

**MAF BIOSECURITY NEW ZEALAND**  
**IMPORTING COUNTRIES PHYTOSANITARY**  
**REQUIREMENTS**

**Ecuador**

**Status:    Approved**

**Date:        4 June 2010**

Amendment Record

Amendment No.	Date:	Nature of Amendment:	Approved by
1.	4 June 2010	New ICPR.	GI
2.	17 June 2010	Rewording of MPL section and addition of wording to the scope in general requirements.	GI
3.	15 September 2011	Section 4.4.1 clarifying additional declarations for <i>Bromus catharticus</i> , <i>B. willdenowi</i> , <i>Dactylis glomerata</i> <i>Lolium multiflorum</i> , <i>L. perenne</i> , <i>Trifolium pratense</i> , <i>Trifolium repens</i> , <i>Plantago lanceolata</i> and <i>Plantago</i> spp. Section 2.1 and 4.4.1 Prohibition of <i>Lolium boucheanum</i> seed export.	CB
4.	10 January 2012	Section 2.4 Quarantine Pests – spelling corrected for: <i>Chilo auricilius</i> ; <i>Cydia latiferreana</i> ; <i>Diabrotica barberi</i> ; <i>Oeomona hirta</i> ; <i>Parthenolecanium corni</i> and <i>Cirsium arvense</i> .	CB

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## 1. General Information

### 1.1 For enquires about this standard email the Plant Exports Group:

[plantexports@maf.govt.nz](mailto:plantexports@maf.govt.nz)

To help Plant Exports process your email please record in the subject line of your email descriptive keywords which are relevant to your enquiry i.e. ICPR enquiry-Country-specific details.

For urgent enquiries phone, fax or email the Plant Exports Group

- Telephone: 0800 008 333 (selecting option 3, then option 4) Fax : 64 4 894 0733; or
- Email: [PlantExports](mailto:PlantExports)

### 1.2 Scope

As there are no New Zealand legislative requirements for certification of exported plant products, the technical phytosanitary requirements are determined by the importing country for plant produce being imported into their country. In this respect, ICPRs are MAF's summary of the importing country's legal requirements and thus forms a basis upon which export phytosanitary certification is provided.

Where an importing country operates on the basis of issuing import permits to their importers, the import permit conditions take precedence over any technical conditions contained in the MAF ICPR for that country.

This standard specifies Ecuador's phytosanitary requirements. If a commodity or commodity group is not identified within this ICPR exporters should contact:

- Ecuador directly to ascertain requirements
- or
- MAF Biosecurity New Zealand (MAFBNZ). (Plant Exports)

Please note, the determination and provision of phytosanitary requirements, for a commodity not identified within an ICPR, is undertaken on a cost recovery basis. A link to the list of Plant Exports Fees and Charges is available on <http://www.biosecurity.govt.nz/regs/exports/plants/fees>

Users of this document are strongly advised to review all sections of the ICPR for the determination of a commodity's phytosanitary requirements.

### 1.3 Phytosanitary Legislation

The following legislation controls the importation of plants and plant materials into Ecuador:

## 2. General Requirements

### 2.1 Prohibitions

#### 2.1.1

<u>Scientific Name</u>	<u>Plant Part Prohibited</u>
<u><i>Lolium boucheanum</i></u>	<u>Seed for sowing</u> (MAF is currently negotiating this prohibition, August 2011).

## 2.2 Phytosanitary Import Permits

2.2.1 MAFBNZ believes that most commodities require an import permit and a phytosanitary certificate.

2.2.2 Phytosanitary conditions of import may be requested from:

Francisco A. Jácome Robalino

Director Ejecutivo de AGROCALIDAD

Agencia Ecuatoriana de Aseguramiento de la Calidad de Agro-CALIDAD

Av. Eloy Alfaro y Amazonas

Edificio MAGAP, piso 9

Quito

Ecuador

(593) 2 2567 232 / 2

(593) 2 2544 472 ext 102, 106

[direccion@agrocalidad.gov.ec](mailto:direccion@agrocalidad.gov.ec);

Website:

<http://www.agrocalidad.gov.ec>

## 2.3 Phytosanitary Certificates

Phytosanitary certificates are required to accompany all consignments of plants and plant material from New Zealand.

## 2.4 Quarantine Pests

### ANNEX 1

### LIST OF PESTS NOT PRESENT IN ECUADOR

#### MITES

1. *Aculus fockeui* (Acarina: Eryophidae)
2. *Brevipalpus californicus* (Acarina: Tenuipalpidae)
3. *Bryobia rubrioculus* (Acarina: Tetranychidae)
4. *Epirimerus pyri* (Acarina: Eryophidae)
5. *Eutetranychus orientalis* (Acarina: Tetranychidae)
6. *Oligonychus perditus* (Acarina: Tetranychidae)
7. *Panonychus ulmi* (Acarina: Tetranychidae)
8. *Tetranychus kanzawai* (Acarina: Tetranychidae)

#### BACTERIA

9. *Acidovorax avenae* subsp. *avenae* (Burkholderiales: Comamonadaceae)
10. *Acidovorax avenae* subsp. *canleyae* (Burkholderiales: Comamonadaceae)
11. *Acidovorax avenae* subsp. *citulli* (Burkholderiales: Comamonadaceae)
12. *Brenneria salicis* (Enterobacteriales: Enterobacteriaceae)
13. *Burkholderia andropogonis* (Burkholderiales: Burkholderiaceae)
14. *Burkholderia caryophylli* (Burkholderiales: Burkholderiaceae)

15. *Burkholderia gladioli* pv. *gladioli* (Burkholderiales: Burkholderiaceae)
16. *Clavibacter michiganensis* subsp. *insidiosus* (Actinomycetales: Microbacteriaceae)
17. *Clavibacter michiganensis* subsp. *nebraskensis* (Actinomycetales: Microbacteriaceae)
18. *Clavibacter michiganensis* subsp. *sepedonicus* (Actinomycetales: Microbacteriaceae)
19. *Curtobacterium flaccumfaciens* pv. *flaccumfaciens* (Actinomycetales: Microbacteriaceae)
20. *Erwinia tracheiphila* (Enterobacteriales: Enterobacteriaceae)
21. *Pectobacterium chrysanthemi* (Enterobacteriales: Enterobacteriaceae)
22. *Pectobacterium cyripedie* (Enterobacteriales: Enterobacteriaceae)
23. *Pectobacterium rhapontid* (Enterobacteriales: Enterobacteriaceae)
24. *Pseudomonas amygdale* (Pseudomonadales: Pseudomonadaceae)
25. *Pseudomonas cichorii* (Pseudomonadales: Pseudomonadaceae)
26. *Pseudomonas marginalis* pv. *marginalis* (Pseudomonadales: Pseudomonadaceae)
27. *Pseudomonas savastanoi* pv. *glycinea* (Pseudomonadales: Pseudomonadaceae)
28. *Rathayibacter rathayi* (Actinomycetales: Microbacteriaceae)
29. *Rathayibacter tritici* (Actinomycetales: Microbacteriaceae)
30. *Rhizobium rhizogenes* (Rhizobiales: Rhizobiaceae)
31. *Rhodococcus fascians* (Actinomycetales: Nocardiaceae)
32. *Streptomyces ipomoeae* (Actinomycetales: Streptomycetaceae)
33. *Xanthomonas arboricola* pv. *corylina* (Xanthomonadales: Xanthomonadaceae)
34. *Xanthomonas arboricola* pv. *pruni* (Xanthomonadales: Xanthomonadaceae)
35. *Xanthomonas axonopodis* pv. *alfalfae* (Xanthomonadales: Xanthomonadaceae)
36. *Xanthomonas axonopodis* pv. *begoniae* (Xanthomonadales: Xanthomonadaceae)
37. *Xanthomonas axonopodis* pv. *citri* (Xanthomonadales: Xanthomonadaceae)
38. *Xanthomonas axonopodis* pv. *dieffenbachiae* (Xanthomonadales: Xanthomonadaceae)
39. *Xanthomonas axonopodis* pv. *glycines* (Xanthomonadales: Xanthomonadaceae)
40. *Xanthomonas axonopodis* pv. *manihotis* (Xanthomonadales: Xanthomonadaceae)
41. *Xanthomonas axonopodis* pv. *ricini* (Xanthomonadales: Xanthomonadaceae)
42. *Xanthomonas axonopodis* pv. *vasculorum* (Xanthomonadales: Xanthomonadaceae)
43. *Xanthomonas campestris* pv. *citrumelo* (Xanthomonadales: Xanthomonadaceae)
44. *Xanthomonas campestris* pv. *juglandis* (Xanthomonadales: Xanthomonadaceae)
45. *Xanthomonas campestris* pv. *mangiferaeindicae* (Xanthomonadales: Xanthomonadaceae)
46. *Xanthomonas campestris* pv. *sesame* (Xanthomonadales: Xanthomonadaceae)
47. *Xanthomonas cucurbitae* (Xanthomonadales: Xanthomonadaceae)
48. *Xanthomonas fragariae* (Xanthomonadales: Xanthomonadaceae)
49. *Xanthomonas hortorum* pv. *carotae* (Xanthomonadales: Xanthomonadaceae)
50. *Xanthomonas oryzae* pv. *oryzicola* (Xanthomonadales: Xanthomonadaceae)
51. *Xanthomonas translucens* pv. *translucens* (Xanthomonadales: Xanthomonadaceae)
52. *Xanthomonas vasicola* pv. *holcicola* (Xanthomonadales: Xanthomonadaceae)
53. *Xanthomonas vesicaloria* (Xanthomonadales: Xanthomonadaceae)
54. *Xylella fastidiosa* (Xanthomonadales: Xanthomonadaceae)
55. *Xylophilus ampelinus* (Pseudomonadales: Pseudomonadaceae)

