

RULES FOR TESTING SEEDS

Section 2.4, Table 1. Weights for working samples

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 1 | <i>Abelmoschus esculentus</i> (L.) Moench okra | 100 | 500 | 19 | 540 |
| 5 | <i>Abies amabilis</i> Douglas ex J. Forbes Pacific silver fir | 100 | | 25 | 705 |
| 5 | <i>Abies balsamea</i> (L.) Mill. balsam fir | 20 | | 130 | 3,740 |
| 5 | <i>Abies concolor</i> (Gordon & Glend.) Lindl. ex F. H. Hildebr. white fir | 83 | | 30 | 855 |
| 5 | <i>Abies fraseri</i> (Pursh) Poiret fraser fir | 20 | | 125 | 3,500 |
| 5 | <i>Abies grandis</i> (Douglas ex D. Don) Lindl. grand fir | 66 | | 38 | 1,070 |
| 5 | <i>Abies homolepis</i> Siebold & Zucc. nikko fir | 40 | | 65 | 1,780 |
| 5 | <i>Abies lasiocarpa</i> (Hook.) Nutt. subalpine fir | 30 | | 85 | 2,340 |
| 5 | <i>Abies magnifica</i> A. Murray bis California red fir | 200 | | 13 | 355 |
| | <i>Abies magnifica</i> A. Murray bis var. <i>shastensis</i> Lemmon Shasta red fir | see <i>Abies x shastensis</i> | | | |
| 5 | <i>Abies procera</i> Rehder noble fir | 95 | | 26 | 750 |
| 5 | <i>Abies x shastensis</i> (Lemmon) Lemmon Shasta red fir | 200 | | 13 | 355 |
| 5 | <i>Abies veitchii</i> Lindl. veitch fir | 20 | | 130 | 3,680 |
| | <i>Acer ginnala</i> Maxim. amur maple | see <i>Acer tataricum</i> subsp. <i>ginnala</i> | | | |
| 26 | <i>Acer macrophyllum</i> Pursh bigleaf maple | 350 | | 7 | 195 |
| 26 | <i>Acer negundo</i> L. boxelder or negundo maple | 100 | | 25 | 710 |
| 26 | <i>Acer pennsylvanicum</i> L. striped maple | 100 | | 25 | 710 |
| 26 | <i>Acer platanoides</i> L. Norway maple | 400 | | 6 | 165 |
| 26 | <i>Acer pseudoplatanus</i> L. sycamore maple | 200 | | 13 | 370 |
| 26 | <i>Acer rubrum</i> L. red maple | 50 | | 50 | 1,420 |

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|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 26 | <i>Acer saccharinum</i> L. silver maple | 500 | | 3 | 90 |
| 26 | <i>Acer saccharum</i> Marshall sugar maple | 175 | | 14 | 380 |
| 26 | <i>Acer spicatum</i> Lam. mountain maple | 50 | | 50 | 1,420 |
| 26 | <i>Acer tataricum</i> L. subsp. <i>ginnala</i> (Maxim.) Wesm. amur maple | 75 | | 35 | 950 |
| 27 | <i>Achillea millefolium</i> L. common yarrow | 0.4 | 4 | 6,325 | 179,314 |
| 27 | <i>Achillea ptarmica</i> L. the pearl, achillea | 0.6 | 6 | 4,200 | 119,070 |
| 12 | <i>Achnatherum hymenoides</i> (Roem. & Schult.) Barkworth Indian ricegrass | 7 | 70 | 355 | 10,120 |
| 12 | <i>Achnatherum thurberianum</i> (Piper) Barkworth Thurber needlegrass | 8 | 80 | 300 | 8,500 |
| 1 | <i>Aesculus pavia</i> L. red buckeye | 4,500 | | | 3 |
| 28 | <i>Ageratum houstonianum</i> Mill. Mexican ageratum | 0.6 | 6 | 3,920 | 111,132 |
| 22 | <i>Agropyron cristatum</i> (L.) Gaertn. fairway crested wheatgrass | 4 | 40 | 685 | 19,450 |
| 22 | <i>Agropyron desertorum</i> (Fisch. ex Link) Schult. standard crested wheatgrass | 5 | 50 | 400-455 (430) | 11,340- 12,925 |
| | <i>Agropyron elongatum</i> (Host) P. Beauv. tall wheatgrass | see <i>Elytrigia elongata</i> | | | |
| | <i>Agropyron intermedium</i> (Host) P. Beauv. var. <i>intermedium</i> intermediate wheatgrass | see <i>Elytrigia intermedia</i> subsp. <i>intermedia</i> | | | |
| | <i>Agropyron intermedium</i> (Host) P. Beauv. var. <i>trichophorum</i> (Link) Halacsy pubescent wheatgrass | see <i>Elytrigia intermedia</i> subsp. <i>intermedia</i> | | | |
| | <i>Agropyron smithii</i> Rydb. western wheatgrass | see <i>Pascopyrum smithii</i> | | | |
| | <i>Agropyron spicatum</i> (Pursh) Scribn. & J. G. Sm. f. <i>inermis</i> (Scribn. & J. G. Sm.) Beetle beardless wheatgrass | see <i>Pseudoroegneria spicata</i> | | | |
| | <i>Agropyron trachycaulum</i> (Link) Malte slender wheatgrass | see <i>Elymus trachycaulus</i> subsp. <i>trachycaulus</i> | | | |
| 13 | <i>Agrostis canina</i> L. velvet bentgrass | 0.25 | 2.5 | 18,180 | 515,450 |
| 13 | <i>Agrostis capillaris</i> L. colonial bentgrass | 0.25 | 2.5 | 13,515 | 383,115 |
| 13 | <i>Agrostis capillaris</i> L. colonial bentgrass 'Astoria' | 0.25 | 2.5 | 12,985 | 368,175 |

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|------------------|---|--|--|---|--|
| | | Grams | Grams | Number | Number |
| 13 | <i>Agrostis capillaris</i> L. colonial bentgrass 'Highland' | 0.25 | 2.5 | 12,660 | 358,850 |
| 13 | <i>Agrostis gigantea</i> Roth redtop | 0.25 | 2.5 | 10,695 | 303,200 |
| 13 | <i>Agrostis stolonifera</i> L. var. <i>palustris</i> (Huds.) Farw. creeping bentgrass | 0.25 | 2.5 | 13,515 | 383,115 |
| | <i>Agrostis tenuis</i> Sibth. colonial bentgrass | see <i>Agrostis capillaris</i> | | | |
| | <i>Agrostis tenuis</i> Sibth. colonial bentgrass 'Astoria' | see <i>Agrostis capillaris</i> 'Astoria' | | | |
| | <i>Agrostis tenuis</i> Sibth. colonial bentgrass 'Highland' | see <i>Agrostis capillaris</i> 'Highland' | | | |
| 26 | <i>Ailanthus altissima</i> (Mill.) Swingle tree-of-heaven and ailanthus | 80 | | 30 | 915 |
| 30 | <i>Alcea rosea</i> L. hollyhock | 24 | 240 | 105 | 2,977 |
| 1 | <i>Allium cepa</i> L. onion | 7 | 50 | 340 | 9,665 |
| 1 | <i>Allium porrum</i> L. leek | 7 | 50 | 395 | 11,225 |
| 1 | <i>Allium schoenoprasum</i> L. chives | 5 | 50 | | |
| 13 | <i>Alopecurus arundinaceus</i> Poir. creeping foxtail | 1.5 | 15 | 1,736 | 49,129 |
| 13 | <i>Alopecurus pratensis</i> L. meadow foxtail | 3 | 30 | 895 | 25,430 |
| 2 | <i>Alysicarpus vaginalis</i> (L.) DC. alyceclover | 5 | 50 | 665 | 18,825 |
| | <i>Alyssum saxatile</i> L. golden tuft alyssum, basket-of-gold | see <i>Aurinia saxatilis</i> subsp. <i>saxatilis</i> | | | |
| 1 | <i>Amaranthus</i> spp. amaranth, pigweed | 2 | 20 | 1,475 | 41,816 |
| 28 | <i>Amberboa moschata</i> (L.) DC. sweet sultan | - | - | - | - |
| 1 | <i>Amelanchier alnifolia</i> (Nutt.) Nutt. ex M. Roem. Saskatoon serviceberry | 30 | | 84 | 2,385 |
| 1 | <i>Anagallis arvensis</i> L. anagallis | 2 | 20 | 1,200 | 34,035 |
| 1 | <i>Anagallis monelli</i> L. anagallis | - | - | - | - |
| | <i>Anagallis monelli</i> L. subsp. <i>linifolia</i> (L.) Marie anagallis | see <i>Anagallis monelli</i> | | | |
| 27 | <i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f. pearly everlasting | - | - | - | - |

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| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 10 | <i>Anchusa azurea</i> Mill. Italian bugloss | - | - | - | - |
| 10 | <i>Anchusa capensis</i> Thunb. cape bulgoss | - | - | - | - |
| 16 | <i>Andropogon gerardii</i> Vitman big bluestem | 7 | 70 | 320 | 9,015 |
| | <i>Andropogon gerardii</i> Vitman var. <i>paucipilus</i> (Nash) Fernald sand bluestem | see <i>Andropogon hallii</i> | | | |
| 16 | <i>Andropogon hallii</i> Hack. sand bluestem | 10 | 100 | 215 | 6,040 |
| 39 | <i>Anemone pulsatilla</i> L. anemone | - | - | - | - |
| 11 | <i>Anethum graveolens</i> L. dill | 3 | 50 | 800 | 22,720 |
| 27 | <i>Anthemis sancti-johannis</i> Stoj. et al. St. Johns chamomile | - | - | - | - |
| 27 | <i>Anthemis tinctoria</i> L. golden chamomile | - | - | - | - |
| 14 | <i>Anthoxanthum odoratum</i> L. sweet vernalgrass | 2 | 20 | 1,600 | 45,360 |
| 11 | <i>Anthriscus cerefolium</i> (L.) Hoffm. chervil | 6.5 | 65 | 405 | 11,487 |
| 1 | <i>Antirrhinum</i> spp. snapdragon | 0.4 | 4 | 6,993 | 198,252 |
| 11 | <i>Apium graveolens</i> L. var. <i>dulce</i> (Mill.) Pers. and var. <i>rapaceum</i> (Mill.) Gaudin celery and celeriac | 1.2 | 12 | 2,094 | 59,365 |
| 1 | <i>Aquilegia alpina</i> L. alpine columbine | - | - | - | - |
| 1 | <i>Aquilegia caerulea</i> James columbine | - | - | - | - |
| 1 | <i>Aquilegia chrysantha</i> A. Gray columbine | - | - | - | - |
| 1 | <i>Aquilegia longissima</i> A. Gray columbine | - | - | - | - |
| 1 | <i>Aquilegia</i> spp. columbine | 4 | 40 | 600-990 (725) | 17,010- 28,067 (20,554) |
| 4 | <i>Arabis alpina</i> L. rockcress | - | - | - | - |
| 4 | <i>Arabis</i> spp. rockcress | 0.6 | 6 | 4,050 | 114,818 |
| 9 | <i>Arachis hypogaea</i> L. peanut | 500 | 500 | 1-3 | |

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| | | Grams | Grams | Number | Number |
| 28 | <i>Arctium lappa</i> L. Great burdock | 15 | 150 | | |
| 27 | <i>Arctotis fastuosa</i> Jacq. Monarch-daisy | - | - | - | - |
| | <i>Arctotis stoechadifolia</i> auct. African lilac daisy, arctotis | see <i>Arctotis venusta</i> | | | |
| 28 | <i>Arctotis venusta</i> Norl. African lilac daisy, arctotis | - | - | - | - |
| 46 | <i>Armeria</i> spp. armeria | - | - | - | - |
| 14 | <i>Arrhenatherum elatius</i> (L.) P. Beauv. ex J. Presl & C. Presl tall oatgrass | 6 | 60 | 417 | 11,820 |
| 27 | <i>Artemisia ludoviciana</i> Nutt. Louisiana sagewort | 0.5 | 5 | 8,900 | 253,000 |
| 27 | <i>Artemisia nova</i> A. Nelson black sagebrush | 1.5 | | 2,200 | 62,400 |
| 27 | <i>Artemisia tridentata</i> Nutt. big sagebrush | 0.75 | | 4,500 | 127,000 |
| 3 | <i>Asclepias tuberosa</i> L. butterfly-weed, butterfly milkweed | 12 | 120 | 215 | 6,095 |
| 1 | <i>Asparagus densiflorus</i> (Kunth) Jessop 'Sprengeri' sprenger asparagus | - | - | - | - |
| 1 | <i>Asparagus officinalis</i> L. asparagus | 100 | 500 | 25 | 710 |
| 1 | <i>Asparagus setaceus</i> (Kunth) Jessop fern asparagus | - | - | - | - |
| 28 | <i>Aster novae-angliae</i> L. New England aster | 0.9 | 9 | 2,875 | 81,506 |
| 2 | <i>Astragalus cicer</i> L. cicer milkvetch | 9 | 90 | 270 | 7,660 |
| 38 | <i>Atriplex canescens</i> (Pursh) Nutt. fourwing saltbush | 19 | | 146 | 4,150 |
| 1 | <i>Atropa belladonna</i> L. belladonna | - | - | - | - |
| 2 | <i>Aubrieta deltoidea</i> (L.) DC. aubrieta, purple rockcress | 1 | 10 | 2,500 | 70,875 |
| 4 | <i>Aurinia saxatilis</i> (L.) Desv. subsp. <i>saxatilis</i> golden tuft alyssum, basket-of-gold | 3 | 30 | 920 | 26,082 |
| | <i>Avena byzantina</i> K. Koch red oats | see <i>Avena sativa</i> | | | |
| 14 | <i>Avena sativa</i> L. oats and red oats | 75 | 500 | 35-50 | 1,000-1,425 |
| | <i>Axonopus affinis</i> Chase carpetgrass | see <i>Axonopus fissifolius</i> | | | |

