonia, Finland, Germany, Ireland, Netherlands, Norway, Sweden, UK
85.	<i>Potato spindle tuber pospiviroid</i> (PSTVd);(= <i>Potato spindle viroid</i> , <i>Spindle tuber viroid</i> , <i>Potato gothic virus</i> , <i>Tomato bunchy top viroid</i>)	I	<i>Solanum tuberosum</i> (kentang, potato), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Persea americana</i> (alpokat, avocado) <i>Beta vulgaris</i> var <i>saccharifera</i> (bit gula, sugar beet)	seed, bulb, tuber, corm, polen, plant Vector:Hemi ptera, Aphididae: <i>Macrosiphum</i> <i>euphorbiae</i> , <i>Myzus</i> <i>persicae</i>	Africa: Egypt, Nigeria, Argentina America: Canada, Chile, Costa Rica, Peru, USA, Venezuela Asia: Afghanistan, China, India Europe: Belarus, Germany, Poland, Russia (Southern Russia), Ukraine Oceania: Australia, New Zealand
86.	<i>Potato T trichovirus</i> (PVT);(= <i>Potato T capillovirus</i> , <i>Potato virus T</i>)	I	<i>Solanum tuberosum</i> (kentang, potato) S: <i>Oxalis tuberosa</i> , <i>Ullucus tuberosus</i>	bulb, tuber, corm, seed, plant	America: Bolivia, Peru, Uruguay
87.	<i>Potato U nepovirus</i> (PVU);(= <i>Potato virus U</i>)	I	<i>Solanum tuberosum</i> (kentang, potato), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Beta vulgaris</i> (bit, beetroot), <i>Cucumis sativus</i> (mentimun, cucumber), <i>Solanum lycopersicum</i> (tomat, tomato)	bulb, tuber, corm, seed Vector:orylai midiae, Longidoridae : <i>Longidorus</i> ssp .	America: Peru
88.	<i>Potato yellow dwarf virus</i>	I	<i>Solanum tuberosum</i> (potato)	bulbs,	America: Canada, USA

	(PYDV);(= <i>Potato yellow dwarf rhabdovirus</i> , <i>Potato yellow dwarf nucleorhabdovirus</i>)		<i>Mirabilis jalapa</i> , <i>Nicotiana alata</i> , <i>Tagetes erecta</i> , <i>Zinnia elegans</i> , Solanaceae, <i>Solanum</i> , Apocynoideae, Asteraceae, Brassicaceae, Lamioideae, <i>Nicotiana clevelandii</i> , <i>Nicotiana debneyi</i> , <i>Nicotiana glauca</i> , <i>Nicotiana rustica</i> , <i>Nicotiana tabacum</i> , Polygalaceae, Scrophulariaceae, <i>Catharanthus roseus</i> (<i>Pink periwinkle</i>), <i>Lycopersicon esculentum</i> (<i>tomato</i>), <i>Mirabilis jalapa</i> (<i>marvel of Peru</i>), <i>Nicotiana alata</i> (<i>sweet-scented tobacco</i>), <i>Tagetes erecta</i> (<i>African marigold</i>), <i>Zinnia elegans</i> (<i>zinnia</i>), <i>Anthemis cotula</i> (<i>dog fennel</i>), <i>Brassica nigra</i> (<i>black mustard</i>), <i>Erysimum cheiranthoides</i> (<i>Treacle mustard</i>), <i>Lepidium campestre</i> (<i>Field cress</i>), <i>Lepidium virginicum</i> (<i>Virginian peppercress</i>), <i>Verbascum thapsus</i> (<i>Aaron's-rod</i>)	tubers, corms, rhizomes	
89.	<i>Potato yellow dwarf virus</i> (PYDV);Nucleorhabdovirus; (= <i>Potato yellow dwarf</i>	I	<i>Solanum tuberosum</i> (potato) <i>Catharanthus roseus</i> (Pink	tubers, bulbs, buds, leaf, root,	America: Canada, USA

