

## Appendix II

### Approved pest list and tolerances for visual inspections during GSI and PSI in the Netherlands

Note: DBI: Dry bulb inspection

GSI: Growing season inspection

Q pest: Pests of quarantine significance to Canada and/or the United States.

#### Arthropods

Pest	Tolerance	Inspection	Action
<i>Aceria tulipae</i>	Q pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Agriotes ustulatus</i>	Q Pest; 0%	DBI	Refuse, only if live pest are found; reconditioning with soil only
<i>Agrotis segetum</i>	Q Pest; 0%	DBI	Refuse, only if live pest are found; reconditioning with soil only
<i>Brachycerus undatus</i>	Q Pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Brachycerus muricatus</i>	Q Pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Delia antiqua</i>	Q pests; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Eumerus strigatus</i>	1%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Nipaecoccus viridis</i>	Q pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Otiorhynchus armadillo</i>	Q pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Otiorhynchus salicicola</i> syn. <i>Otiorhynchus apenninus</i>	Q pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning

<b>Pest</b>	<b>Tolerance</b>	<b>Inspection</b>	<b>Action</b>
<i>Scirtothrips dorsalis</i>	Q pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Sesamia nonagrioides</i>	Q pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Steneotarsonamus laticeps</i>	Q Pest; 0%	DBI	Refuse, only if live pest are found; no reconditioning
<i>Chorzococcus lounsbury</i>	0%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Eutetranychus orientalis</i>	0%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Ostrinia nubilalis</i>	0%	DBI	Refuse only if live pest are found; reconditioning allowed
<i>Phenacoccus</i> spp.	0%	DBI	Refuse, only if live pest are found; reconditioning allowed. Only relevant for flower bulbs
<i>Atherigona orientalis</i>	1%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Merodon equestris</i>	1%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Noctua pronuba</i>	1%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Rhizoglyphus echinopus</i>	2%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Rhizoglyphus robini</i>	2%	DBI	Refuse, only if live pest are found; reconditioning allowed
<i>Tetranychus turkestanii</i>	1%	DBI	Refuse, only if live pest are found; reconditioning allowed



## Nematodes

<b>Pest</b>	<b>Tolerance</b>	<b>Inspection</b>	<b>Action</b>
<i>Anguina tritici</i>	0%	DBI	Free from soil
<i>Aphelenchoides subtenuis</i>	0%	DBI & GSI <sup>1</sup>	Sampling upon suspect
<i>Aphelenchoides ritzemabosi</i>	0%	DBI & GSI <sup>2</sup>	Sampling upon suspect
<i>Aphelenchoides fragariae</i>	0%	DBI & GSI <sup>2</sup>	Sampling upon suspect
<i>Ditylenchus dipsaci</i>	0%	DBI & GSI	Sampling upon suspect
<i>Ditylenchus destructor</i>	0%	DBI & GSI	Sampling upon suspect
<i>Globodera pallida</i>	0%	Specific arrangement	See pest management plan in Appendix III
<i>Globodera rostochiensis</i>	0%	Specific arrangement	See pest management plan in Appendix III
<i>Heterodera glycines</i>	0%	DBI	Free from soil
<i>Longidorus</i> spp.	0%	DBI	Free from soil
<i>Meloidogyne</i> spp.	0%	DBI	Free from soil; free from symptoms; re-conditioning allowed
<i>Pratylenchus fallax</i>	0%	DBI	Free from soil; see pest management plan in Appendix III
<i>Rotylenchulus macrodoratus</i>	0%	DBI	Free from soil
<i>Trichodorus</i> spp.	0%	DBI	Free from soil; see pest management plan in Appendix III
<i>Xiphinema</i> spp.	0%	DBI	Free from soil

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<sup>1</sup> Lilium = 0.01% during GSI  
Perennial plants max. 1% during GSI