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|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 14 | <i>Axonopus fissifolius</i> (Raddi) Kuhlmann. carpetgrass | 1 | 10 | 2,230 | 63,275 |
| 27 | <i>Baileya multiradiata</i> Harv. & A. Gray ex Torr. wooly-marigold | 1 | 10 | 2,150 | 60,953 |
| 27 | <i>Balsamorhiza sagittata</i> (Pursh) Nutt. arrowleaf balsamroot | 25 | 250 | 100 | 2,800 |
| 2 | <i>Barbarea verna</i> (Mill.) Asch. upland cress | 2 | 35 | 1,160 | 32,885 |
| 38 | <i>Bassia prostrata</i> (L.) A. J. Scott forage kochia | 2 | 20 | 1,070 | 30,300 |
| 38 | <i>Bassia prostrata</i> (L.) A. J. Scott 'Trichophylla' summer cypress, Mexican fire bush | - | - | - | - |
| 1 | <i>Begonia</i> spp. begonia | - | - | - | - |
| 27 | <i>Bellis perennis</i> L. English daisy | 0.4 | 4 | 5,620 | 159,327 |
| 1 | <i>Berberis thunbergii</i> DC. Japanese barberry | - | - | - | - |
| 1 | <i>Berberis vulgaris</i> L. European barberry | 30 | | 85 | 2,340 |
| | <i>Beta vulgaris</i> L. subsp. <i>cicla</i> (L.) W. D. J. Koch Swiss chard | see <i>Beta vulgaris</i> subsp. <i>vulgaris</i> | | | |
| 41 | <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i> beet and Swiss chard | 50 | 300 | 60 | 1,645 |
| 41 | <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i> field and sugar beet (incl. multigerm types) | 50 | 500 | 55 | 1,530 |
| 26 | <i>Betula alleghaniensis</i> Britton yellow birch | 3 | | 985 | 27,900 |
| 26 | <i>Betula lenta</i> L. sweet birch | 2 | | 1,420 | 40,400 |
| 26 | <i>Betula nigra</i> L. river birch | 3 | | 825 | 23,400 |
| 26 | <i>Betula papyrifera</i> Marshall paper birch | 1 | | 3,040 | 86,300 |
| 26 | <i>Betula pendula</i> Roth European white birch | 0.5 | | 5,290 | 150,000 |
| 26 | <i>Betula populifolia</i> Marshall gray birch | 0.5 | | 9,380 | 266,000 |
| 10 | <i>Borago officinalis</i> L. borage | 48 | 480 | 53 | 1,503 |
| 14 | <i>Bothriochloa ischaemum</i> (L.) Keng yellow bluestem | 1 | 10 | 1,945 | 55,170 |
| 25 | <i>Bouteloua curtipendula</i> (Michx.) Torr. side-oats grama (caryopses) (other than caryopses) | 2 | 20 | 1,605 | 45,640 |
| 23 | | 6 | 60 | 350 | 9,950 |
| 23 | <i>Bouteloua gracilis</i> (Kunth) Lag. ex Griffiths blue grama | 2 | 20 | 1,595 | 45,275 |

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|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| | <i>Brachiaria ramosa</i> (L.) Stapf browntop millet | see <i>Urochloa ramosa</i> | | | |
| 27 | <i>Brachycome iberidifolia</i> Benth. swan river-daisy | 0.4 | 4 | 5,880 | 166,698 |
| 28 | <i>Bracteaantha bracteaeta</i> (Vent.) Anderb. & Haegi helichrysum, strawflower | 1 | 10 | 1,761 | 49,924 |
| | <i>Brassica alboglabra</i> L. H. Bailey Chinese kale | see <i>Brassica oleracea</i> subsp. <i>alboglabra</i> | | | |
| | <i>Brassica chinensis</i> L. pak-choi | see <i>Brassica rapa</i> subsp. <i>chinensis</i> | | | |
| 2 | <i>Brassica juncea</i> (L.) Czern. India mustard | 5 | 50 | 625 | 17,690 |
| | <i>Brassica napus</i> L. var. <i>annua</i> W. D. J. Koch annual rape | see <i>Brassica napus</i> var. <i>napus</i> | | | |
| | <i>Brassica napus</i> L. var. <i>biennis</i> (Schübl. & G. Martens) Rchb. — winter rape | see <i>Brassica napus</i> var. <i>napus</i> | | | |
| 2 | <i>Brassica napus</i> L. var. <i>napobrassica</i> (L.) Rchb. rutabaga | 5 | 50 | 430 | 12,135 |
| 2 | <i>Brassica napus</i> L. var. <i>napus</i> annual rape | 7 | 70 | 345 | 9,810 |
| 2 | <i>Brassica napus</i> L. var. <i>napus</i> winter rape | 10 | 100 | 230 | 6,520 |
| 2 | <i>Brassica napus</i> var. <i>pabularia</i> (DC.) Rchb. Siberian kale | 8 | 80 | 325 | 9,215 |
| 2 | <i>Brassica nigra</i> (L.) W. D. J. Koch black mustard | 2 | 20 | 1,255 | 35,610 |
| | <i>Brassica oleracea</i> L. var. <i>acephala</i> DC., pro parte collards, vegetable and ornamental kale, ornamental cabbage | see <i>Brassica oleracea</i> var. <i>viridis</i> | | | |
| 2 | <i>Brassica oleracea</i> L. var. <i>alboglabra</i> (L. H. Bailey) Musil Chinese kale | 10 | 50 | | |
| 2 | <i>Brassica oleracea</i> L. var. <i>botrytis</i> L. broccoli and cauliflower | 10 | 50 | 315 | 8,930 |
| 2 | <i>Brassica oleracea</i> L. var. <i>capitata</i> L. cabbage | 10 | 50 | 315 | 8,930 |
| 2 | <i>Brassica oleracea</i> L. var. <i>costata</i> DC. trouchuda cabbage | 10 | 100 | | |
| 2 | <i>Brassica oleracea</i> L. var. <i>gemmifera</i> Zenker brussels-sprouts | 10 | 50 | 315 | 8,930 |
| 2 | <i>Brassica oleracea</i> L. var. <i>gongylodes</i> L. kohlrabi | 10 | 50 | 315 | 8,930 |
| | <i>Brassica oleracea</i> L. var. <i>trouchuda</i> L. H. Bailey trouchuda cabbage | see <i>Brassica oleracea</i> var. <i>costata</i> | | | |

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| | | Grams | Grams | Number | Number |
| 2 | <i>Brassica oleracea</i> L. var. <i>viridis</i> L. collards, vegetable and ornamental kale, ornamental cabbage | 10 | 50 | 315 | 8,930 |
| | <i>Brassica pekinensis</i> (Lour.) Rupr. pe-tsai (Chinese cabbage) | see <i>Brassica rapa</i> subsp. <i>pekinensis</i> | | | |
| | <i>Brassica perviridis</i> (L. H. Bailey) L. H. Bailey spinach mustard | see <i>Brassica rapa</i> subsp. <i>perviridis</i> | | | |
| 2 | <i>Brassica rapa</i> L. subsp. <i>chinensis</i> (L.) Hanelt pak-choi | 5 | 50 | 635 | 17,945 |
| 2 | <i>Brassica rapa</i> L. subsp. <i>pekinensis</i> (Lour.) Hanelt pe-tsai (Chinese cabbage) | 5 | 50 | 635 | 17,945 |
| 2 | <i>Brassica rapa</i> L. var. <i>perviridis</i> L. H. Bailey spinach mustard | 5 | 50 | 535 | 15,195 |
| 2 | <i>Brassica rapa</i> L. subsp. <i>rapa</i> annual turnip rape (bird rape) | 7 | 70 | 425 | 12,050 |
| 2 | <i>Brassica rapa</i> L. subsp. <i>rapa</i> biennial turnip rape, turnip | 5 | 50 | 535 | 15,195 |
| 12 | <i>Bromus arvensis</i> L. field brome | 5 | 50 | 465 | 13,210 |
| 12 | <i>Bromus catharticus</i> Vahl rescuegrass | 20 | 200 | 113 | 3,230 |
| 12 | <i>Bromus hordeaceus</i> L. soft chess | 5 | 50 | 555 | 15,740 |
| 22 | <i>Bromus inermis</i> Leyss. subsp. <i>inermis</i> smooth brome | 7 | 70 | 300-330 (315) | 8,475- 9,385 |
| 12 | <i>Bromus marginatus</i> Nees ex Steud. mountain brome | 20 | 200 | 140 | 4,005 |
| | <i>Bromus mollis</i> L. soft chess | see <i>Bromus hordeaceus</i> | | | |
| | <i>Bromus unioloides</i> Kunth rescuegrass | see <i>Bromus catharticus</i> | | | |
| 1 | <i>Browallia</i> spp. browalia, bush violet | 0.6 | 6 | 4,445 | 126,016 |
| 1 | <i>Brugmansia arborea</i> (L.) Lagerh. angel's trumpet | - | - | - | - |
| 10 | <i>Brunnera macrophylla</i> (Adams) I. M. Johnst. forget-me-not | - | - | - | - |
| 19 | <i>Buchloe dactyloides</i> (Nutt.) Engelm. buffalograss (burs) (caryopses) | 20 3 | 200 30 | 110 740 | 3,120 20,960 |
| 28 | <i>Buphthalmum salicifolium</i> L. willowleaf oxeye | - | - | - | - |
| 1 | Cactaceae cactus | - | - | - | - |
| 12 | <i>Calamagrostis canadensis</i> (Michx.) Nutt. bluejoint | 0.5 | 5 | 8,461 | 239,842 |