## CHROMISTA

56. *Peronosclerospora maydis* (Oomycetes: Peronosporales)
57. *Peronosclerospora philippinensis* (Oomycetes: Peronosporales)
58. *Peronosclerospora sacchari* (Oomycetes: Peronosporales)
59. *Peronosclerospora sorghi* (Oomycetes: Peronosporales)

60. *Peronosclerospora spontanea* (Oomycetes: Peronosporales)
61. *Peronospora hyoscyami* f. sp. *tabacina* (Oomycetes: Peronosporales)
62. *Phytophthora boehmeriae* (Oomycetes: Peronosporales)
63. *Phytophthora citricola* (Oomycetes: Peronosporales)
64. *Phytophthora fragariae* var. *rubi* (Oomycetes: Peronosporales)
65. *Phytophthora lateralis* (Oomycetes: Peronosporales)
66. *Phytophthora megasperma* (Oomycetes: Peronosporales)
67. *Phytophthora porri* (Oomycetes: Peronosporales)
68. *Phytophthora sojae* (Oomycetes: Peronosporales)
69. *Phytophthora vignae* (Oomycetes: Peronosporales)
70. *Plasmopara halstedii* (Oomycetes: Peronosporales)
71. *Pythium deliense* (Oomycetes: Pythiales)
72. *Pythium graminicola* (Oomycetes: Pythiales)
73. *Pythium myriotylum* (Oomycetes: Pythiales)
74. *Sclerophthora macrospora* (Oomycetes: Peronosporales)
75. *Sclerospora graminicola* (Oomycetes: Peronosporales)

## **GASTROPODA**

76. *Theba pisana* (Gastropoda: Helicidae)

## **FUNGI**

77. *Alternaria brassicicola* (Dothideomycetes: Pleosporales)
78. *Alternaria gaisen* (Dothideomycetes: Pleosporales)
79. *Alternaria helianthi* (Dothideomycetes: Pleosporales)
80. *Alternaria mali* (Dothideomycetes: Pleosporales)
81. *Alternaria radicina* (Dothideomycetes: Pleosporales)
82. *Apiognomonina erythrostoma* (Sordariomycetes: Diaporthales)
83. *Apiosporina morbosa* (Dothideomycetes: Pleosporales)
84. *Ascochyta rabie* (Dothideomycetes)
85. *Atropellis pinicola* (Ascomycetes: Heliotidales)
86. *Atropellis piniphila* (Ascomycetes: Heliotidales)
87. *Balansia oryzae-sativae* (Hypocreales)
88. *Bipolaris incurvata* (Dothideomycetes: Pleosporales)
89. *Bipolaris victoriae* (Dothideomycetes: Pleosporales)
90. *Botryosphaeria berengeriana* f. sp. *pirycola* (Dothideomycetes: Bostryosphaeriales)
91. *Botryosphaeria laricina* (Dothideomycetes: Bostryosphaeriales)
92. *Botryotinia porri* (Leotiomyces: Helotiales)
93. *Botrytis tulipae* (Leotiomyces: Helotiales)
94. *Ceratocystis fagacearum* (Sordariomycetes: Microascales)
95. *Ceratocystis virescens* (Sordariomycetes: Microascales)
96. *Cercospora bataticola* (Dothideomyces: Capnodiales)
97. *Cercospora elaeidis* (Dothideomyces: Capnodiales)
98. *Claviceps africana* (Sordariomycetes: Hypocreales)
99. *Claviceps gigantean* (Sordariomycetes: Hypocreales)
100. *Cochliobolus carbonum* (Dothideomycetes: Pleosporales)
101. *Cochliobolus victoriae* (Dothideomycetes: Pleosporales)
102. *Colletotrichum dematium* (Sordariomycetes: Sordariomycetes)
103. *Colletotrichum destructivum* (Sordariomycetes: Sordariomycetes)
104. *Colletotrichum fragariae* (Sordariomycetes: Sordariomycetes)
105. *Colletotrichum kahawae* (Sordariomycetes: Sordariomycetes)
106. *Coniella diplodiella* (Sordariomycetes: Diaporthales)
107. *Cronartium comandrae* (Pucciniomycetes: Pucciniales)
108. *Cronartium comptoniae* (Pucciniomycetes: Pucciniales)
109. *Cronartium ribicola* (Pucciniomycetes: Pucciniales)

110. *Cryphonectria cubensis* (Sordariomycetes: Diaporthales)
111. *Cryphonectria parasitica* (Sordariomycetes: Diaporthales)
112. *Diaporthe vaccinii* (Sordariomycetes: Diaporthales)
113. *Didymella bryoniae* (Dothideomycetes: Dothideomycetes)
114. *Didymella lentis* (Dothideomycetes: Dothideomycetes)
115. *Didymella ligulicola* (Dothideomycetes: Dothideomycetes)
116. *Didymella rabiei* (Dothideomycetes: Dothideomycetes)
117. *Diplocarpon earlianum* (Ascomycetes: Heliotidales)
118. *Discosphaerina fulvida* (Dothideomycetes: Mycosphaerellaceae)
119. *Elsinoe australis* (Dothideomycetes: Myriangiales)
120. *Elsinoe batatas* (Dothideomycetes: Myriangiales)
121. *Elsinoe brasiliensis* (Dothideomycetes: Myriangiales)
122. *Elsinoe venera* (Dothideomycetes: Myriangiales)
123. *Endocronartium harknessii* (Pucciniomycetes: Pucciniales)
124. *Entyloma dahliae* (Enxobasidiomycetes: Entylomatales)
125. *Eutypa lata* (Sordariomycetes: Xylariales)
126. *Fusarium oxysporum* f. sp. *albedinis* (Sordariomycetes: Hypocreales)
127. *Fusarium oxysporum* f. sp. *chrysanthemi* (Sordariomycetes: Hypocreales)
128. *Fusarium oxysporum* f. sp. *conglutinaos* (Sordariomycetes: Hypocreales)
129. *Fusarium oxysporum* f. sp. *cucumerinum* (Sordariomycetes: Hypocreales)
130. *Fusarium oxysporum* f. sp. *fragariae* (Sordariomycetes: Hypocreales)
131. *Fusarium oxysporum* f. sp. *gladioli* (Sordariomycetes: Hypocreales)
132. *Fusarium oxysporum* f. sp. *melonis* (Sordariomycetes: Hypocreales)
133. *Ganoderma philippii* (Agaricomycetes: Agaricomycetes)
134. *Gibberella avenacea* (Sordariomycetes: Hypocreales)
135. *Gibberella xylarioides* (Sordariomycetes: Hypocreales)
136. *Gloeotinia granigena* (Leotiomycetes: Helotiales)
137. *Gnomonia coman* (Sordariomycetes: Diaporthales)
138. *Gremmeniella abietina* (Leotiomycetes: Helotiales)
139. *Guignardia bidwellii* (Dothideomycetes: Bostryosphaeriales)
140. *Guignardia citricarpa* (Dothideomycetes: Bostryosphaeriales)
141. *Guignardia musae* (Dothideomycetes: Bostryosphaeriales)
142. *Gymnosporangium asiaticum* (Pucciniomycetes: Pucciniales)
143. *Gymnosporangium clavipes* (Pucciniomycetes: Pucciniales)
144. *Gymnosporangium fuscum* (Pucciniomycetes: Pucciniales)
145. *Gymnosporangium globosum* (Pucciniomycetes: Pucciniales)
146. *Gymnosporangium juniperi-virginianae* (Pucciniomycetes: Pucciniales)
147. *Gymnosporangium yamadae* (Pucciniomycetes: Pucciniales)
148. *Haplobasidion musae* (Incertae sedis)
149. *Hemileia coffeicola* (Uredinales)
150. *Hypoxylon mammatum* (Sordariomycetes: Xylariales)
151. *Inonotus weirii* (Agaricomycetes: Agaricomycetes)
152. *Kabatiella zaeae* (Dothideomycetes)
153. *Leptographium wagneri* (Sordariomycetes: Ophiostomatales)
154. *Leptosphaeria coniothyrium* (Dothideomycetes: Pleosporales)
155. *Ligniera vasculorum* (Plasmodiaphorales)
156. *Lophodermium pinastri* (Leotiomycetes: Rhytirnatales)
157. *Marasmiellus cocophilus* (Agaricomycetes: Agaricales)
158. *Marasmiellus scandens* (Agaricomycetes: Agaricales)
159. *Marasmius crinis-equi* (Agaricomycetes: Agaricales)
160. *Melampsora farlowii* (Pucciniomycetes: Pucciniales)
161. *Melampsora medusae* (Pucciniomycetes: Pucciniales)
162. *Microdochium panattonianum* (Dothideomycetes)
163. *Monilla fructigena* (Leotiomycetes: Helotiales)
164. *Monilinia vaccinii-corymbosi* (Leotiomycetes: Helotiales)