	<i>nucleorhabdovirus; Potato yellow dwarf rhabdovirus, Yellow dwarf of potato)</i>		periwinkle), <i>Lycopersicon esculentum</i> (tomato), <i>Mirabilis jalapa</i> (marvel of Peru), <i>Nicotiana alata</i> (sweet-scented tobacco), <i>Tagetes erecta</i> (African marigold), <i>Zinnia elegans</i> (zinnia) (Wild hosts): <i>Anthemis cotula</i> (dog fennel), <i>Brassica nigra</i> (black mustard), <i>Erysimum cheiranthoides</i> (Treacle mustard), <i>Lepidium campestre</i> (Field cress), <i>Lepidium virginicum</i> (n peppergrass), <i>Verbascum thapsus</i> (Aaron's-rod)	stem, vegetatif material, plant	
90.	<i>Potato yellow vein crinivirus</i> (PYVV); (= <i>Potato yellow vein virus, Potato vein-yellowing disease, Potato yellow vein disease</i>)	I	<i>Solanum tuberosum</i> (kentang, potato)	bulb, tuber, corm, plant Vector:Hemiptera, Aleyrodidae: <i>Trialeurodes vaporariorum</i>	America: Colombia, Ecuador, Peru, Venezuela
91.	<i>Prunus necrotic ringspot ilarvirus</i> (PNRSV);(= <i>Rose line pattern virus, European plum line pattern virus, Hop B virus, Hop C virus, Peach ringspot virus, Plum line pattern virus,</i>	I	<i>Prunus persica, Prunus cerasus, Prunus persica, Rosa spp.</i> (mawar, rose), <i>Prunus domesticum</i> (plam, plum), <i>Prunus dulcis</i> (almon, almond), <i>Humulus,</i>	seed, polen, stem, plant	Africa: Algeria, Egypt, Morocco, South Africa, Tunisia, America: Argentina, Brazil, Canada, Chile, Mexico, USA, Uruguay,

	<i>Prunus ringspot virus, Prunus necrotic ringspot ilarvirus, Red currant necrotic ringspot virus, Rose chlorotic mottle virus, Rose vein banding virus, Rose yellow vein mosaic virus, Sour cherry necrotic ringspot virus)</i>		<i>Cucumis sativus</i> (ketimun, cucumber)		Asia: Afghanistan, China, China, India, Iran, Israel, Japan, Jordan, Lebanon, Saudi Arabia, Syria, Europe: Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Latvia, Malta, Moldova, Montenegro, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Spain, Sweden, Turkey, Ukraine, United Kingdom, Oceania: Australia, Fiji, New Zealand
92.	<i>Radish enation mosaic virus</i> (RaMV);(= <i>Radish mosaic virus, Radish mosaic comovirus</i>)	I	<i>Brassica napus var. napus</i> (rape), <i>Brassica oleracea</i> (cabbages, cauliflowers), <i>Brassica rapa. oleifera</i> (turnip rape), <i>Raphanus sativus</i> (lobak, radish) <i>Brassica napus var. napobrassica</i> (swede), <i>Eruca vesicaria</i> (purple-vein rocket)	tanaman	Africa: Morocco America: USA Asia: India, Japan, Europe: Austria, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, Slovenia, Macedonia, Croatia, Serbia, Montenegro, Kosovo, Bosnia, Germany, Hungary, Italy,
93.	<i>Raspberry ringspot</i>	I	<i>Rubus</i> spp. (raspberry),	seed, pollen,	Asia: Kazakhstan, Turkey,

