Table 2C. Lot sizes and sample sizes

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Abelmoschus esculentus (L.) Moench	20 000	1 000	140	1 000	N/A
Abies alba Mill.	1 000	240	120	–	50
Abies amabilis J.Forbes	1 000	200	100	–	50
Abies balsamea (L.) Mill.	1 000	40	20	–	50
Abies cephalonica Loudon	1 000	360	180	–	50
Abies cilicica (Antoine & Kotschy) Carrière	1 000	1 000	500	–	50
Abies concolor (Gordon & Glend.) Lindl. ex Hildebr.	1 000	160	80	–	50
Abies firma Siebold & Zucc.	1 000	200	100	–	50
Abies fraseri (Pursh) Poir.	1 000	40	20	–	50
Abies grandis (Douglas ex D.Don) Lindl.	1 000	100	50	–	50
Abies homolepis Siebold & Zucc.	1 000	80	40	–	50
Abies lasiocarpa (Hook.) Nutt.	1 000	50	25	–	50
Abies magnifica A.Murray bis	1 000	400	200	–	50
Abies nordmanniana (Steven) Spach	1 000	360	180	–	50
Abies numidica de Lannoy ex Carrière	1 000	500	250	–	50
Abies pinsapo Boiss.	1 000	320	160	–	50
Abies procera Rehder	1 000	160	80	–	50
Abies sachalinensis (F.Schmidt) Mast.	1 000	60	30	–	50
Abies veitchii Lindl.	1 000	40	20	–	50
Abutilon ×hybridum hort. ex Voss	5 000	40	10	–	N/A
Acacia spp.	1 000	70	35	–	100
Acer campestre L.	1 000	400	200	–	100
Acer negundo L.	500	200	100	–	100
Acer palmatum Thunb.	500	100	50	–	100
Acer platanoides L.	500	700	350	–	100
Acer pseudoplatanus L.	500	600	300	–	100
Acer rubrum L.	500	100	50	–	100
Acer saccharinum L.	500	1 000	500	–	100
Acer saccharum Marshall	500	360	180	–	100
Achillea clavennae L.	5 000	5	0.5	–	N/A
Achillea filipendulina Lam.	5 000	5	0.5	–	N/A
Achillea millefolium L.	10 000	5	0.5	5	N/A
Achillea ptarmica L.	5 000	5	0.5	–	N/A
Achillea umbellata Sm.	5 000	5	0.5	–	N/A
Adonis vernalis L.	5 000	20	5	–	N/A
Aeschynomene americana L.	10 000	120	12	120	N/A
Aesculus hippocastanum L.	5 000	500 seeds	500 seeds	–	50
Ageratum houstonianum Mill.	5 000	5	0.5	–	N/A
Agrimonia eupatoria L.	5 000	200	50	–	N/A
Agropyron cristatum (L.) Gaertn.	10 000	40	4	40	N/A
Agropyron desertorum (Fisch. ex Link) Schult.	10 000	60	6	60	N/A
Agrostis canina L.	10 000	5	0.25	2.5	50
Agrostis capillaris L.	10 000	5	0.25	2.5	50
Agrostis gigantea Roth	10 000	5	0.25	2.5	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Agrostis stolonifera L. (includes *A. palustris* Huds.)	10000	5	0.25	2.5	50
Ailanthus altissima (Mill.) Swingle	1000	160	80	–	100
Alcea rosea L.	5000	80	20	–	N/A
Allium cepa L.	10000	80	8	80	50
Allium fistulosum L.	10000	50	5	50	50
Allium porrum L.	10000	70	7	70	50
Allium schoenoprasum L.	10000	30	3	30	50
Allium tuberosum Rottler ex Spreng.	10000	100	10	100	50
Alnus cordata (Loisel.) Duby	1000	12	6	–	50
Alnus glutinosa (L.) Gaertn.	1000	8	4	–	50
Alnus incana (L.) Moench	1000	4	2	–	50
Alnus rubra Bong.	1000	4	2	–	50
Alopecurus pratensis L.	10000	30	3	30	50
Althaea hybrids	5000	80	20	–	N/A
Althaea officinalis L.	5000	80	20	–	N/A
Alysicarpus vaginalis (L.) DC.	10000	40	4	40	N/A
Alyssum argenteum All.	5000	10	3	–	N/A
Alyssum montanum L.	5000	10	3	–	N/A
Amaranthus caudatus L.	5000	10	2	–	N/A
Amaranthus cruentus L.	5000	10	2	–	N/A
Amaranthus hybridus L.	5000	10	2	–	N/A
Amaranthus tricolor L.	5000	10	2	–	N/A
Amberboa moschata (L.) DC.	5000	40	10	–	N/A
Ammobium alatum R.Br.	5000	5	1	–	N/A
Amorpha fruticosa L.	1000	1000	150	–	100
Anchusa azurea Mill.	5000	100	25	–	N/A
Anchusa capensis Thunb.	5000	40	10	–	N/A
Andropogon gayanus Kunth	10000	80	8	80	N/A
Andropogon gerardi Vitman	10000	70	7	70	N/A
Andropogon hallii Hack.	10000	100	10	100	N/A
Anemone coronaria L.	5000	10	3	–	N/A
Anemone pulsatilla L.	5000	10	3	–	N/A
Anemone sylvestris L.	5000	10	3	–	N/A
Anethum graveolens L.	10000	40	4	40	50
Angelica archangelica L.	5000	40	10	–	N/A
Anthoxanthum odoratum L.	10000	20	2	20	50
Anthriscus cerefolium (L.) Hoffm.	10000	60	6	60	50
Anthyllis vulneraria L.	10000	60	6	60	N/A
Antirrhinum majus L.	5000	5	0.5	–	N/A
Apium graveolens L.	10000	10	1	10	50
Aquilegia alpina L.	5000	20	4	–	N/A
Aquilegia canadensis L.	5000	20	4	–	N/A
Aquilegia chrysantha A.Gray	5000	20	4	–	N/A
Aquilegia ×cultorum Bergmans	5000	20	4	–	N/A
Aquilegia vulgaris L.	5000	20	4	–	N/A
Arabis alpina L.	5000	10	2	–	N/A
Arabis alpina L. subsp. *alpina*	5000	10	2	–	N/A
Arabis alpina L. subsp. *caucasica* (Willd.) Briq.	5000	10	2	–	N/A
Arabis ×arendsii H.R.Wehrh.	5000	10	2	–	N/A
Arabis blepharophylla Hook. & Arn.	5000	10	2	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Arabis procurrens Waldst. & Kit.	5 000	10	2	–	N/A
Arabis scopoliana Boiss.	5 000	10	2	–	N/A
Arachis hypogaea L.	30 000	1 000	1 000	1 000	50
Arctium lappa L.	10 000	50	5	50	N/A
Arctotis venusta Norl.	5 000	20	4	–	N/A
Armeria maritima (Mill.) Willd.	5 000	20	5	–	N/A
Arrhenatherum elatius (L.) P.Beauv. ex J.Presl & C.Presl	10 000	80	8	80	50
Artemisia absinthium L.	5 000	5	0.5	–	N/A
Artemisia dracunculus L.	5 000	5	0.5	–	N/A
Artemisia maritima L.	5 000	5	0.5	–	N/A
Artemisia vulgaris L.	5 000	5	0.5	–	N/A
Asclepias tuberosa L.	5 000	130	13	–	N/A
Asparagus aethiopicus L.	10 000	200	60	–	N/A
Asparagus officinalis L.	20 000	1 000	100	1 000	50
Asparagus plumosus Baker	10 000	200	50	–	N/A
Aster alpinus L.	5 000	20	5	–	N/A
Aster amellus L.	5 000	20	5	–	N/A
Astragalus cicer L.	10 000	90	9	90	N/A
Astrebla lappacea (Lindl.) Domin	10 000	200	20	200	N/A
Atriplex hortensis L.	5 000	10	2.5	–	N/A
Atropa belladonna L.	10 000	30	3	30	N/A
Aubrieta deltoidea (L.) DC. (includes *A. graeca* Griseb.)	5 000	5	1	–	N/A
Aurinia saxatilis (L.) Desv.	5 000	10	3	–	N/A
Avena nuda L.	30 000	1 000	120	1 000	100
Avena sativa L.	30 000	1 000	120	1 000	100
Avena strigosa Schreb.	30 000	500	50	500	100
Avenella flexuosa (L.) Parl.	10 000	10	1	10	N/A
Axonopus compressus (Sw.) P.Beauv.	10 000	10	1	10	N/A
Axonopus fissifolius (Raddi) Kuhlm.	10 000	10	1	10	N/A
Bassia scoparia (L.) A.J.Scott	5 000	10	3	–	N/A
Beckmannia eruciformis (L.) Host	10 000	20	2	20	N/A
Begonia Semperflorens-Cultorum Group	5 000	5	0.1	–	N/A
Begonia ×*tuberhybrida* Voss	5 000	5	0.1	–	N/A
Bellis perennis L.	5 000	5	0.5	–	N/A
(*Berberis aquifolium* Pursh see *Mahonia aquifolium* (Pursh) Nutt.)	–	–	–	–	N/A
Beta vulgaris L. (mono-germ varieties)	20 000	500	30	300	50
Beta vulgaris L. (multi-germ varieties)	20 000	500	50	500	50
Betonica macrantha K.Koch	5 000	20	5	–	N/A
Betula papyrifera Marshall	300	10	3	–	50
Betula pendula Roth	300	10	1	–	50
Betula pubescens Ehrh.	300	10	1	–	50
Borago officinalis L.	10 000	450	45	450	N/A
Bothriochloa insculpta (Hochst. ex A.Rich.) A.Camus	10 000	20	2	20	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Bothriochloa pertusa (L.) A.Camus	10000	10	1	10	N/A
Bouteloua gracilis (Kunth) Lag. ex Griffiths	10000	60	6	60	N/A
Brachyscome iberidifolia Benth.	5000	5	0.3	–	N/A
Brassica carinata A.Braun	10000	100	10	100	50
Brassica juncea (L.) Czern.	10000	40	4	40	50
Brassica napus L.	10000	100	10	100	50
(*Brassica napus* L. var. *napobrassica* (L.) Rchb. see *Brassica napus* L. subsp. *rapifera* Metzg.)	–	–	–	–	N/A
Brassica napus L. subsp. *rapifera* Metzg.	10000	100	10	100	50
Brassica nigra (L.) W.D.J.Koch	10000	40	4	40	50
Brassica oleracea L. (all varieties)	10000	100	10	100	50
Brassica rapa L. (includes *B. campestris* L., *B. perviridis* (L.H.Bailey) L.H.Bailey)	10000	70	7	70	50
Briza maxima L.	5000	40	10	–	N/A
Bromus arvensis L.	10000	60	6	60	50
Bromus carinatus Hook. & Arn.	10000	200	20	200	50
Bromus carinatus Hook. & Arn. var. *carinatus*	10000	200	20	200	50
Bromus carinatus Hook. & Arn. var. *marginatus* (Steud.) Barkworth & Anderton	10000	200	20	200	50
Bromus catharticus Vahl	10000	200	20	200	50
Bromus erectus Huds.	10000	100	10	100	50
Bromus hordeaceus L.	10000	50	5	50	50
Bromus inermis Leyss.	10000	90	9	90	50
Bromus riparius Rehmann	10000	90	9	90	50
Bromus sitchensis Trin.	10000	200	20	200	50
Browallia viscosa Kunth	5000	5	0.5	–	N/A
Brunnera macrophylla (Adams) I.M.Johnst.	5000	40	10	–	N/A
Cajanus cajan (L.) Huth	20000	1000	300	1000	N/A
Calceolaria ×herbeohybrida Voss	5000	5	0.1	–	N/A
Calceolaria polyrhiza Cav.	5000	5	0.1	–	N/A
Calendula officinalis L.	5000	80	20	–	N/A
Callistephus chinensis (L.) Nees	5000	20	6	–	N/A
Calocedrus decurrens (Torr.) Florin	300	160	80	–	100
Calopogonium mucunoides Desv.	20000	400	40	400	N/A
Camelina sativa (L.) Crantz	10000	40	4	40	50
Campanula carpatica Jacq.	5000	5	0.2	–	N/A
Campanula fragilis Cirillo	5000	5	1	–	N/A
Campanula garganica Ten.	5000	5	0.5	–	N/A
Campanula glomerata L.	5000	5	0.2	–	N/A
Campanula lactiflora M.Bieb.	5000	5	1	–	N/A
Campanula medium L.	5000	5	0.6	–	N/A
Campanula persicifolia L.	5000	5	0.2	–	N/A
Campanula portenschlagiana Schult.	5000	5	0.5	–	N/A
Campanula pyramidalis L.	5000	5	1	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Campanula rapunculus L.	5 000	5	1	–	N/A
Cannabis sativa L.	10 000	600	60	600	50
Capsicum spp.	10 000	150	15	150	50
Caragana arborescens Lam.	1 000	160	80	–	100
Carica papaya L.	1 000	100	50	–	50
Carpinus betulus L.	1 000	500	250	–	100
Carthamus tinctorius L.	25 000	900	90	900	N/A
Carum carvi L.	10 000	80	8	80	50
Castanea sativa Mill.	5 000	500 seeds	500 seeds	–	50
Catalpa spp.	1 000	120	60	–	100
Cedrela spp.	1 000	80	40	–	50
Cedrus atlantica (Endl.) G.Manetti ex Carrière	1 000	400	200	–	50
Cedrus deodara (Roxb. ex D.Don) G.Don	1 000	600	300	–	50
Cedrus libani A.Rich.	1 000	400	200	–	50
Celosia argentea L.	5 000	10	2	–	N/A
Cenchrus ciliaris L. (fascicles)	10 000	60	6	60	50
Cenchrus setigerus Vahl	20 000	150	15	150	50
Centaurea benedicta (L.) L.	5 000	300	75	–	N/A
Centaurea cyanus L.	5 000	40	10	–	N/A
Centaurea gymnocarpa Moris & De Not.	5 000	40	10	–	N/A
Centaurea imperialis Hausskn. ex Bornm.	5 000	40	10	–	N/A
Centaurea macrocephala Muss. Puschk. ex Willd.	5 000	40	10	–	N/A
Centaurea montana L.	5 000	40	10	–	N/A
Centaurea ragusina L.	5 000	40	10	–	N/A
Centrosema molle Mart. ex Benth.	20 000	600	60	600	N/A
Centrosema pascuorum Mart. ex Benth.	20 000	550	55	550	N/A
Cerastium tomentosum L.	5 000	10	2	–	N/A
Chamaecrista rotundifolia (Pers.) Greene	10 000	100	10	100	N/A
Chamaecyparis lawsoniana A.Murray bis) Parl.	1 000	20	6	–	50
Chamaecyparis obtusa (Siebold & Zucc.) Endl.	1 000	12	6	–	50
Chamaecyparis pisifera (Siebold & Zucc.) Endl.	1 000	10	3	–	50
Chamaecyparis thyoides (L.) Britton *et al.*	1 000	10	3	–	50
Chelidonium majus L.	5 000	5	1	–	N/A
Chenopodium quinoa Willd.	10 000	100	10	100	N/A
Chloris gayana Kunth	10 000	10	1	10	50
Chrysanthemum indicum L.	5 000	30	8	–	N/A
Cicer arietinum L.	30 000	1 000	1 000	1 000	100
Cichorium endivia L.	10 000	40	4	40	50
Cichorium intybus L.	10 000	50	5	50	50
Citrullus lanatus (Thunb.) Matsum. & Nakai	20 000	1 000	250	1 000	100