165. *Monilochaetes infuscans* (incertae sedis)
166. *Mycosphaerella allii-cepae* (Dothideomycetes: Capnodiales)
167. *Mycosphaerella citri* (Dothideomycetes: Capnodiales)
168. *Mycosphaerella dearnessii* (Dothideomycetes: Capnodiales)
169. *Mycosphaerella eumusae* (Dothideomycetes: Capnodiales)
170. *Mycosphaerella gibsonii* (Dothideomycetes: Capnodiales)
171. *Mycosphaerella laricis-leptolepidis* (Dothideomycetes: Capnodiales)
172. *Mycosphaerella populorum* (Dothideomycetes: Capnodiales)
173. *Nectria galligena* (Sordariomycetes: Hypocreales)
174. *Nematospora coryli* (Sacchromycetes: Sacchromycetales)
175. *Neotyphodium coenophialum* (Sordariomycetes: Hypocreales)
176. *Oncobasidium theobromae* (Ceratobasidiales)
177. *Passalora sojina* (Dothideomycetes: Capnodiales)
178. *Periconia circinata* (Sordariomycetes: Halosphaeriales)
179. *Pezicula malicorticis* (Leotiomycetes: Helotiales)
180. *Phaeoramularia angolensis* (Dothideomycetes: Capnodiales)
181. *Phakopsora euvitis* (Pucciniomycetes: Pucciniales)
182. *Phellinus noxis* (Agaricomycetes: Hymenochaetales)
183. *Phialophora cinerescens* (Sordariomycetes: Sordariomycetes)
184. *Phoma tracheiphila*
185. *Phomopsis viticola* (Sordariomycetes: Diaporthales)
186. *Phyllosticla solitaria* (Dothideomycetes: Dothideomycetes)
187. *Phymatotrichopsis omnivore* (Pezizomycetes: Pezizales)
188. *Physoderma leproides* (Blastocladiomycetes: Blastocladiales)
189. *Pleospora betae* (Dothideomycetes: Pleosporales)
190. *Polyscytalum pustulans* (Sordariomycetes: Sordariomycetes)
191. *Pseudocercospora fuligena* (Mycosphaerellales)
192. *Pseudocercospora herpotrichoides* (Leotiomycetes: Helotiales)
193. *Puccinia allii* (Pucciniomycetes: Pucciniales)
194. *Puccinia cacabata* (Pucciniomycetes: Pucciniales)
195. *Puccinia substriata* var. *penicillariae* (Pucciniomycetes: Pucciniales)
196. *Pyrenopeziza brassicae* (Leotiomycetes: Helotiales)
197. *Ramularia oryzae* (Hongo anamórfico)
198. *Rhizoctonia tuliparum* (Agaricomycetes: Agaricomycetes)
199. *Rigidoporus microporus* (Agaricomycetes: Agaricomycetes)
200. *Rosellinia arcuata* (Sordariomycetes: Xylariales)
201. *Sclerotinia borealis* (Leotiomycetes: Helotiales)
202. *Sphaceloma arachidis* (Hongo anamórfico)
203. *Sphaceloma poinsettiae* (Hongo anamórfico)
204. *Sporisorium cruentum* (Ustilaginales: Ustilaginaceae)
205. *Stereum hirsutum* (Agaricomycetes: Agaricomycetes)
206. *Tilletia controversa* (Exobasidiomycetes: Tilletiales)
207. *Tilletia indica* (Exobasidiomycetes: Tilletiales)
208. *Urocystis agropyri* (Ustilaginomycetes: Urocystales)
209. *Uromyces coronatus* (Pucciniomycetes: Pucciniales)
210. *Uromyces transversals* (Pucciniomycetes: Pucciniales)
211. *Ustilago violacea* (Ustilaginomycetes: Ustilaginales)
212. *Venturia cerasi* (Dothideomycetes: Pleosporales)
213. *Venturia nashicola* (Dothideomycetes: Pleosporales)

## INSECTS

214. *Acrobasis pyrivorella* (Lepidoptera: Pyralidae)
215. *Acrolepiopsis assectella* (Lepidoptera: Acrolepiidae)
216. *Adelges piceae* (Hemiptera: Adelgidae)
217. *Adoretus versutus* (Coleoptera: Scarabaeidae)