	<i>nepovirus</i> (RpRSV);(= Raspberry ringspot virus, <i>Raspberry Scottish leaf curl virus</i> , <i>Red currant ringspot virus</i> , <i>Red currant ringspot virus</i>)		<i>Fragaria vesca</i> (arbei, strawberry), <i>Prunus cerasus</i> (ceri, cherry), <i>Vitis vinifera</i> (anggur, grapevine), <i>Prunus cerasus</i> (ceri, cherry), <i>Prunus domesticum</i> (plam, plum), <i>Prunus americana</i> (aprikot, apricot), <i>Prunus persica</i> (persik, peach), <i>Fragaria vesca</i> (arbei, strawberry) <i>Ligustrum vulgare</i> , <i>Narsisus pseudonar cissus</i> , <i>Ribes</i> , <i>Weigela</i> <i>Daphne</i> , <i>Forsythia</i> , <i>Phlox</i> , <i>Cynara scolymus</i>	plant Vector: orylaimidae, Longidoridae : <i>Longidorus elongatus</i> , <i>L. macrosoma</i>	Siberia Europe: Albania, Belarus, Belgium, Bulgaria, Czech Republic, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Luxembourg, Netherlands, Norway, Portugal, Russia, Serbia, Switzerland, Turkey, United Kingdom
94.	<i>Red clover vein mosaic virus</i> (RCVMV);(= <i>Red clover vein mosaic carlavirus</i> , <i>Clover (red) vein mosaic virus</i> . <i>Marmor trifolii</i> , <i>pea stunt virus</i>)	I	<i>Medicago sativa</i> (alfalva, lucerne), <i>Trifolium pratense</i> (purple clover) <i>Cicer arietinum</i> (chickpea), <i>Phaseolus vulgaris</i> (common bean), <i>Pisum sativum</i> (pea), <i>Trifolium repens</i> (white clover)	tanaman	America: USA, Europe: Germany, Lithuania, Netherlands,
95.	<i>Rice black-streaked dwarf fivirus</i> (RBSDV);(= <i>Rice black streak virus</i> ; <i>Rice streak dwarf virus</i> ; <i>Black streaked dwarf disease</i>)	I	<i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barley), <i>Oryza sativa</i> (padi, paddy), <i>Triticum aestivum</i> (gandum, wheat), <i>Zea mays</i> (jagung, corn) <i>Beckmannia syzigachne</i>	seed, root, stem, leaf, flower, fruit	America: Argentina Asia: China, Japan, Korea

			(american sloughgrass), <i>Eleusine coracana</i> (finger millet), <i>Festuca arundinacea</i> (reed fescue), <i>Lolium multiflorum</i> (Italian ryegrass), <i>Lolium perenne</i> (perennial ryegrass), <i>Panicum miliaceum</i> (millet), <i>Phleum pratense</i> (timothy), <i>Poa annua</i> (annual meadowgrass), <i>Secale cereale</i> (rye), <i>Setaria italica</i> (foxtail millet), <i>Sorghum bicolor</i> (sorghum), <i>Triticum</i> (wheat)		
96.	<i>Rice dwarf phytoreovirus</i> (RDV); (= <i>Rice mosaic virus</i> , <i>Rice dwarf virus</i> , <i>Rice stunt</i> , <i>Oryza virus 1</i>)	I	<i>Oryza sativa</i> (padi, paddy)	tanaman Vector: Hemiptera, Cicadellidae: <i>Nephotettix cincticeps</i> , <i>N. nigropictus</i> , <i>Nephotettix</i> spp., <i>Recilia dorsalis</i>	Asia: China, India, Japan, Korea, Nepal, Philippines, Vietnam Europe: Bulgaria
97.	<i>Rice hoja blanca tenuivirus</i> (RHBV); (= <i>Echinochloa hoja blanca virus</i> , <i>Rice hoja blanca virus</i>)	I	<i>Oryza sativa</i> (padi, paddy), <i>Triticum aestivum</i> (gandum, wheat), <i>Avena sativa</i> (oat, oats) <i>Hordeum vulgare</i> (barli,	tanaman Vector: Hemiptera, Delphacidae:	America: Argentina, Belize, Brazil, Colombia, Costa Rica, Cuba, Dominica, Ecuador, El Salvador, Guatemala, Guyana, Honduras, Mexico,

			barley), <i>Secale cereale</i> (rye)	<i>Tagosodes orizicolus</i>	Panama, Peru, Puerto Rico, Suriname, Trinidad and Tobago, USA, Venezuela
98.	<i>Rice stripe tenuivirus</i> (RSV);(= <i>Rice stripe virus</i>)	I	<i>Oryza sativa</i> (padi, paddy) <i>Zea mays</i> (jagung, corn), <i>Triticum aestivum</i> (gandum, wheat), <i>Avena sativa</i> (oat, oats), <i>Hordeum vulgare</i> (barli, barley), <i>Secale cereale</i> (rye), <i>Panicum miliaceum</i> (rumpu-rumpu)	plant, seed (kontaminan) Vector: <i>Hemiptera</i> , <i>Delphacidae</i> : <i>Laodelphax striatellus</i> , <i>Terthron albobittatum</i> , <i>Unkanodes sapporona</i> , <i>U. albifascia</i>	Asia: Siberia, China, Japan, Korea Europe: Russia
99.	<i>Rice yellow mottle sobemovirus</i> (RYMV);(= <i>Rice yellow mottle virus</i>)	I	<i>Oryza sativa</i> (padi, paddy)	tanaman Vector: Coleoptera, Chrysomelid ae: <i>Sesselia pusilla</i> , <i>Chaetocnema</i> spp., <i>Dactylispa</i> spp., <i>Di cladisa viridicyanea</i> , <i>Trichispa sericea</i> , Chrysomelid	Africa: Burkina Faso, Cameroon, Chad, Ivory Coast, Gambia, Ghana, Guinea-Bissau, Guinea, Kenya, Liberia, Madagascar, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Tanzania: Zanzibar, Zimbabwe