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Clarkia amoena (Lehm.) A.Nelson & J.F.Macbr.	5000	5	1	–	N/A
Clarkia pulchella Pursh	5000	5	1	–	N/A
Clarkia unguiculata Lindl.	5000	5	1	–	N/A
Claytonia perfoliata Donn ex Willd.	10000	20	2	20	N/A
(*Cleome hassleriana* Chodat see *Tarenaya houtteana* (Schltdl.) Soares Neto & Roalson)	–	–	–	–	N/A
Cleretum bellidiforme (Burm.f.) G.D.Rowley	5000	5	0.5	–	N/A
Cobaea scandens Cav.	5000	200	50	–	N/A
Coix lacryma-jobi L.	5000	600	150	–	N/A
Coleostephus multicaulis (Desf.) Durieu	5000	30	8	–	N/A
Coleus scutellarioides (L.) Benth. (previously *Plectranthus scutellarioides* (L.) R.Br.)	5000	10	2	–	N/A
Consolida ajacis (L.) Schur	5000	30	8	–	N/A
Consolida regalis Gray	5000	30	8	–	N/A
Convolvulus tricolor L.	5000	100	25	–	N/A
Corchorus capsularis L.	10000	150	15	150	N/A
Corchorus olitorius L.	10000	150	15	150	N/A
Coreopsis basalis (A.Dietr.) S.F.Blake	5000	20	5	–	N/A
(*Coreopsis drummondii* (D.Don) Torr. & A.Gray see *C. basalis* (A.Dietr.) S.F.Blake)	–	–	–	–	N/A
Coreopsis lanceolata L.	5000	20	5	–	N/A
Coreopsis maritima (Nutt.) Hook.f.	5000	5	1	–	N/A
Coreopsis tinctoria Nutt.	5000	5	1	–	N/A
Coriandrum sativum L.	10000	400	40	400	N/A
Cornus mas L.	1000	1000	600	–	100
Cornus sanguinea L.	1000	300	150	–	100
Corylus avellana L.	5000	500 fruits	500 fruits	–	50
Corymbia citriodora (Hook.) K.D.Hill & L.A.S.Johnson	1000	40	15	–	50
Corymbia ficifolia (F.Muell.) K.D.Hill & L.A.S.Johnson	1000	40	15	–	50
Corymbia maculata (Hook.) K.D.Hill & L.A.S.Johnson	1000	40	15	–	50
Cosmos bipinnatus Cav.	5000	80	20	–	N/A
Cosmos sulphureus Cav.	5000	80	20	–	N/A
Cotoneaster spp.	1000	40	20	–	50
Crambe hispanica L. subsp. *abyssinica* (Hochst. ex R.E.Fr.) Prina	10000	200	20	200	N/A
Crataegus monogyna Jacq.	1000	400	200	–	100
Crotalaria brevidens Benth. (includes *C. intermedia* Kotschy)	10000	150	15	150	N/A
Crotalaria juncea L.	10000	700	70	700	N/A
Crotalaria lanceolata E.Mey.	10000	70	7	70	N/A
Crotalaria pallida Aiton	10000	150	15	150	N/A
Crotalaria spectabilis Roth	10000	350	35	350	N/A
Cryptomeria japonica (L.f.) D.Don	1000	20	10	–	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Cucumis spp.	10 000	150	70	–	50
Cucumis melo L.	10 000	150	70	–	50
Cucumis sativus L.	10 000	150	70	–	50
Cucurbita spp.	10 000	350	180	–	50
Cucurbita hybrids	10 000	350	180	–	50
Cucurbita maxima Duchesne	20 000	1 000	700	1 000	50
Cucurbita moschata Duchesne	10 000	350	180	–	50
Cucurbita pepo L.	20 000	1 000	700	1 000	50
Cuminum cyminum L.	10 000	60	6	60	50
Cupressus arizonica Greene	1 000	60	30	–	50
Cupressus macrocarpa Hartw.	1 000	40	20	–	50
Cupressus nootkatensis D.Don	1 000	20	10	–	50
Cupressus sempervirens L.	1 000	40	20	–	50
Cyamopsis tetragonoloba (L.) Taub.	20 000	1 000	100	1 000	N/A
Cyclamen persicum Mill.	5 000	100	30	–	N/A
Cydonia oblonga Mill.	1 000	50	25	–	50
Cymbalaria muralis G.Gaertn. *et al.*	5 000	5	0.2	–	N/A
Cynara cardunculus L.	10 000	900	90	900	N/A
Cynodon dactylon (L.) Pers.	10 000	10	1	10	50
Cynoglossum amabile Stapf & J.R.Drumm.	5 000	40	10	–	N/A
Cynosurus cristatus L.	10 000	20	2	20	50
Cytisus scoparius (L.) Link	1 000	40	20	–	100
Dactylis glomerata L.	10 000	30	3	30	50
Dahlia pinnata Cav.	5 000	80	20	–	N/A
Datura metel L.	5 000	100	25	–	N/A
Datura stramonium L.	5 000	100	25	–	N/A
Daucus carota L.	10 000	30	3	30	50
Delphinium ×belladonna hort. ex Bergmans	5 000	20	4	–	N/A
Delphinium ×cultorum Voss	5 000	20	4	–	N/A
Delphinium cardinale Hook.	5 000	20	4	–	N/A
Delphinium formosum Boiss. & A.Huet	5 000	20	4	–	N/A
Delphinium grandiflorum L.	5 000	20	4	–	N/A
Deschampsia cespitosa (L.) P.Beauv.	10 000	10	1	10	50
Desmodium intortum (Mill.) Urb.	10 000	40	4	40	N/A
Desmodium uncinatum (Jacq.) DC.	20 000	120	12	120	N/A
Dianthus barbatus L.	5 000	10	3	–	N/A
Dianthus caryophyllus L.	5 000	20	5	–	N/A
Dianthus chinensis L.	5 000	10	3	–	N/A
Dianthus deltoides L.	5 000	20	0.5	–	N/A
Dianthus plumarius L.	5 000	20	5	–	N/A
Dichanthium aristatum (Poir.) C.E.Hubb.	10 000	30	3	30	N/A
Dichondra micrantha Urb.	10 000	50	5	50	N/A
Digitalis lanata Ehrh.	5 000	5	1	–	N/A
Digitalis purpurea L.	5 000	5	0.2	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
(*Digitaria decumbens* Stent see *Digitaria eriantha* Steud.)	–	–	–	–	N/A
Digitaria eriantha Steud.	10 000	12	1.2	12	N/A
Dimorphotheca ecklonis DC.	5 000	40	10	–	N/A
Dimorphotheca pluvialis (L.) Moench	5 000	40	10	–	N/A
Dimorphotheca tragus (Aiton) DC.	5 000	40	10	–	N/A
Diplotaxis tenuifolia (L.) DC.	10 000	8	0.8	8	N/A
Doronicum orientale Hoffm.	5 000	10	2	–	N/A
Echinacea purpurea (L.) Moench	5 000	20	5	–	N/A
Echinochloa crus-galli (L.) P.Beauv.	10 000	80	8	80	N/A
Echinops ritro L.	5 000	80	20	–	N/A
Echium candicans L.f.	5 000	40	10	–	N/A
Echium plantagineum L.	5 000	40	10	–	N/A
Ehrharta calycina Sm.	10 000	40	4	40	N/A
Elaeagnus angustifolia L.	1 000	800	400	–	100
Eleusine coracana (L.) Gaertn.	10 000	60	6	60	N/A
Elymus lanceolatus (Scribn. & J.G.Sm.) Gould	10 000	80	8	80	50
Elymus repens (L.) Gould	10 000	100	10	100	50
Elymus trachycaulus (Link) Gould	10 000	80	8	80	50
Eragrostis curvula (Schrad.) Nees	10 000	10	1	10	N/A
Eragrostis tef (Zuccagni) Trotter	10 000	10	1	10	N/A
Erigeron speciosus (Lindl.) DC.	5 000	5	0.5	–	N/A
Eruca vesicaria (L.) Cav. subsp. *sativa* (Mill.) Thell.	10 000	40	4	40	N/A
Erysimum cheiri (L.) Crantz	5 000	10	3	–	N/A
Erysimum ×*marshallii* (Henfr.) Bois	5 000	10	3	–	N/A
Erythranthe cardinalis (Douglas ex Benth.) Spach (previously *Mimulus cardinalis* Douglas ex Benth.)	5 000	5	0.2	–	N/A
Erythranthe cuprea (hort. ex Dombrain) G.L.Nesom (previously *Mimulus cupreus* hort. ex Dombrain)	5 000	5	0.2	–	N/A
Erythranthe ×*hybrida* (hort. ex Voss) Silverside (previously *Mimulus* ×*hybridus* hort. ex Voss)	5 000	5	0.2	–	N/A
Erythranthe lutea (L.) G.L.Nesom (previously *Mimulus luteus* L.)	5 000	5	0.2	–	N/A
Eschscholzia californica Cham.	5 000	20	5	–	N/A
Eucalyptus astringens (Maiden) Maiden	1 000	40	15	–	50
Eucalyptus botryoides Sm.	1 000	15	5	–	50
Eucalyptus bridgesiana R.T.Baker	1 000	30	10	–	50
Eucalyptus camaldulensis Dehnh.	1 000	15	5	–	50
Eucalyptus cinerea F.Muell. ex Benth.	1 000	30	10	–	50
Eucalyptus cladocalyx F.Muell.	1 000	40	15	–	50
Eucalyptus cloeziana F.Muell.	1 000	40	15	–	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Eucalyptus cypellocarpa L.A.S.Johnson	1 000	30	10	–	50
Eucalyptus dalrympleana Maiden	1 000	30	10	–	50
Eucalyptus deanei Maiden	1 000	15	5	–	50
Eucalyptus deglupta Blume	1 000	10	2	–	50
Eucalyptus delegatensis R.T.Baker	1 000	40	15	–	50
Eucalyptus elata Dehnh.	1 000	40	15	–	50
Eucalyptus fastigata H.Deane & Maiden	1 000	40	15	–	50
Eucalyptus glaucescens Maiden & Blakely	1 000	40	15	–	50
Eucalyptus globulus Labill.	1 000	60	20	–	50
Eucalyptus grandis W.Hill ex Maiden	1 000	15	5	–	50
Eucalyptus gunnii Hook.f.	1 000	15	5	–	50
Eucalyptus largiflorens F.Muell.	1 000	15	5	–	50
Eucalyptus leucoxylon F.Muell.	1 000	30	10	–	50
Eucalyptus macrorhyncha F.Muell. ex Benth.	1 000	40	15	–	50
Eucalyptus maidenii F.Muell.	1 000	60	20	–	50
Eucalyptus mannifera Mudie	1 000	15	5	–	50
Eucalyptus melliodora A.Cunn. ex Schauer	1 000	30	10	–	50
Eucalyptus microtheca F.Muell.	1 000	15	5	–	50
Eucalyptus moluccana Roxb.	1 000	30	10	–	50
Eucalyptus muelleriana A.W.Howitt	1 000	60	20	–	50
Eucalyptus nitens (H.Deane & Maiden) Maiden	1 000	30	10	–	50
Eucalyptus pauciflora Sieber ex Spreng. (includes *E. niphophila* Maiden & Blakely)	1 000	60	20	–	50
Eucalyptus pilularis Sm.	1 000	60	20	–	50
Eucalyptus polybractea R.T.Baker	1 000	60	20	–	50
Eucalyptus pseudoglobulus Naudin ex Maiden	1 000	60	20	–	50
Eucalyptus radiata Sieber ex DC.	1 000	40	15	–	50
Eucalyptus regnans F.Muell.	1 000	30	10	–	50
Eucalyptus resinifera Sm.	1 000	30	10	–	50
Eucalyptus robusta Sm.	1 000	15	5	–	50
Eucalyptus rudis Endl.	1 000	15	5	–	50
(*Eucalyptus saint-johnii* (R.T.Baker) R.T.Baker see *Eucalyptus pseudoglobulus* Naudin ex Maiden)	–	–	–	–	N/A
Eucalyptus saligna Sm.	1 000	15	5	–	50
Eucalyptus sideroxylon A.Cunn. ex Woolls	1 000	30	10	–	50
Eucalyptus sieberi L.A.S.Johnson	1 000	40	15	–	50
Eucalyptus smithii R.T.Baker	1 000	30	10	–	50
Eucalyptus tereticornis Sm.	1 000	15	5	–	50
Eucalyptus viminalis Labill.	1 000	30	10	–	50
Euonymus europaeus L.	1 000	200	100	–	100
Eustoma exaltatum (L.) Salisb. ex G.Don	5 000	5	0.2	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Fagopyrum esculentum Moench	10000	600	60	600	100
Fagus sylvatica L.	5000	1000	600	–	100
Fatsia japonica (Thunb.) Decne. & Planch.	5000	60	15	–	N/A
Felicia heterophylla (Cass.) Grau	5000	20	5	–	N/A
Festuca arundinacea Schreb.	10000	50	5	50	50
Festuca filiformis Pourr.	10000	25	2.5	25	50
Festuca heterophylla Lam.	10000	60	6	60	50
Festuca ovina L. (all varieties)	10000	25	2.5	25	50
Festuca pratensis Huds.	10000	50	5	50	50
Festuca rubra L. s.l. (all varieties)	10000	30	3	30	50
Festuca trachyphylla (Hack.) R.P.Murray	10000	25	2.5	25	50
×*Festulolium* Asch. & Graebn.	10000	60	6	60	N/A
Foeniculum vulgare Mill.	10000	180	18	180	N/A
Fragaria spp.	10000	10	1	10	N/A
Fraxinus spp.	1000	400	200	–	100
Freesia refracta (Jacq.) Klatt	5000	100	25	–	N/A
Gaillardia aristata Pursh	5000	30	8	–	N/A
Gaillardia pulchella Foug.	5000	20	6	–	N/A
Galega officinalis L.	5000	80	20	–	N/A
Galega orientalis Lam.	10000	200	20	200	50
Galeopsis segetum Neck.	5000	20	4	–	N/A
Gazania rigens (L.) Gaertn.	5000	20	5	–	N/A
Gentiana acaulis L.	5000	5	0.7	–	N/A
Geranium hybrids	5000	40	10	–	N/A
Gerbera jamesonii Adlam	5000	40	10	–	N/A
Geum coccineum Sm.	5000	20	5	–	N/A
Geum quellyon Sweet	5000	20	5	–	N/A
Gilia tricolor Benth.	5000	5	1	–	N/A
Ginkgo biloba L.	5000	500 seeds	500 seeds	–	100
Glandularia canadensis (L.) Nutt.	5000	20	6	–	N/A
Glandularia ×*hybrida* (hort. ex Groenl. & Rümpler) G.L.Nesom & Pruski	5000	20	6	–	N/A
Glebionis carinata (Schousb.) Tzvelev	5000	30	8	–	N/A
Glebionis coronaria (L.) Cass. ex Spach	5000	30	8	–	N/A
Glebionis segetum (L.) Fourr.	5000	30	8	–	N/A
Gleditsia triacanthos L.	1000	800	400	–	100
Glycine max (L.) Merr.	30000	1000	500	1000	100
Gomphrena globosa L.	5000	40	10	–	N/A
Goniolimon tataricum (L.) Boiss.	5000	20	5	–	N/A
Gossypium spp.	25000	1000	350	1000	100
Grevillea robusta A.Cunn. ex R.Br.	5000	80	20	–	N/A
Gypsophila elegans M.Bieb.	5000	10	2	–	N/A
Gypsophila paniculata L.	5000	10	2	–	N/A
Gypsophila repens L.	5000	10	2	–	N/A
Gypsophila vaccaria (L.) Sm. (previously *Vaccaria hispanica* (Mill.) Rauschert)	5000	20	5	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
(*Hedysarum coronarium* L. see *Sulla coronaria* (L.) B.H.Choi & H.Ohashi)	–	–	–	–	N/A
Helenium autumnale L.	5 000	5	0.9	–	N/A
Helianthemum nummularium (L.) Mill.	5 000	20	5	–	N/A
Helianthus annuus L.	25 000	1 000	200	1 000	50
Helianthus debilis Nutt.	10 000	150	40	–	N/A
Heliopsis helianthoides (L.) Sweet	5 000	40	10	–	N/A
Heliotropium arborescens L.	5 000	5	1	–	N/A
Hesperis matronalis L.	5 000	20	5	–	N/A
Heteranthemis viscidehirta Schott	5 000	30	8	–	N/A
Heuchera sanguinea Engelm.	5 000	5	0.1	–	N/A
Hibiscus cannabinus L.	10 000	700	70	700	N/A
Hibiscus trionum L.	5 000	40	10	–	N/A
Hippeastrum hybrids	5 000	80	20	–	N/A
Holcus lanatus L.	10 000	10	1	10	50
Hordeum vulgare L.	30 000	1 000	120	1 000	100
Hordeum vulgare L. subsp. *vulgare*	30 000	1 000	120	1 000	100
Hypericum perforatum L.	5 000	5	0.3	–	N/A
Hyssopus officinalis L.	5 000	10	3	–	N/A
Iberis amara L.	5 000	20	6	–	N/A
Iberis gibraltarica L.	5 000	10	3	–	N/A
Iberis sempervirens L.	5 000	10	3	–	N/A
Iberis umbellata L.	5 000	10	3	–	N/A
Ilex aquifolium L.	1 000	200	90	–	100
Impatiens balsamina L.	5 000	100	25	–	N/A
Impatiens walleriana Hook.f.	5 000	10	2	–	N/A
Inula helenium L.	5 000	20	4	–	N/A
Ipomoea alba L.	10 000	400	100	–	N/A
Ipomoea aquatica Forssk.	20 000	1 000	100	1 000	N/A
Ipomoea purpurea (L.) Roth	10 000	400	100	–	N/A
Ipomoea quamoclit L.	10 000	200	50	–	N/A
Ipomoea tricolor Cav.	10 000	400	100	–	N/A
Jacobaea maritima (L.) Pelser & Meijden	5 000	5	0.5	–	N/A
Juniperus communis L. (seeds)	1 000	40	20	–	100
Juniperus communis L. (berries)	1 000	300	150	–	100
Juniperus scopulorum Sarg.	1 000	70	35	–	100
Juniperus virginiana L.	1 000	100	50	–	100
Kalanchoe blossfeldiana Poelln.	5 000	5	0.1	–	N/A
Kalanchoe crenata (Andrews) Haw.	5 000	5	0.1	–	N/A
Kalanchoe globulifera H.Perrier	5 000	5	0.1	–	N/A
Kniphofia uvaria (L.) Oken	5 000	10	3	–	N/A
Koeleria macrantha (Ledeb.) Schult.	10 000	10	1	10	N/A
Koelreuteria paniculata Laxm.	1 000	800	400	–	100
Kummerowia stipulacea (Maxim.) Makino	10 000	50	5	50	N/A
Kummerowia striata (Thunb.) Schindl.	10 000	40	4	40	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Lablab purpureus (L.) Sweet	20 000	1 000	600	1 000	N/A
Laburnum alpinum (Mill.) J.Presl	1 000	140	70	–	100
Laburnum anagyroides Medik.	1 000	140	70	–	100
Lactuca sativa L.	10 000	30	3	30	50
Lagenaria siceraria (Molina) Standl.	20 000	1 000	500	1 000	N/A
Larix decidua Mill.	1 000	35	17	–	50
Larix gmelinii (Rupr.) Rupr.	1 000	25	10	–	50
Larix kaempferi (Lamb.) Carrière	1 000	24	10	–	50
Larix laricina (Du Roi) K.Koch	1 000	25	10	–	50
Larix ×marschlinsi Coaz	1 000	35	16	–	50
Larix occidentalis Nutt.	1 000	25	10	–	50
Larix sibirica Ledeb.	1 000	25	10	–	50
Lathyrus cicera L.	20 000	1 000	140	1 000	100
Lathyrus hirsutus L.	10 000	700	70	700	100
Lathyrus latifolius L.	10 000	400	100	–	100
Lathyrus odoratus L.	10 000	600	150	–	100
Lathyrus sativus L.	20 000	1 000	450	1 000	100
Lavandula angustifolia Mill.	5 000	10	2	–	N/A
Lavatera trimestris L.	5 000	40	10	–	N/A
Legousia speculum-veneris (L.) Chaix	5 000	5	1	–	N/A
Lens culinaris Medik.	30 000	600	60	600	N/A
Leontopodium nivale (Ten.) Hand.-Mazz.	5 000	5	0.1	–	N/A
Leonurus cardiaca L.	5 000	10	2	–	N/A
Lepidium sativum L.	10 000	60	6	60	50
Lespedeza juncea (L.f.) Pers.	10 000	30	3	30	N/A
Leucaena leucocephala (Lam.) de Wit	20 000	1 000	100	1 000	N/A
Leucanthemum maximum (Ramond) DC.	5 000	20	5	–	N/A
Leucanthemum vulgare Lam.	5 000	20	5	–	N/A
Levisticum officinale W.D.J.Koch	5 000	30	8	–	N/A
Liatris pycnostachya Michx.	5 000	30	8	–	N/A
Liatris spicata (L.) Willd.	5 000	30	8	–	N/A
Ligustrum vulgare L.	1 000	100	50	–	100
Lilium regale E.H.Wilson	5 000	40	10	–	N/A
Limonium bellidifolium (Gouan) Dumort.	5 000	20	5	–	N/A
Limonium coriarium H.Arnaud	5 000	20	5	–	N/A
(*Limonium gerberi* Soldano see *Limonium coriarium* H.Arnaud)	–	–	–	–	N/A
Limonium sinuatum (L.) Mill. (seeds)	5 000	20	6	–	N/A
Limonium sinuatum (L.) Mill. (heads)	5 000	200	50	–	N/A
Limonium sinuatum (L.) Mill. subsp. *bonduellei* (T.Lestib.) Sauvage & Vindt	5 000	200	50	–	N/A
Limonium sinuatum (L.) Mill. subsp. *sinuatum* (seeds)	5 000	20	6	–	N/A
Limonium sinuatum (L.) Mill. subsp. *sinuatum* (heads)	5 000	200	50	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Linaria bipartita (Vent.) Willd.	5 000	5	0.2	–	N/A
Linaria maroccana Hook.f.	5 000	5	0.4	–	N/A
Linaria vulgaris Mill.	5 000	5	0.2	–	N/A
Linum flavum L.	5 000	20	5	–	N/A
Linum grandiflorum Desf.	5 000	40	10	–	N/A
Linum narbonense L.	5 000	20	5	–	N/A
Linum perenne L.	5 000	20	5	–	N/A
Linum usitatissimum L.	10 000	150	15	150	50
Liquidambar styraciflua L.	300	30	15	–	50
Liriodendron tulipifera L.	1 000	180	90	–	100
Listia bainesii (Baker) B.-E.van Wyk & Boatwr.	10 000	10	1	10	N/A
Lobelia cardinalis L. (includes *L. fulgens* Humb. & Bonpl. ex Willd.)	5 000	5	0.1	–	N/A
Lobelia erinus L.	5 000	5	0.2	–	N/A
Lobularia maritima (L.) Desv.	5 000	5	1	–	N/A
Lolium ×hybridum Hausskn.	10 000	60	6	60	50
Lolium multiflorum Lam.	10 000	60	6	60	50
Lolium perenne L.	10 000	60	6	60	50
Lolium rigidum Gaudin	10 000	60	6	60	50
Lomelosia caucasica (M.Bieb.) Greuter & Burdet	5 000	80	20	–	N/A
Lonas annua (L.) Vines & Druce	5 000	5	0.6	–	N/A
Lotus corniculatus L.	10 000	30	3	30	50
Lotus tenuis Waldst. & Kit. ex Willd.	10 000	30	3	30	50
Lotus uliginosus Schkuhr	10 000	20	2	20	50
Luffa acutangula (L.) Roxb.	20 000	1 000	400	1 000	N/A
Luffa aegyptiaca Mill.	20 000	1 000	250	1 000	N/A
Lunaria annua L.	5 000	80	20	–	N/A
Lupinus hybrids	10 000	200	60	–	N/A
Lupinus albus L.	30 000	1 000	450	1 000	100
Lupinus angustifolius L.	30 000	1 000	450	1 000	100
Lupinus luteus L.	30 000	1 000	450	1 000	100
Lupinus mexicanus Cerv. ex Lag.	10 000	200	60	–	N/A
Lupinus nanus Douglas ex Benth.	10 000	200	60	–	N/A
Lupinus polyphyllus Lindl.	10 000	200	60	–	N/A
Lysimachia arvensis (L.) U.Manns & Anderb.	5 000	10	2	–	N/A
Macroptilium atropurpureum (DC.) Urb.	20 000	350	35	350	100
Macroptilium lathyroides (L.) Urb.	20 000	200	20	200	N/A
Macrotyloma axillare (E.Mey.) Verdc.	20 000	250	25	250	N/A
Macrotyloma uniflorum (Lam.) Verdc.	20 000	800	80	800	N/A
Mahonia aquifolium (Pursh) Nutt.	1 000	60	30	–	50
Malcolmia maritima (L.) W.T.Aiton	5 000	10	3	–	N/A
Malope trifida Cav.	5 000	20	5	–	N/A
Malus spp. (except *M. sargentii*, *M. sylvestris*)	1 000	50	25	–	50
Malus sargentii Rehder	1 000	24	12	–	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Malus sylvestris (L.) Mill.	1000	160	80	–	100
Malva sylvestris L.	5000	30	15	–	50
Marrubium vulgare L.	5000	10	2	–	N/A
Matricaria chamomilla L.	5000	5	0.5	–	N/A
Matthiola incana (L.) W.T.Aiton	5000	20	4	–	N/A
Matthiola longipetala (Vent.) DC.	5000	10	2	–	N/A
Medicago arabica (L.) Huds. (in burr)	10000	600	60	600	50
Medicago arabica (L.) Huds. (out of burr)	10000	50	5	50	50
Medicago italica (Mill.) Fiori	10000	100	10	100	50
Medicago littoralis Rohde ex Loisel.	10000	70	7	70	50
Medicago lupulina L.	10000	50	5	50	50
Medicago orbicularis (L.) Bartal.	10000	80	8	80	50
Medicago polymorpha L.	10000	70	7	70	50
Medicago rugosa Desr.	10000	180	18	180	50
Medicago sativa L.	10000	50	5	50	50
Medicago scutellata (L.) Mill.	10000	400	40	400	50
(*Medicago tornata* (L.) Mill. see *M. italica* (Mill.) Fiori)	–	–	–	–	N/A
Medicago truncatula Gaertn.	10000	100	10	100	50
Megathyrsus maximus (Jacq.) B.K.Simon & S.W.L.Jacobs	10000	20	2	20	50
Melilotus albus Medik.	10000	50	5	50	50
Melilotus indicus (L.) All.	10000	50	5	50	50
Melilotus officinalis (L.) Lam.	10000	50	5	50	50
Melinis minutiflora P.Beauv.	10000	5	0.5	5	N/A
Melissa officinalis L.	5000	10	2	–	N/A
Mentha ×piperita L.	5000	5	0.5	–	N/A
Mimosa pudica L.	5000	40	10	–	N/A
(*Mimulus cardinalis* Douglas ex Benth. see *Erythranthe cardinalis* (Douglas ex Benth.) Spach)	–	–	–	–	N/A
(*Mimulus ×hybridus* hort. ex Voss see *Erythranthe ×hybrida* (hort. ex Voss) Silverside)	–	–	–	–	N/A
(*Mimulus cupreus* hort. ex Dombrain see *Erythranthe cuprea* (hort. ex Dombrain) G.L.Nesom)	–	–	–	–	N/A
(*Mimulus luteus* L. see *Erythranthe lutea* (L.) G.L.Nesom)	–	–	–	–	N/A
Mirabilis jalapa L.	10000	800	200	–	N/A
Moluccella laevis L.	5000	100	25	–	N/A
Momordica charantia L.	20000	1000	450	1000	N/A
Morus spp.	1000	20	5	–	50
Mucuna pruriens (L.) DC.	20000	1000	1000	1000	N/A
Myosotis hybrids	5000	10	2	–	N/A
Myosotis scorpioides L.	5000	10	2	–	N/A
Myosotis sylvatica Hoffm.	5000	10	2	–	N/A
Nasturtium officinale W.T.Aiton	10000	5	0.5	5	N/A
Nemesia strumosa Benth.	5000	5	1	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Nemesia versicolor E.Mey. ex Benth.	5 000	5	1	–	N/A
Nemophila maculata Benth. ex Lindl.	5 000	20	5	–	N/A
Nemophila menziesii Hook. & Arn.	5 000	20	5	–	N/A
Neonotonia wightii (Wight & Arn.) J.A.Lackey	10 000	150	15	150	N/A
Nepeta cataria L.	5 000	10	2	–	N/A
Neustanthus phaseoloides (Roxb.) Benth.	20 000	300	30	300	N/A
Nicotiana alata Link & Otto	5 000	5	0.2	–	N/A
Nicotiana ×sanderae W.Watson	5 000	5	0.2	–	N/A
Nicotiana suaveolens Lehm.	5 000	5	0.5	–	N/A
Nicotiana tabacum L.	10 000	5	0.5	5	50
Nierembergia hippomanica Miers	5 000	5	0.5	–	N/A
Nigella damascena L.	5 000	20	6	–	N/A
Nigella hispanica L.	5 000	20	6	–	N/A
Nigella sativa L.	5 000	40	10	–	N/A
Nothofagus alpina (Poepp. & Endl.) Oerst.	1 000	50	25	–	50
Nothofagus obliqua (Mirb.) Blume	1 000	60	30	–	50
(*Nothofagus procera* Oerst. see *N. alpina* (Poepp. & Endl.) Oerst.)	–	–	–	–	N/A
Ocimum basilicum L.	10 000	40	4	40	N/A
Oenothera biennis L.	10 000	10	1	10	N/A
Oenothera macrocarpa Nutt.	5 000	40	10	–	N/A
Oloptum miliaceum (L.) Röser & Hamasha	10 000	20	2	20	N/A
Onobrychis viciifolia Scop. (seed)	10 000	400	40	400	50
Onobrychis viciifolia Scop. (fruit)	10 000	600	60	600	50
Origanum majorana L.	10 000	5	0.5	5	N/A
Origanum vulgare L.	10 000	5	0.5	5	N/A
Ornithopus compressus L.	10 000	120	12	120	N/A
Ornithopus sativus Brot.	10 000	90	9	90	50
Oryza sativa L.	30 000	700	70	700	100
Panicum antidotale Retz.	10 000	20	2	20	50
Panicum coloratum L.	10 000	20	2	20	50
Panicum miliaceum L.	10 000	150	15	150	50
Panicum virgatum L.	10 000	30	3	30	50
Papaver alpinum L.	5 000	5	0.5	–	N/A
Papaver glaucum Boiss. & Hausskn.	5 000	5	0.5	–	N/A
Papaver nudicaule L.	5 000	5	0.5	–	N/A
Papaver orientale L.	5 000	5	1	–	N/A
Papaver rhoeas L.	5 000	5	0.5	–	N/A
Papaver somniferum L.	10 000	10	1	10	50
Pascopyrum smithii (Rydb.) Barkworth & D.R.Dewey	10 000	150	15	150	N/A
Paspalum dilatatum Poir.	10 000	50	5	50	50
Paspalum notatum Flüggé	10 000	70	7	70	50
Paspalum plicatulum Michx.	10 000	40	4	40	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Paspalum scrobiculatum L.	10000	80	8	80	50
Paspalum urvillei Steud.	10000	30	3	30	50
Paspalum virgatum L.	10000	30	3	30	50
Pastinaca sativa L.	10000	100	10	100	50
Pelargonium Zonale Group	5000	80	20	–	N/A
Pennisetum clandestinum Hochst. ex Chiov.	10000	70	7	70	N/A
Pennisetum glaucum (L.) R.Br.	10000	150	15	150	N/A
Penstemon hybrids	5000	10	2	–	N/A
Penstemon barbatus (Cav.) Roth	5000	10	2	–	N/A
Penstemon hartwegii Benth.	5000	10	2	–	N/A
Pericallis cruenta (Masson ex L'Hér.) Bolle	5000	5	0.5	–	N/A
Perilla frutescens (L.) Britton	5000	10	3	–	N/A
Petroselinum crispum (Mill.) Fuss	10000	40	4	40	50
Petunia ×atkinsiana (Sweet) D.Don ex W.H.Baxter	5000	5	0.2	–	N/A
Phacelia campanularia A.Gray	5000	10	2	–	N/A
Phacelia tanacetifolia Benth.	10000	50	5	50	50
Phalaris aquatica L.	10000	40	4	40	50
Phalaris arundinacea L.	10000	30	3	30	50
Phalaris canariensis L.	10000	200	20	200	50
Phaseolus coccineus L.	30000	1000	1000	1000	100
Phaseolus lunatus L.	30000	1000	1000	1000	100
Phaseolus vulgaris L.	30000	1000	700	1000	100
Phleum nodosum L.	10000	10	1	10	50
Phleum pratense L.	10000	10	1	10	50
Phlox drummondii Hook.	5000	20	5	–	N/A
Phlox paniculata L.	5000	20	5	–	N/A
Phlox subulata L.	5000	20	5	–	N/A
Pholistoma auritum (Lindl.) Lilja	5000	20	5	–	N/A
Physalis alkekengi L.	5000	20	4	–	N/A
Physalis pubescens L.	10000	20	2	20	N/A
Picea abies (L.) H.Karst.	1000	40	20	–	50
Picea engelmannii Engelm.	1000	16	8	–	50
Picea glauca (Moench) Voss	1000	10	5	–	50
Picea glehnii (F.Schmidt) Mast.	1000	25	9	–	50
Picea jezoensis (Siebold & Zucc.) Carrière	1000	25	7	–	50
Picea koyamae Shiras.	1000	25	9	–	50
Picea mariana (Mill.) Britton *et al.*	1000	6	3	–	50
Picea omorika (Pančić) Purk.	1000	25	8	–	50
Picea orientalis (L.) Link	1000	30	15	–	50
Picea polita (Siebold & Zucc.) Carrière	1000	80	40	–	50
Picea pungens Engelm.	1000	30	15	–	50
Picea rubens Sarg.	1000	25	9	–	50
Picea sitchensis (Bong.) Carrière	1000	12	6	–	50
Pimpinella anisum L.	10000	70	7	70	N/A
Pimpinella major (L.) Huds.	5000	20	5	–	N/A
Pimpinella saxifraga L.	5000	20	5	–	N/A
Pinus albicaulis Engelm.	1000	700	350	–	50
Pinus aristata Engelm.	1000	100	50	–	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Pinus banksiana Lamb.	1 000	25	9	–	50
Pinus brutia Ten.	1 000	100	50	–	50
Pinus canariensis C.Sm.	1 000	60	30	–	50
Pinus caribaea Morelet	1 000	100	50	–	50
Pinus cembra L.	1 000	1 000	700	–	50
Pinus cembroides Zucc.	1 000	1 000	700	–	50
Pinus clausa (Chapm. ex Engelm.) Vasey ex Sarg.	1 000	40	20	–	50
Pinus contorta Douglas ex Loudon	1 000	25	9	–	50
Pinus coulteri D.Don	1 000	1 000	900	–	50
Pinus densiflora Siebold & Zucc.	1 000	60	30	–	50
Pinus echinata Mill.	1 000	50	25	–	50
Pinus edulis Engelm.	1 000	1 000	700	–	50
Pinus elliottii Engelm.	1 000	160	80	–	50
Pinus flexilis E.James	1 000	500	250	–	50
Pinus glabra Walter	1 000	80	40	–	50
Pinus halepensis Mill.	1 000	100	50	–	50
Pinus heldreichii Christ	1 000	120	60	–	50
Pinus jeffreyi A.Murray bis *et al.*	1 000	600	300	–	50
Pinus kesiya Royle ex Gordon ('*khasya*')	1 000	80	40	–	50
Pinus koraiensis Siebold & Zucc.	1 000	2 000	1 000	–	50
Pinus lambertiana Douglas	1 000	1 000	500	–	50
Pinus merkusii Jungh. & de Vriese	1 000	120	60	–	50
Pinus monticola Douglas ex D.Don	1 000	90	45	–	50
Pinus mugo Turra	1 000	40	20	–	50
Pinus muricata D.Don	1 000	50	25	–	50
Pinus nigra J.F.Arnold	1 000	100	50	–	50
Pinus oocarpa Schiede ex Schltdl.	1 000	70	35	–	50
Pinus palustris Mill.	1 000	500	250	–	50
Pinus parviflora Siebold & Zucc.	1 000	500	250	–	50
Pinus patula Schltdl. & Cham.	1 000	40	20	–	50
Pinus peuce Griseb.	1 000	240	120	–	50
Pinus pinaster Aiton	1 000	240	120	–	50
Pinus pinea L.	1 000	1 000	1 000	–	50
Pinus ponderosa P.Lawson & C.Lawson	1 000	200	100	–	50
Pinus pumila (Pall.) Regel	1 000	40	20	–	50
Pinus radiata D.Don	1 000	160	80	–	50
Pinus resinosa Aiton	1 000	50	25	–	50
Pinus rigida Mill.	1 000	40	20	–	50
Pinus strobus L.	1 000	90	45	–	50
Pinus sylvestris L.	1 000	40	20	–	50
Pinus tabuliformis Carrière	1 000	100	50	–	50
Pinus taeda L.	1 000	140	70	–	50
Pinus taiwanensis Hayata	1 000	100	50	–	50
Pinus thunbergii Parl.	1 000	70	35	–	50
Pinus virginiana Mill.	1 000	50	25	–	50
Pinus wallichiana A.B.Jacks.	1 000	250	125	–	50
Pisum sativum L. s.l.	30 000	1 000	900	1 000	100
Plantago lanceolata L.	10 000	60	6	60	N/A
Platanus spp.	1 000	25	6	–	50
Platycladus orientalis (L.) Franco	1 000	120	60	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Plectocephalus americana (Nutt.) D.Don	5000	100	35	–	N/A
(*Plectranthus scutellarioides* (L.) R.Br. see *Coleus scutellarioides* (L.) Benth.)	–	–	–	–	N/A
Plerandra elegantissima (hort. Veitch ex Mast.) Lowry *et al*. (previously *Schefflera elegantissima* (hort. Veitch ex Mast.) Lowry & Frodin)	5000	20	6	–	N/A
Poa annua L.	10000	10	1	10	50
Poa bulbosa L.	10000	30	3	30	50
Poa compressa L.	10000	5	0.5	5	50
Poa nemoralis L.	10000	5	0.5	5	50
Poa palustris L.	10000	5	0.5	5	50
Poa pratensis L.	10000	5	1	5	50
Poa secunda J.Presl (includes *P. ampla* Merr.)	10000	15	1.5	15	50
Poa trivialis L.	10000	5	1	5	50
Populus spp.	50	5	2	–	50
Portulaca grandiflora Hook.	5000	5	0.3	–	N/A
Portulaca oleracea L.	10000	5	0.5	5	N/A
Primula auricula L.	5000	5	1	–	N/A
Primula denticulata Sm.	5000	5	0.5	–	N/A
Primula elatior (L.) Hill	5000	10	2	–	N/A
Primula japonica A.Gray	5000	5	1	–	N/A
Primula ×*kewensis* W.Watson	5000	5	0.5	–	N/A
Primula malacoides Franch.	5000	5	0.5	–	N/A
Primula obconica Hance	5000	5	0.5	–	N/A
Primula praenitens Ker Gawl.	5000	5	1	–	N/A
Primula veris L.	5000	5	1	–	N/A
Primula vulgaris Huds.	5000	5	1	–	N/A
Prunus spp. (TSW ≤ 200 g)	1000	1000	500	–	100
Prunus spp. (TSW > 200 g)	1000	500 seeds	500 seeds	–	100
Prunus avium (L.) L.	1000	900	450	–	100
Prunus padus L.	1000	360	180	–	100
Prunus persica (L.) Batsch	5000	500 seeds	500 seeds	–	100
Prunus serotina Ehrh.	1000	500	250	–	100
Psathyrostachys juncea (Fisch.) Nevski	10000	60	6	60	N/A
Psephellus dealbatus (Willd.) K.Koch	5000	40	10	–	N/A
Pseudoroegneria spicata (Pursh) Á.Löve	10000	80	8	80	N/A
Pseudotsuga menziesii (Mirb.) Franco	1000	60	30	–	50
Psophocarpus tetragonolobus (L.) DC.	20000	1000	1000	1000	N/A
Psylliostachys suworowii (Regel) Roshkova	5000	20	5	–	N/A
Pueraria montana (Lour.) Merr. var. *lobata* (Willd.) Maesen & S.M.Almeida ex Sanjappa & Predeep	10000	350	35	350	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Pyrus spp.	1 000	180	90	–	50
Quercus spp.	5 000	500 seeds	500 seeds	–	50
Ranunculus asiaticus L.	5 000	5	1	–	N/A
Raphanus sativus L.	10 000	300	30	300	50
Reseda odorata L.	5 000	10	3	–	N/A
Rheum palmatum L.	5 000	100	30	–	N/A
Rheum ×rhabarbarum L.	10 000	450	45	450	N/A
Rhodanthe chlorocephala (Turcz.) Paul G.Wilson (includes *Helipterum roseum* (Hook.) Benth.)	5 000	30	8	–	N/A
Rhodanthe humboldtiana (Gaudich.) Paul G.Wilson	5 000	30	8	–	N/A
Rhodanthe manglesii Lindl.	5 000	30	8	–	N/A
Ricinus communis L.	20 000	1 000	500	1 000	50
Robinia pseudoacacia L.	1 000	100	50	–	100
Rosa spp.	1 000	50	25	–	50
Rosmarinus officinalis L.	10 000	30	3	30	N/A
Rudbeckia fulgida Aiton	5 000	10	2	–	N/A
Rudbeckia hirta L.	5 000	5	1	–	N/A
Rumex acetosa L.	10 000	30	3	30	N/A
Ruta graveolens L.	5 000	20	6	–	N/A
Saintpaulia ionantha H.Wendl.	5 000	5	0.1	–	N/A
Salix spp.	50	5	2	–	50
Salpiglossis sinuata Ruiz & Pav.	5 000	5	1	–	N/A
Salvia coccinea Buc'hoz ex Etl.	5 000	30	8	–	N/A
Salvia farinacea Benth.	5 000	20	5	–	N/A
Salvia hispanica L.	10 000	35	3.5	35	N/A
Salvia officinalis L.	5 000	30	20	–	N/A
Salvia patens Cav.	5 000	30	8	–	N/A
Salvia pratensis L.	5 000	30	8	–	N/A
Salvia sclarea L.	5 000	80	20	–	N/A
Salvia splendens Sellow ex Nees	5 000	30	8	–	N/A
Salvia viridis L.	5 000	20	5	–	N/A
Sanguisorba minor Scop.	10 000	250	25	250	N/A
Sanvitalia procumbens Lam.	5 000	10	2	–	N/A
Saponaria calabrica Guss.	5 000	20	5	–	N/A
Saponaria ocymoides L.	5 000	20	5	–	N/A
Saponaria officinalis L.	5 000	20	5	–	N/A
Satureja hortensis L.	10 000	20	2	20	N/A
Scabiosa atropurpurea L.	5 000	60	15	–	N/A
(*Schefflera elegantissima* (hort. Veitch ex Mast.) Lowry & Frodin see *Plerandra elegantissima* (hort. Veitch ex Mast.) Lowry *et al.*)	–	–	–	–	N/A
Schizachyrium scoparium (Michx.) Nash	10 000	50	5	50	N/A
Schizanthus pinnatus Ruiz & Pav.	5 000	10	2	–	N/A
Scorzonera hispanica L.	10 000	300	30	300	50
Secale cereale L.	30 000	1 000	120	1 000	100
Securigera varia (L.) Lassen	10 000	100	10	100	N/A
Senecio elegans L.	5 000	5	0.5	–	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Senegalia spp.	1000	70	35	–	N/A
Sequoia sempervirens (D.Don) Endl.	1000	25	12	–	50
Sequoiadendron giganteum (Lindl.) J.Buchholz	1000	25	12	–	50
Sesamum indicum L.	10000	70	7	70	50
Setaria italica (L.) P.Beauv.	10000	90	9	90	50
Setaria sphacelata (Schumach.) Stapf & C.E.Hubb.	10000	30	3	30	50
Silene chalcedonica (L.) E.H.L.Krause	5000	5	1	–	N/A
Silene coronaria (L.) Clairv.	5000	20	5	–	N/A
Silene pendula L.	5000	10	2	–	N/A
Silybum marianum (L.) Gaertn.	5000	200	50	–	N/A
Sinapis alba L.	10000	200	20	200	50
Sinningia speciosa (Lodd. *et al.* ex Ker Gawl.) Hiern	5000	5	0.2	–	N/A
Solanum (sect. *Lycopersicon*) spp.	10000	15	7	–	50
Solanum (sect. *Lycopersicon*) hybrids	10000	15	7	–	50
Solanum giganteum Jacq.	5000	20	5	–	N/A
Solanum laciniatum Aiton	5000	20	5	–	N/A
Solanum lycopersicum L.	10000	15	7	–	50
Solanum marginatum L.f.	5000	20	5	–	N/A
Solanum melongena L.	10000	150	15	150	50
Solanum nigrum L.	10000	25	2.5	25	N/A
Solanum pseudocapsicum L.	5000	20	5	–	N/A
Solanum tuberosum L.	10000	25	10	–	N/A
Sorbus spp.	1000	25	10	–	50
Sorghastrum nutans (L.) Nash	10000	70	7	70	N/A
Sorghum ×*almum* Parodi	30000	200	20	200	100
Sorghum bicolor (L.) Moench subsp. *bicolor*	30000	900	90	900	100
Sorghum bicolor (L.) Moench subsp. *drummondii* (Steud.) de Wet ex Davidse	10000	250	25	250	100
Sorghum bicolor (L.) Moench ×*S. sudanense* (Piper) Stapf	30000	300	30	300	100
Sorghum halepense (L.) Pers.	10000	90	9	90	100
Spartium junceum L.	1000	40	20	–	100
Spergula arvensis L.	10000	40	4	40	N/A
Spinacia oleracea L.	10000	250	25	250	50
Stylosanthes guianensis (Aubl.) Sw.	10000	70	7	70	N/A
Stylosanthes hamata (L.) Taub.	10000	70	7	70	N/A
Stylosanthes humilis Kunth	10000	70	7	70	N/A
Stylosanthes scabra Vogel	10000	80	8	80	N/A
Styphnolobium japonicum (L.) Schott	1000	100	50	–	100
Sulla coronaria (L.) B.H.Choi & H.Ohashi (previously *Hedysarum coronarium* L.) (seed)	10000	120	12	120	N/A