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|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 1 | <i>Calceolaria</i> spp. calceolaria | - | - | - | - |
| 27 | <i>Calendula officinalis</i> L. calendula, pot marigold | 18 | 180 | 140 | 3,969 |
| 27 | <i>Callistephus chinensis</i> (L.) Nees China-aster | 5 | 50 | 495 | 14,033 |
| 5 | <i>Calocedrus decurrens</i> (Torr.) Florin incense cedar | 87 | | 29 | 815 |
| 1 | <i>Camissonia cheiranthifolia</i> (Hornem. ex Spreng.) Raim. subsp. <i>cheiranthifolia</i> beach evening primrose | 0.5 | 5 | 5,445 | 154,366 |
| 1 | <i>Campanula carpatica</i> Jacq. Carpathian bellflower | - | - | - | - |
| 1 | <i>Campanula medium</i> L. Canterbury bells | - | - | - | - |
| 1 | <i>Campanula medium</i> L. 'Calycanthema' cup and saucer bellflower | - | - | - | - |
| 1 | <i>Campanula persicifolia</i> L. peach bellflower | - | - | - | - |
| 1 | <i>Campanula rotundifolia</i> L. blue bells-of Scotland, bellflower | - | - | - | - |
| 27 | <i>Cannabis sativa</i> L. hemp | 50 | 500 | 45 | 1,305 |
| 1 | <i>Capsicum</i> spp. pepper | 15 | 150 | 165 | 4,735 |
| 6 | <i>Cardiospermum halicacabum</i> L. balloonvine, heartseed | - | - | - | - |
| 1 | <i>Carneginea gigantea</i> (Englem.) Britton & Rose saguaro cactus | - | - | - | - |
| 28 | <i>Carthamus tinctorius</i> L. safflower | 100 | 500 | 30 | 825 |
| 11 | <i>Carum carvi</i> L. caraway | 8 | 80 | 333 | 9,434 |
| 36 | <i>Carya illinoensis</i> (Wangenh.) K. Koch pecan | 2,300 | | | 6 |
| 36 | <i>Carya ovata</i> (Miller) K. Koch shagbark hickory | 2,300 | | | 6 |
| 26 | <i>Casuarina</i> spp. beefwood | 3 | | 1,030 | 29,300 |
| 3 | <i>Catalpa bignonioides</i> Walter southern catalpa | 50 | | 45 | 1,280 |
| 3 | <i>Catalpa speciosa</i> (Warder ex Barney) Engelm. northern catalpa | 50 | | 45 | 1,280 |
| 28 | <i>Catananache caerulea</i> L. cupid's dart | 8 | 80 | 308 | 8.732 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 1 | <i>Catharanthus roseus</i> (L.) G. Don rose periwinkle, vinca | 4 | 40 | 685 | 19,420 |
| 2 | <i>Cedrus atlantica</i> (Endl.) G. Manetti ex Carriere Atlas cedar | 200 | | 12 | 350 |
| 2 | <i>Cedrus deodara</i> (Roxb. ex D. Don) G. Don deodar cedar | 300 | | 8 | 225 |
| 2 | <i>Cedrus libani</i> A. Rich. cedar-of-Lebanon | 200 | | 11 | 305 |
| | <i>Cedrus libani</i> subsp. <i>atlantica</i> (Endl.) Batt. & Trab. Atlas cedar | see <i>Cedrus atlantica</i> | | | |
| 6 | <i>Celastrus orbiculatus</i> Thunb. Oriental bittersweet | 20 | | 120 | 3,360 |
| 6 | <i>Celastrus scandens</i> L. American bittersweet | 40 | | 55 | 1,630 |
| 1 | <i>Celosia</i> spp. celosia, cockscomb | 2 | 20 | 1,365 | 38,698 |
| 18 | <i>Cenchrus ciliaris</i> L. buffelgrass (caryopses) (fascicles) | 2 6 | 20 60 | 1,940 357 | 55,095 10,120 |
| 27 | <i>Centaurea americana</i> Nutt. basketflower | - | - | - | - |
| 28 | <i>Centaurea cineraria</i> L. dusty-miller | - | - | - | - |
| 28 | <i>Centaurea cyanus</i> L. bachelor's button, cornflower | 11 | 110 | 225 | 6,379 |
| 28 | <i>Centaurea gymnocarpa</i> Moris & DeNot. velvet centaurea | - | - | - | - |
| 28 | <i>Centaurea imperialis</i> Hausskn. ex Bornm. royal centaurea | - | - | - | - |
| 43 | <i>Centranthus ruber</i> (L.) DC. Jupiter's-beard | 5 | 50 | 549 | 15,564 |
| 1 | <i>Cerastium tomentosum</i> L.. snow-in-summer, cerastium | 0.9 | 9 | 2,762 | 78,303 |
| | <i>Ceratoides lanata</i> (Pursh) J. T. Howell winterfat | see <i>Krascheninnikovia lanata</i> | | | |
| 39 | <i>Cercocarpus ledifolius</i> Torrey & A. Gray curleaf mountain-mahogany | 25 | | 100 | 3,000 |
| 39 | <i>Cercocarpus montanus</i> Raf. true mountain-mahogany | 28 | | 90 | 2,500 |
| 4 | <i>Chamaecyparis lawsoniana</i> (A. Murray bis) Parl. Port Orford cedar | 5 | | 465 | 13,100 |
| 4 | <i>Chamaecyparis nootkatensis</i> (D. Don) Spach Alaska cedar | 10 | | 240 | 6,750 |
| | <i>Cheiranthus cheiri</i> L. wallflower | see <i>Erysimum cheiri</i> | | | |
| 14 | <i>Chloris gayana</i> Kunth rhodesgrass | 1 | 10 | 4,725 | 133,925 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|--|--|---|--|
| | | Grams | Grams | Number | Number |
| | <i>Chrysanthemum carinatum</i> Schousboe annual chrysanthemum | see <i>Glebionis carinata</i> | | | |
| | <i>Chrysanthemum coronarium</i> L. garland, crown daisy, edible chrysanthemum, annual chrysanthemum | see <i>Glebionis coronaria</i> | | | |
| | <i>Chrysanthemum ptarmiciflorum</i> (Webb) Brenan Canary Islands chrysanthemum | see <i>Tanacetum ptarmiciflorum</i> | | | |
| | <i>Chrysanthemum segetum</i> L. annual chrysanthemum | see <i>Glebionis segetum</i> | | | |
| 28 | <i>Chrysothamnus nauseosus</i> (Pall. ex Pursh) Britton rubber rabbitbrush | 2 | | 1,350 | 38,200 |
| 2 | <i>Cicer arietinum</i> L. chickpea | 500 | 500 | 2 | 55 |
| 28 | <i>Cichorium endivia</i> L. endive | 3 | 50 | 940 | 26,650 |
| 28 | <i>Cichorium intybus</i> L. chicory | 3 | 50 | 940 | 26,650 |
| | <i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai var. <i>caffer</i> (Schrud.) Mansf. watermelon | see <i>Citrullus lanatus</i> var. <i>lanatus</i> | | | |
| 1 | <i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai var. <i>citroides</i> (L. H. Bailey) Mansf. citron | 200 | 500 | 11 | 310 |
| 1 | <i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai var. <i>lanatus</i> watermelon | 200 | 500 | 11 | 310 |
| 1 | <i>Clarkia amoena</i> (Lehm.) A. Nelson & J. F. Macbr. godetia | 1 | 10 | 2,570 | 72,860 |
| 1 | <i>Clarkia bottae</i> (Spach) H. F. Lewis & M.E. Lewis godetia | 0.5 | 5 | 4,785 | 135,655 |
| 1 | <i>Clarkia concinna</i> (Fisch. & C. A. Mey.) Greene godetia | - | - | - | - |
| 1 | <i>Clarkia unguiculata</i> Lindl. clarkia | 0.7 | 7 | 3,367 | 95,454 |
| 1 | <i>Cleome hassleriana</i> Chodat cleome, spiderflower | 5 | 50 | 496 | 14,062 |
| 1 | <i>Cleome serrulata</i> Pursh Rock Mountain beeplant | 17 | 170 | 150 | 4,250 |
| 3 | <i>Cobaea scandens</i> Cav. cathedral bells | - | - | - | - |
| 20 | <i>Coix lacryma-jobi</i> L. Job's-tears | - | - | - | - |
| | <i>Coleus blumei</i> Benth. common coleus | see <i>Solenostemon scutellarioides</i> | | | |
| | <i>Coleus scutellarioides</i> (L.) Benth. common coleus | see <i>Solenostemon scutellarioides</i> | | | |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 1 | <i>Collinsia heterophylla</i> G. Buist ex Graham Chinese-houses | 3 | 30 | 810 | 22,964 |
| 1 | <i>Consolida ajacis</i> (L.) Schur ajacis delphinium, annual larkspur, rocket larkspur | 6 | 60 | 405 | 11,482 |
| | <i>Consolida ambigua</i> auct. annual larkspur | see <i>Consolida ajacis</i> | | | |
| 1 | <i>Cordyline australis</i> (G. Forst.) Endl. cordyline, dracaena | - | - | - | - |
| 28 | <i>Coreopsis basalis</i> (A. Dietr.) S.F. Blake caliopsis | - | - | - | - |
| 28 | <i>Coreopsis lanceolata</i> L. coreopsis, perennial | 5 | 50 | 465 | 13,183 |
| 28 | <i>Coreopsis tinctoria</i> Nutt. caliopsis | 0.8 | 8 | 3,130 | 88,736 |
| 11 | <i>Coriandrum sativum</i> L. coriander | 27 | 270 | 95 | 2,703 |
| 35 | <i>Cornus florida</i> L. flowering dogwood | 190 | | 13 | 375 |
| 35 | <i>Cornus sericea</i> L. var. <i>sericea</i> red-osier dogwood | 75 | | 40 | 1,150 |
| | <i>Cornus stolonifera</i> Michx. red-osier dogwood | see <i>Cornus sericea</i> var. <i>sericea</i> | | | |
| | <i>Coronilla varia</i> L. crownvetch | see <i>Securigera varia</i> | | | |
| 28 | <i>Cosmos bipinnatus</i> Cav. cosmos: sensation, mammoth or crested types | 16 | 160 | 160 | 4,495 |
| 28 | <i>Cosmos sulphureus</i> Cav. cosmos; Klondyke types | 19 | 190 | 135 | 3,827 |
| | <i>Cowania mexicana</i> D. Don cliffrose | see <i>Purshia mexicana</i> | | | |
| 32 | <i>Crambe abyssinica</i> Hochst. ex R. E. Fr. crambe | 25 | 250 | | |
| 34 | <i>Crataegus mollis</i> (Torr. & A. Gray) Scheele downy hawthorn | 110 | | 24 | 653 |
| 8 | <i>Crossandra infundibuliformis</i> (L.) Nees crossandra | - | - | - | - |
| 2 | <i>Crotalaria brevidens</i> Benth. var. <i>intermedia</i> (Kotschy) Polhill slenderleaf crotalaria | 10 | 100 | 205 | 5,880 |
| 2 | <i>Crotalaria juncea</i> L. sunn crotalaria | 75 | 500 | 35 | 1,020 |
| 2 | <i>Crotalaria lanceolata</i> E. Mey. lanceleaf crotalaria | 7 | 70 | 375 | 10,650 |
| 2 | <i>Crotalaria pallida</i> Aiton smooth crotalaria | 10 | 100 | 215 | 6,105 |
| 2 | <i>Crotalaria spectabilis</i> Roth showy crotalaria | 25 | 250 | 80 | 2,270 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 1 | <i>Cucumis melo</i> L. muskmelon (cantaloupe) | 50 | 500 | 45 | 1,275 |
| 1 | <i>Cucumis sativus</i> L. cucumber | 75 | 500 | 40 | 1,075 |
| 1 | <i>Cucurbita pepo</i> L., <i>C. moschata</i> Duchesne and <i>C. maxima</i> Duchesne pumpkin | 500 | 500 | 5 | 115 |
| 1 | <i>Cucurbita pepo</i> L., <i>C. moschata</i> Duchesne and <i>C. maxima</i> Duchesne squash | 200 | 500 | 14 | 395 |
| 1 | <i>Cucurbita</i> spp., etc. gourds: small-seeded large-seeded | - - | - - | - - | - - |
| 11 | <i>Cuminum cyminum</i> L. cumin | - | - | - | - |
| 4 | <i>Cupressus arizonica</i> Greene Arizona cypress | 30 | | 90 | 2,500 |
| 2 | <i>Cyamopsis tetragonoloba</i> (L.) Taub. guar | 75 | 500 | 35 | 965 |
| 1 | <i>Cyclamen africanum</i> Boiss. & Reut. cyclamen | - | - | - | - |
| 27 | <i>Cynara cardunculus</i> L. subsp. <i>cardunculus</i> artichoke and cardoon | 100 | 500 | 24 | 680 |
| 12 | <i>Cynodon dactylon</i> (L.) Pers. var. <i>aridus</i> J. R. Harlan & de Wet — giant bermudagrass | 1 | 10 | 2,950 | 83,630 |
| 12 | <i>Cynodon dactylon</i> (L.) Pers. var. <i>dactylon</i> bermudagrass (unhulled) | 1 | 10 | 3,495 | 99,140 |
| 25 | | 1 | 10 | 4,565 | 129,445 |
| 10 | <i>Cynoglossum amabile</i> Stapf & J. R. Drumm. Chinese forget-me-not | 11 | 110 | 224 | 6,350 |
| 12 | <i>Cynosurus cristatus</i> L. crested dogtail | 2 | 20 | 1,900 | 53,865 |
| 24 | <i>Dactylis glomerata</i> L. orchardgrass | 3 | 30 | 840-1,050 (945) | 23,615- 29,825 |
| 27 | <i>Dahlia</i> spp. dahlia | 19 | 190 | 130 | 3,686 |
| 11 | <i>Daucus carota</i> L. subsp. <i>carota</i> Queen Anne's-lace | - | - | - | - |
| 11 | <i>Daucus carota</i> L. subsp. <i>sativus</i> (Hoffm.) Arcang. carrot | 3 | 50 | 825 | 23,415 |
| 1 | <i>Delphinium cardinale</i> Hook. cardinal larkspur, perennial delphinium | - | - | - | - |
| 1 | <i>Delphinium elatum</i> L. Pacific giant larkspur | - | - | - | - |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 2 | <i>Desmodium tortuosum</i> (Sw.) DC. Florida beggarweed | 5 | 50 | 440 | 12,540 |
| 1 | <i>Dianthus x allwoodii</i> hort. sweet wivelsfield | - | - | - | - |
| 1 | <i>Dianthus barbatus</i> L. sweet william | 3 | 30 | 900 | 25,515 |
| 1 | <i>Dianthus caryophyllus</i> L. carnation | 5 | 50 | 519 | 14,714 |
| 1 | <i>Dianthus chinensis</i> L. China pinks | 2 | 20 | 1,012 | 28,690 |
| 1 | <i>Dianthus deltooides</i> L. maiden pinks | 0.5 | 5 | 4,785 | 135,655 |
| 1 | <i>Dianthus plumarius</i> L. grass pinks | 3 | 30 | 810 | 22,964 |
| 1 | <i>Dichondra repens</i> J. R. Forst. & G. Forst. dichondra | 5 | 50 | 470 | 13,410 |
| 1 | <i>Dictamnus albus</i> L. gasplant, dittany | - | - | - | - |
| | <i>Didiscus coeruleus</i> (Graham) DC. blue lace flower | see <i>Trachymene coerulea</i> | | | |
| 1 | <i>Digitalis purpurea</i> L. foxglove | 0.2 | 2 | 10,290 | 291,721 |
| 1 | <i>Digitalis</i> spp. foxglove | - | - | - | - |
| 28 | <i>Dimorphotheca sinuata</i> DC. African-daisy, blue-eyed cape-marigold stick-type seed | 5 | 50 | 459 | 13,013 |
| | flake-type seed | 4 | 40 | 597 | 16,925 |
| 28 | <i>Doronicum orientale</i> Hoffm. Caucasian leopardbane | - | - | - | - |
| 1 | <i>Dorotheanthus bellidiformis</i> (Burm. f.) N.E. Br. ice plant, livingstone daisy | - | - | - | - |
| 27 | <i>Echinacea purpurea</i> (L.) Moench purple-coneflower | 10 | 100 | 255 | 7,229 |
| | <i>Echinochloa crus-galli</i> (L.) P. Beauv. var. <i>frumentacea</i> (Link) E. G. Camus & A. Camus Japanese millet | see <i>Echinochloa frumentacea</i> | | | |
| 14 | <i>Echinochloa frumentacea</i> Link Japanese millet | 9 | 90 | 315 | 8,930 |
| 45 | <i>Echinops ritro</i> L. small globethistle | - | - | - | - |
| 14 | <i>Ehrharta calycina</i> Sm. perennial veldtgrass | 4 | 40 | 655 | 18,610 |
| 12 | <i>Elymus canadensis</i> L. Canada wildrye | 11 | 110 | 190 | 5,385 |
| | <i>Elymus cinereus</i> Scribn. & Merr. basin wildrye | see <i>Leymus cinereus</i> | | | |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 17 | <i>Elymus elymoides</i> (Raf.) Swezey bottlebrush-squirreltail | 9 | 90 | 190-520 (300) | 5,400- 14,800 |
| | <i>Elymus junceus</i> Fisch. Russian wildrye | see <i>Psathyrostachys juncea</i> | | | |
| | <i>Elymus smithii</i> (Rydb.) Gould western wheatgrass | see <i>Pascopyrum smithii</i> | | | |
| 12 | <i>Elymus trachycaulus</i> (Link) Gould ex Shinnery subsp. <i>trachycaulus</i> slender wheatgrass | 7 | 70 | 295 | 8,335 |
| 22 | <i>Elytrigia elongata</i> (Host) Nevski tall wheatgrass | 15 | 150 | 165 | 4,650- 4,765 |
| 22 | <i>Elytrigia intermedia</i> (Host) Nevski subsp. <i>intermedia</i> pubescent wheatgrass | 15 | 150 | 165-190 (180) | 4,680- 5,445 |
| 22 | <i>Elytrigia intermedia</i> (Host) Nevski subsp. <i>intermedia</i> intermediate wheatgrass | 15 | 150 | 160-190 (175) | 4,595- 5,415 |