218. *Adoxophyes orana* (Lepidoptera: Tortricidae)
219. *Agrilus mali* (Coleoptera: Buprestidae)
220. *Agriotus lineatus* (Coleoptera: Elateridae)
221. *Agriotus obscurus* (Coleoptera: Elateridae)
222. *Agriotus sputator* (Coleoptera: Elateridae)
223. *Agrius convolvuli* (Lepidoptera: Sphingidae)
224. *Agromyza oryzae* (Diptera: Agromyzidae)
225. *Ahasverus advena* (Coleoptera: Silvanidae)
226. *Aleurocanthus spiniferus* (Hemiptera: Aleyrodidae)
227. *Amauromyza* spp. (Diptera: Agromyzidae)
228. *Amphimallon majalis* (Coleoptera: Scarabaeidae)
229. *Amrasca biguttula biguttula* (Hemiptera: Cicadellidae)
230. *Amyelois transitella* (Lepidoptera: Pyralidae)
231. *Anarsia lineatella* (Lepidoptera: Gelechiidae)
232. *Anastrepha ludens* (Diptera: Tephritidae)
233. *Anastrepha suspense* (Diptera: Tephritidae)
234. *Antestiopsis orbitalis* (Hemiptera: Pentatomidae)
235. *Anthonomus bisignifer* (Coleoptera: Curculionidae)
236. *Anthonomus eugenii* (Coleoptera: Curculionidae)
237. *Anthonomus grandis* (Coleoptera: Curculionidae)
238. *Anthonomus pomorum* (Coleoptera: Curculionidae)
239. *Anthonomus quadrigibbus* (Coleoptera: Curculionidae)
240. *Anthonomus signatus* (Coleoptera: Curculionidae)
241. *Antigastra catalaunalis* (Lepidoptera: Crambidae)
242. *Aonidiella aurantii* (Hemiptera: Diaspididae)
243. *Aonidiella citrina* (Hemiptera: Diaspididae)
244. *Apate monachus* (Coleoptera: Bostrichidae)
245. *Athalia rosae* (Hymenoptera: Tenthredinidae)
246. *Atherigona oryzae* (Diptera: Muscidae)
247. *Autographa gamma* (Lepidoptera: Noctuidae)
248. *Bactrocera* spp. (Diptera: Tephritidae)
249. *Bagrada hilaris* (Hemiptera: Pentatomidae)
250. *Batocera* spp. (Coleoptera: Cerambycidae)
251. *Blitopertha orientalis* (Coleoptera: Scarabaeidae)
252. *Brachycerus albidentatus* (Coleoptera: Curculionidae)
253. *Brachycerus muricatus* (Coleoptera: Curculionidae)
254. *Brachycerus undatus* (Coleoptera: Curculionidae)
255. *Bruchus* spp. (Coleoptera: Bruchidae)
256. *Busseola fusca* (Lepidoptera: Noctuidae)
257. *Byturus tomentosus* (Coleoptera: Byturidae)
258. *Cacoecimorpha pronubana* (Lepidoptera: Tortricidae)
259. *Cacopsylla pyri* (Hemiptera: Psyllidae)
260. *Cacopsylla pyrisuga* (Hemiptera: Psyllidae)
261. *Cacyreus marshalli* (Lepidoptera: Lycaenidae)
262. *Callosobruchus chinensis* (Coleoptera: Bruchidae)
263. *Capnodis tenebrionis* (Coleoptera: Buprestidae)
264. *Carpomya pardalina* (Diptera: Tephritidae)
265. *Carposina sasakii* (Lepidoptera: Carposinidae)
266. *Caulophilus oryzae* (Coleoptera: Curculionidae)
267. *Ceroplastes ceriferus* (Hemiptera: Coccidae)
268. *Ceroplastes destructor* (Hemiptera: Coccidae)
269. *Ceroplastes japonicus* (Hemiptera: Coccidae)
270. *Ceroplastes pseudoceriferus* (Hemiptera: Coccidae)
271. *Ceroplastes rubens* (Hemiptera: Coccidae)
272. *Ceutorhynchus pleurostigma* (Coleoptera: Curculionidae)

273. *Chaetosiphon fragaefolii* (Hemiptera: Aphididae)
274. *Chilo auricilius* (Lepidoptera: Crambidae)
275. *Chilo infuscatellus* (Lepidoptera: Crambidae)
276. *Chilo partellus* (Lepidoptera: Crambidae)
277. *Chilo sacchariphagus* (Lepidoptera: Crambidae)
278. *Chilo suppressalis* (Lepidoptera: Crambidae)
279. *Choristoneura conflictana* (Lepidoptera: Tortricidae)
280. *Choristoneura fumiferana* (Lepidoptera: Tortricidae)
281. *Choristoneura occidentalis* (Lepidoptera: Tortricidae)
282. *Choristoneura rosaceana* (Lepidoptera: Tortricidae)
283. *Chromatomyia horticola* (Diptera: Agromyzidae)
284. *Cnephasia longana* (Lepidoptera: Tortricidae)
285. *Cofias lesbian* (Lepidoptera: Pieridae)
286. *Conogethes punctiferalis* (Lepidoptera: Crambidae)
287. *Conopomorpha cramerella* (Lepidoptera: Gracillariidae)
288. *Conopomorpha sinensis* (Lepidoptera: Gracillariidae)
289. *Conotrachelus aguacatae* (Coleoptera: Curculionidae)
290. *Conotrachelus perseae* (Coleoptera: Curculionidae)
291. *Contarinia nasturtii* (Diptera: Cecidomyiidae)
292. *Contarinia tritici* (Diptera: Cecidomyiidae)
293. *Coptotermes testaceus* (Isoptera: Rhinotermitidae)
294. *Corcyra cephalonica* (Lepidoptera: Pyralidae)
295. *Crocidolomia binotalis* (Lepidoptera: Crambidae)
296. *Cryptolestes pusillus* (Coleoptera: Cucujidae)
297. *Cryptophlebia illepida* (Lepidoptera: Tortricidae)
298. *Cryptophlebia leucotreta* (Lepidoptera: Tortricidae)
299. *Cryptophlebia ombrodelta* (Lepidoptera: Tortricidae)
300. *Cryptorhynchus lapathi* (Coleoptera: Curculionidae)
301. *Cydia funebrana* (Lepidoptera: Tortricidae)
302. *Cydia latiferreana* (Lepidoptera: Tortricidae)
303. *Cydia molesta* (Lepidoptera: Tortricidae)
304. *Cydia pomonella* (Lepidoptera: Tortricidae)
305. *Cydia splendana* (Lepidoptera: Tortricidae)
306. *Dasineura mali* (Diptera: Cecidomyiidae)
307. *Delia antiqua* (Diptera: Cecidomyiidae)
308. *Delia coarctata* (Diptera: Anthomyiidae)
309. *Dendroctonus adjunctus* (Coleoptera: Scolytidae)
310. *Dendroctonus brevicomis* (Coleoptera: Scolytidae)
311. *Dendroctonus frontales* (Coleoptera: Scolytidae)
312. *Diabrotica barberi* (Coleoptera: Chrysomelidae)
313. *Diabrotica virgifera virgifera* (Coleoptera: Chrysomelidae)
314. *Diaphorina citri* (Hemiptera: Psyllidae)
315. *Diaprepes abbreviatus* (Coleoptera: Curculionidae)
316. *Didadispa armiguera* (Coleoptera: Chrysomelidae)
317. *Diparopsis castanea* (Lepidoptera: Noctuidae)
318. *Distantiella theobroma* (Hemiptera: Miridae)
319. *Diuraphis noxia* (Hemiptera: Aphididae)
320. *Dociostaurus maroccanus* (Orthoptera: Acrididae)
321. *Dryocoetes confuses* (Coleoptera: Scolytidae)
322. *Dysdercus fulvioniger discolour* (Hemiptera: Pyrrhocoridae)
323. *Dyspessa ulula* (Lepidoptera: Cossidae)
324. *Earias biplaga* (Lepidoptera: Noctuidae)
325. *Earias insulana* (Lepidoptera: Noctuidae)
326. *Earias vittella* (Lepidoptera: Noctuidae)
327. *Empoasca vitis* (Hemiptera: Cicadellidae)