## Fungi

<b>Pest</b>	<b>Tolerance</b>	<b>Inspection</b>	<b>Action</b>
<i>Aspergillus niger</i>	1%	DBI	Refuse; reconditioning allowed
<i>Botrytis cinerea</i>	1%	DBI	Refuse; reconditioning allowed
<i>Colletotrichum lillii</i>	2%	DBI	Refuse; reconditioning allowed
<i>Corticium rolfsii</i>	2%	DBI	Refuse; reconditioning allowed
<i>Curvularia spp.</i>	2%	DBI	Refuse; reconditioning allowed
<i>Embelissa hyacinthii</i> (skin spot complex in association with <i>Fusarium spp.</i> )	2%	DBI	Refuse; reconditioning allowed
<i>Gibberella avenacea</i>	2%	DBI	Refuse; reconditioning allowed
<i>Penicillium spp.</i>	5%	DBI	Refuse; reconditioning allowed
<i>Peronospora radii</i>	2%	GSI	Refuse; reconditioning allowed
<i>Phytophthora spp.</i>	0% <i>P. alni</i> , <i>P. ramorum</i> and <i>P. kernoviae</i> . 1% for other spp.	GSI	
<i>Puccinia gladioli</i>	0%	GSI	
<i>Puccinia hemerocallidis</i>	1%	GSI	
<i>Puccinia horiana</i>	0%	GSI	
<i>Puccinia mccleanii</i>	0%	GSI	
<i>Puccinia veronicae-longifoliae</i>	0%	GSI	
<i>Pythium spp.</i>	2%	DBI	Refuse; reconditioning allowed

<b>Pest</b>	<b>Tolerance</b>	<b>Inspection</b>	<b>Action</b>
<i>Rhizoctonia</i> spp.: <i>R. solani</i> ; <i>R. tuliparum</i> including anamorphic stage <i>Thanatephorus cucumeris</i>	1%	DBI	Refuse; reconditioning allowed
<i>Rhizopus arrhizus</i>	1%	DBI	Refuse; reconditioning allowed
<i>Sclerotinia sclerotiorum</i>	2%	DBI	Refuse; reconditioning allowed
<i>Synchytrium endobioticum</i>	0%	DBI	Refuse; reconditioning allowed
<i>Urocystis</i> spp. ( <i>Urocystis colchici</i> , <i>U. gladiolica</i> , <i>U. croci</i> )	2%	GSI	
<i>Uromyces transversalis</i>	1%	GSI	
<i>Verticillium</i> spp.	5%	DBI	Refuse; reconditioning allowed

## Viruses

<b>Pest</b>	<b>Bulbs (B) and/or perennials (P)</b>	<b>Tolerance</b>	<b>Inspection</b>
Alfalfa mosaic <i>alfamovirus</i> (AMV)	P	1%	GSI
Alternanthera mosaic <i>potexvirus</i>	P	2%	GSI
Arabis mosaic <i>nepovirus</i> (ArMV)	B & P	0%	GSI
Broad bean wilt <i>fabavirus</i> (BBWV)	B & P	1%	GSI
Canna yellow mottle <i>badnavirus</i> (CaYMV)	B	10%	GSI
Chrysanthemum B <i>carlavirus</i> (CVB)	P	1%	GSI
Cucumber mosaic <i>cucumovirus</i> (CMV)	B & P	1%	GSI
Hosta Virus X <i>Potexvirus</i> (HVX)	P	1%	GSI
Impatiens necrotic spot <i>tospovirus</i> (INSV)	B & P	1%	GSI
Lily X <i>potexvirus</i>	B	1%	GSI
Lily symptomless <i>carlavirus</i> (LSV)	B	2%	GSI
Narcissus latent <i>macluravirus</i> (NLV)	B	1%	GSI
Tobacco rattle <i>tobravirus</i> (TRV)	B & P	2%	GSI
Tobacco ringspot <i>nepovirus</i> (TRSV)	B & P	0%	GSI
Tobacco streak <i>ilarvirus</i> (TSV)	B ( <i>Dahlia</i> ) & P	1%	GSI
Tomato aspermy <i>cucumovirus</i> (TAV)	P	1%	GSI
Tomato ring spot <i>nepovirus</i> (ToRSV)	B & P	0%	GSI
Tomato spotted wilt <i>tospovirus</i> (TSWV)	B & P	1%	GSI
Tulip X <i>potexvirus</i>	B	1%	GSI