| | <i>Elytrigia spicata</i> (Pursh) D. R. Dewey beardless wheatgrass | see <i>Pseudoroegneria spicata</i> | | | |
| 1 | <i>Ephedra nevadensis</i> S. Watson Nevada ephedra, Nevada Mormon-tea | 60 | | 45 | 1,280 |
| 1 | <i>Ephedra viridis</i> Coville green Mormon tea | 60 | | 45 | 1,280 |
| 1 | <i>Episcia</i> spp. flame-violet | - | - | - | - |
| 12 | <i>Eragrostis curvula</i> (Schrad.) Nees weeping lovegrass | 1 | 10 | 3,270 | 92,645 |
| 12 | <i>Eragrostis trichodes</i> (Nutt.) A. W. Wood sand lovegrass | 1 | 10 | 3,585 | 101,605 |
| 12 | <i>Eremochloa ophiuroides</i> (Munro) Hack. centipedegrass | 2 | 20 | 1,253 | 35,530 |
| 28 | <i>Erigeron speciosus</i> (Lindl.) DC. Oregon fleabane | - | - | - | - |
| 44 | <i>Erodium cicutarium</i> (L.) L'Hér. alfilaria | 5 | 50 | 440 | 15,365 |
| 2 | <i>Eruca sativa</i> Mill. arugula, rocketsalad, roquette | 4.5 | 45 | 575 | 16,301 |
| | <i>Eruca vesicaria</i> (L.) Cav. subsp. <i>sativa</i> (Mill.) Thell. roquette | see <i>Eruca sativa</i> | | | |
| 2 | <i>Erysimum cheiri</i> (L.) Crantz wallflower | - | - | - | - |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 2 | <i>Erysimum hieraciifolium</i> L. wallflower | 3 | 30 | 765 | 21,688 |
| 1 | <i>Eschscholzia californica</i> Cham. California-poppy | 4 | 40 | 500-705 (595) | 14,175- 19,987 (16,868) |
| 1 | <i>Eucalyptus deglupta</i> Blume Mindanao gum | 0.5 | | 10,000 | 280,000 |
| 1 | <i>Eucalyptus grandis</i> W. Hill ex Maiden rose gum | 5 | | 715 | 20,000 |
| 1 | <i>Euphorbia heterophylla</i> L. painted euphorbia | - | - | - | - |
| 1 | <i>Euphorbia marginata</i> Pursh snow-on-the-mountain | - | - | - | - |
| | <i>Eustoma grandiflorum</i> (Raf.) Shinnery eustoma, lisianthus, prairie gentian, tulip gentian | see <i>Eustoma russellianum</i> | | | |
| 1 | <i>Eustoma russellianum</i> (Hook.) G. Don eustoma, lisianthus, prairie gentian, tulip gentian | - | - | - | - |
| 1 | <i>Exacum affine</i> Balf. f. German violet | - | - | - | - |
| 29 | <i>Fagopyrum esculentum</i> Moench buckwheat | 50 | 500 | 45 | 1,275 |
| 1 | <i>Ferocactus wislizenii</i> (Englem.) Britton & Rose barrel cactus | - | - | - | - |
| 21 | <i>Festuca arundinacea</i> Schreb. tall fescue | 5 | 50 | 390-515 (455) | 11,115- 14,600 |
| 22 | <i>Festuca brevipila</i> R. Tracey hard fescue | 2 | 20 | 1,305 | 36,995 |
| 12 | <i>Festuca filiformis</i> Pourr. hair fescue | 1 | 10 | 3,200 | 90,720 |
| 22 | <i>Festuca ovina</i> L. sheep fescue | 2 | 20 | 1,165 | 33,145 |
| 21 | <i>Festuca pratensis</i> Huds. meadow fescue | 5 | 50 | 495 | 14,090 |
| | <i>Festuca rubra</i> L. subsp. <i>commutata</i> Gaudin chewings fescue | see <i>Festuca rubra</i> ssp. <i>fallax</i> | | | |
| 22 | <i>Festuca rubra</i> L. subsp. <i>fallax</i> (Thuill.) Nyman chewings fescue | 3 | 30 | 900 | 28,040 |
| 22 | <i>Festuca rubra</i> L. subsp. <i>rubra</i> red and creeping red fescue | 3 | 30 | 805-990 | 22,820 |
| | <i>Festuca tenuifolia</i> Sibth. hair fescue | see <i>Festuca filiformis</i> | | | |
| | <i>Festuca trachyphylla</i> (Hack.) Krajina, nom. illeg. hard fescue | see <i>Festuca brevipila</i> | | | |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 11 | <i>Foeniculum vulgare</i> Mill. fennel | 11 | 110 | 261 | 7,412 |
| 26 | <i>Fraxinus americana</i> L. white ash | 100 | | 22 | 625 |
| 26 | <i>Fraxinus excelsior</i> L. European ash | 200 | | 13 | 370 |
| 26 | <i>Fraxinus latifolia</i> Benth. Oregon ash | 150 | | 18 | 505 |
| 26 | <i>Fraxinus nigra</i> Marshall black ash | 100 | | 25 | 710 |
| 26 | <i>Fraxinus pennsylvanica</i> Marshall var. <i>lanceolata</i> (Borkhausen) Sargent green ash | 50 | | 50 | 1,420 |
| 26 | <i>Fraxinus pennsylvanica</i> Marshall var. <i>pennsylvanica</i> green ash | 100 | | 25 | 710 |
| | <i>Fraxinus pennsylvanica</i> Marshall var. <i>subintegerrima</i> (Vahl) Fernald green ash | see <i>Fraxinus pennsylvanica</i> var. <i>pennsylvanica</i> | | | |
| 1 | <i>Fuchsia</i> spp. fuchsia | - | - | - | - |
| 28 | <i>Gaillardia aristata</i> Pursh gaillardia, perennial | 7 | 70 | 345 | 9,781 |
| 28 | <i>Gaillardia pulchella</i> Foug. var. <i>picta</i> (Sweet) A. Gray gaillardia, annual | 5 | 50 | 525 | 14,884 |
| 28 | <i>Gazania rigens</i> (L.) Gaertn. pied gazania | 11 | 110 | 235 | 6,705 |
| 27 | 'Rubbed' seed | 6 | 60 | 425 | 12,000 |
| 28 | <i>Gerbera jamesonii</i> Bolus ex Hook. f. transvaal-daisy | - | - | - | - |
| 39 | <i>Geum</i> spp. geum | 5 | 50 | 481 | 13,636 |
| 1 | <i>Gilia leptantha</i> Parish | 2 | 20 | 1,211 | 34,331 |
| 1 | <i>Gilia</i> spp. gilia | - | - | - | - |
| 1 | <i>Gilia tricolor</i> Benth. gilia | 1 | 10 | 2,315 | 65,630 |
| 3 | <i>Gladiolus</i> spp. gladiolus | - | - | - | - |
| 28 | <i>Glebionis carinata</i> (Schousboe) Tzvelev annual chrysanthemum | - | - | - | - |
| 28 | <i>Glebionis coronaria</i> (L.) Tzvelev garland, crown daisy, edible chrysanthemum, annual chrysanthemum | 6.5 | 65 | 385 | 10,895 |
| 28 | <i>Glebionis segetum</i> (L.) Fourr. annual chrysanthemum | - | - | - | - |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|--|--|---|--|
| | | Grams | Grams | Number | Number |
| 2 | <i>Gleditsia triacanthos</i> L. honey locust | 400 | | 6 | 175 |
| 2 | <i>Glycine max</i> (L.) Merr. soybean | 500 | 500 | 6-13 | 175-435 |
| 38 | <i>Gomphrena globosa</i> L. globe amaranth | 9 | 90 | 271 | 7,683 |
| 8 | <i>Gossypium</i> spp. cotton | 300 | 500 | 8 | 225 |
| 3 | <i>Grevillea robusta</i> A. Cunn. ex R. Br. silk-oak | 40 | | 66 | 1,875 |
| 1 | <i>Gypsophila</i> spp. baby's breath | 2 | 20 | 820-1,225 (960) | 23,247- 34,729 (27,216) |
| 2 | <i>Hedysarum boreale</i> Nutt. subsp. <i>boreale</i> northern sweetvetch | 19 | 190 | 130 | 3,690 |
| 28 | <i>Helenium</i> spp. sneezeweed, helenium | - | - | - | - |
| 1 | <i>Helianthemum nummularium</i> (L.) Mill. rock rose | - | - | - | - |
| 27 | <i>Helianthus annuus</i> L. sunflower | 100 | 500 | | |
| 27 | <i>Helianthus</i> spp. sunflower: large and small seeded | - | - | - | - |
| | <i>Helichrysum bractaeum</i> (Vent.) Andrews helichrysum, strawflower | see <i>Bracteantha bracteata</i> | | | |
| 27 | <i>Heliomeris multiflora</i> Nutt. showy goldeneye | 1.3 | 13 | 1,961 | 55,588 |
| 27 | <i>Heliopsis helianthoides</i> (L.) Sweet heliopsis | 10 | 100 | 262 | 7,428 |
| 27 | <i>Heliopsis</i> spp. heliopsis | - | - | - | - |
| 10 | <i>Heliotropium</i> spp. heliotrope | - | - | - | - |
| | <i>Helipterum roseum</i> (Hook.) Benth. helipterum | see <i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i> | | | |
| 2 | <i>Hesperis matronalis</i> L. dame's rocket and sweet rocket | 5 | 50 | 515 | 14,665 |
| 12 | <i>Hesperostipa comata</i> (Trin. & Rupr.) Barkworth needle-and-tread | 15 | 150 | 100-350 (200) | 2,800- 9,900 |
| 1 | <i>Heuchera sanguinea</i> Engelm. coral bells | - | - | - | - |
| 1 | <i>Hibiscus cannabinus</i> L. kenaf | 50 | 500 | | |
| 1 | <i>Hibiscus</i> spp. hibiscus | - | - | - | - |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 17 | <i>Hilaria jamesii</i> (Torr.) Benth. galleta grass (other than caryopses) | 10 | 100 | 260 | 7,400 |
| 25 | (caryopses) | 5 | 50 | 580 | 16,500 |
| 14 | <i>Holcus lanatus</i> L. velvetgrass | 1 | 10 | 3,360 | 95,060 |
| 14 | <i>Hordeum vulgare</i> L. subsp. <i>vulgare</i> barley | 100 | 500 | 30 | 850 |
| 1 | <i>Hunnemannia fumariifolia</i> Sweet Mexican tulip-poppy | - | - | - | - |
| 1 | <i>Hypoestes phyllostachya</i> Baker polka-dot plant | - | - | - | - |
| 4 | <i>Iberis amara</i> L. annual candytuft | - | - | - | - |
| 4 | <i>Iberis gibraltarica</i> L. perennial candytuft | - | - | - | - |
| 4 | <i>Iberis sempervirens</i> L. perennial candytuft | - | - | - | - |
| 4 | <i>Iberis umbellata</i> L. candytuft, annual | 6 | 60 | 455 | 12,860 |
| 1 | <i>Impatiens balsamina</i> L. balsam | 22 | 220 | 112 | 3,175 |
| 1 | <i>Impatiens walleriana</i> Hook. f. impatiens | 2 | 20 | 1,610 | 45,644 |
| 1 | <i>Indigofera hirsuta</i> L. hairy indigo | 7 | 70 | 435 | 12,380 |
| | <i>Inula grandiflora</i> Willd. sunflower inula | see <i>Inula orientalis</i> | | | |
| 28 | <i>Inula orientalis</i> Lam. sunflower inula | - | - | - | - |
| 1 | <i>Ipomoea alba</i> L. moonflower, white morning-glory | 500 | 500 | 4 | 113 |
| 1 | <i>Ipomoea x multifida</i> (Raf.) Shinnars cardinal climber, hearts and honey vine | 65 | 500 | 39 | 1,106 |
| 1 | <i>Ipomoea purpurea</i> (L.) Roth tall, wild or woolly morning-glory | 54 | 500 | 46 | 1,304 |
| 1 | <i>Ipomoea quamoclit</i> L. cypressvine, cypressvine morning-glory | 35 | 350 | 72 | 2,041 |
| 1 | <i>Ipomoea</i> spp. cardinal climber, hearts and honey vine | - | - | - | - |
| 1 | <i>Ipomoea tricolor</i> Cav. morning-glory | 85 | 500 | 29 | 822 |
| 1 | <i>Iris ensata</i> Thunb. Japanese iris | - | - | - | - |
| | <i>Iris kaempferi</i> Siebold ex Lem. Japanese iris | see <i>Iris ensata</i> | | | |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 1 | <i>Kalanchoe blossfeldiana</i> von Poellnitz kalanchoe | - | - | - | - |
| 1 | <i>Kniphofia</i> spp. tritoma, torchlily | 7 | 70 | 365 | 10,348 |
| | <i>Kochia prostrata</i> (L.) Schrad. forage kochia | see <i>Bassia prostrata</i> | | | |
| | <i>Kochia scoparia</i> (L.) Schrad. f. <i>trichophylla</i> (hort. ex Voss) Schinz & Thell. summer cypress, Mexican fire bush | see <i>Bassia prostrata</i> 'Trichophylla' | | | |
| 38 | <i>Krascheninnikovia lanata</i> (Pursh) A.D.J. Meeuse & A. Smit winterfat | 12 | | 213 | 6,040 |
| 9 | <i>Kummerowia stipulacea</i> (Maxim.) Makino Korean lespedeza | 5 | 50 | 525 | 14,885 |
| 9 | <i>Kummerowia striata</i> (Thunb.) Schindl. common lespedeza, striate lespedeza | 5 | 50 | 750 | 21,265 |
| 7 | <i>Lablab purpureus</i> (L.) Sweet subsp. <i>purpureus</i> hyacinth bean | 500 | 500 | 3 | 85 |
| 28 | <i>Lactuca sativa</i> L. lettuce | 3 | 30 | 1,036 | 29,371 |
| 1 | <i>Lagenaria</i> spp. gourd: large and small seeded | - | - | - | - |
| 35 | <i>Lantana camara</i> L. lantana | - | - | - | - |
| 5 | <i>Larix decidua</i> Mill. European larch | 15 | | 170 | 4,810 |
| 5 | <i>Larix kaempferi</i> (Lamb.) Carrière Japanese larch | 10 | | 260 | 7,380 |
| 5 | <i>Larix occidentalis</i> Nutt. western larch | 8 | | 315 | 8,940 |
| 5 | <i>Larix sibirica</i> Ledeb. Siberian larch | 25 | | 95 | 2,690 |
| | <i>Larix x eurolepis</i> A. Henry, nom. illeg. Dunkeld larch | see <i>Larix x marschlinsii</i> | | | |
| 5 | <i>Larix x marschlinsii</i> Coaz Dunkeld larch | 10 | | 240 | 6,750 |
| 2 | <i>Lathyrus hirsutus</i> L. rough-pea | 75 | 500 | 40 | 1,135 |
| 2 | <i>Lathyrus latifolius</i> L. everlasting-pea | - | - | - | - |
| 2 | <i>Lathyrus odoratus</i> L. annual sweet-pea | - | - | - | - |
| 2 | <i>Lathyrus sylvestris</i> L. flatpea | - | - | - | - |
| 30 | <i>Lavatera trimestris</i> L. herb treemallow | 17 | 170 | 150 | 4,252 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 28 | <i>Layia platyglossa</i> (Fisch. & C. A. Mey.) A. Gray tidy tips-daisy | 3 | 30 | 750 | 21,262 |
| 2 | <i>Lens culinaris</i> Medik. lentil | 120 | 500 | 14-23 (20) | 395- 650 |
| 27 | <i>Lentopodium alpinum</i> Cass. edelweiss | - | - | - | - |
| 2 | <i>Lepidium sativum</i> L. garden cress | 5 | 50 | 425 | 12,020 |
| 9 | <i>Lespedeza cuneata</i> (Dum. Cours.) G. Don sericea lespedeza (Chinese lespedeza) | 3 | 30 | 820 | 23,250 |
| | <i>Lespedeza hedysaroides</i> (Pall.) Kitag. Siberian lespedeza | see <i>Lespedeza juncea</i> | | | |
| 9 | <i>Lespedeza juncea</i> (L.f.) Pers. Siberian lespedeza | 3 | 30 | 820 | 23,250 |
| | <i>Lespedeza stipulacea</i> Maxim. Korean lespedeza | see <i>Kummerowia stipulacea</i> | | | |
| | <i>Lespedeza striata</i> (Thunb.) Hook. & Arn. common lespedeza, striate lespedeza | see <i>Kummerowia striata</i> | | | |
| 12 | <i>Leymus cinereus</i> (Scribn. & Merr.) Á. Löve basin wildrye | 8 | 80 | 317 | 9,000 |
| 28 | <i>Liatris</i> spp. gayfeather | 8 | 80 | 300 | 8,505 |
| | <i>Libocedrus decurrens</i> Torr. incense cedar | see <i>Calocedrus decurrens</i> | | | |
| 1 | <i>Lilium regale</i> E. H. Wilson regal lily | - | - | - | - |
| 46 | <i>Limonium sinuatum</i> (L.) Mill. statice | - | - | - | - |
| 1 | <i>Linaria maroccana</i> Hook. f. linaria | 0.2 | 2 | 14,040 | 398,015 |
| 1 | <i>Linaria</i> spp. linaria | - | - | - | - |
| 1 | <i>Linum flavum</i> L. golden flax | - | - | - | - |
| 1 | <i>Linum grandiflorum</i> Desf. 'Rubrum' flowering flax | 10 | 100 | 290 | 8,222 |
| 1 | <i>Linum lewisii</i> Pursh Lewis flax | 6 | 60 | 360 - 530 (440) | 10,200 - 15,000 (12,500) |
| 1 | <i>Linum perenne</i> L. perennial flax | 4 | 40 | 650 | 18,428 |
| 1 | <i>Linum usitatissimum</i> L. flax | 15 | 150 | 180 | 5,045 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 3 | <i>Liquidambar styraciflua</i> L. sweetgum | 10 | | 247 | 7,010 |
| 26 | <i>Liriodendron tulipifera</i> L. tulip-poplar, yellow-poplar | 58 | | 43 | 1,215 |
| 1 | <i>Lobelia erinus</i> L. lobelia | - | - | - | - |
| 4 | <i>Lobularia maritima</i> (L.) Desv. alyssum | 0.9 | 9 | 2,745 | 77,821 |
| 21 | <i>Lolium multiflorum</i> Lam. annual ryegrass (Italian ryegrass) | 5 | 50 | 395-445 (420) | 11,225- 12,560 |
| 21 | <i>Lolium perenne</i> L. perennial ryegrass | 5 | 50 | 465-595 (530) | 13,155- 16,895 |
| 21 | <i>Lolium x hybridum</i> Hausskn. intermediate ryegrass | 8 | 80 | 338 | 9,580 |