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Sulla coronaria (L.) B.H.Choi & H.Ohashi (previously *Hedysarum coronarium* L.) (fruit)	10 000	300	30	300	N/A
Symphyotrichum dumosum (L.) G.L.Nesom	5 000	20	5	–	N/A
Syringa spp.	1 000	30	15	–	50
Tagetes erecta L.	5 000	40	10	–	N/A
Tagetes patula L.	5 000	40	10	–	N/A
Tagetes tenuifolia Cav.	5 000	20	5	–	N/A
Tanacetum achilleifolium (M.Bieb.) Sch. Bip.	5 000	30	8	–	N/A
Tanacetum cinerariifolium (Trevir.) Sch. Bip.	5 000	10	3	–	N/A
Tanacetum coccineum (Willd.) Grierson	5 000	30	8	–	N/A
Tanacetum parthenium (L.) Sch. Bip.	5 000	20	5	–	N/A
Taraxacum officinale F.H.Wigg., s.l.	10 000	30	3	30	N/A
Tarenaya houtteana (Schltdl.) Soares Neto & Roalson	5 000	20	5	–	N/A
Taxodium distichum (L.) Rich.	300	500	250	–	50
Taxus spp.	1 000	320	160	–	100
Tectona grandis L.f.	1 000	2 000	1 000	–	50
Tetragonia tetragonoides (Pall.) Kuntze	20 000	1 000	200	1 000	N/A
Thinopyrum elongatum (Host) D.R.Dewey	10 000	200	20	200	N/A
Thinopyrum intermedium (Host) Barkworth & D.R.Dewey	10 000	150	15	150	N/A
Thuja occidentalis L.	1 000	25	4	–	50
Thuja plicata Donn ex D.Don	1 000	10	3	–	50
Thunbergia alata Bojer ex Sims	5 000	200	50	–	N/A
Thymus serpyllum L.	5 000	5	0.5	–	N/A
Thymus vulgaris L.	10 000	5	0.5	5	N/A
Tilia cordata Mill.	1 000	180	90	–	100
Tilia platyphyllos Scop.	1 000	500	250	–	100
Torenia fournieri Linden ex E.Fourn.	5 000	5	0.2	–	N/A
Tragopogon porrifolius L.	10 000	400	40	400	N/A
Trifolium alexandrinum L.	10 000	60	6	60	50
Trifolium campestre Schreb.	10 000	5	0.5	5	50
Trifolium dubium Sibth.	10 000	20	2	20	50
Trifolium fragiferum L.	10 000	40	4	40	50
Trifolium glomeratum L.	10 000	10	1	10	50
Trifolium hirtum All.	10 000	70	7	70	50
Trifolium hybridum L.	10 000	20	2	20	50
Trifolium incarnatum L.	10 000	80	8	80	50
Trifolium lappaceum L.	10 000	20	2	20	50
Trifolium michelianum Savi (includes *T. balansae* Boiss.)	10 000	20	2	20	50
Trifolium pratense L.	10 000	50	5	50	50
Trifolium repens L.	10 000	20	2	20	50
Trifolium resupinatum L.	10 000	20	2	20	50