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100.	<i>Rice yellow stunt nucleorhabdovirus</i> (RTYV);(= <i>Rice yellow stunt virus, Rice transitory yellowing virus, Rice transitory yellowing rhabdovirus</i>)	I	<i>Oryza sativa</i> (padi, paddy)	tanaman Vector:Hemi ptera, Cicadellidae: <i>Nephotettix cincticeps, N. nigropictus, N. virescens</i>	Asia: China, Japan, Lao, Taiwan, Thailand, Vietnam,
101.	<i>Rose wilt agent</i> ;(= <i>Rose wilt disease, Rose leaf curl, Rose stunt, Rose dieback, Rose little leaf, Rose spring dwarf</i>)	I	<i>Rosa</i> spp. (mawar, rose)	stem, plant	Africa: South Africa America: USA Oceania: Australia, New Zealand
102.	<i>Satsuma dwarf nepovirus</i> (SDV);(= <i>Citrus mosaic virus, Natsudaidai dwarf virus, Navel orange infectious mottling virus, Citrus satsuma dwarf nepovirus, Citrus (navel orange) infectious mottling virus, Satsuma dwarf virus, Satsuma dwarf sadwavirus</i>)	I	<i>Citrus</i> spp.(jeruk, orange)	mata buds, seed, plant	Asia: China, Iran, Japan, Korea, Turkey
103.	<i>Southern bean mosaic virus</i> (SBMV);(= <i>Southern bean mosaic sobemovirus, Bean southern mosaic virus, Southern bean mosaic virus 1, Bean mosaic virus 4, Marmor laesiofaciens, Phaseolusvirus laedens</i>)	I	<i>Phaseolus vulgaris</i> (common bean), <i>Vigna mungo</i> (black gram), <i>Vigna unguiculata</i> (cowpea) <i>Glycine max</i> (soyabean)	seedling, leaf, seed.	Africa: Benin, ivory coast, Ghana, Morocco, Nigeria, Senegal, Togo, America: Costa Rica, Nicaragua, Mexico, USA, Brazil, Colombia, Venezuela, Asia: China, India, Pakistan, Europe: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan,

					Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, France,
104.	<i>Strawberry crinkle rhabdovirus</i> (SCrV);(= <i>Strawberry crinkle virus, Strawberry latent virus A, Strawberry crinkle cytorhabdovirus, Strawberry latent virus B, Strawberry latent A, (mild form), Strawberry latent A, strawberry latent B, Strawberry lesion A, Strawberry lesion B, Strawberry vein chlorosis</i>)	I	<i>Fragaria ananassa</i> <i>Fragaria</i> sp. (strawberry)	flower, fruit, seedling tanaman	Africa: South Africa America: Canada, Mexico, USA, Brazil, Chile Asia: China, Israel, Japan, Kazakhstan, Korea Europe: Belgium, Bulgaria, Czech, France, Germany, Italy, Netherlands, Poland, Serbia-Montenegro, Slovakia, UK, Scotland Oceania: Australia, Fiji, New Zealand
105.	<i>Strawberry latent C rhabdovirus</i> (STLCV);(= <i>Strawberry latent C virus</i>)	I	<i>Fragaria ananassa,</i> <i>Fragaria vesca</i> (arbei, strawberry) <i>Fragaria</i> sp.	suluran (stolon) Vector: Hemiptera, Aphididae: <i>Chaetosiphon fragaefolii</i>	America: Canada, USA Asia: Japan
106.	<i>Strawberry latent ringspot nepovirus</i> (SLRSV); (= <i>Aesculus line pattern virus, Rhubarb virus 5, Strawberry latent ring spot virus, Strawberry latent ringspot sadwavirus</i>)	I	<i>Apium graveolens,</i> <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Fragaria vesca</i> (arbei, strawberry), <i>Lilium,</i> <i>Narsisus, Prunus americana</i> (aprikot, apricot), <i>Prunus avium,</i>	seed, plant Vector: Dorylaimida, Longidoridae : <i>Xiphinema diversicaudatum, X. coxi,</i>	America: USA Asia: Turkey Europe: Belgium, Czech, Finland, France, Germany, Hungary, Ireland, Italy, Luxembourg, Netherlands, Poland, Portugal, Romania, Spain, Switzerland, UK