| 2 | <i>Lotus corniculatus</i> L. birdsfoot trefoil | 3 | 30 | 815 | 23,115 |
| 12 | <i>Lotus uliginosus</i> Schkuhr big trefoil | 2 | 20 | 1,945 | 55,210 |
| 4 | <i>Lunaria annua</i> L. lunaria, honesty, moneyplant | 47 | 470 | 53 | 1,503 |
| 2 | <i>Lupinus albus</i> L. white lupine | 500 | 500 | 7 | 200 |
| 2 | <i>Lupinus angustifolius</i> L. blue lupine | 500 | 500 | 7 | 200 |
| 2 | <i>Lupinus luteus</i> L. yellow lupine | 300 | 500 | 9 | 225 |
| 2 | <i>Lupinus polyphyllus</i> Lindl. lupine, Russell hybrids | - | - | - | - |
| 2 | <i>Lupinus</i> spp. lupine | - | - | - | - |
| 2 | <i>Lupinus subcarneus</i> Hooker Texas bluebonnet | 83 | 550 | 30 | 850 |
| 1 | <i>Lychnis chalconica</i> L. Jerusalem-cross, Maltese-cross | 1 | 10 | 2,304 | 65,318 |
| 1 | <i>Lychnis coronaria</i> (L.) Desr. rose campion, mullein-pink | - | - | - | - |
| 1 | <i>Lychnis viscaria</i> L. clammy campion | - | - | - | - |
| 1 | <i>Lycopersicon esculentum</i> Mill. var. <i>esculentum</i> tomato | 5 | 50 | 405 | 11,480 |
| | <i>Lycopersicon lycopersicum</i> (L.) H. Karst. tomato | see <i>Lycopersicon esculentum</i> var. <i>esculentum</i> | | | |
| 1 | <i>Lythrum salicaria</i> L. purple loosestrife | - | - | - | - |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 28 | <i>Machaeranthera tanacetifolia</i> (Kunth) Nees Tahoka-daisy | 3 | 30 | 900 | 25,515 |
| 1 | <i>Magnolia grandiflora</i> L. southern magnolia | 200 | | 14 | 400 |
| 2 | <i>Malcolmia maritima</i> (L.) R. Br. Virginia stocks | 1 | 10 | 2,199 | 62,341 |
| 1 | <i>Malus</i> spp. apple | 50 | | 45 | 1,250 |
| 1 | <i>Malus</i> spp. crabapple | 20 | | 145 | 4,130 |
| 27 | <i>Matricaria</i> spp. matricaria | - | - | - | - |
| 4 | <i>Matthiola incana</i> (L.) R. Br. common stocks | 3 | 30 | 816 | 23,134 |
| 4 | <i>Matthiola longipetala</i> (Vent.) DC. subsp. <i>bicornis</i> (Sm.) P. W. Ball evening scented stocks | - | - | - | - |
| 9 | <i>Medicago arabica</i> (L.) Huds. spotted burclover (in bur) (out of bur) | 50 | 500 | 50 | 1,390 |
| 2 | | 5 | 50 | 550 | 15,620 |
| 9 | <i>Medicago lupulina</i> L. black medick | 5 | 50 | 585 | 16,615 |
| 2 | <i>Medicago orbicularis</i> (L.) Bartal. buttonclover | 7 | 70 | 335 | 9,555 |
| 9 | <i>Medicago polymorpha</i> L. California burclover (in bur) (out of bur) | 50 | 500 | | |
| 2 | | 7 | 70 | 375 | 10,650 |
| 2 | <i>Medicago sativa</i> L. alfalfa | 5 | 50 | 500 | 14,175 |
| 9 | <i>Melilotus albus</i> Medik. white sweetclover | 5 | 50 | 570 | 16,160 |
| 9 | <i>Melilotus indicus</i> (L.) All. sourclover | 5 | 50 | 660 | 18,770 |
| 9 | <i>Melilotus officinalis</i> Lam. yellow sweetclover | 5 | 50 | 570 | 16,160 |
| 14 | <i>Melinis minutiflora</i> P. Beauv. molassesgrass | 0.5 | 5 | 7,750 | 219,765 |
| 10 | <i>Melissa officinalis</i> L. balm lemon balm | | | | |
| | | 1.5 | 15 | 1,713 | 48,563 |
| 10 | <i>Mentha x piperita</i> L. peppermint | - | - | - | - |
| 31 | <i>Mimosa pudica</i> L. sensitive-plant | 15 | 150 | 170 | 4,820 |
| 1 | <i>Mimulus x hybridus</i> hort. ex Voss tiger monkeyflower | - | - | - | - |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 42 | <i>Mirabilis jalapa</i> L. marvel-of-Peru, common four-o'clock | 210 | 500 | 12 | 340 |
| 10 | <i>Moluccella leavis</i> L. bells-of-Ireland | 14 | 140 | 180 | 5,103 |
| 10 | <i>Monarda citriodora</i> Cerv. ex Lag. lemon mint | 1 | 10 | 2,120 | 60,102 |
| 10 | <i>Monarda didyma</i> L. bergamot | - | - | - | - |
| 10 | <i>Monarda fistulosa</i> L. bergamot | - | - | - | - |
| | <i>Mucuna deeringiana</i> (Bort) Merr. velvetbean | see <i>Mucuna pruriens</i> var. <i>utilis</i> | | | |
| 7 | <i>Mucuna pruriens</i> (L.) DC. var. <i>utilis</i> (Wall. ex Wight) Baker ex Burck velvetbean | 500 | 500 | 2 | 55 |
| 10 | <i>Myosotis scorpioides</i> L. myosotis | - | - | - | - |
| 10 | <i>Myosotis sylvatica</i> Ehrh. ex Hoffm. garden forget-me-not | 2 | 20 | 1,565 | 44,368 |
| 12 | <i>Nassella viridula</i> (Trin.) Barkworth green needlegrass | 7 | 70 | 370 | 10,490 |
| 2 | <i>Nasturtium officinale</i> R. Br. watercress | 1 | 25 | 5,170 | 146,625 |
| 3 | <i>Nemesia</i> spp. nemesia | - | - | - | - |
| 1 | <i>Nemophila maculata</i> Benth. ex Lindl. spotted nemophila | 15 | 150 | 165 | 4,678 |
| 1 | <i>Nemophila menziesii</i> Hook. & Arn. nemophila, baby blue eyes | 5 | 50 | 535 | 15,167 |
| | <i>Nemophila menziesii</i> Hook. & Arn. subsp. <i>insignis</i> (Douglas ex Benth.) Brand nemophila, baby blue eyes | see <i>Nemophila menziesii</i> | | | |
| 10 | <i>Nepeta cataria</i> L. catnip | 1.5 | 15 | 1,707 | 48,387 |
| 1 | <i>Nicotiana alata</i> Link & Otto, <i>N. x sanderae</i> W. Watson nicotiana, flowering tobacco, Jasmine tobacco | 0.3 | 3 | 9,435 | 267,482 |
| 1 | <i>Nicotiana tabacum</i> L. tobacco | 0.5 | 5 | 15,625 | 442,970 |
| 1 | <i>Nierembergia</i> spp. cupflower, nierembergia | 0.4 | 4 | 6,330 | 179,456 |
| 1 | <i>Nigella damascena</i> L. nigella, love-in-a-mist | 6 | 60 | 426 | 12,077 |
| 35 | <i>Nyssa aquatica</i> L. water tupelo | 500 | | 1 | 30 |
| 35 | <i>Nyssa sylvatica</i> Marshall black tupelo | 300 | | 7 | 210 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 10 | <i>Ocimum basilicum</i> L. sweet basil | 4 | 40 | 702 | 19,902 |
| 1 | <i>Oenothera agrillicola</i> Mack. evening primrose | 1 | 10 | 2,480 | 70,308 |
| 1 | <i>Oenothera biennis</i> L. evening-primrose | - | - | - | - |
| 1 | <i>Oenothera macrocarpa</i> Nutt. Ozark sundrops, Missouri primrose | 12 | 120 | 210 | 5,954 |
| 1 | <i>Oenothera pallida</i> Lindl. jasmine primrose, pale evening-primrose | - | - | - | - |
| 9 | <i>Onobrychis viciifolia</i> Scop. sainfoin | 50 | 500 | 50 | 1,420 |
| 10 | <i>Origanum majorana</i> L. sweet majoram | 0.6 | 6 | 4335 | 122,910 |
| 14 | <i>Oryza sativa</i> L. rice | 50 | 500 | 65 | 1,870 |
| | <i>Oryzopsis hymenoides</i> (Roem. & Schult.) Ricker ex Piper Indian ricegrass | see <i>Achnatherum hymenoides</i> | | | |
| | <i>Oryzopsis miliacea</i> (L.) Benth. & Hook. f. ex Asch. & Schweinf. smilgrass | see <i>Piptatherum miliaceum</i> | | | |
| 14 | <i>Panicum antidotale</i> Retz. blue panicgrass | 2 | 20 | 1,370 | 38,895 |
| 14 | <i>Panicum maximum</i> Jacq. var. <i>maximum</i> guineagrass | 2 | 20 | 2,205 | 62,540 |
| 14 | <i>Panicum maximum</i> Jacq. var. <i>trichoglume</i> Robyns green panicgrass | 2 | 20 | 1,305 | 36,995 |
| 14 | <i>Panicum miliaceum</i> L. subsp. <i>miliaceum</i> proso millet | 15 | 150 | 185 | 5,300 |
| 14 | <i>Panicum virgatum</i> L. switchgrass | 4 | 40 | 485-655 (570) | 13,780- 18,595 |
| 1 | <i>Papaver glaucum</i> Boissi. & Hausskn. tulip poppy | - | - | - | - |
| 1 | <i>Papaver nudicaule</i> L. Iceland poppy | 0.4 | 4 | 6,125 | 173,644 |
| 1 | <i>Papaver orientale</i> L. Oriental poppy | 0.7 | 7 | 3,497 | 99,140 |
| 1 | <i>Papaver rhoeas</i> L. corn poppy, shirley poppy | 0.4 | 4 | 7,340 | 208,089 |
| 22 | <i>Pascopyrum smithii</i> (Rydb.) Å. Löve western wheatgrass | 10 | 100 | 250 | 7,115 |
| 14 | <i>Paspalum dilatatum</i> Poir. dallisgrass | 4 | 40 | 620 | 17,575 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 14 | <i>Paspalum notatum</i> Flüeggé bahiagrass (cultivars other than 'Pensacola') | 5 | 50 | 600 | 17,040 |
| 23 | <i>Paspalum notatum</i> Flüeggé bahiagrass 'Pensacola' | 5 | 50 | 600 | 17,040 |
| 14 | <i>Paspalum urvillei</i> Steud. vaseygrass | 3 | 30 | 970 | 27,550 |
| 11 | <i>Pastinaca sativa</i> L. parsnip | 5 | 50 | 430 | 12,160 |
| 44 1 | <i>Pelargonium</i> spp. geranium 'Rubbed' seed | 15 | 150 | 170 | 4,820 |
| | | 12 | 120 | 214 | 6,067 |
| | <i>Pennisetum americanum</i> (L.) Leeke pearl millet | see <i>Pennisetum glaucum</i> | | | |
| 18 | <i>Pennisetum glaucum</i> (L.) R. Brown pearl millet | 15 | 150 | 180 | 5,145 |
| 18 | <i>Pennisetum purpureum</i> Schumach. napiergrass | 5 | 50 | | |
| 1 | <i>Penstemon barbatus</i> (Cav.) Roth penstemon | - | - | - | - |
| 1 | <i>Penstemon eatonii</i> A. Gray firecracker penstemon | 3.5 | 35 | 735 | 20,900 |
| 1 | <i>Penstemon grandiflorus</i> Nutt. penstemon | - | - | - | - |
| 1 | <i>Penstemon hirsutus</i> (L.) Willd. penstemon | - | - | - | - |
| 1 | <i>Penstemon laevigatus</i> (L.) Aiton penstemon | - | - | - | - |
| 1 | <i>Penstemon palmeri</i> A. Gray Palmer penstemon | 2 | 20 | 1,250 | 35,500 |
| 1 | <i>Penstemon penlandii</i> A. W. Weber Penland's beardtongue | 3.6 | 36 | 693 | 19,647 |
| 1 | <i>Penstemon</i> spp. penstemon, beardtongue | - | - | - | - |
| 1 | <i>Penstemon strictus</i> Benth. Rocky Mountain penstemon | 2 | 20 | 1,080 | 30,618 |
| 28 | <i>Pericallis cruenta</i> (Masson ex L. Hér.) Bolle common cineraria | - | - | - | - |
| 11 | <i>Petroselinum crispum</i> (Mill.) Nyman ex A. W. Hill parsley | 5 | 50 | 650 | 18,370 |
| 1 | <i>Petunia</i> spp. petunia | 0.2 | 2 | 10,415 | 295,313 |
| 1 | <i>Phacelia campanularia</i> A. Gray phacelia | 2 | 20 | 1,815 | 51,455 |
| 1 | <i>Phacelia minor</i> (Harv.) Thell. phacelia | - | - | - | - |
| 1 | <i>Phacelia tanacetifolia</i> Benth. phacelia | 5 | 50 | 540 | 15,309 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 14 | <i>Phalaris aquatica</i> L. hardinggrass | 3 | 30 | 750 | 21,300 |
| 14 | <i>Phalaris arundinacea</i> L. reed canarygrass | 2 | 20 | 1,185 | 33,620 |
| 14 | <i>Phalaris canariensis</i> L. canarygrass | 20 | 200 | 150 | 4,255 |
| | <i>Phalaris stenoptera</i> Hack. hardinggrass | see <i>Phalaris aquatica</i> | | | |
| 2 | <i>Phaseolus coccineus</i> L. scarlet runner bean | 500 | 500 | 1 | |
| 2 | <i>Phaseolus lunatus</i> L. lima bean | 500 | 500 | 2 | 55 |
| 2 | <i>Phaseolus vulgaris</i> L. field bean | 500 | 500 | 4 | 115 |
| 2 | <i>Phaseolus vulgaris</i> L. garden bean | 500 | 500 | 4 | 115 |
| 12 | <i>Phleum pratense</i> L. timothy | 1 | 10 | 2,405- 2,725 (2,565) | 68,150- 77,250 |
| 1 | <i>Phlox drummondii</i> Hook. phlox | 5 | 50 | 525 | 14,884 |
| 1 | <i>Physalis alkekengi</i> L. Chinese lanternplant | 4 | 40 | 660 | 18,711 |
| 1 | <i>Physalis pubescens</i> L. husk-tomato | 2 | 35 | 1,240 | 35,155 |
| 1 | <i>Physalis</i> spp. physalis | - | - | - | - |
| 2 | <i>Picea abies</i> (L.) H. Karst. Norway spruce | 20 | | 140 | 4,000 |
| 2 | <i>Picea engelmannii</i> Parry ex Engelm. Engelmann spruce | 8 | | 300 | 8,440 |
| 2 | <i>Picea glauca</i> (Moench) Voss var. <i>albertiana</i> (S. Br.) Sarg. western white spruce, Alberta white spruce | 6 | | 415 | 11,800 |
| 2 | <i>Picea glauca</i> (Moench) Voss 'Densata' Black Hills spruce | 5 | | 510 | 14,400 |
| 2 | <i>Picea glauca</i> (Moench) Voss var. <i>glauca</i> white spruce | 6 | | 405 | 11,500 |
| 2 | <i>Picea glehnii</i> (F. Schmidt) Mast. Sakhalin spruce | 8 | | 300 | 8,520 |
| 2 | <i>Picea jezoensis</i> (Siebold & Zucc.) Carrière yeddo spruce | 6 | | 405 | 11,500 |
| 2 | <i>Picea koyamae</i> Shiras. Koyama spruce | 8 | | 310 | 8,770 |
| 2 | <i>Picea mariana</i> (Mill.) Britton et al. black spruce | 3 | | 890 | 25,300 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 2 | <i>Picea omorika</i> (Pancic) Purk. Serbian spruce | 8 | | 320 | 9,080 |
| 2 | <i>Picea orientalis</i> (L.) Link Oriental spruce | 15 | | 175 | 4,780 |
| 2 | <i>Picea polita</i> (Siebold & Zucc.) Carrière tigertail spruce | 40 | | 65 | 1,810 |
| 2 | <i>Picea pungens</i> Engelm., including <i>Glauca</i> group blue spruce and Colorado blue spruce | 10 | | 235 | 6,630 |
| 2 | <i>Picea rubens</i> Sarg. red spruce | 8 | | 310 | 8,750 |
| 2 | <i>Picea sitchensis</i> (Bong.) Carrière Sitka spruce | 5 | | 465 | 13,100 |
| 11 | <i>Pimpinella anisum</i> L. anise | - | - | - | - |
| 2 | <i>Pinus albicaulis</i> Engelm. whitebark pine | 300 | | 8 | 225 |
| 2 | <i>Pinus aristata</i> Engelm. bristlecone pine | 50 | | 50 | 1,440 |
| 2 | <i>Pinus banksiana</i> Lamb. jack pine | 9 | | 281 | 7,965 |
| 2 | <i>Pinus canariensis</i> C. Sm. Canary pine | 275 | | 9 | 260 |
| 2 | <i>Pinus caribaea</i> Morelet Caribbean pine | 45 | | 55 | 1,560 |
| 2 | <i>Pinus cembra</i> L. Swiss stone pine | 500 | | 4 | 115 |
| 2 | <i>Pinus cembroides</i> Zucc. Mexican pinyon pine | 500 | | 4 | 115 |
| 2 | <i>Pinus clausa</i> (Chapm. ex Engelm.) Vasey ex Sarg. sand pine | 25 | | 101 | 2,875 |
| 2 | <i>Pinus contorta</i> Douglas ex Loudon incl. var. <i>latifolia</i> Engelm. shore pine, lodgepole pine | 11 | | 228 | 6,455 |
| 2 | <i>Pinus coulteri</i> D. Don coulter pine, bigcone pine | 500 | | 3 | 85 |
| 2 | <i>Pinus densiflora</i> Siebold & Zucc. Japanese red pine | 25 | | 100 | 2,810 |
| 5 | <i>Pinus echinata</i> Mill. shortleaf pine | 28 | | 88 | 2,505 |
| 5 | <i>Pinus elliottii</i> Engelm. slash pine | 96 | | 26 | 735 |
| 2 | <i>Pinus flexilis</i> E. James limber pine | 250 | | 10 | 275 |
| 2 | <i>Pinus glabra</i> Walter spruce pine | 25 | | 102 | 2,900 |
| 2 | <i>Pinus halepensis</i> Mill. Aleppo pine | 50 | | 55 | 1,560 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| | <i>Pinus heldreichii</i> Mill. var. <i>leucodermis</i> (Antoine) Markgr. ex Fitschen Bosnian pine | see <i>Pinus leucodermis</i> | | | |
| 2 | <i>Pinus jeffreyi</i> Balf. Jeffrey pine | 300 | | 7 | 200 |
| 2 | <i>Pinus kesiya</i> Royle ex Gordon khasia pine | 50 | | 51 | 1,440 |
| 2 | <i>Pinus lambertiana</i> Douglas sugar pine | 500 | | 5 | 130 |