<b>Pest</b>	<b>Bulbs (B) and/or perennials (P)</b>	<b>Tolerance</b>	<b>Inspection</b>
<b>Potviruses**</b>			
<i>Bean yellow mosaic virus</i>	B ( <i>Crocus, Freesia</i> ) P ( <i>Papaver</i> )	2%	GSI
<i>Bean yellow mosaic virus</i>	B ( <i>Zantedeschia</i> )	5%	GSI
<i>Calla lily latent virus</i>	B ( <i>Zantedeschia</i> )	5%	GSI
<i>Dasheen mosaic virus</i>	B ( <i>Caladium, Zantedeschia</i> )	5%	GSI
<i>Hippeastrum mosaic virus</i>	B ( <i>Eucharis, Hippeastrum</i> )	2%	GSI
<i>Hippeastrum mosaic virus</i>	B ( <i>Zantedeschia</i> )	5%	GSI
<i>Hyacinth mosaic virus</i>	B ( <i>Hyacinthus</i> )	1%, only severe symptoms <sup>2</sup>	GSI
<i>Iris severe mosaic virus</i>	B ( <i>Crocus, Iris</i> )	1%	GSI
<i>Konjac mosaic virus</i>	B ( <i>Zantedeschia</i> )	5%	GSI
<i>Lettuce mosaic virus</i>	P ( <i>Iris, Phlox</i> )	1%	GSI
<i>Lily mottle virus</i>	B ( <i>Lilium</i> )	1%	GSI
<i>Narcissus mosaic potexvirus</i>	B ( <i>Narcissus, Lilium</i> )	2%	GSI
<i>Narcissus silver streak virus</i>	B ( <i>Narcissus</i> )	2%	GSI
<i>PVA</i>	P ( <i>Iris, Phlox</i> )	1%	GSI
<i>PVY</i>	P ( <i>Iris, Phlox</i> )	1%	GSI
<i>Tulip breaking virus</i>	B ( <i>Tulipa</i> )	1%	GSI
<i>Turnip mosaic virus</i>	B ( <i>Zantedeschia</i> )	5%	GSI
<i>Zantedeschia mosaic virus</i>	B ( <i>Zantedeschia</i> )	5%	GSI
<i>Zantedeschia mild mosaic</i>	B ( <i>Zantedeschia</i> )	5%	GSI

<sup>2</sup> For the 2010 growing season DIS will collect data on mild symptoms



## Bacteria

<b>Pest</b>	<b>Tolerance</b>	<b>Inspection</b>	<b>Actions</b>
<i>Agrobacterium</i> spp; <i>Rhizobium</i> spp. (galls and hairy roots)	1%	DBI	Refuse; reconditioning allowed
<i>Burkholderia gladioli</i> pv. <i>gladioli</i>	2%	DBI	Refuse; reconditioning allowed
<i>Clavibacter</i> <i>michiganensis</i> subsp. <i>sepedonicus</i>	0% (Q)	DBI	Refuse; no reconditioning
<i>Curtobacterium</i> <i>flaccumfaciens</i> pv. <i>oortii</i>	0%	DBI	Refuse; reconditioning allowed
<i>Erwinia</i> spp. ( <i>Pectobacterium</i> spp.)	1%	DBI	Refuse; reconditioning allowed
<i>Erwinia herbicola</i> pv. <i>gypsophilae</i>	0%	DBI	Refuse; reconditioning allowed
<i>Ralstonia</i> <i>solanacearum</i> race 3 biovar 2	0% (Q)	DBI	Refuse; no reconditioning
<i>Rhodococcus fascians</i> - Fasciation Leafy gall	1% <sup>5</sup>	DBI	Refuse; reconditioning allowed
<i>Xanthomonas</i> <i>hortorum</i> pv. <i>pelargonii</i>	0%	GSI	
<i>Xanthomonas</i> spp.	2%	GSI	

### Other Pests

<b>Pest</b>	<b>Common name</b>	<b>Tolerance</b>	<b>Comments</b>
Molluscs			Several genera are on the United States actionable pest list and PSI inspection should be conducted for freedom from any molluscs.