			<i>Prunus domesticum</i> (plam, plum), <i>Prunus persica</i> (persik, peach), <i>Rheum hybridum</i> , <i>Ribes nigrum</i> , <i>R. rubrum</i> , <i>Rubus fruticosus</i> , <i>Trifolium repens</i> , <i>Vitis vinifera</i> (anggur, grapevine). <i>Aesculus</i> , <i>Humulus lupulus</i> , <i>Pastinaca sativa</i>	<i>Paralongidorus maximus</i>	(England, Wales), Northern Ireland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia Oceania: Australia
107.	<i>Strawberry mild yellow edge potexvirus</i> (SMYEV);(= <i>Strawberry mild yellow edge disease</i> ; <i>Strawberry yellow edge</i> ; <i>Strawberry mild yellow edge virus</i> ; <i>Strawberry mild yellow edge associated virus</i> ; <i>Strawberry xanthosis</i> ; <i>strawberry virus 2</i>)	I	<i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Fragaria chiloensis</i> (Chilean strawberry), <i>Fragaria ovalis</i> , <i>Fragaria vesca</i> (wild strawberry), <i>Fragaria na</i> (scarlet strawberry (UK))	flower, fruit, seedling tanaman	Africa: South Africa America: Canada, USA, Brazil, Chile, Paraguay Asia: China, Israel, Japan Europe: Belgium, Bulgaria, Czech, France, Germany, Hungary, Ireland, Italy, Netherlands, Poland, Serbia-Montenegro, Slovakia, Switzerland, UK Oceania: Australia, New Zealand
108.	<i>Strawberry vein banding caulimovirus</i> (SVBV);(= <i>Strawberry vein banding virus</i> ; <i>Strawberry virus 5</i>)	I	<i>Fragaria vesca</i> (wild strawberry), <i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry)	leaf, seedling tanaman	America: Canada, USA, Brazil, Chile Asia: China, Japan Europe: Czech, Denmark, Germany, Hungary, Ireland, Italy, Norway, Russia, Serbia, Slovakia, UK Oceania: Australia
109.	<i>Sugarcane bacilliform badnavirus</i> (SCBV);(=	I	<i>Saccharum officinarum</i> (tebu, sugarcane)	buds, stem, shoots	America: Cuba, Morocco, USA

	<i>Sugarcane bacilliform virus)</i>				
110.	<i>Sugarcane mild mosaic virus</i> (SCMMV)	I	<i>Saccharum officinarum</i> (tebu, sugarcane)	root, stem, leaf, flower, fruit Vector: Hemiptera, Pseudococcidae: <i>Saccharicoccus sacchari</i>	Africa: South Africa, Malawi, Madagascar, Mauritius, Chad, Zimbabwe, Tanzania, Zambia America: USA
111.	<i>Sugarcane yellow leaf luteovirus</i> (ScYLV);(= <i>Sugarcane yellow leaf virus</i>)	I	<i>Saccharum officinarum</i> (tebu, sugarcane) <i>S. robustum</i> , <i>S. sinensis</i> , <i>S. spontaneum</i>	stem, stolon, plant Vector: Hemiptera, Aphididae: <i>Melanaphis sacchari</i> , <i>Rhopalosiphum maidis</i>	Africa: Morocco, Uganda, Senegal, Kenya, Zambia, Malawi, Zimbabwe, South Africa, Reunion, Mauritius America: USA, Mexico, Cuba, Dominica, Peru, Brazil, Colombia, Argentina, Hawaii, Jamaica, Barbados, Guatemala, El Salvador Asia: Iran, India, Thailand Oceania: Australia, Papua New Guinea
112.	<i>Tobacco necrosis virus</i> (TNV);(= <i>Tobacco necrosis necrovirus</i> , <i>Bean stipple steak virus</i> , <i>Cucumber necrosis virus</i> , <i>Tulip necrosis virus</i> , <i>Chenopodium necrosis necrovirus</i> <i>cucumber systemic necrosis virus</i>	I	<i>Cucumis sativus</i> (cucumber), <i>Daucus carota</i> (carrot), <i>Phaseolus vulgaris</i> (common bean), <i>Solanum tuberosum</i> (kentang, potato), <i>Tulipa</i> (tulip) <i>Beta vulgaris</i> (beetroot), <i>Cucurbita pepo</i> (ornamental	leaf, root, bulb, tuber, corm, stem, plant.	Africa: South Africa America: Canada, USA, Brazil Asia: China, India, Japan, Turkey Europe: Belgium, Czech Republic, Slovakia, Denmark, Finland, France, Germany, Hungary, Italy, Latvia,