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
Trifolium semipilosum Fresen.	10 000	20	2	20	50
Trifolium squarrosum L.	10 000	150	15	150	50
Trifolium subterraneum L.	10 000	250	25	250	50
Trifolium vesiculosum Savi	10 000	30	3	30	50
Trigonella foenum-graecum L.	10 000	450	45	450	N/A
Tripleurospermum inodorum (L.) Sch. Bip.	5 000	5	0.5	–	N/A
Tripleurospermum maritimum (L.) W.D.J.Koch	5 000	5	0.5	–	N/A
Trisetum flavescens (L.) P.Beauv.	10 000	5	0.5	5	50
×*Triticosecale* Wittm. ex A.Camus	30 000	1 000	120	1 000	100
Triticum aestivum L.	30 000	1 000	120	1 000	100
Triticum aestivum L. subsp. *aestivum*	30 000	1 000	120	1 000	100
Triticum aestivum L. subsp. *spelta* (L.) Thell.	30 000	1 000	270	1 000	100
Triticum turgidum L. subsp. *dicoccon* (Schrank) Thell.	30 000	1 000	270	1 000	100
Triticum turgidum L. subsp. *durum* (Desf.) van Slageren	30 000	1 000	120	1 000	100
Tropaeolum majus L.	10 000	1 000	350	–	N/A
Tropaeolum peltophorum Benth.	10 000	1 000	350	–	N/A
Tropaeolum peregrinum L.	10 000	1 000	350	–	N/A
Tsuga canadensis (L.) Carrière	1 000	25	7	–	50
Tsuga heterophylla (Raf.) Sarg.	1 000	10	4	–	50
Ulmus americana L.	1 000	30	15	–	50
Ulmus parvifolia Jacq.	1 000	20	8	–	50
Ulmus pumila L.	1 000	30	15	–	50
Urochloa brizantha (Hochst. ex A.Rich.) R.D.Webster	10 000	100	10	100	50
Urochloa decumbens (Stapf) R.D.Webster	10 000	100	10	100	50
Urochloa humidicola (Rendle) Morrone & Zuloaga	10 000	100	10	100	50
Urochloa mosambicensis (Hack.) Dandy	10 000	30	3	30	50
Urochloa mutica (Forssk.) T.Q.Nguyen	10 000	30	3	30	50
Urochloa ramosa (L.) T.Q.Nguyen	10 000	90	9	90	50
Urochloa ruziziensis (R.Germ. & C.M.Evrard) Crins	20 000	150	15	150	50
(*Vaccaria hispanica* (Mill.) Rauschert see *Gypsophila vaccaria* (L.) Sm.)	–	–	–	–	N/A
Vachellia spp.	1 000	70	35	–	N/A
Valeriana officinalis L.	5 000	10	2	–	N/A
Valerianella locusta (L.) Laterr.	10 000	70	7	70	50
Verbascum densiflorum Bertol.	5 000	5	0.3	–	N/A
Verbascum phlomoides L.	5 000	5	0.5	–	N/A
Verbascum thapsus L.	5 000	5	0.5	–	N/A
Verbena bonariensis L.	5 000	20	6	–	N/A
Verbena rigida Spreng.	5 000	10	2	–	N/A
Viburnum opulus L.	1 000	160	80	–	100