328. *Epicaerus cognatus* (Coleoptera: Curculionidae)
329. *Epicauta vittata* (Coleoptera: Meloidae)
330. *Epichoristodes acerbella* (Lepidoptera: Tortricidae)
331. *Epidiaspis leperii* (Hemiptera: Diaspididae)
332. *Epiphyas postvittana* (Lepidoptera: Tortricidae)
333. *Erosomyia mangiferae* (Diptera: Cecidomyiidae)
334. *Eulecanium tillae* (Hemiptera: Coccidae)
335. *Eumeta variegata* (Lepidoptera: Psychidae)
336. *Eupoecilia ambiguella* (Lepidoptera: Tortricidae)
337. *Euproctis chrysorrhoea* (Lepidoptera: Lymantriidae)
338. *Euproctis similis* (Lepidoptera: Lymantriidae)
339. *Eurygaster integriceps* (Hemiptera: Psyllidae)
340. *Eutinobothrus brasiliensis* (Coleoptera: Curculionidae)
341. *Frankliniella cestrum* (Thysanoptera: Thripidae)
342. *Fulmekiola serrara* (Thysanoptera: Thripidae)
343. *Gilpinia hercyniae* (Hymenoptera: Diprionidae)
344. *Gnathotrichus sulcatus* (Coleoptera: Scolytidae)
345. *Gnorimoschema heliopa* (Lepidoptera: Gelechiidae)
346. *Gonipterus gibberus* (Coleoptera: Curculionidae)
347. *Gonipterus scutellatus* (Coleoptera: Curculionidae)
348. *Grapholita inopinata* (Lepidoptera: Tortricidae)
349. *Grapholita packardi* (Lepidoptera: Tortricidae)
350. *Grapholita prunivora* (Lepidoptera: Tortricidae)
351. *Gryllotalpa africana* (Orthoptera: Gryllotalpidae)
352. *Heilipus lauri* (Coleoptera: Curculionidae)
353. *Helicomya saliciperda* (Diptera: Cecidomyiidae)
354. *Helicoverpa armigera* (Lepidoptera: Noctuidae)
355. *Heliothrips bicinctus* (Thysanoptera: Thripidae)
356. *Helopeltis bergrothi* (Hemiptera: Miridae)
357. *Henosepilachna elaterii* (Coleoptera: Coccinellidae)
358. *Heterobostrychus aequalis* (Coleoptera: Bostrichidae)
359. *Hieroglyphus banian* (Orthoptera: Acrididae)
360. *Hoplocampa testudinea* (Hymenoptera: Tenthredinidae)
361. *Horcias nobilellus* (Hemiptera: Miridae)
362. *Hylobius abietis* (Coleoptera: Curculionidae)
363. *Hylotrupes bajulus* (Coleoptera: Cerambycidae)
364. *Hylurgops palliates* (Coleoptera: Scolytidae)
365. *Hyphantria cunea* (Lepidoptera: Arctiidae)
366. *Icerya seychellarum* (Hemiptera: Margarodidae)
367. *Ips* spp. (Coleoptera: Curculionidae y Scolytidae)
368. *Jacobiasca lybica* (Hemiptera: Cicadellidae)
369. *Lampides boeticus* (Lepidoptera: Lycaenidae)
370. *Lamprosema diemenalis* (Lepidoptera: Crambidae)
371. *Lawana imitara* (Hemiptera: Flatidae)
372. *Lepidosaphes ulmi* (Hemiptera: Diaspididae)
373. *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae)
374. *Leucinodes orbonalis* (Lepidoptera: Crambidae)
375. *Leucoptera malifoliella* (Lepidoptera: Lyonetiidae)
376. *Lissorhoptrus oryzophilus* (Coleoptera: Curculionidae)
377. *Listroderes costirostris* (Coleoptera: Curculionidae)
378. *Listronotus bonariensis* (Coleoptera: Curculionidae)
379. *Lobesia botrana* (Lepidoptera: Tortricidae)
380. *Lopholeucaspis japonica* (Hemiptera: Diaspididae)
381. *Lygus lineolaris* (Hemiptera: Miridae)
382. *Lymantria dispar* (Lepidoptera: Lymantriidae)

383. *Lymantria monacha* (Lepidoptera: Lymantriidae)
384. *Maconellicoccus hirsutus* (Hemiptera: Pseudococcidae)
385. *Malacosoma disstria* (Lepidoptera: Lasiocampidae)
386. *Malacosoma neustria* (Lepidoptera: Lasiocampidae)
387. *Mamestra brassicae* (Lepidoptera: Noctuidae)
388. *Matsucoccus feytaudi* (Hemiptera: Matsucoccidae)
389. *Mayetiola destructor* (Diptera: Cecidomyiidae)
390. *Megalurothrips distalis* (Thysanoptera: Thripidae)
391. *Megastes grandalis* (Lepidoptera: Pyralidae)
392. *Megastigmus spermotrophus* (Hymenoptera: Torymidae)
393. *Melanaspis glomerata* (Hemiptera: Diaspididae)
394. *Monacrostichus citricola* (Diptera: Tephritidae)
395. *Monochamus* spp. (Coleoptera: Cerambycidae)
396. *Mussidia nigrivenella* (Lepidoptera: Pyralidae)
397. *Myndus crudus* (Hemiptera: Cixiidae)
398. *Naupactus leucoloma* (Coleoptera: Curculionidae)
399. *Naupactus xanthographus* (Coleoptera: Curculionidae)
400. *Neoceratitis cyanescens* (Diptera: Tephritidae)
401. *Neodiprion sertifer* (Hymenoptera: Diprionidae)
402. *Oeomona hirta* (Coleoptera: Cerambycidae)
403. *Onrphisa anastomosalis* (Lepidoptera: Crambidae)
404. *Operophtera brumata* (Lepidoptera: Geometridae)
405. *Orgyia pseudotsugata* (Lepidoptera: Lymantriidae)
406. *Orseolia oryzae* (Diptera: Cecidomyiidae)
407. *Orthotomicus erosus* (Coleoptera: Scolytidae)
408. *Oscinella frit* (Diptera: Chloropidae)
409. *Ostrinia nubilalis* (Lepidoptera: Crambidae)
410. *Otiorhynchus ovatus* (Coleoptera: Curculionidae)
411. *Otiorhynchus sulcatus* (Coleoptera: Curculionidae)
412. *Oulema melanopus* (Coleoptera: Chrysomelidae)
413. *Oulema oryzae* (Coleoptera: Chrysomelidae)
414. *Palpita unionalis* (Lepidoptera: Crambidae)
415. *Pandemis heparana* (Lepidoptera: Tortricidae)
416. *Parabemisia myricae* (Hemiptera: Aleyrodidae)
417. *Paranthrene tabaniformis* (Lepidoptera: Sesiidae)
418. *Parapoynx stagnalis* (Lepidoptera: Pyralidae)
419. *Parlatoria oleae* (Hemiptera: Diaspididae)
420. *Parlatoria ziziphi* (Hemiptera: Diaspididae)
421. *Parthenolecanium corni* (Hemiptera: Coccidae)
422. *Parthenolecanium persicae* (Hemiptera: Coccidae)
423. *Pdopidas mathias* (Lepidoptera: Hesperidae)
424. *Phenacoccus manihoti* (Hemiptera: Pseudococcidae)
425. *Phoracantha recurva* (Coleoptera: Cerambycidae)
426. *Piesma quadratum* (Hemiptera: Piesmatidae)
427. *Pissodes castaneus* (Coleoptera: Curculionidae)
428. *Planococcus kenya* (Hemiptera: Pseudococcidae)
429. *Popillia japonica* (Coleoptera: Scarabaeidae)
430. *Prays citri* (Lepidoptera: Yponomeutidae)
431. *Prays oleae* (Lepidoptera: Yponomeutidae)
432. *Premnotrypes latithorax* (Coleoptera: Curculionidae)
433. *Premnotrypes suturicallus* (Coleoptera: Curculionidae)
434. *Proeulia auraria* (Lepidoptera: Tortricidae)
435. *Proeulia chrysopteris* (Lepidoptera: Tortricidae)
436. *Prostephanus truncates* (Coleoptera: Bostrichidae)
437. *Pseudaulacaspis cockerelli* (Hemiptera: Diaspididae)