	<i>Euonymus mosaic virus</i> <i>strawberry necrotic rosette virus</i> <i>tulip Augusta disease virus</i>		<i>gourd</i>), <i>Cyamopsis tetragonoloba</i> (<i>guar</i>), <i>Euonymus europaeus</i> , <i>Fragaria ananassa</i> (<i>strawberry</i>), <i>Lactuca sativa</i> (<i>lettuce</i>), <i>Lycopersicon esculentum</i> (<i>tomato</i>), <i>Malus domestica</i> (<i>apple</i>), <i>Nicotiana tabacum</i> (<i>tobacco</i>), <i>Pelargonium</i> (<i>pelargoniums</i>), <i>Pisum sativum</i> (<i>pea</i>), <i>Prunus domestica</i> (<i>plum</i>), <i>Pyrus communis</i> (<i>European pear</i>), <i>Vitis vinifera</i> (<i>grapevine</i>), <i>Echium plantagineum</i> (<i>Paterson's curse</i>), <i>Solanum nigrum</i> (<i>black nightshade</i>) <i>Fraxinus excelsior</i> (<i>ash</i>), <i>Populus tremuloides</i> (<i>trembling aspen</i>)		Netherlands, Norway, Romania, Russian Federation, Spain, Sweden, Switzerland, United Kingdom, Oceania: Australia (Queensland), New Zealand
113.	<i>Tobacco rattle virus</i> (TRV); (= <i>Aster ringspot virus</i> , <i>Belladonna mosaic virus</i> , <i>Potato stem mottle virus</i> , <i>Peony mosaic virus</i> , <i>Peony ringspot virus</i> , <i>Paeony mosaic virus</i> , <i>Paeony ringspot virus</i> , <i>Potato corky ringspot virus</i> , <i>Ratel virus</i> , <i>Tabakmauche virus</i> , <i>Tabakstreifenund Kra</i> , <i>Spinach yellow mottle virus</i> , <i>Tobacco</i>	I	<i>Beta vulgaris</i> var. <i>saccharifera</i> (<i>sugarbeet</i>), <i>Capsicum annuum</i> (<i>bell pepper</i>), <i>Freesia</i> , <i>Gladiolus hybrids</i> (<i>sword lily</i>), <i>Iris</i> (<i>irises</i>), <i>Lilium candidum</i> (<i>madonna lily</i>), <i>Nicotiana tabacum</i> (<i>tobacco</i>), <i>Secale cereale</i> (<i>rye</i>), <i>Solanum tuberosum</i> (<i>potato</i>), <i>Tulipa</i> (<i>tulip</i>)	buds, leaf, stem, bagian vegetatif propagation material.	Africa: Egypt, South Africa, Tunisia America: Cuba, Canada, USA, Bolivia, Brazil Asia: Bangladesh, China, India, Israel, Japan, Korea Republic of (South Korea), Uzbekistan Europe: Austria, Belarus, Belgium, Bulgaria, Czech Republic, Czech Republic and