| 2 | <i>Pinus leucodermis</i> Antoine Bosnian pine | 50 | | 45 | 1,220 |
| 2 | <i>Pinus luchuensis</i> Mayr Formosa pine | 30 | | 80 | 2,260 |
| 2 | <i>Pinus merkusii</i> Jungh. & de Vriese Merkus pine | 65 | | 39 | 1,100 |
| 2 | <i>Pinus monticola</i> Douglas ex D. Don western white pine | 47 | | 53 | 1,500 |
| 2 | <i>Pinus mugo</i> Turra var. <i>mughus</i> (Scop.) Zenari Mugo Swiss mountain pine | 15 | | 180 | 5,150 |
| 2 | <i>Pinus mugo</i> Turra var. <i>mugo</i> Swiss mountain pine | 20 | | 135 | 3,880 |
| 2 | <i>Pinus muricata</i> D. Don bishop pine | 25 | | 102 | 2,900 |
| 2 | <i>Pinus nigra</i> J. F. Arnold subsp. <i>laricio</i> Maire Corsican pine | 30 | | 70 | 2,010 |
| 2 | <i>Pinus nigra</i> J. F. Arnold subsp. <i>nigra</i> Austrian pine | 50 | | 55 | 1,630 |
| | <i>Pinus nigra</i> J. F. Arnold var. <i>poiretiana</i> (Antoine) C. K. Schneid. Corsican pine | see <i>Pinus nigra</i> subsp. <i>laricio</i> | | | |
| 5 | <i>Pinus palustris</i> Mill. longleaf pine | 224 | | 11 | 315 |
| 2 | <i>Pinus parviflora</i> Siebold & Zucc. Japanese white pine | 250 | | 9 | 265 |
| 2 | <i>Pinus patula</i> Schiede ex Schtdl. & Cham. Jelecote pine | 20 | | 116 | 3,300 |
| 2 | <i>Pinus pinaster</i> Aiton cluster pine | 110 | | 22 | 625 |
| 2 | <i>Pinus pinea</i> L. Italian stone pine | 500 | | 1 | 40 |
| 2 | <i>Pinus ponderosa</i> P. Lawson & C. Lawson ponderosa pine, western yellow pine | 98 | | 25 | 720 |
| 2 | <i>Pinus radiata</i> D. Don Monterey pine | 80 | | 30 | 830 |
| 2 | <i>Pinus resinosa</i> Aiton red pine, Norway pine | 23 | | 110 | 3,130 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 5 | <i>Pinus rigida</i> Mill. pitch pine | 20 | | 135 | 3,880 |
| 2 | <i>Pinus serotina</i> Michx. pond pine | 20 | | 120 | 3,400 |
| 2 | <i>Pinus strobus</i> L. eastern white pine | 46 | | 54 | 1,525 |
| 2 | <i>Pinus sylvestris</i> L. Scotch pine, Scots pine | 18 | | 141 | 3,990 |
| 5 | <i>Pinus taeda</i> L. loblolly pine | 67 | | 38 | 1,065 |
| 2 | <i>Pinus thunbergii</i> Parl. Japanese black pine | 30 | | 75 | 2,130 |
| 2 | <i>Pinus virginiana</i> Mill. Virginia pine, scrub pine | 24 | | 106 | 3,000 |
| 2 | <i>Pinus wallichiana</i> A. B. Jacks. Himalayan pine | 125 | | 20 | 570 |
| 12 | <i>Piptatherum miliaceum</i> (L.) Coss. smilgrass | 2 | 20 | 2,010 | 57,025 |
| 2 | <i>Pisum sativum</i> L. subsp. <i>sativum</i> var. <i>arvense</i> (L.) Poir. field pea | 500 | 500 | 4 | 115 |
| 2 | <i>Pisum sativum</i> L. subsp. <i>sativum</i> var. <i>sativum</i> garden pea | 500 | 500 | 3 | 85 |
| 37 | <i>Platanus occidentalis</i> L. American sycamore, American planetree | 8 | | 307 | 8,715 |
| 4 | <i>Platyclusus orientalis</i> (L.) Franco Oriental arborvitae, Chinese arborvitae | 50 | | 50 | 1,450 |
| 1 | <i>Platycodon grandiflorus</i> (Jacq.) A. DC. balloon-flower | 2 | 20 | 1,155 | 32,744 |
| 1 | <i>Plumbago auriculata</i> Lam. cape plumbago | - | - | - | - |
| 14 | <i>Poa annua</i> L. annual bluegrass | 1 | 10 | 2,635 | 74,730 |
| 14 | <i>Poa arachnifera</i> Torr. Texas bluegrass | 1 | 10 | 2,500 | 71,000 |
| 47 | <i>Poa bulbosa</i> L. bulbous bluegrass | 4 | 40 | 585 | 16,640 |
| 23 | <i>Poa compressa</i> L. Canada bluegrass | 0.5 | 5 | 5,050 | 143,165 |
| 14 | <i>Poa glauca</i> Vahl glaucantha bluegrass | 1 | 10 | | |
| | <i>Poa glaucanthos</i> Gaudin glaucantha bluegrass | see <i>Poa glauca</i> | | | |
| 14 | <i>Poa nemoralis</i> L. wood bluegrass | 0.5 | 5 | 4,330 | 122,725 |
| | <i>Poa nevadensis</i> Vasey ex Scribn. Nevada bluegrass | see <i>Poa secunda</i> | | | |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 23 | <i>Poa pratensis</i> L. (incl. all cvs.) Kentucky bluegrass | 1 | 10 | 2,250-3,875 (3,065) | 63,845-109,885 |
| 14 | <i>Poa secunda</i> J. Presl Nevada bluegrass | 1 | 10 | 2,305 | 65,435 |
| 23 | <i>Poa trivialis</i> L. rough bluegrass | 0.5 | 5 | 4,610 | 130,645 |
| 29 | <i>Polygonum capitatum</i> Buch.-Ham. ex D. Don fleece flower | - | - | - | - |
| 8 | <i>Populus</i> spp. poplar | 0.5 | | 1,000-6,000 | 30,000-180,000 |
| 6 | <i>Portulaca grandiflora</i> Hook. portulaca | 0.3 | 3 | 9,709 | 275,250 |
| 1 | <i>Primula</i> spp. primrose | - | - | - | - |
| 1 | <i>Proboscidea louisianica</i> (Mill.) Thell. martynia, devil's-claw, unicorn plant | - | - | - | - |
| 34 | <i>Prunus armeniaca</i> L. apricot | 500 | | 1 | 19 |
| 34 | <i>Prunus avium</i> (L.) L. cherry | 400 | | 6 | 165 |
| 34 | <i>Prunus domestica</i> L. plum, prune | 500 | | 2 | 50 |
| 34 | <i>Prunus persica</i> (L.) Batsch peach | 1,500 | | | 7 |
| 12 | <i>Psathyrostachys juncea</i> (Fisch.) Nevski Russian wildrye | 6 | 60 | 345-370 (360) | 9,810-10,515 |
| 1 | <i>Pseudolysimachion spicatum</i> (L.) Opiz spike speedwell | - | - | - | - |
| 12 | <i>Pseudoroegneria spicata</i> (Pursh) Á. Löve beardless wheatgrass | 8 | 80 | 275 | 7,855 |
| 5 | <i>Pseudotsuga menziesii</i> (Mirb.) Franco grey Douglas fir, var. <i>caesia</i> (Schwerin) Franco and blue Douglas fir, var. <i>glauca</i> (Beissner) Franco | 30 | | 85 | 2,380 |
| 5 | <i>Pseudotsuga menziesii</i> (Mirb.) Franco var. <i>menziesii</i> green Douglas fir | 25 | | 95 | 2,630 |
| 46 | <i>Psylliostachys suworowii</i> (Regel) Roshkova statice | - | - | - | - |
| | <i>Pueraria lobata</i> (Willd.) Ohwi kudzu | see <i>Pueraria montana</i> var. <i>lobata</i> | | | |
| 7 | <i>Pueraria montana</i> (Lour.) Merr. var. <i>lobata</i> (Willd.) Maesen & S. M. Almeida kudzu | 25 | 250 | 80 | 2,295 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| | <i>Pulsatilla vulgaris</i> Mill. anemone | see <i>Anemone pulsatilla</i> | | | |
| 39 | <i>Purshia mexicana</i> (D. Don) Welsh cliffrose | 19 | | 130 | 3,650 |
| 1 | <i>Purshia tridentata</i> (Pursh) DC. antelope bitterbrush | 70 | | 37 | 1,050 |
| | <i>Pyrethrum</i> spp. painted-daisy, pyrethrum | see <i>Tanacetum</i> spp. | | | |
| 1 | <i>Pyrus communis</i> L. pear | 70 | | 35 | 940 |
| 33 | <i>Quercus alba</i> L. white oak | 1,750 | | | 8 |
| 33 | <i>Quercus muehlenbergii</i> Engelm. chinkapin oak | 560 | | | 25 |
| 33 | <i>Quercus</i> spp. (red or black oak group) | 700 | | | 20 |
| 33 | <i>Quercus virginiana</i> Mill. live oak | 630 | | | 22 |
| 39 | <i>Ranunculus</i> spp. ranunculus | - | - | - | - |
| 2 | <i>Raphanus sativus</i> L. radish | 30 | 300 | 75 | 2,125 |
| 28 | <i>Ratibida columnifera</i> (Nutt.) Wooton & Standl. Mexican hat, prairie coneflower | 2 | 20 | 1,625 | 46,069 |
| 1 | <i>Reseda odorata</i> L. mignonette | - | - | - | - |
| 29 | <i>Rheum x hybridum</i> Murray rhubarb | 50 | 300 | 60 | 1,700 |
| | <i>Rheum rhabarbarum</i> L. rhubarb | see <i>Rheum x hybridum</i> | | | |
| 28 | <i>Rhodanthe chlorocephala</i> (Turcz.) Paul G. Wilson subsp. <i>rosea</i> (Hook.) Paul G. Wilson helipterum | 7 | 70 | 334 | 9,469 |
| 3 | <i>Rhododendron</i> spp. rhododendron | 0.5 | | 11,000 | 312,500 |
| 6 | <i>Ricinus communis</i> L. castorbean | 500 | 500 | 5 | 140 |
| 7 | <i>Robinia pseudoacacia</i> L. black locust | 50 | | 55 | 1,500 |
| | <i>Rorippa nasturtium-aquaticum</i> (L.) Hayek watercress | see <i>Nasturtium officinale</i> | | | |
| 32 | <i>Rosa multiflora</i> J.A. Murray multiflora rose | 25 | | 100 | 2,810 |
| 10 | <i>Rosmarinus officinalis</i> L. rosemary | - | - | - | - |
| 27 | <i>Rudbeckia hirta</i> L. black-eyed Susan | 1 | 10 | 3,200 | 90,720 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 29 | <i>Rumex acetosa</i> L. sorrel | 2 | 35 | 1,080 | 30,590 |
| 1 | <i>Sagina subulata</i> (Sw.) C. Presl pearlwort | - | - | - | - |
| 1 | <i>Saintpaulia</i> spp. African-violet | - | - | - | - |
| 1 | <i>Salpiglossis sinuata</i> Ruiz & Pav. 'Gloxiniiflora' painted-tongue, salpiglossis | 0.6 | 6 | 4,310 | 122,189 |
| 10 | <i>Salvia coccinea</i> Buc'hoz ex Etl. Texas sage | 3 | 30 | 717 | 20,327 |
| 10 | <i>Salvia farinacea</i> Benth. mealycup sage (blue bedder) | 3 | 30 | 750 | 21,262 |
| 10 | <i>Salvia officinalis</i> L. sage | 25 | 150 | 120 | 3,435 |
| 10 | <i>Salvia splendens</i> Sellow ex Schult. scarlet sage | - | - | - | - |
| 40 | <i>Sanguisorba minor</i> Scop. little burnet | 25 | 250 | 110 | 3,070 |
| 28 | <i>Sanvitalia procumbens</i> Lam. zinnia | - | - | - | - |
| 1 | <i>Saponaria ocymoides</i> L. rock saponaria, rock soapwort | - | - | - | - |
| 10 | <i>Satureja hortensis</i> L. summer savory | 2 | 35 | 1,750 | 49,700 |
| 42 | <i>Scabiosa atropurpurea</i> L. annual mourning-bride | - | - | - | - |
| 42 | <i>Scabiosa caucasica</i> M. Bieb. perennial scabiosa | - | - | - | - |
| 16 | <i>Schizachyrium scoparium</i> (Michx.) Nash little bluestem | 5 | 50 | 525 | 14,855 |
| 1 | <i>Schizanthus</i> spp. butterfly flower, poor-man's orchid, schizanthus | 2 | 20 | 1,440 | 40,824 |
| 12 | <i>Secale cereale</i> L. subsp. <i>cereale</i> rye | 75 | 500 | 40 | 1,135 |
| | <i>Secale montanum</i> Guss. mountain rye | see <i>Secale strictum</i> subsp. <i>strictum</i> | | | |
| 12 | <i>Secale strictum</i> (C. Presl) C. Presl subsp. <i>strictum</i> mountain rye | 28 | 280 | 90 | 2,500 |
| 1 | <i>Securigera varia</i> (L.) Lassen crownvetch | 10 | 100 | 305 | 8,635 |
| 1 | <i>Sedum acre</i> L. goldmoss sedum | - | - | - | - |
| 1 | <i>Sempervivum</i> spp. hen-and-chickens | - | - | - | - |
| | <i>Senecio cruentus</i> (Masson ex L. Hér.) DC. common cineraria | see <i>Pericallis cruenta</i> | | | |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 4 | <i>Sequoia sempervirens</i> (D. Don) Endl. redwood | 12 | | 210 | 5,950 |
| 4 | <i>Sequoiadendron giganteum</i> (Lindl.) J. Buchholz giant sequoia | 12 | | 200 | 5,670 |
| 1 | <i>Sesamum indicum</i> L. sesame | 7 | 70 | 360 | 10,205 |
| 2 | <i>Sesbania exaltata</i> (Raf.) Rydb. ex A. W. Hill sesbania | 25 | 250 | 105 | 2,980 |
| | <i>Sesbania macrocarpa</i> Muhl., nom. nud. sesbania | see <i>Sesbania exaltata</i> | | | |
| 14 | <i>Setaria italica</i> (L.) P. Beauv. Italian millet | 5 | 50 | 405-550 (480) | 11,510- 15,565 |
| 1 | <i>Silene armeria</i> L. sweet-William catchfly | 0.3 | 3 | 7,535 | 213,617 |
| 2 | <i>Sinapis alba</i> L. white mustard | 15 | 150 | 160 | 4,595 |
| 1 | <i>Sinningia speciosa</i> (G. Lodd.) Hiern common gloxinia | - | - | - | - |
| 1 | <i>Solanum melongena</i> L. eggplant | 10 | 50 | 230 | 6,465 |
| 1 | <i>Solanum</i> spp. solanum | - | - | - | - |
| 10 | <i>Solenostemon scutellarioides</i> (L.) Codd common coleus | 0.6 | 6 | 2,900-5,100 (4,010) | 82,215- 144,585 (113,684) |
| 15 | <i>Sorghastrum nutans</i> (L.) Nash indiangrass | 7 | 70 | 350-440 (395) | 9,865- 12,530 |
| 15 | <i>Sorghum</i> 'Sorghrass' ^d sorghrass | 15 | 150 | 135 | 3,770 |
| 15 | <i>Sorghum x almum</i> L. Parodi almum sorghum | 15 | 150 | 150 | 4,225 |
| 15 | <i>Sorghum bicolor</i> (L.) Moench broomcorn | 40 | 400 | 60 | 1,705 |
| 15 | <i>Sorghum bicolor</i> (L.) Moench sorghum (incl. grain, sweet, and forage cvs.) | 50 | 500 | 30-80 (55) | 850- 2,270 |
| 15 | <i>Sorghum x drummondii</i> (Steud.) Mills. & Chase sorghum-sudangrass | 65 | 500 | 38 | 1,080 |
| 15 | <i>Sorghum x drummondii</i> (Steud.) Mills. & Chase sudangrass | 25 | 250 | 85-110 (100) | 2,355- 3,175 |
| 15 | <i>Sorghum halepense</i> (L.) Pers. johnsongrass | 10 | 100 | 265 | 7,455 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| | <i>Sorghum sudanense</i> (Piper) Stapf sudangrass | see <i>Sorghum x drummondii</i> | | | |
| 42 | <i>Spinacia oleracea</i> L. spinach | 25 | 150 | 100 | 2,835 |
| 12 | <i>Sporobolus cryptandrus</i> (Torr.) A. Gray sand dropseed | 0.25 | 2.5 | 12,345 | 350,005 |
| 10 | <i>Stachys byzantina</i> K. Koch lamb's-ears | 5 | 50 | 549 | 15,564 |
| | <i>Stipa viridula</i> Trin. green needlegrass | see <i>Nasella viridula</i> | | | |
| 3 | <i>Syringa vulgaris</i> L. common lilac | 12 | | 200 | 5,670 |
| 28 | <i>Tagetes</i> spp. marigold | - | - | - | - |
| 28 | <i>Tanacetum ptarmiciflorum</i> (Webb & Berthel.) Sch.-Bip. Canary Islands chrysanthemum | - | - | - | - |
| 28 | <i>Tanacetum</i> spp. painted-daisy, pyrethrum | - | - | - | - |
| 28 | <i>Tanacetum vulgare</i> L. tansy | - | - | - | - |
| 28 | <i>Taraxacum officinale</i> F. H. Wigg. group dandelion | 2 | 35 | 1,240 | 35,155 |
| 48 | <i>Tetragonia tetragonioides</i> (Pall.) Kuntze New Zealand spinach | 200 | 500 | 13 | 370 |
| 2 | <i>Thuja occidentalis</i> L. northern white cedar, eastern arborvitae | 3 | | 765 | 21,600 |
| | <i>Thuja orientalis</i> L. Oriental arborvitae (Chinese arborvitae) | see <i>Platyclusus orientalis</i> | | | |
| 2 | <i>Thuja plicata</i> Donn ex D. Don western red cedar, giant arborvitae | 3 | | 915 | 25,900 |
| 1 | <i>Thunbergia alata</i> Bojer ex Sims black-eyed-Susan-vine, clockvine, clockvine thunbergia | 66 | 500 | 40 | 1,134 |
| 10 | <i>Thymus serpyllum</i> L. mother-of-thyme | - | - | - | - |
| 10 | <i>Thymus vulgaris</i> L. common thyme | 0.7 | 70 | 3,605 | 102,194 |
| 28 | <i>Tithonia rotundifolia</i> (Mill.) S.F. Blake torch flower, tithonia | 25 | 250 | 100 | 2,835 |
| 1 | <i>Torenia fournieri</i> Linden ex E. Fourn. blue wishbone flower | - | - | - | - |
| 11 | <i>Trachymene coerulea</i> Graham blue lace flower | - | - | - | - |
| 28 | <i>Tragopogon porrifolius</i> L. salsify | 50 | 300 | 65 | 1,870 |
| 9 | <i>Trifolium alexandrinum</i> L. berseem clover | 5 | 50 | 455 | 12,930 |