Table 2C. Lot sizes and sample sizes (continued)

Species	Maximum weight of lot (kg) (except see 2.8 Note 2)	Minimum submitted sample (g)	Purity analysis (3.5.1)	Other seeds by number (4.5.1)	Minimum submitted sample for moisture testing (g)
1	2	3	4	5	6
(*Vicia angustifolia* L. see *V. sativa* L. subsp. *nigra* (L.) Ehrh.)	–	–	–	–	N/A
Vicia benghalensis L.	30 000	1 000	120	1 000	100
(*Vicia dasycarpa* Ten. see *V. villosa* Roth subsp. *varia* (Host) Corb.)	–	–	–	–	N/A
Vicia ervilia (L.) Willd.	30 000	1 000	120	1 000	100
Vicia faba L.	30 000	1 000	1 000	1 000	100
Vicia narbonensis L.	30 000	1 000	600	1 000	100
Vicia pannonica Crantz	30 000	1 000	120	1 000	100
Vicia sativa L.	30 000	1 000	140	1 000	100
Vicia sativa L. subsp. *nigra* (L.) Ehrh.	30 000	1 000	140	1 000	100
Vicia villosa Roth	30 000	1 000	100	1 000	100
Vicia villosa Roth subsp. *varia* (Host) Corb.	30 000	1 000	100	1 000	100
Vigna angularis (Willd.) Ohwi & H.Ohashi	30 000	1 000	250	1 000	100
Vigna marina (Burm.) Merr.	30 000	800	80	800	100
Vigna mungo (L.) Hepper	30 000	1 000	700	1 000	100
Vigna radiata (L.) R.Wilczek	30 000	1 000	120	1 000	100
Vigna subterranea (L.) Verdc.	30 000	1 000	500	1 000	100
Vigna unguiculata (L.) Walp.	30 000	1 000	400	1 000	100
Vinca minor L.	5 000	20	5	–	N/A
Viola cornuta L.	5 000	10	3	–	N/A
Viola odorata L.	5 000	10	3	–	N/A
Viola tricolor L.	5 000	10	3	–	N/A
Xeranthemum annuum L.	5 000	10	3	–	N/A
Xerochrysum bracteatum (Vent.) Tzvelev	5 000	10	2	–	N/A
Zea mays L.	40 000	1 000	900	1 000	100
Zelkova serrata (Thunb.) Makino	1 000	60	30	–	50
Zinnia elegans Jacq.	5 000	80	20	–	N/A
Zinnia haageana Regel	5 000	20	6	–	N/A
Zoysia japonica Steud.	10 000	10	1	10	N/A

3.9 Tolerance tables

Table 3C gives tolerances for comparing purity results on duplicate samples from the same submitted sample analysed in the same laboratory. It can be used for any component of a purity test. The table is used by entering it at the average of the two test results (columns 1 or 2). The appropriate tolerance is found in one of columns 3 to 6, determined as to whether the seeds are chaffy or non-chaffy and half or whole working samples have been analysed.

The tolerances in columns 5 and 6 are extracted from Miles (1963), Table P11, columns C and F respectively, and rounded to one decimal place. Those for half working samples, columns 3 and 4, are calculated from Table P11, columns C and F in Miles (1963) by multiplication with the square root of two.

Table 3D gives the tolerances for purity results made on two different submitted samples each drawn from the same lot and analysed in the same or a different laboratory. It can be used for any component of a purity test when the result of the second test is poorer than that of the first test. The table is used by entering it at the average of the two test results (columns 1 or 2). The appropriate tolerance is found in columns 3 or 4, determined as to whether the seeds are chaffy or non-chaffy.

The tolerances in columns 3 and 4 are extracted from columns D and G respectively of Table P1 in Miles (1963).

Table 3E gives the tolerances for purity results made on two different submitted samples each drawn from the same lot and analysed in the same or a different laboratory. It can be used for any component of a purity test to decide whether two estimates are compatible. The table is used by entering it at the average of the two test results (columns 1 or 2). The appropriate tolerance is found in columns 3 or 4, determined by whether the seeds are chaffy or non-chaffy.

The tolerances in columns 3 and 4 are extracted from columns D and G, respectively, of Table P7 in Miles (1963).

Table 3C. Tolerances for purity tests on the same submitted sample in the same laboratory (two-way test at 5 % significance level)

Average of the two test results		Tolerances for differences between			
		Half working samples		Whole working samples	
		Non-chaffy seeds	Chaffy seeds	Non-chaffy seeds	Chaffy seeds
1	2	3	4	5	6
99.95–100.00	0.00–0.04	0.20	0.23	0.1	0.2
99.90–99.94	0.05–0.09	0.33	0.34	0.2	0.2
99.85–99.89	0.10–0.14	0.40	0.42	0.3	0.3
99.80–99.84	0.15–0.19	0.47	0.49	0.3	0.4
99.75–99.79	0.20–0.24	0.51	0.55	0.4	0.4
99.70–99.74	0.25–0.29	0.55	0.59	0.4	0.4
99.65–99.69	0.30–0.34	0.61	0.65	0.4	0.5
99.60–99.64	0.35–0.39	0.65	0.69	0.5	0.5
99.55–99.59	0.40–0.44	0.68	0.74	0.5	0.5
99.50–99.54	0.45–0.49	0.72	0.76	0.5	0.5
99.40–99.49	0.50–0.59	0.76	0.82	0.5	0.6
99.30–99.39	0.60–0.69	0.83	0.89	0.6	0.6
99.20–99.29	0.70–0.79	0.89	0.95	0.6	0.7
99.10–99.19	0.80–0.89	0.95	1.00	0.7	0.7
99.00–99.09	0.90–0.99	1.00	1.06	0.7	0.8
98.75–98.99	1.00–1.24	1.07	1.15	0.8	0.8
98.50–98.74	1.25–1.49	1.19	1.26	0.8	0.9
98.25–98.49	1.50–1.74	1.29	1.37	0.9	1.0
98.00–98.24	1.75–1.99	1.37	1.47	1.0	1.0
97.75–97.99	2.00–2.24	1.44	1.54	1.0	1.1
97.50–97.74	2.25–2.49	1.53	1.63	1.1	1.2
97.25–97.49	2.50–2.74	1.60	1.70	1.1	1.2
97.00–97.24	2.75–2.99	1.67	1.78	1.2	1.3
96.50–96.99	3.00–3.49	1.77	1.88	1.3	1.3
96.00–96.49	3.50–3.99	1.88	1.99	1.3	1.4
95.50–95.99	4.00–4.49	1.99	2.12	1.4	1.5
95.00–95.49	4.50–4.99	2.09	2.22	1.5	1.6
94.00–94.99	5.00–5.99	2.25	2.38	1.6	1.7
93.00–93.99	6.00–6.99	2.43	2.56	1.7	1.8
92.00–92.99	7.00–7.99	2.59	2.73	1.8	1.9
91.00–91.99	8.00–8.99	2.74	2.90	1.9	2.1
90.00–90.99	9.00–9.99	2.88	3.04	2.0	2.2
88.00–89.99	10.00–11.99	3.08	3.25	2.2	2.3
86.00–87.99	12.00–13.99	3.31	3.49	2.3	2.5
84.00–85.99	14.00–15.99	3.52	3.71	2.5	2.6
82.00–83.99	16.00–17.99	3.69	3.90	2.6	2.8
80.00–81.99	18.00–19.99	3.86	4.07	2.7	2.9
78.00–79.99	20.00–21.99	4.00	4.23	2.8	3.0
76.00–77.99	22.00–23.99	4.14	4.37	2.9	3.1
74.00–75.99	24.00–25.99	4.26	4.50	3.0	3.2
72.00–73.99	26.00–27.99	4.37	4.61	3.1	3.3
70.00–71.99	28.00–29.99	4.47	4.71	3.2	3.3
65.00–69.99	30.00–34.99	4.61	4.86	3.3	3.4
60.00–64.99	35.00–39.99	4.77	5.02	3.4	3.6
50.00–59.99	40.00–49.99	4.89	5.16	3.5	3.7