<p><i>rattle tobavirus, Tobacco rattle virus, Tulip white streak virus, Oregon yellow virus, Spinach yellow mottle, Fraxinus virus</i>)</p>	<p><i>Allium cepa</i> (onion), <i>Allium sativum</i> (garlic), <i>Alstroemeria</i> (Inca lily), <i>Anemone</i> (windflower), <i>Brassica</i> sp., <i>Cyclamen</i>, <i>Cynara cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Fraxinus</i> (ashes), <i>Hosta</i> spp., <i>Lactuca sativa</i> (lettuce), <i>Lilium longiflorum</i> (Easter lily), Narcissus (daffodil), Peperomia, <i>Phaseolus vulgaris</i> (common bean), Phlox, <i>Phlox paniculata</i> (summer perennial phlox) (Wild hosts): <i>Amaranthus</i> (grain amaranth), <i>Artemisia</i> (wormwoods), <i>Artemisia vulgaris</i> (mugwort), <i>Capsella bursa-pastoris</i> (shepherd's purse), <i>Galium mollugo</i> (Hedge bedstraw), Malva (mallow), <i>Physalis</i> (Groundcherry), Plantago (Plantain), <i>Portulaca oleracea</i> (purslane), Rumex (Dock), <i>Solanum nigrum</i> (black nightshade), Sonchus (Sowthistle), <i>Stellaria media</i> (common</p>	<p>Slovakia, Denmark, Finland, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Moldova, Netherlands, Norway, Poland, Russia, Sweden, Switzerland, UK Oceania: Australia, New Zealand</p>
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			chickweed), <i>Tussilago farfara</i> (Colt's-foot), <i>Viola arvensis</i> (feld pansy)		
114.	<i>Tobacco streak ilarvirus</i> (TSV); (= <i>Asparagus stunt virus</i> , <i>Asparagusstunt virus</i> , <i>Black raspberry latent ilarvirus</i> , <i>Black raspberry latent virus</i> , <i>Bean red node strain</i> , <i>Black raspberry latent strain</i> , <i>Datura quercina virus</i> , <i>New logan virus</i> , <i>Nicotiana virus 8</i> , <i>Nicotiana virus vulnerans</i> , <i>Strawberry necrotic shock virus</i> , <i>Tractus orae</i> , <i>Tobacco streak virus</i>)	I	<i>Vigna unguiculata</i> (kacang tunggak, cowpea), <i>Nicotiana tabacum</i> (tembakau, tobacco), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Capsicum annuum</i> (cabai, hot pepper, chilies, red pepper), <i>Glycine max</i> (kedelai, soybean), <i>Fragaria</i> , <i>Asparagus officinalis</i> (asparagus, asparagus), <i>Cynara scolymus</i> , <i>Gossypium herbaceum</i> , <i>Helianthus annuus</i> (bunga matahari, sunflower), <i>Lactuca sativa</i> (letus, lettuce), <i>Medicago sativa</i> , <i>Vigna unguiculata</i> (kacang tunggak, cowpea), <i>Vigna angularis</i> , <i>Pisum sativum</i> , <i>Rubus</i> sp. (black raspberry), <i>Solanum tuberosum</i> (kentang, potato), <i>Trifolium pratense</i> , <i>Carica papaya</i> (pepaya, pawpaw), <i>Cichorium endivia</i> , <i>Cicer arietinum</i> , <i>Cucumis sativus</i>	fruit, flower, leaf, buds, root, stem, seed	Africa: South Africa America: Argentina, Brazil, Canada, Mexico, Peru, USA, Venezuela Asia: China, India, Iran, Israel, Japan, Singapore Europe: Denmark, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, France, Netherlands, Norway, Scotland Oceania: Australia, New Zealand