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 9 | <i>Trifolium campestre</i> Schreb. large hop clover | 1 | 10 | 5,435 | 154,330 |
| 9 | <i>Trifolium dubium</i> Sibth. small hop clover, suckling clover | 2 | 20 | 1,950 | 55,225 |
| 9 | <i>Trifolium fragiferum</i> L. strawberry clover | 5 | 50 | 635 | 18,000 |
| 9 | <i>Trifolium glomeratum</i> L. cluster clover | 1 | 10 | 2,925 | 82,895 |
| 9 | <i>Trifolium hirtum</i> All. rose clover | 7 | 70 | 360 | 10,280 |
| 2 | <i>Trifolium hybridum</i> L. alsike clover | 2 | 20 | 1,500 | 42,525 |
| 9 | <i>Trifolium incarnatum</i> L. crimson clover | 10 | 100 | 330 | 9,360 |
| 9 | <i>Trifolium lappaceum</i> L. lappa clover | 2 | 20 | 1,500 | 42,525 |
| 9 | <i>Trifolium pratense</i> L. red clover | 5 | 50 | 600 | 17,010 |
| 2 | <i>Trifolium repens</i> L. white clover and ladino clover | 2 | 20 | 1,500-2,000 | 42,000-55,000 |
| 9 | <i>Trifolium resupinatum</i> L. Persian clover | 2 | 20 | 1,415 | 40,145 |
| 2 | <i>Trifolium semipilosum</i> Fresen. Kenya clover | 2 | 20 | | |
| 9 | <i>Trifolium subterraneum</i> L. sub clover, subterranean clover | 25 | 250 | 120 | 3,375 |
| 2 | <i>Trifolium vesiculosum</i> Savi arrowleaf clover | 4 | 40 | 705 | 20,000 |
| 12 | x <i>Triticosecale</i> Wittm. ex A. Camus spp. triticale | 100 | 500 | | |
| 12 | <i>Triticum aestivum</i> L. and other spp. wheat (also durum, emmer, and spelt) | 100 | 500 | 25 | 710 |
| 17 | <i>Triticum aestivum</i> L. subsp. <i>spelta</i> (L.) Thell. spelt | 100 | 500 | 25 | 710 |
| 11 | <i>Tropaeolum</i> spp. nasturtium | - | - | - | - |
| 2 | <i>Tsuga canadensis</i> (L.) Carrière eastern hemlock, Canada hemlock | 6 | | 410 | 11,700 |
| 2 | <i>Tsuga heterophylla</i> (Raf.) Sarg. western hemlock, Pacific hemlock | 5.5 | | 460 | 13,025 |
| 26 | <i>Ulmus americana</i> L. American elm | 15 | | 150 | 4,250 |
| 26 | <i>Ulmus parvifolia</i> Jacq. Chinese elm | 7 | | 355 | 10,000 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|--|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 26 | <i>Ulmus pumila</i> L. Siberian elm | 15 | | 145 | 4,060 |
| 14 | <i>Urochloa ramosa</i> (L.) R.D. Webster browntop millet | 8 | 80 | 315 | 8,900 |
| 1 | <i>Vaccaria hispanica</i> (Mill.) Rauschert cow-cockle | - | - | - | - |
| | <i>Vaccaria pyramidata</i> Medik. cow-cockle | see <i>Vaccaria hispanica</i> | | | |
| 32 | <i>Valerianella locusta</i> (L.) Laterr. cornsalad (full hearted cvs.) (all other cvs.) | 5 10 | 50 50 | 380 | 10,775 |
| | <i>Venidium fastuosum</i> (Jacq.) Stapf monarch-daisy | see <i>Arctotis fastuosa</i> | | | |
| 10 | <i>Verbena x hybrida</i> hort. ex Groenl. & Rümpler verbena | - | - | - | - |
| 1 | <i>Veronica austriaca</i> L. Hungarian speedwell | - | - | - | - |
| | <i>Veronica spicata</i> L. spike speedwell | see <i>Pseudolysimachion spicatum</i> | | | |
| 2 | <i>Vicia articulata</i> Hornem. monantha vetch | 100 | 500 | | |
| 7 | <i>Vicia benghalensis</i> L. purple vetch | 100 | 500 | 22 | 625 |
| 2 | <i>Vicia faba</i> L. broadbean | 500 | 500 | | |
| 2 | <i>Vicia pannonica</i> Crantz Hungarian vetch | 100 | 500 | 24 | 680 |
| 2 | <i>Vicia sativa</i> L. subsp. <i>nigra</i> (L.) Ehrh. blackpod vetch | 50 | 500 | 60 | 1,700 |
| 2 | <i>Vicia sativa</i> L. subsp. <i>sativa</i> common vetch | 150 | 500 | 19 | 540 |
| 2 | <i>Vicia villosa</i> Roth subsp. <i>varia</i> (Host) Corb. winter vetch | 100 | 500 | 25 | 710 |
| 2 | <i>Vicia villosa</i> Roth subsp. <i>villosa</i> hairy vetch | 75 | 500 | 35 | 1,020 |
| 7 | <i>Vigna angularis</i> (Willd.) Ohwi & H. Ohashi adzuki bean | 200 | 500 | 11 | 310 |
| 7 | <i>Vigna radiata</i> (L.) R. Wilczek var. <i>radiata</i> mung bean | 100 | 500 | 24 | 680 |
| 7 | <i>Vigna unguiculata</i> (L.) Walp. subsp. <i>sesquipedalis</i> (L.) Verdc. yard-long bean | 300 | 500 | 8 | 225 |
| 7 | <i>Vigna unguiculata</i> (L.) Walp. subsp. <i>unguiculata</i> cowpea, southern pea | 300 | 500 | 8 | 225 |
| 6 | <i>Viola cornuta</i> L. viola | 3 | 30 | 880 | 24,948 |