Table 3D. Tolerances for purity tests on two different submitted samples from the same lot when a second test is made in the same or a different laboratory (one-way test at 1 % significance level)

Average of the two test results		Tolerance	
50–100 %	Less than 50 %	Non-chaffy seeds	Chaffy seeds
1	2	3	4
99.95–100.00	0.00–0.04	0.2	0.2
99.90–99.94	0.05–0.09	0.3	0.3
99.85–99.89	0.10–0.14	0.3	0.4
99.80–99.84	0.15–0.19	0.4	0.5
99.75–99.79	0.20–0.24	0.4	0.5
99.70–99.74	0.25–0.29	0.5	0.6
99.65–99.69	0.30–0.34	0.5	0.6
99.60–99.64	0.35–0.39	0.6	0.7
99.55–99.59	0.40–0.44	0.6	0.7
99.50–99.54	0.45–0.49	0.6	0.7
99.40–99.49	0.50–0.59	0.7	0,8
99.30–99.39	0.60–0.69	0.7	0.9
99.20–99.29	0.70–0.79	0.8	0.9
99.10–99.19	0.80–0.89	0.8	1.0
99.00–99.09	0.90–0.99	0.9	1.0
98.75–98.99	1.00–1.24	0.9	1.1
98.50–98.74	1.25–1.49	1.0	1.2
98.25–98.49	1.50–1.74	1.1	1.3
98.00–98.24	1.75–1.99	1.2	1.4
97.75–97.99	2.00–2.24	1.3	1.5
97.50–97.74	2.25–2.49	1.3	1.6
97.25–97.49	2.50–2.74	1.4	1.6
97.00–97.24	2.75–2.99	1.5	1.7
96.50–96.99	3.00–3.49	1.5	1.8
96.00–96.49	3.50–3.99	1.6	1.9
95.50–95.99	4.00–4.49	1.7	2.0
95.00–95.49	4.50–4.99	1.8	2.2
94.00–94.99	5.00–5.99	2.0	2.3
93.00–93.99	6.00–6.99	2.1	2.5
92.00–92.99	7.00–7.99	2.2	2.6
91.00–91.99	8.00–8.99	2.4	2.8
90.00–90.99	9.00–9.99	2.5	2.9
88.00–89.99	10.00–11.99	2.7	3.1
86.00–87.99	12.00–13.99	2.9	3.4
84.00–85.99	14.00–15.99	3.0	3.6
82.00–83.99	16.00–17.99	3.2	3.7
80.00–81.99	18.00–19.99	3.3	3.9
78.00–79.99	20.00–21.99	3.5	4.1
76.00–77.99	22.00–23.99	3.6	4.2
74.00–75.99	24.00–25.99	3.7	4.3
72.00–73.99	26.00–27.99	3.8	4.4
70.00–71.99	28.00–29.99	3.8	4.5
65.00–69.99	30.00–34.99	4.0	4.7
60.00–64.99	35.00–39.99	4.1	4.8
50.00–59.99	40.00–49.99	4.2	5.0

Table 3E. Tolerances for purity tests on two different submitted samples from the same seed lot when a second test is made in the same or a different laboratory (two-way test at 1 % significance level)

Average of the two test results		Tolerance	
50–100 %	Less than 50 %	Non-chaffy seeds	Chaffy seeds
1	2	3	4
99.95–100.00	0.00–0.04	0.2	0.2
99.90–99.94	0.05–0.09	0.3	0.4
99.85–99.89	0.10–0.14	0.4	0.5
99.80–99.84	0.15–0.19	0.4	0.5
99.75–99.79	0.20–0.24	0.5	0.6
99.70–99.74	0.25–0.29	0.5	0.6
99.65–99.69	0.30–0.34	0.6	0.7
99.60–99.64	0.35–0.39	0.6	0.7
99.55–99.59	0.40–0.44	0.6	0.8
99.50–99.54	0.45–0.49	0.7	0.8
99.40–99.49	0.50–0.59	0.7	0.9
99.30–99.39	0.60–0.69	0.8	1.0
99.20–99.29	0.70–0.79	0.8	1.0
99.10–99.19	0.80–0.89	0.9	1.1
99.00–99.09	0.90–0.99	0.9	1.1
98.75–98.99	1.00–1.24	1.0	1.2
98.50–98.74	1.25–1.49	1.1	1.3
98.25–98.49	1.50–1.74	1.2	1.5
98.00–98.24	1.75–1.99	1.3	1.6
97.75–97.99	2.00–2.24	1.4	1.7
97.50–97.74	2.25–2.49	1.5	1.7
97.25–97.49	2.50–2.74	1.5	1.8
97.00–97.24	2.75–2.99	1.6	1.9
96.50–96.99	3.00–3.49	1.7	2.0
96.00–96.49	3.50–3.99	1.8	2.1
95.50–95.99	4.00–4.49	1.9	2.3
95.00–95.49	4.50–4.99	2.0	2.4
94.00–94.99	5.00–5.99	2.1	2.5
93.00–93.99	6.00–6.99	2.3	2.7
92.00–92.99	7.00–7.99	2.5	2.9
91.00–91.99	8.00–8.99	2.6	3.1
90.00–90.99	9.00–9.99	2.8	3.2
88.00–89.99	10.00–11.99	2.9	3.5
86.00–87.99	12.00–13.99	3.2	3.7
84.00–85.99	14.00–15.99	3.4	3.9
82.00–83.99	16.00–17.99	3.5	4.1
80.00–81.99	18.00–19.99	3.7	4.3
78.00–79.99	20.00–21.99	3.8	4.5
76.00–77.99	22.00–23.99	3.9	4.6
74.00–75.99	24.00–25.99	4.1	4.8
72.00–73.99	26.00–27.99	4.2	4.9
70.00–71.99	28.00–29.99	4.3	5.0
65.00–69.99	30.00–34.99	4.4	5.2
60.00–64.99	35.00–39.99	4.5	5.3
50.00–59.99	40.00–49.99	4.7	5.5

Table 3D. Tolerances for purity tests on two different submitted samples from the same lot when a second test is made in the same or a different laboratory (one-way test at 1 % significance level)

Average of the two test results		Tolerance	
50–100 %	Less than 50 %	Non-chaffy seeds	Chaffy seeds
1	2	3	4
99.95–100.00	0.00–0.04	0.2	0.2
99.90–99.94	0.05–0.09	0.3	0.3
99.85–99.89	0.10–0.14	0.3	0.4
99.80–99.84	0.15–0.19	0.4	0.5
99.75–99.79	0.20–0.24	0.4	0.5
99.70–99.74	0.25–0.29	0.5	0.6
99.65–99.69	0.30–0.34	0.5	0.6
99.60–99.64	0.35–0.39	0.6	0.7
99.55–99.59	0.40–0.44	0.6	0.7
99.50–99.54	0.45–0.49	0.6	0.7
99.40–99.49	0.50–0.59	0.7	0,8
99.30–99.39	0.60–0.69	0.7	0.9
99.20–99.29	0.70–0.79	0.8	0.9
99.10–99.19	0.80–0.89	0.8	1.0
99.00–99.09	0.90–0.99	0.9	1.0
98.75–98.99	1.00–1.24	0.9	1.1
98.50–98.74	1.25–1.49	1.0	1.2
98.25–98.49	1.50–1.74	1.1	1.3
98.00–98.24	1.75–1.99	1.2	1.4
97.75–97.99	2.00–2.24	1.3	1.5
97.50–97.74	2.25–2.49	1.3	1.6
97.25–97.49	2.50–2.74	1.4	1.6
97.00–97.24	2.75–2.99	1.5	1.7
96.50–96.99	3.00–3.49	1.5	1.8
96.00–96.49	3.50–3.99	1.6	1.9
95.50–95.99	4.00–4.49	1.7	2.0
95.00–95.49	4.50–4.99	1.8	2.2
94.00–94.99	5.00–5.99	2.0	2.3
93.00–93.99	6.00–6.99	2.1	2.5
92.00–92.99	7.00–7.99	2.2	2.6
91.00–91.99	8.00–8.99	2.4	2.8
90.00–90.99	9.00–9.99	2.5	2.9
88.00–89.99	10.00–11.99	2.7	3.1
86.00–87.99	12.00–13.99	2.9	3.4
84.00–85.99	14.00–15.99	3.0	3.6
82.00–83.99	16.00–17.99	3.2	3.7
80.00–81.99	18.00–19.99	3.3	3.9
78.00–79.99	20.00–21.99	3.5	4.1
76.00–77.99	22.00–23.99	3.6	4.2
74.00–75.99	24.00–25.99	3.7	4.3
72.00–73.99	26.00–27.99	3.8	4.4
70.00–71.99	28.00–29.99	3.8	4.5
65.00–69.99	30.00–34.99	4.0	4.7
60.00–64.99	35.00–39.99	4.1	4.8
50.00–59.99	40.00–49.99	4.2	5.0

Table 3E. Tolerances for purity tests on two different submitted samples from the same seed lot when a second test is made in the same or a different laboratory (two-way test at 1 % significance level)

Average of the two test results		Tolerance	
50–100 %	Less than 50 %	Non-chaffy seeds	Chaffy seeds
1	2	3	4
99.95–100.00	0.00–0.04	0.2	0.2
99.90–99.94	0.05–0.09	0.3	0.4
99.85–99.89	0.10–0.14	0.4	0.5
99.80–99.84	0.15–0.19	0.4	0.5
99.75–99.79	0.20–0.24	0.5	0.6
99.70–99.74	0.25–0.29	0.5	0.6
99.65–99.69	0.30–0.34	0.6	0.7
99.60–99.64	0.35–0.39	0.6	0.7
99.55–99.59	0.40–0.44	0.6	0.8
99.50–99.54	0.45–0.49	0.7	0.8
99.40–99.49	0.50–0.59	0.7	0.9
99.30–99.39	0.60–0.69	0.8	1.0
99.20–99.29	0.70–0.79	0.8	1.0
99.10–99.19	0.80–0.89	0.9	1.1
99.00–99.09	0.90–0.99	0.9	1.1
98.75–98.99	1.00–1.24	1.0	1.2
98.50–98.74	1.25–1.49	1.1	1.3
98.25–98.49	1.50–1.74	1.2	1.5
98.00–98.24	1.75–1.99	1.3	1.6
97.75–97.99	2.00–2.24	1.4	1.7
97.50–97.74	2.25–2.49	1.5	1.7
97.25–97.49	2.50–2.74	1.5	1.8
97.00–97.24	2.75–2.99	1.6	1.9
96.50–96.99	3.00–3.49	1.7	2.0
96.00–96.49	3.50–3.99	1.8	2.1
95.50–95.99	4.00–4.49	1.9	2.3
95.00–95.49	4.50–4.99	2.0	2.4
94.00–94.99	5.00–5.99	2.1	2.5
93.00–93.99	6.00–6.99	2.3	2.7
92.00–92.99	7.00–7.99	2.5	2.9
91.00–91.99	8.00–8.99	2.6	3.1
90.00–90.99	9.00–9.99	2.8	3.2
88.00–89.99	10.00–11.99	2.9	3.5
86.00–87.99	12.00–13.99	3.2	3.7
84.00–85.99	14.00–15.99	3.4	3.9
82.00–83.99	16.00–17.99	3.5	4.1
80.00–81.99	18.00–19.99	3.7	4.3
78.00–79.99	20.00–21.99	3.8	4.5
76.00–77.99	22.00–23.99	3.9	4.6
74.00–75.99	24.00–25.99	4.1	4.8
72.00–73.99	26.00–27.99	4.2	4.9
70.00–71.99	28.00–29.99	4.3	5.0
65.00–69.99	30.00–34.99	4.4	5.2
60.00–64.99	35.00–39.99	4.5	5.3
50.00–59.99	40.00–49.99	4.7	5.5

Table 5B. Tolerances between highest and lowest germination percentages of replicates in one germination test (two-way test at the 2.5 % significance level)

Table 5B Part 1. Four replicates of 100 seeds

Average germination percentage of test		Tolerance
51–100 %	0–50 %	
99	2	5
98	3	6
97	4	7
96	5	8
95	6	9
93–94	7–8	10
91–92	9–10	11
89–90	11–12	12
87–88	13–14	13
84–86	15–17	14
81–83	18–20	15
78–80	21–23	16
73–77	24–28	17
67–72	29–34	18
56–66	35–45	19
51–55	46–50	20

Table 5B Part 2. Two replicates of 100 seeds

Average germination percentage of test		Tolerance
51–100 %	0–50 %	
99	2	4
98	3	5
96–97	4–5	6
95	6	7
93–94	7–8	8
90–92	9–11	9
88–89	12–13	10
84–87	14–17	11
81–83	18–20	12
76–80	21–25	13
69–75	26–32	14
55–68	33–46	15
51–54	47–50	16

Table 5B Part 3. Two replicates of 50 seeds

Average germination percentage of test		Tolerance
51–100 %	0–50 %	
99	2	5
98	3	7
97	4	8
96	5	9
95	6	10
94	7	11
92–93	8–9	12
90–91	10–11	13
89	12	14
86–88	13–15	15
84–85	16–17	16
81–83	18–20	17
78–80	21–23	18
74–77	24–27	19
70–73	28–31	20
63–69	32–38	21
51–62	39–50	22

Table 5C. Tolerances between results of two tests on the same or a different submitted sample when tests are made in the same laboratory (two-way test at the 2.5 % significance level)

Table 5C Part 1. Two tests of 400 seeds

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
98–99	2–3	2
95–97	4–6	3
91–94	7–10	4
85–90	11–16	5
77–84	17–24	6
60–76	25–41	7
51–59	42–50	8

Table 5C Part 2. Two tests of 200 seeds

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
99	2	2
98	3	3
96–97	4–5	4
94–95	6–7	5
91–93	8–10	6
87–90	11–14	7
82–86	15–19	8
75–81	20–26	9
64–74	27–37	10
51–63	38–50	11

Table 5C Part 3. Two tests of 100 seeds

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
99	2	4
98	3	5
96–97	4–5	6
95	6	7
93–94	7–8	8
90–92	9–11	9
88–89	12–13	10
84–87	14–17	11
81–83	18–20	12
76–80	21–25	13
69–75	26–32	14
55–68	33–46	15
51–54	47–50	16