438. *Pseudococcus calceolariae* (Hemiptera: Pseudococcidae)
439. *Pseudococcus citriculus* (Hemiptera: Pseudococcidae)
440. *Pseudodendrothrips mori* (Thysanoptera: Thripidae)
441. *Pseudotheraptus devastans* (Hemiptera: Coreidae)
442. *Psila rosae* (Hemiptera: Psilidae)
443. *Psylliodes chrysocephala* (Coleoptera: Chrysomelidae)
444. *Pulvinaria psidii* (Hemiptera: Coccidae)
445. *Retithrips syriacus* (Thysanoptera: Thripidae)
446. *Rhabdoscelus obscurus* (Coleoptera: Dryophthoridae)
447. *Rhagoletis* spp. (Diptera: Tephritidae)
448. *Rhipiphorothrips cruentatus* (Thysanoptera: Thripidae)
449. *Rhopalomyia chrysanthemi* (Diptera: Cecidomyiidae)
450. *Rhyacionia buoliana* (Lepidoptera: Tortricidae)
451. *Saperda carcharias* (Coleoptera: Cerambycidae)
452. *Scirtothrips aurantii* (Thysanoptera: Thripidae)
453. *Scirtothrips citri* (Thysanoptera: Thripidae)
454. *Scirtothrips dorsalis* (Thysanoptera: Thripidae)
455. *Scolytus multistriatus* (Coleoptera: Scolytidae)
456. *Scolytus scolytus* (Coleoptera: Scolytidae)
457. *Scotinophara lurida* (Hemiptera: Pentatomidae)
458. *Sesamia cretica* (Lepidoptera: Noctuidae)
459. *Sinoxylon conigerum* (Coleoptera: Bostrichidae)
460. *Siphoninus phillyreae* (Hemiptera: Aleyrodidae)
461. *Sirex noctilio* (Hymenoptera: Siricidae)
462. *Sirex juvencus* (Hymenoptera: Siricidae)
463. *Sphaeraspis vitis* (Hemiptera: Margarodidae)
464. *Spilonota ocellana* (Lepidoptera: Tortricidae)
465. *Spodoptera littoralis* (Lepidoptera: Noctuidae)
466. *Statherotis discana* (Lepidoptera: Tortricidae)
467. *Stenchaetothrips biformis* (Thysanoptera: Thripidae)
468. *Stenoma decora* (Coleoptera: Oecophoridae)
469. *Stephanitis typical* (Hemiptera: Tingidae)
470. *Sternochetus mangiferae* (Coleoptera: Curculionidae)
471. *Tessarotoma papillosa* (Hemiptera: Pentatomidae)
472. *Tetramoera schistaceana* (Lepidoptera: Tortricidae)
473. *Thaumetopoea pityocampa* (Lepidoptera: Notodontidae)
474. *Thrips angusticeps* (Thysanoptera: Thripidae)
475. *Thrips imaginis* (Thysanoptera: Thripidae)
476. *Thrips nigropilosus* (Thysanoptera: Thripidae)
477. *Tipula oleracea* (Diptera: Tipulidae)
478. *Toxotrypana curvicauda* (Diptera: Tephritidae)
479. *Tremex fuscicornis* (Hymenoptera: Siricidae)
480. *Trioza erytrae* (Hemiptera: Triozidae)
481. *Trirhithromyia cyanescens* (Diptera: Tephritidae)
482. *Trogoderma* spp. (Coleoptera: Dermestidae)
483. *Unaspis yanonensis* (Hemiptera: Diaspididae)
484. *Urocerus gigas* (Hymenoptera: Siricidae)
485. *Valanga nigricornis* (Orthoptera: Acrididae)
486. *Viteus vitifoliae* (Hemiptera: Phylloxeridae)
487. *Yponomeuta malinellus* (Lepidoptera: Yponomeutidae)
488. *Zeuzera pyrina* (Lepidoptera: Cossidae)
489. *Zulia entreriana* (Hemiptera: Cercopidae)

## **PEST PLANTS**

490. *Alhagi camelorum* (Fabales: Fabaceae)

- 491. *Allium vineale* (Liliales: Liliaceae)
- 492. *Brassica kaber* (Capparales: Brassicaceae)
- 493. *Cardaria draba* (Capparales: Brassicaceae)
- 494. *Centaurea repens* (Asterales: Asteraceae)
- 495. ***Cirsium arvense*** (Asterales: Asteraceae)
- 496. *Cuscuta campestris* (Solanales: Cuscutaceae)
- 497. *Cuscuta epithimum* (Solanales: Cuscutaceae)
- 498. *Orobanche ramosa* (Scrophulariales: Orobanchaceae)
- 499. *Polygonum hydropiper* (Polygonales: Polygonaceae)
- 500. *Saccharum spontaneum* (Cyperales: Poacea)
- 501. *Sonchus arvensis* (Asterales: Asteraceae)
- 502. *Striga tutea* (Scrophulariales: Serophulariaceae)

### PHYTOPLASMAS

- 503. Apple proliferation phytoplasma (Acholeplasmatales: Acholeplasmataceae)
- 504. Apple rubbery wood phytoplasma (Acholeplasmatales: Acholeplasmataceae)
- 505. European stone fruit yellows phytoplasma (Acholeplasmatales: Acholeplasmataceae)
- 506. *Spiroplasma citri* (Acholeplasmatales Acholeplasmataceae)
- 507. Sugarcane grassy shoot and white leaf phytoplasmas (Acholeplasmatales: Acholeplasmataceae)

### NEMATODES

- 508. *Anguina agrostis* (Tylenchida: Anguinidae)
- 509. *Anguina tritici* (Tylenchida: Anguinidae)
- 510. *Aphelenchoides fragariae* (Aphelenchida: Aphelenchoididae)
- 511. *Aphelenchoides ritzemabosi* (Aphelenchida: Aphelenchoididae)
- 512. *Belonolaimus longicaudatus* (Tylenchida: Belonolaimidae)
- 513. *Bursaphelenchus xylophilus* (Tylenchida: Parasitaphelenchidae)
- 514. *Ditylenchus angustus* (Tylenchida: Anguinidae)
- 515. *Helicotylenchus dihystera* (Tylenchida: Hoplolaimidae)
- 516. *Helicotylenchus pseudorobustus* (Tylenchida: Hoplolaimidae)
- 517. *Heterodera cajani* (Tylenchida: Heteroderidae)
- 518. *Heterodera carotae* (Tylenchida: Heteroderidae)
- 519. *Heterodera goeaingiana* (Tylenchida: Heteroderidae)
- 520. *Heterodera oryzae* (Tylenchida: Heteroderidae)
- 521. *Heterodera zeae* (Tylenchida: Heteroderidae)
- 522. *Hoplolaimus pararobustus* (Tylenchida: Hoplolaimidae)
- 523. *Longidorus diversicaudatus* (Dorylaimida: Xiphinematidae)
- 524. *Longidorus elongates* (Dorylaimida: Longidoridae)
- 525. *Meloidogyne chitwoodi* (Tylenchida: Meloidogynidae)
- 526. *Meloidogyne coffeicola* (Tylenchida: Meloidogynidae)
- 527. *Pratylenchus loosi* (Tylenchida: Pratylenchidae)
- 528. *Pratylenchus neglectus* (Tylenchida: Pratylenchidae)
- 529. *Pratylenchus penetrans* (Tylenchida: Pratylenchidae)
- 530. *Pratylenchus vulnus* (Tylenchida: Pratylenchidae)
- 531. *Punctodera chalcoensis* (Tylenchida: Heteroderidae)
- 532. *Tylenchorhynchus clayroni* (Tylenchida: Dolichodondae)
- 533. *Xiphinema index* (Dorylaimida: Xiphinematidae)
- 534. *Xiphinema italiae* (Dorylaimida: Xiphinematidae)

### VIRUS

- 535. American plum lime pattern virus (APLPV) (Bromoviridae: Ilarvirus)
- 536. Apple chat fruit
- 537. Apple mosaic ilarvirus (Bromoviridae: Ilarvirus)