			(mentimun, cucumber), <i>Cyphomandra betacea</i> , <i>Dahlia</i> , <i>Eustoma grandiflorum</i> , <i>Gladiolus</i> hybrids, <i>Melilotus alba</i> , raspberry, <i>Rubus ursinus</i> , <i>Trigonella foenumgraecum</i>		
115.	<i>Tomato aspermy cucumovirus</i> (TAV);(= <i>Chrysanthemum aspermy virus</i> , <i>Chrysanthemum mild mottle virus</i> , Tomato aspermy cucumovirus, <i>Chrysanthemum mosaic virus</i> , Cucumis virus 1, Lycopersicon virus 7)	I	<i>Chrysanthemum</i> spp. (krisan, chrysant), aster, <i>Capsicum annuum</i> (cabai, hot pepper, chilies, red pepper), <i>Solanum lycopersicum</i> (tomat, tomato), <i>Canna</i> sp., <i>Lilium</i> sp., <i>Mentha spicata</i> , <i>Petunia hybrida</i> , <i>Zinnia elegans</i>	seed, plant Vector: Hemiptera, Aphididae: <i>Myzus persicae</i>	America: Canada, USA Asia: China, India, Japan, Europe: Estonia, Belarus, Latvia, Lithuania, Estonia, Moldova, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgystan, Tajikistan, Turkmenistan, Uzbekistan, Ukraina, Russia, Serbia, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, Macedonia, Poland, Romania Oceania: Australia, New Zealand
116.	<i>Tomato black ring nepovirus</i> (TBRV); (<i>Bean ringspot virus</i> ; <i>Beet ringspot virus</i> ; <i>Lettuce ringspot virus</i> ; <i>Potato bouquet virus</i> ; <i>Potato pseudo-aucuba virus</i> , <i>Tomato black ring virus</i>)	I	<i>Allium cepa</i> (onion), <i>Allium porrum</i> (leek), <i>Apium graveolens</i> (celery), <i>Beta vulgaris</i> var. <i>saccharifera</i> (sugarbeet), <i>Brassica napus</i> var. <i>napobrassica</i> (swede), <i>Brassica rapa</i> subsp. <i>rapa</i> (turnip), <i>Capsicum</i> (peppers), <i>Cucumis sativus</i>	seed, pod, root, stem, leaf, flower, fruit	America: Chile Asia: India, Japan, Turkey Europe: Albania, Belarus, Belgium, Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Greece, Hungary, Ireland, Moldova, Netherlands, Norway, Poland, Romania, Russia, Serbia and Montenegro, Sweden,

			(cucumber), <i>Cynara cardunculus</i> L. var. <i>scolymus</i> (globe artichoke), <i>Fragaria</i> (strawberry), <i>Fragaria ananassa</i> (strawberry), <i>Gladiolus hybrids</i> (sword lily), <i>Lactuca sativa</i> (lettuce), <i>Lycopersicon esculentum</i> (tomato), <i>Narcissus</i> (daffodil), <i>Phaseolus vulgaris</i> (common bean), <i>Prunus persica</i> (peach), <i>Ribes</i> (currants), <i>Rubus</i> (blackberry, raspberry), <i>Solanum melongena</i> (aubergine), <i>Solanum tuberosum</i> (potato), <i>Vitis vinifera</i> (grapevine) <i>Forsythia intermedia</i> (Golden bells), <i>Syringa vulgaris</i> (lilac) (Wild hosts): <i>Capsella bursa-pastoris</i> (shepherd's purse), Herbaceous hosts, <i>Lamium amplexicaule</i> (henbit deadnettle), <i>Sambucus nigra</i> (elder)		Switzerland, UK, Scotland
117.	<i>Tomato ringspot nepovirus</i> (ToRSV);(= <i>Tomato ringspot virus</i> , <i>Prunus stem pitting virus</i> , <i>Blackberry (Himalaya) mosaic</i>	I	<i>Fragaria chiloensis</i> (Chilean strawberry), <i>Malus domestica</i> (apple), <i>Nicotiana tabacum</i>	seed, plant, root, stem, leaf, flower, fruit	Africa: Egypt, Togo, Tunisia America: Puerto Rico, Canada, Mexico, USA, Argentina, Chile, Peru,

<p><i>virus, Nicotiana 13 virus, Tobacco ringspot virus 2, Peach stem pitting virus, Prune brown line virus, Gravelins yellow vein virus, Red currant mosaic virus, Winter peach mosaic virus, Apple union necrotic nepovirus)</i></p>	<p>(tobacco), <i>Pelargonium</i> (pelargoniums), <i>Prunus</i> (stone fruit), <i>Prunus armeniaca</i> (apricot), <i>Prunus avium</i> (sweet cherry), <i>Prunus cerasus</i> (sour cherry), <i>Prunus domestica</i> (plum), <i>Prunus persica</i> (peach), <i>Prunus salicina</i> (Japanese plum), <i>Ribes</i> (currants), <i>Rubus</i> (blackberry, Raspberry), <i>Rubus idaeus</i> (raspberry), <i>Vitis vinifera</i> (grapevine),</p>	<p>Venezuela Asia: China, Iran, Japan, Jordan, South Korea, Oman, Pakistan, Turkey Europe: Belarus, Belgium, Bulgaria, Croatia, Czech, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Lithuania, Netherlands, Norway, Portugal, Russia, Serbia, Montenegro, Slovakia, Slovenia, Sweden, UK Oceania: Australia, New Zealand</p>
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