Table 5D. Tolerances between results of three tests on the same or a different submitted sample when tests are made in the same laboratory (two-way test at the 2.5 % significance level)

Table 5D Part 1. Three tests of 400 seeds

Average germination percentage of 3 tests		Tolerance
51–100 %	0–50 %	
99	2	2
97–98	3–4	3
94–96	5–7	4
90–93	8–11	5
85–89	12–16	6
78–84	17–23	7
66–77	24–35	8
51–65	36–50	9

Table 5D Part 2. Three tests of 200 seeds

Average germination percentage of 3 tests		Tolerance
51–100 %	0–50 %	
99	2	3
97–98	3–4	4
96	5	5
94–95	6–7	6
91–93	8–10	7
88–90	11–13	8
84–87	14–17	9
79–83	18–22	10
72–78	23–29	11
60–71	30–41	12
51–59	42–50	13

Table 5D Part 3. Three tests of 100 seeds

Average germination percentage of 3 tests		Tolerance
51–100 %	0–50 %	
99	2	4
98	3	5
97	4	6
96	5	7
95	6	8
93–94	7–8	9
91–92	9–10	10
89–90	11–12	11
87–88	13–14	12
84–86	15–17	13
81–83	18–20	14
77–80	21–24	15
71–76	25–30	16
64–70	31–37	17
51–63	38–50	18

Table 5C. Tolerances between results of two tests on the same or a different submitted sample when tests are made in the same laboratory (two-way test at the 2.5 % significance level)

Table 5C Part 1. Two tests of 400 seeds

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
98–99	2–3	2
95–97	4–6	3
91–94	7–10	4
85–90	11–16	5
77–84	17–24	6
60–76	25–41	7
51–59	42–50	8

Table 5C Part 2. Two tests of 200 seeds

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
99	2	2
98	3	3
96–97	4–5	4
94–95	6–7	5
91–93	8–10	6
87–90	11–14	7
82–86	15–19	8
75–81	20–26	9
64–74	27–37	10
51–63	38–50	11

Table 5C Part 3. Two tests of 100 seeds

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
99	2	4
98	3	5
96–97	4–5	6
95	6	7
93–94	7–8	8
90–92	9–11	9
88–89	12–13	10
84–87	14–17	11
81–83	18–20	12
76–80	21–25	13
69–75	26–32	14
55–68	33–46	15
51–54	47–50	16

Table 5D. Tolerances between results of three tests on the same or a different submitted sample when tests are made in the same laboratory (two-way test at the 2.5 % significance level)

Table 5D Part 1. Three tests of 400 seeds

Average germination percentage of 3 tests		Tolerance
51–100 %	0–50 %	
99	2	2
97–98	3–4	3
94–96	5–7	4
90–93	8–11	5
85–89	12–16	6
78–84	17–23	7
66–77	24–35	8
51–65	36–50	9

Table 5D Part 2. Three tests of 200 seeds

Average germination percentage of 3 tests		Tolerance
51–100 %	0–50 %	
99	2	3
97–98	3–4	4
96	5	5
94–95	6–7	6
91–93	8–10	7
88–90	11–13	8
84–87	14–17	9
79–83	18–22	10
72–78	23–29	11
60–71	30–41	12
51–59	42–50	13

Table 5D Part 3. Three tests of 100 seeds

Average germination percentage of 3 tests		Tolerance
51–100 %	0–50 %	
99	2	4
98	3	5
97	4	6
96	5	7
95	6	8
93–94	7–8	9
91–92	9–10	10
89–90	11–12	11
87–88	13–14	12
84–86	15–17	13
81–83	18–20	14
77–80	21–24	15
71–76	25–30	16
64–70	31–37	17
51–63	38–50	18

Table 5E. Tolerances between results of four tests on the same or a different submitted sample when tests are made in the same laboratory (two-way test at the 2.5 % significance level)

Table 5E Part 1. Four tests of 400 seeds

Average germination percentage of 4 tests		Tolerance
51–100 %	0–50 %	
99	2	2
97–98	3–4	3
95–96	5–6	4
92–94	7–9	5
88–91	10–13	6
82–87	14–19	7
74–81	20–27	8
60–73	28–41	9
51–59	42–50	10

Table 5E Part 2. Four tests of 200 seeds

Average germination percentage of 4 tests		Tolerance
51–100 %	0–50 %	
99	2	3
98	3	4
97	4	5
95–96	5–6	6
93–94	7–8	7
90–92	9–11	8
87–89	12–14	9
83–86	15–18	10
78–82	19–23	11
72–77	24–29	12
61–71	30–40	13
51–60	41–50	14

Table 5E Part 3. Four tests of 100 seeds

Average germination percentage of 4 tests		Tolerance
51–100 %	0–50 %	
99	2	5
98	3	6
97	4	7
96	5	8
95	6	9
93–94	7–8	10
91–92	9–10	11
89–90	11–12	12
87–88	13–14	13
84–86	15–17	14
81–83	18–20	15
78–80	21–23	16
73–77	24–28	17
67–72	29–34	18
56–66	35–45	19
51–55	46–50	20

Table 5F. Tolerances between results of two tests made in different laboratories on the same or different samples from the same seed lot (two-way test at 5 % significance level) on 400 seed tests. Updated by ISTA Statistics Technical Committee, based on Miles (1963) Table G5, column C, 400 seed tests.

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
99	2	2
98	3	3
96–97	4–5	4
94–95	6–7	5
91–93	8–10	6
88–90	11–13	7
84–87	14–17	8
79–83	18–22	9
74–78	23–27	10
68–73	28–33	11
60–67	34–41	12
51–59	42–50	13

Table 5E. Tolerances between results of four tests on the same or a different submitted sample when tests are made in the same laboratory (two-way test at the 2.5 % significance level)

Table 5E Part 1. Four tests of 400 seeds

Average germination percentage of 4 tests		Tolerance
51–100 %	0–50 %	
99	2	2
97–98	3–4	3
95–96	5–6	4
92–94	7–9	5
88–91	10–13	6
82–87	14–19	7
74–81	20–27	8
60–73	28–41	9
51–59	42–50	10

Table 5E Part 2. Four tests of 200 seeds

Average germination percentage of 4 tests		Tolerance
51–100 %	0–50 %	
99	2	3
98	3	4
97	4	5
95–96	5–6	6
93–94	7–8	7
90–92	9–11	8
87–89	12–14	9
83–86	15–18	10
78–82	19–23	11
72–77	24–29	12
61–71	30–40	13
51–60	41–50	14

Table 5E Part 3. Four tests of 100 seeds

Average germination percentage of 4 tests		Tolerance
51–100 %	0–50 %	
99	2	5
98	3	6
97	4	7
96	5	8
95	6	9
93–94	7–8	10
91–92	9–10	11
89–90	11–12	12
87–88	13–14	13
84–86	15–17	14
81–83	18–20	15
78–80	21–23	16
73–77	24–28	17
67–72	29–34	18
56–66	35–45	19
51–55	46–50	20

Table 5F. Tolerances between results of two tests made in different laboratories on the same or different samples from the same seed lot (two-way test at 5 % significance level) on 400 seed tests. Updated by ISTA Statistics Technical Committee, based on Miles (1963) Table G5, column C, 400 seed tests.

Average germination percentage of 2 tests		Tolerance
51–100 %	0–50 %	
99	2	2
98	3	3
96–97	4–5	4
94–95	6–7	5
91–93	8–10	6
88–90	11–13	7
84–87	14–17	8
79–83	18–22	9
74–78	23–27	10
68–73	28–33	11
60–67	34–41	12
51–59	42–50	13

9.2.5.6 Predrying

If the species is one for which grinding is necessary and the moisture content is higher than indicated in Table 9A, predrying is obligatory. Two subsamples, each weighing 25 ±1 g are placed in weighed containers. The two subsamples, in their containers, are then dried at 130 °C for 5 to 10 min, depending on the moisture content, to reduce the moisture content to below that required in Table 9A. The partly dried material is then kept exposed in the laboratory for at least 2 h.

In the case of very moist seed of *Zea mays* (above 25 % moisture content) the seed is spread in a layer not deeper than 20 mm and dried at 65–75 °C for 2–5 h, depending on the initial water content. In the case of other species with a moisture content exceeding 30 %, samples should be dried overnight in a warm place.

After predrying, the subsamples are reweighed in their containers to determine the loss in weight. Immediately thereafter the two partly dried subsamples are separately ground. One working sample is drawn from each subsample. Drawing of the working sample must be in accordance with 9.2.5.2. The moisture is determined as prescribed in 9.2.5.3.

Predrying is not obligatory for any seeds that are cut (Table 9A).

9.2.5.7 Prescribed methods

a. The working sample, drawn according to 9.2.5.2, must be evenly distributed over the surface of the container.
b. Weigh the container and its cover before and after filling.
c. Place the container rapidly, on top of its cover or next to its cover, in an oven.
d. See Table 9A for additional details regarding grinding, temperature and duration per species.
e. Methods and their tolerances for temperatures and durations:
   Low temperature 103 °C (±2 °C); 17 h ±1 h
   High temperature 130 °C (±3 °C); 1 h ±3 min,
   2 h ±6 min or 4 h ±12 min
f. The drying period begins at the time the oven returns to the required temperature.
g. At the end of the prescribed period, cover the container and place it in a desiccator to cool at ambient temperature.
h. After cooling, weigh the container with its cover and contents.

Table 9A. Details of methods for moisture determination

The oven method must be used as specified for the species in this Table.

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Abies spp. (TSW >200 g)	Cut	Low	17	Table 9B	– / High oil content
Abies spp. (TSW ≤200 g)	No	Low	17	Table 9B	–
Acacia spp.	Coarse	Low	17	Table 9B	–
Acer spp.	Coarse	Low	17	Table 9B	– / Due to heterogeneity
Aesculus hippocastanum	Cut	Low	17	Table 9B	–
Agrostis canina	No	High	1	0.2 %	–
Agrostis capillaris	No	High	1	0.2 %	–
Agrostis gigantea	No	High	1	0.2 %	–
Agrostis stolonifera (includes *A. palustris*)	No	High	1	0.2 %	–
Ailanthus altissima	Coarse	Low	17	Table 9B	–
Allium cepa	No	Low	17	0.2 %	–
Allium fistulosum	No	Low	17	0.2 %	–
Allium porrum	No	Low	17	0.2 %	–
Allium schoenoprasum	No	Low	17	0.2 %	–
Allium tuberosum	No	Low	17	0.2 %	–
Alnus spp.	No	Low	17	Table 9B	–
Alopecurus pratensis	No	High	1	0.2 %	–
Amorpha fruticosa	Coarse	Low	17	Table 9B	–

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Anethum graveolens	No	High	1	0.2 %	–
Anthoxanthum odoratum	No	High	1	0.2 %	–
Anthriscus cerefolium	No	High	1	0.2 %	–
Apium graveolens	No	High	1	0.2 %	–
Arachis hypogaea	Cut	Low	17	0.2 %	To 17 % moisture content or less
Arrhenatherum elatius	No	High	1	0.2 %	–
Asparagus officinalis	No	High	1	0.2 %	–
Avena nuda	Coarse	High	2	0.2 %	To 17 % moisture content or less
Avena sativa	Coarse	High	2	0.2 %	To 17 % moisture content or less
Avena strigosa	Coarse	High	2	0.2 %	To 17 % moisture content or less
Beta vulgaris	No	High	1	0.2 %	–
Betula spp.	No	Low	17	Table 9B	–
Brassica carinata	No	Low	17	0.2 %	–
Brassica juncea	No	Low	17	0.2 %	–
Brassica napus	No	Low	17	0.2 %	–
Brassica napus subsp. *rapifera*	No	Low	17	0.2 %	–
Brassica nigra	No	Low	17	0.2 %	–
Brassica oleracea	No	Low	17	0.2 %	–
Brassica rapa (includes *B. campestris*)	No	Low	17	0.2 %	–
Bromus arvensis	No	High	1	0.2 %	–
Bromus carinatus var. *carinatus*	No	High	1	0.2 %	–
Bromus carinatus var. *marginatus*	No	High	1	0.2 %	–
Calocedrus decurrens	Coarse	Low	17	Table 9B	–
Camelina sativa	No	Low	17	0.2 %	–
Cannabis sativa	No	High	1	0.2 %	–
Capsicum spp.	No	Low	17	0.2 %	–
Caragana arborescens	Coarse	Low	17	Table 9B	–
Carica papaya	No	Low	17	Table 9B	– / High oil content
Carpinus betulus	Coarse	Low	17	Table 9B	–
Carum carvi	No	High	1	0.2 %	–
Castanea sativa	Cut	Low	17	Table 9B	–
Catalpa spp.	Coarse	Low	17	Table 9B	–
Cedrela spp.	No	Low	17	Table 9B	–
Cedrus spp.	Cut	Low	17	Table 9B	– / High oil content
Cenchrus ciliaris	No	High	1	0.2 %	–
Cenchrus setigerus	No	High	1	0.2 %	–
Chamaecyparis spp.	No	Low	17	Table 9B	–
Chloris gayana	No	High	1	0.2 %	–
Cicer arietinum	Coarse	High	1	0.2 %	To 17 % moisture content or less
Cichorium endivia	No	High	1	0.2 %	–
Cichorium intybus	No	High	1	0.2 %	–
Citrullus lanatus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Cornus spp. (TSW >200 g)	Coarse	Low	17	Table 9B	–
Cornus spp. (TSW ≤200 g)	Coarse	Low	17	Table 9B	– / Hard integument
Corylus avellana	Cut	Low	17	Table 9B	–
Corymbia spp.	No	Low	17	Table 9B	–