538. Apple stem grooving virus (ASGV) (Flexiviridae: Capillovirus)
539. Apple stem pitting virus (Flexiviridae: Foveavirus)
540. Arabis mosaic virus (ArMV) (Comoviridae: Nepovirus)
541. Asparagus 2 ilarvirus (AV-2) (Bromoviridae: Ilarvirus)
542. Banana bract mosaic virus (Bunyaviridae: Potyvirus)
543. Banana bunchy top virus (BBTV) (Nanoviridae: Nanovirus)
544. Barley stripe mosaic virus (Tombusviridae: Hordeivirus)
545. Bean golden mosaic virus (BGMV) (Geminiviridae: Begomovirus)
546. Beet curly top virus (Geminiviridae: Curtovirus)
547. Broad bean stain virus (Comoviridae: Comovirus)
548. Broad bean wilt virus (Comoviridae: Fabavirus)
549. Cacao swollen shoot virus (CSSV) (Caulimoviridae: Badnavirus)
550. Cacao yellow mosaic virus (CYMV) (Tymoviridae: Tymovirus)
551. Carnation necrotic fleck virus (CNFV) (Closteroviridae: Closterovirus)
552. Carnation ringspot virus (CRSV) (Tombusviridae: Dianthovirus)
553. Cherry leaf roll virus (CLRV) (Comoviridae: Nepovirus)
554. Cherry necrotic rusty mottle virus (CNRMV)
555. Cherry rasp leaf virus (CRLV) (Comoviridae: Nepovirus)
556. Cherry rusty mottle disease
557. Chrysanthemum stunt viroid (CSVd) (Pospiviroidae: Pospiviroid)
558. Citrus blight disease
559. Citrus impietratura disease
560. Citrus leaf rugose virus (Bromoviridae: Ilarvirus)
561. Citrus leprosis virus (CiLV) (Rhabdoviridae: Nucleorhabdovirus)
562. Citrus yellow mosaic virus (CiYMV) (Caulimoviridae: Badnavirus)
563. Clover yellow vein virus (CIYVV) (Bunyaviridae: Potyvirus)
564. Cocoa necrosis virus (CoNV) (Comoviridae: Nepovirus)
565. Coconut cadang-cadang viroid (CCCVd) (Pospiviroidae: Cocadviroid)
566. Coffee ringspot virus (CoRSv) (Rhabdoviridae: Nucleorhabdovirus)
567. Cotton anthocyanosis virus (CAV)
568. Cotton leaf crumple virus (CLCrV) (Geminiviridae: Begomovirus)
569. Cotton leaf curl virus (CLCu V) (Geminiviridae: Begomovirus)
570. Cotton small leaf virus
571. Cotton terminal stunt virus
572. Cowpea mild mottle virus (CPMMV) (Flexiviridae: Carlavirus)
573. Cowpea mosaic virus (CPMV) (Comoviridae: Comovirus)
574. Cucumber green mottle mosaic virus (Tobamovirus)
575. Cymbidium mosaic virus (CymMV) (Flexiviridae: Potexvirus)
576. Cymbidium ringspot virus (CymRSV) (Tombusviridae: Tombusvirus)
577. Dasheen mosaic virus (DsMV) (Bunyaviridae: Potyvirus)
578. Fiji disease virus (Reoviridae: Fijivirus)
579. Grapevine chrome mosaic virus (Comoviridae: Nepovirus)
580. Grapevine leafroll-associated viruses (Closteroviridae: Closterovirus)
581. Grapevine stem pitting-associated closterovirus (Flexiviridae: Vitivirus)
582. Lettuce necrotic yellows cytorhabdovirus (LNYV) (Rhabdoviridae: Cytorhabdovirus)
583. Lily mottle virus (LMoV) (Bunyaviridae: Potyvirus)
584. Lily symptomless virus (LSV) (Flexiviridae: Carlavirus)
585. Little cherry virus (LCh V)
586. Odontoglossum ringspot tobamovirus (ORSV) (Tobamovirus)
587. Odontoglossum ringspot virus (ORSV) (Tobamovirus)
588. Pea early-browning virus (PEBV; BBYBV) (Tobravirus)
589. Peach latent mosaic viroid (PLMVd) (Avsunviroidae: Pelamoviroid)
590. Peach rosette mosaic virus (PRMV) (Comoviridae: Nepovirus)
591. Peanut mottle potyvirus (PeMoV) (Bunyaviridae: Potyvirus)

592. Peanut stripe virus (Bunyaviridae: Potyvirus)
593. Peanut stunt virus (PSV) (Bromoviridae: Cucumovirus)
594. Pepper mild mottle virus (Tobamovirus)
595. Plum pox virus (PPV) (Bunyaviridae: Potyvirus)
596. Potato yellow dwarf virus (PYDV; CYDV; SYDV) (Rhabdoviridae: Nucleorhabdovirus)
597. Prune dwarf virus (Bromoviridae: Ilarvirus)
598. Prunus necrotic ringspot virus (Bromoviridae Ilarvirus)
599. Raspberry leaf curl virus (RLCV)
600. Raspberry ringspot virus (RpRSV) (Comoviridae: Nepovirus)
601. Rice stripe necrosis virus (Bunyaviridae: Furovirus)
602. Satsuma dwarf virus (SDV) (Comoviridae: Nepovirus)
603. Southern bean mosaic virus (Sobemovirus)
604. Soybean dwarf virus (SbDV) (Luteoviridae: Luteovirus)
605. Squash mosaic virus (SgMV) (Comoviridae: Comovirus)
606. Strawberry crinkle virus (SCrV) (Rhabdoviridae: Cytorhabdovirus)
607. Strawberry latent ringspot virus (SLRSV) (Comoviridae: Nepovirus)
608. Strawberry vein banding virus (SVBV) (Caulimoviridae: Caulimovirus)
609. Tobacco necrosis virus (TNV) (Tomobusviridae: Necrovirus)
610. Tobacco rattle virus (TRV) (Tobravirus)
611. Tomato black ring virus (TBRV) (Comoviridae: Nepovirus)
612. Tomato bunchy top viroid (TBTVD) (Pospiviroidae: Iospiviroid)
613. Tomato mottle bigeminivirus (TMOV) (Geminiviridae: Begomovirus)
614. Tomato yellow leaf curl virus (TYLCV) (Geminiviridae: Begomovirus)
615. Turnip mosaic virus (TuMV) (Bunyaviridae: Potyvirus)
616. Yam mosaic virus (YMV) (Bunyaviridae: Potyvirus)

## 2.5 Maximum Pest Limits (MPLs)

Please note; for all commodities exported to Ecuador requiring MAF phytosanitary certificates, the following levels have been set by MAF to facilitate exports while still meeting the importing country's minimum requirements for specified quarantine pests and soil.

Quarantine pests* specified by Ecuador	0.5%
Soil (for all plant products excluding seed for sowing)	25g/600unit
Soil (seed for sowing)	0.1% by weight

\*Quarantine pests for Ecuador include organisms identified within:

- quarantine pests section of this ICPR
- additional declarations
- phytosanitary import permits

## 2.6 Ports of Entry

Air Ports: Quito and Guayaquil.

Seaports: Guayaquil, Manta, Esmeraldas and Puerto Bolivar.

Land Ports: Tulcán, Macara and Huaquillas

## **2.7 Inspection on Arrival**

Not specified

## **2.8 Sampling Rate**

Not provided by the importing country

## **2.9 Transit Requirements**

Not provided by the importing country

# **3. Commodity Class Requirements**

## **3.1 Fruit and Vegetables**

### **3.1.1 Fresh Fruit and Vegetables**

Conditions:

Import permit required

### **3.1.2 Dried/Cured/Processed Fruit and Vegetables**

Conditions:

Import permit required

### **3.1.3 Frozen Fruit and Vegetables**

Conditions:

Import permit required

## **3.2 Cut Flowers and Foliage**

### **3.2.1 Fresh Cut Flowers and Foliage**

Conditions:

Import permit required

### **3.2.2 Dried Cut Flowers and Foliage**

Conditions:

Import permit required

## **3.3 Nursery Stock**

### **3.3.1 Budwood/Cuttings**

Conditions:

Import permit required

### **3.3.2 Bulbs/Corms/Rhizomes/Tubers etc.**

Conditions:

Import permit required

### **3.3.3 Whole Plants**

Conditions:

Import permit required

### **3.3.4 Tissue Culture**

Conditions:

Import permit required

## **3.4 Seeds, Grains and Nuts**

### **3.4.1 Seeds, Grains and Nuts for Sowing**

Conditions:

Phytosanitary certificate and import permit required unless specified.

### **3.4.2 Seeds, Grains and Nuts for Processing**

Conditions:

Import permit required

### **3.4.3 Seeds, Grains and Nuts for Consumption**

Conditions:

Import permit required

## **3.5 Growing Media and Packing Material**

### **3.5.1 Growing Media**

Conditions:

Import permit required

### **3.5.2 Packing Material**

Conditions:

Import permit required

## **4. Commodity Specific Requirements**

### **4.1 Fruit and Vegetables**

#### **4.1.1 Fresh Fruit and Vegetables**

Conditions:

Import permit required

#### **4.1.2 Dried/Cured/Processed Fruit and Vegetables**

Conditions:

Import permit required

#### **4.1.3 Frozen Fruit and Vegetables**

Conditions:

Import permit required

### **4.2 Cut Flowers and Foliage**

#### **4.2.1 Fresh Cut Flowers and Foliage**

Conditions:

Import permit required

#### 4.2.2 Dried Cut Flowers and Foliage

Conditions:

Import permit required

#### 4.3 Nursery Stock

##### 4.3.1 Budwood and Cuttings

Conditions:

Import permit required

##### 4.3.2 Bulbs/Corms/Rhizomes/Tubers for propagation

Zantedeschia spp.

Zantedeschia

Conditions:

Import permit and phytosanitary certificate required. The material must be contained in new packaging/boxes. A phytosanitary inspection at the point of entry into the country and sampling laboratory will be conducted.

Additional declaration:

"The bulbs are free of: *Erwinia carotovora* subsp. *carotovora*, Tomato spotted wilt, *Leveillula taurica*, *Thereatra oldenlandiae* and *Thielaviopsis basicota*"

##### 4.3.3 Whole Plants

Protea spp.

Protea

Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The material must be contained in new packaging/boxes. The plant material will be inspected at the point of entry and may require sampling for laboratory analysis. If the material does not meet phytosanitary import requirements it may be subjected to Post-Entry Quarantine.

Additional declaration:

"The plants are free of: *Pseudococcus calceolaria*, *Batcheloromyces proteae*, *Botryosphaeria stevensii* and *Coleroa senniana*"

Rosa spp.

Rose (Pink buds)

Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The material must be contained in new packaging/boxes. Phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The consignment is free of; *Amphimallon majalis*, *Brachyirinus ovatus*, *Botryosphaeria ribis*, *Valsa ambiens*, *Clitocybe tabescens*, *Crioceris asparagi*, *Cryptosporium minimum*, *Emboloecia saizalitae*, *Epichoristodes acerbella*, *Neolasioptera hibisci*, *Papaipema nebris*, *Quadraspidotus perniciosus*, Roseflower break virus, Rose mosaic virus, Rose ring pattern virus, Rose spring dwarf virus, Rose leaf curl virus, Strawberry latent ring spot, *Tortrix pronubana* and *Xiphinema diversicaudatum*"

##### 4.3.4 Tissue Culture

Zantedeschia spp.

Zantedeschia

Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The material must be contained in new opaque containers. A phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The tissue cultures are free of: *Erwinia carotovora* subsp. *carotovora*, Tomato spotted wilt, *Leveillula taurica*, *Thereatra oldenlandiae* and *Thielaviopsis basicota*"

#### 4.4 Seeds, Grains and Nuts

##### 4.4.1 Seeds, Grains and Nuts for Sowing

###### *Bromus catharticus*

###### Bromus

###### Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

###### Additional declaration:

"The seed is free of: *Cochliobolus sativus*, *Pseudomonas syringae* pv. *atropurpurea*, *Xanthomonas translucens*, Cocksfoot mottle virus, *Gibberella avenacea*, *Pantoea stewartii*, *Sminthurus viridis*, *Puccinia striiformis*, *Urocystis agropyri*, Barley yellow dwarf virus, *Erysiphe graminis* f.sp. *dactylidis*, *Mycosphaerella recutita*, *Typhula incarnate* and *Typhula ishikariensis*"

###### *Bromus willdenowii*

###### Bromus

###### Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

###### Additional declaration:

"The seed is free of: *Pseudomonas syringae* pv. *atropurpurea*, *Xanthomonas translucens*, *Urocystis agropyri* and *Mycosphaerella recutita*."

###### *Dactylis glomerata*

###### Cocksfoot/Orchard grass

###### Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

###### Additional declaration:

"The seed is free of: *Pseudomonas syringae* pv. *atropurpurea*, *Xanthomonas translucens*, *Urocystis agropyri* and *Mycosphaerella recutita*."

###### *Lolium boucheanum*

###### Conditions:

**Prohibited.** (MAF is negotiating the import requirements with the Ecuador authorities, August 2011).

###### *Lolium multiflorum*

###### Annual Ryegrass

###### Conditions:

Import permit and phytosanitary certificate required. Additional declarations required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

###### Additional declaration:

"The seed is free of: *Pseudomonas syringae* pv. *atropurpurea*, *Xanthomonas translucens*, *Urocystis agropyri*, *Mycosphaerella recutita*, *Trogoderma granarium*, *Gloeotinia temulenta* and of weed seeds of the genus *Cuscuta* and *Orobancha*"

**Note:** If *Gloeotinia temulenta* and/or *Trogoderma granarium* are detected the following treatments have been advised by AGROCALIDAD:

Seeds were treated for *Gloeotinia temulenta* using a mixture of Carboxin + Captan at 2 grams per kilogram of seed, or underwent an equivalent treatment for *Gloeotinia temulenta*. AND

Seed was treated for *Trogoderma granarium* using one of the following phosphine disinfection treatments in the following doses:

-3 tablets (every m<sup>3</sup>) at more than 21°C, for 4 days; or

-3 tablets (every m<sup>3</sup>) at 16 to 20°C, for 5 days; or

-3 tablets (every m<sup>3</sup>) at 11-15°C, for 8 days.

*Lolium perenne*

Perennial ryegrass

Conditions:

Import permit and phytosanitary certificate required. Additional declarations required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry. ISTA 400 standards can be used to certify that seeds are free of pests.

Additional declaration:

"The seed is free of: *Pseudomonas syringae* pv. *atropurpurea*, *Xanthomonas translucens*, *Urocystis agropyri*, *Mycosphaerella recutita*, *Trogoderma granarium*, *Gloeotinia temulenta* and of weed seeds of the genus *Cuscuta* and *Orobanchae*".

**Note:** If *Gloeotinia temulenta* and/or *Trogoderma granarium* are detected the following treatments have been advised by AGROCALIDAD:

Seeds were treated for *Gloeotinia temulenta* using a mixture of Carboxin + Captan at 2 grams per kilogram of seed, or underwent an equivalent treatment for *Gloeotinia temulenta*. AND

Seed was treated for *Trogoderma granarium* using one of the following phosphine disinfection treatments in the following doses:

-3 tablets (every m<sup>3</sup>) at more than 21°C, for 4 days; or

-3 tablets (every m<sup>3</sup>) at 16 to 20°C, for 5 days; or

-3 tablets (every m<sup>3</sup>) at 11-15°C, for 8 days.

*Plantago lanceolata*

Ribwort/Plantain

Conditions:

Import permit and phytosanitary certificate required. Additional declarations required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The seed is free of: *Xanthomonas translucens*, *Urocystis agropyri*, *Mycosphaerella recutita*, *Trogoderma granarium* and of weed seeds of the genus *Cuscuta* and *Orobanchae*".

**Note:** If *Trogoderma granarium* is detected the following treatment has been advised by AGROCALIDAD:

Seed was treated for *Trogoderma granarium* using one of the following phosphine disinfection treatments in the following doses:

-3 tablets (every m<sup>3</sup>) at more than 21°C, for 4 days; or

-3 tablets (every m<sup>3</sup>) at 16 to 20°C, for 5 days; or

-3 tablets (every m<sup>3</sup>) at 11-15°C, for 8 days.

Plantago spp. (not including P. lanceolata)

Ribwort/Plantain

Conditions:

Import permit and phytosanitary certificate required. Additional declarations required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The seed is free of: *Pseudomonas syringae* pv. *atropurpurea*, *Xanthomonas translucens*, *Urocystis agropyri*, *Mycosphaerella recutita*, *Trogoderma granarium* and of weed seeds of the genus *Cuscuta* and *Orobanche*"

**Note:** If *Trogoderma granarium* is detected the following treatment has been advised by AGROCALIDAD:

Seed was treated for *Trogoderma granarium* using one of the following phosphine disinfection treatments:

-3 tablets (every m<sup>3</sup>) at more than 21°C, for 4 days; or

-3 tablets (every m<sup>3</sup>) at 16 to 20°C, for 5 days; or

-3 tablets (every m<sup>3</sup>) at 11-15°C, for 8 days.

Trifolium pratense

Red clover

Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The seed is free of: *Phoma pinodella*, Arabis mosaic virus, Strawberry latent ringspot virus, *Cercospora zebrina* and *Leptosphaeria pratensis*."

Trifolium repens

White clover

Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The seed is free of: *Phoma pinodella*, Arabis mosaic virus, Strawberry latent ringspot virus, *Cercospora zebrina* and *Leptosphaeria pratensis*."

Zantedeschia spp.

Zantedeschia

Conditions:

Import permit and phytosanitary certificate required. Additional declaration required. The seed must be packed in new packages. Phytosanitary inspection will be conducted at the point of entry.

Additional declaration:

"The seed is free of: *Erwinia carotovora* subsp. *carotovora*, Dasheen mosaic virus and *Coccus hesperidum*"

#### 4.4.2 Seeds, Grains and Nuts for Processing

Conditions:

Import permit required

**4.4.3 Seeds, Grains and Nuts for Consumption**

Conditions:

Import permit required

**4.5 Growing Media and Packing Material**

Conditions:

Import permit required

**4.6 Miscellaneous**

Conditions:

Import permit required