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Cotoneaster spp.	No	Low	17	Table 9B	–
Crataegus monogyna	Coarse	Low	17	Table 9B	–
Cryptomeria japonica	No	Low	17	Table 9B	–
Cucumis spp.	No	High	1	0.2 %	–
Cucurbita hybrids	No	High	1	0.2 %	–
Cucurbita maxima	No	High	1	0.2 %	–
Cucurbita moschata	No	High	1	0.2 %	–
Cucurbita pepo	No	High	1	0.2 %	–
Cuminum cyminum	No	High	1	0.2 %	–
Cupressus spp.	No	Low	17	Table 9B	–
Cydonia oblonga	No	Low	17	Table 9B	–
Cynodon dactylon	No	High	1	0.2 %	–
Cynosurus cristatus	No	High	1	0.2 %	–
Cytisus scoparius	Coarse	Low	17	Table 9B	–
Dactylis glomerata	No	High	1	0.2 %	–
Daucus carota	No	High	1	0.2 %	–
Deschampsia spp.	No	High	1	0.2 %	–
Elaeagnus angustifolia	Coarse	Low	17	Table 9B	–
Elymus lanceolatus	No	High	1	0.2 %	-
Elymus repens	No	High	1	0.2 %	-
Elymus trachycaulus	No	High	1	0.2 %	-
Eucalyptus spp.	No	Low	17	Table 9B	–
Euonymus europaeus	Coarse	Low	17	Table 9B	–
Fagopyrum esculentum	Fine	High	2	0.2 %	To 17 % moisture content or less
Fagus sylvatica	Cut	Low	17	Table 9B	–
Festuca arundinacea	No	High	1	0.2 %	–
Festuca filiformis	No	High	1	0.2 %	–
Festuca heterophylla	No	High	1	0.2 %	–
Festuca ovina	No	High	1	0.2 %	–
Festuca pratensis	No	High	1	0.2 %	–
Festuca rubra	No	High	1	0.2 %	–
Festuca trachyphylla	No	High	1	0.2 %	–
Fraxinus spp.	Coarse	Low	17	Table 9B	–
Galega orientalis	No	High	1	0.2 %	–
Ginkgo biloba	Cut	Low	17	Table 9B	–
Gleditsia triacanthos	Coarse	Low	17	Table 9B	–
Glycine max	Coarse	Low	17	0.2 %	To 12 % moisture content or less
Gossypium spp.	Fine	Low	17	0.2 %	To 17 % moisture content or less
Helianthus annuus	No	Low	17	0.2 %	–
Holcus lanatus	No	High	1	0.2 %	–
Hordeum vulgare	Fine	High	2	0.2 %	To 17 % moisture content or less
Hordeum vulgare subsp. *vulgare*	Fine	High	2	0.2 %	To 17 % moisture content or less
Ilex aquifolium	Coarse	Low	17	Table 9B	–
Juniperus spp.	Coarse	Low	17	Table 9B	–
Koelreuteria paniculata	Coarse	Low	17	Table 9B	–
Laburnum spp.	Coarse	Low	17	Table 9B	–
Lactuca sativa	No	High	1	0.2 %	–
Larix spp.	No	Low	17	Table 9B	–

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Larix ×marschlinsi	No	Low	17	Table 9B	–
Lathyrus cicera	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lathyrus hirsutus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lathyrus latifolius	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lathyrus odoratus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lathyrus sativus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lepidium sativum	No	High	1	0.2 %	–
Ligustrum vulgare	Coarse	Low	17	Table 9B	–
Linum usitatissimum	No	Low	17	0.2 %	–
Liquidambar styraciflua	No	Low	17	Table 9B	– / High oil content
Liriodendron tulipifera	Coarse	Low	17	Table 9B	–
Lolium ×hybridum	No	High	2	0.2 %	– / 103 °C for 17 h also possible
Lolium multiflorum	No	High	2	0.2 %	– / 103 °C for 17 h also possible
Lolium perenne	No	High	2	0.2 %	– / 103 °C for 17 h also possible
Lolium rigidum	No	High	2	0.2 %	– / 103 °C for 17 h also possible
Lotus corniculatus	No	High	1	0.2 %	–
Lotus tenuis	No	High	1	0.2 %	–
Lotus uliginosus	No	High	1	0.2 %	–
Lupinus albus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lupinus angustifolius	Coarse	High	1	0.2 %	To 17 % moisture content or less
Lupinus luteus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Macroptilium atropurpureum	Coarse	High	1	0.2 %	To 17 % moisture content or less
Mahonia aquifolium	No	Low	17	Table 9B	–
Malus spp. (except *M. sylvestris*)	No	Low	17	Table 9B	–
Malus sylvestris	Coarse	Low	17	Table 9B	–
Malva sylvestris	No	Low	17	Table 9B	–
Medicago arabica (in burr)	No	High	1	0.2 %	–
Medicago arabica (out of burr)	No	High	1	0.2 %	–
Medicago italica	No	High	1	0.2 %	–
Medicago littoralis	No	High	1	0.2 %	–
Medicago lupulina	No	High	1	0.2 %	–
Medicago orbicularis	No	High	1	0.2 %	–
Medicago polymorpha	No	High	1	0.2 %	–
Medicago rugosa	No	High	1	0.2 %	–
Medicago sativa	No	High	1	0.2 %	–
Medicago scutellata	No	High	1	0.2 %	–
Medicago truncatula	No	High	1	0.2 %	–
Megathyrsus maximus	No	High	2	0.2 %	–
Melilotus albus	No	High	1	0.2 %	–

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Melilotus indicus	No	High	1	0.2 %	–
Melilotus officinalis	No	High	1	0.2 %	–
Morus spp.	No	Low	17	Table 9B	–
Nicotiana tabacum	No	High	1	0.2 %	–
Nothofagus spp.	No	Low	17	Table 9B	–
Onobrychis viciifolia	No	High	1	0.2 %	–
Ornithopus sativus	No	High	1	0.2 %	–
Oryza sativa	Fine	High	2	0.2 %	To 13 % moisture content or less
Panicum antidotale	No	High	2	0.2 %	–
Panicum coloratum	No	High	2	0.2 %	–
Panicum miliaceum	No	High	2	0.2 %	–
Panicum virgatum	No	High	2	0.2 %	–
Papaver somniferum	No	High	1	0.2 %	–
Paspalum dilatatum	No	High	1	0.2 %	–
Paspalum notatum	No	High	1	0.2 %	–
Paspalum plicatulum	No	High	1	0.2 %	–
Paspalum scrobiculatum	No	High	1	0.2 %	–
Paspalum urvillei	No	High	1	0.2 %	–
Paspalum virgatum	No	High	1	0.2 %	–
Pastinaca sativa	No	High	1	0.2 %	–
Pennisetum clandestinum	No	High	1	0.2 %	–
Pennisetum glaucum	No	High	1	0.2 %	–
Petroselinum crispum	No	High	1	0.2 %	–
Phacelia tanacetifolia	No	High	1	0.2 %	–
Phalaris aquatica	No	High	1	0.2 %	–
Phalaris arundinacea	No	High	1	0.2 %	–
Phalaris canariensis	No	High	1	0.2 %	–
Phaseolus coccineus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Phaseolus lunatus	Coarse	High	1	0.2 %	To 17 % moisture content or less
Phaseolus vulgaris	Coarse	High	1	0.2 %	To 17 % moisture content or less
Phleum nodosum	No	High	1	0.2 %	–
Phleum pratense	No	High	1	0.2 %	–
Picea spp.	No	Low	17	Table 9B	–
Pinus spp. (TSW >200 g)	Cut	Low	17	Table 9B	–
Pinus spp. (TSW ≤200 g)	No	Low	17	Table 9B	–
Pisum sativum	Coarse	High	1	0.2 %	To 17 % moisture content or less
Platanus spp.	No	Low	17	Table 9B	–
Platycladus spp.	No	Low	17	Table 9B	–
Poa annua	No	High	1	0.2 %	–
Poa bulbosa	No	High	1	0.2 %	–
Poa compressa	No	High	1	0.2 %	–
Poa nemoralis	No	High	1	0.2 %	–
Poa palustris	No	High	1	0.2 %	–
Poa pratensis	No	High	1	0.2 %	–
Poa secunda (includes *P. ampla*)	No	High	1	0.2 %	–
Poa trivialis	No	High	1	0.2 %	–
Populus spp.	No	Low	17	Table 9B	–
Prunus spp.	Coarse	Low	17	Table 9B	–

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Pseudotsuga menziesii	No	Low	17	Table 9B	–
Pyrus spp.	No	Low	17	Table 9B	–
Quercus spp.	Cut	Low	17	Table 9B	–
Raphanus sativus	No	Low	17	0.2 %	–
Ricinus communis	Cut	Low	17	0.2 %	To 17 % moisture content or less
Robinia pseudoacacia	Coarse	Low	17	Table 9B	–
Rosa spp.	No	Low	17	Table 9B	–
Salix spp.	No	Low	17	Table 9B	–
Scorzonera hispanica	No	High	1	0.2 %	–
Secale cereale	Fine	High	2	0.2 %	To 17 % moisture content or less
Senegalia spp.	Coarse	Low	17	Table 9B	–
Sequoia sempervirens	No	Low	17	Table 9B	–
Sequoiadendron giganteum	No	Low	17	Table 9B	–
Sesamum indicum	No	Low	17	0.2 %	–
Setaria italica	No	High	1	0.2 %	–
Setaria sphacelata	No	High	1	0.2 %	–
Sinapis alba	No	Low	17	0.2 %	–
Solanum lycopersicum	No	High	1	0.2 %	–
Solanum melongena	No	Low	17	0.2 %	–
Sorbus spp.	No	Low	17	Table 9B	–
Sorghum ×*almum*	Fine	High	2	0.2 %	To 17 % moisture content or less
Sorghum bicolor subsp. *bicolor*	Fine	High	2	0.2 %	To 17 % moisture content or less
Sorghum bicolor subsp. *drummondii*	Fine	High	2	0.2 %	To 17 % moisture content or less
Sorghum bicolor × *S. sudanense*	Fine	High	2	0.2 %	To 17 % moisture content or less
Sorghum halepense	Fine	High	2	0.2 %	To 17 % moisture content or less
Spartium junceum	Coarse	Low	17	Table 9B	–
Spinacia oleracea	No	High	1	0.2 %	–
Styphnolobium japonicum	Coarse	Low	17	Table 9B	–
Syringa spp.	No	Low	17	Table 9B	–
Taxodium distichum	Cut	Low	17	Table 9B	–
Taxus spp.	Coarse	Low	17	Table 9B	–
Tectona grandis	Cut	Low	17	Table 9B	–
Thinopyrum elongatum	No	High	1	0.2 %	–
Thinopyrum intermedium	No	High	1	0.2 %	–
Thuja spp.	No	Low	17	Table 9B	–
Tilia spp. (TSW >200 g)	Coarse	Low	17	Table 9B	–
Tilia spp. (TSW ≤200 g)	No	Low	17	Table 9B	–
Trifolium alexandrinum	No	High	1	0.2 %	–
Trifolium campestre	No	High	1	0.2 %	–
Trifolium dubium	No	High	1	0.2 %	–
Trifolium fragiferum	No	High	1	0.2 %	–
Trifolium glomeratum	No	High	1	0.2 %	–
Trifolium hirtum	No	High	1	0.2 %	–
Trifolium hybridum	No	High	1	0.2 %	–
Trifolium incarnatum	No	High	1	0.2 %	–
Trifolium lappaceum	No	High	1	0.2 %	–

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Trifolium michelianum (includes *T. balansae*)	No	High	1	0.2 %	–
Trifolium pratense	No	High	1	0.2 %	–
Trifolium repens	No	High	1	0.2 %	–
Trifolium resupinatum	No	High	1	0.2 %	–
Trifolium semipilosum	No	High	1	0.2 %	–
Trifolium squarrosum	No	High	1	0.2 %	–
Trifolium subterraneum	No	High	1	0.2 %	–
Trifolium vesiculosum	No	High	1	0.2 %	–
Trisetum flavescens	No	High	1	0.2 %	–
Triticum aestivum	Fine	High	2	0.2 %	To 17 % moisture content or less
Triticum aestivum subsp. *aestivum*	Fine	High	2	0.2 %	To 17 % moisture content or less
Triticum aestivum subsp. *spelta*	Fine	High	2	0.2 %	To 17 % moisture content or less
Triticum turgidum subsp. *dicoccon*	Fine	High	2	0.2 %	To 17 % moisture content or less
Triticum turgidum subsp. *durum*	Fine	High	2	0.2 %	To 17 % moisture content or less
×*Triticosecale*	Fine	High	2	0.2 %	To 17 % moisture content or less
Tsuga spp.	No	Low	17	Table 9B	–
Ulmus spp.	No	Low	17	Table 9B	–
Urochloa brizantha	No	High	1	0.2 %	–
Urochloa decumbens	No	High	1	0.2 %	–
Urochloa humidicola	No	High	1	0.2 %	–
Urochloa mosambicensis	No	High	1	0.2 %	–
Urochloa mutica	No	High	1	0.2 %	–
Urochloa ramosa	No	High	1	0.2 %	–
Urochloa ruziziensis	No	High	1	0.2 %	–
Vachellia spp.	Coarse	Low	17	Table 9B	–
Valerianella locusta	No	High	1	0.2 %	–
Viburnum opulus	Coarse	Low	17	Table 9B	–
Vicia benghalensis	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vicia ervilia	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vicia faba	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vicia narbonensis	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vicia pannonica	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vicia sativa (includes *V. angustifolia*)	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vicia villosa (includes *V. dasycarpa*)	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vigna angularis	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vigna marina	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vigna mungo	Coarse	High	1	0.2 %	To 17 % moisture content or less

Table 9A. Details of methods for moisture determination (continued)

Species	Grinding/cutting (9.2.5.4, 9.2.5.5)	Drying temperature High: 130 °C Low: 103 °C	Drying time (h)	Tolerances of replicates (9.2.6.2)	Predrying requirement (9.2.5.6) / Remarks
1	2	3	4	5	6
Vigna radiata	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vigna subterranea	Coarse	High	1	0.2 %	To 17 % moisture content or less
Vigna unguiculata	Coarse	High	1	0.2 %	To 17 % moisture content or less
Zea mays	Fine	High	4	0.2 %	To 17 % moisture content or less; see also 9.2.5.6
Zelkova serrata	No	Low	17	Table 9B	–

9.2.6 Calculation and expression of results

9.2.6.1 Constant-temperature oven methods

The moisture content as a percentage by weight must be calculated to three decimal places for each replicate by means of the following formula:

$$\frac{Loss\ of\ weight}{Initial\ weight} \times 100 = \frac{M_2 - M_3}{M_2 - M_1} \times 100$$

Where

M_1 is the weight in grams (to a minimum of three decimal places) of the container and its cover,

M_2 is the weight in grams (to a minimum of three decimal places) of the container, its cover and its contents before drying, and

M_3 is the weight in grams (to a minimum of three decimal places) of the container, its cover and its contents after drying.

If the material is predried, the moisture content is calculated from the results obtained in the first (predrying) and second stages of the procedure. If S_1 is the moisture lost in the first stage, and S_2 is the moisture lost in the second stage, each calculated as above and expressed as a percentage, then the original moisture content of the sample calculated as a percentage is:

$$(S_1 + S_2) - \frac{S_1 \times S_2}{100}$$

9.2.6.2 Tolerances

The difference must be calculated to three decimal places and then rounded off to one decimal place. The maximum difference between the two replicates must not exceed 0.2 % after rounding from three to one decimal place. Otherwise, repeat the determination in duplicate. The reported result is the arithmetic mean of the results for two working samples (see 9.2.7). For tree and shrub species (Table 9A) it has been found impossible to meet a 0.2 % tolerance, and tolerances ranging from 0.3 to 2.5 % are prescribed. These are related to seed size and moisture content (Table 9B).

To use Table 9B, in column 1, select the relevant row depending on seed size. Then select the correct column (2, 3 or 4) depending on the moisture content of the sample.

Table 9B. Tolerance levels for differences between the two duplicate determinations of moisture content of tree and shrub seeds (significance level not defined)

Seed size	Average moisture content		
	<12 %	12–25 %	>25 %
1	2	3	4
Small: TSW <200 g	0.3 %	0.5 %	0.5 %
Large: TSW ≥200 g	0.4 %	0.8 %	2.5 %

(Source: F.T. Bonner (1984). Tolerance limits in measurement of tree seed moisture. *Seed Science and Technology* **12**, 789–794 [Table 3])