RULES FOR TESTING SEEDS

Table 1. Weights for working samples (cont.)

| Pure Seed Unit # | Kind of seed | Minimum weight for purity analysis ^a | Minimum weight for noxious-weed seed or bulk examination | Approximate number of seeds per gram ^b | Approximate number of seeds per ounce ^c |
|------------------|---|---|--|---|--|
| | | Grams | Grams | Number | Number |
| 6 | <i>Viola tricolor</i> L. pansy | 3 | 30 | 735 | 20,837 |
| 1 | <i>Vitis vulpina</i> L. riverbank grape | 80 | | 32 | 900 |
| 1 | <i>Yucca filamentosa</i> L. Adam's-needle, yucca | - | - | - | - |
| 14 | <i>Zea mays</i> L. subsp. <i>mays</i> field corn and popcorn | 500 | 500 | 3 | 85 |
| 14 | <i>Zea mays</i> L. subsp. <i>mays</i> sweet corn | 500 | 500 | | |
| 28 | <i>Zinnia acerosa</i> (DC.) A. Gray zinnia | - | - | - | - |
| 28 | <i>Zinnia angustifolia</i> Kunth zinnia | - | - | - | - |
| 28 | <i>Zinnia grandiflora</i> Nutt. zinnia | - | - | - | - |
| 28 | <i>Zinnia peruviana</i> (L.) L. zinnia | - | - | - | - |
| 28 | <i>Zinnia violacea</i> Cav. zinnia | - | - | - | - |
| 13 | <i>Zoysia japonica</i> Steud. Japanese lawngrass | 2 | 20 | 1,325 | 37,590 |
| 13 | <i>Zoysia matrella</i> (L.) Merr. manilagrass | 2 | 20 | | |

^aIf it is necessary to conduct a noxious-weed seed examination, see section 2.3 to determine size of the working sample. For those kinds listed that show over 500 grams as the minimum weight for purity analysis, the actual amount given shall also be considered the minimum quantity to be examined for noxious-weed seeds. In no other cases does the amount examined for noxious-weed seeds need to exceed 500 grams.

^bFigures in parentheses are the average number of seeds per gram to be used in computations of special tolerances. See section 5.2 c.

^cThe number of seeds per pound or the weight of 1,000 seeds can be calculated in the laboratory for individual lots from the sample submitted.

^dRhizomatous derivatives of a johnsongrass x sorghum cross or a johnsongrass x sudangrass cross.

Table 2. Maximum tolerated range in germination percentage. See p. 21.

SUPPORTING EVIDENCE

Since the proposal is simply a reformatting of existing sections in the AOSA Rules, supporting evidence of scientific or technical nature is not necessary. The proposal does not change existing AOSA seed unit definitions. The Purity Subcommittee selected this format for simplicity and clarity. The format is similar to the one used in the ISTA Rules. However, the PSU definitions are not equivalent to those in ISTA because the current seed unit, pure seed and inert definitions in the AOSA Rules are not equivalent to those in ISTA. The new format should make comparison between the two sets of rules easier.

SUBMITTED BY

RULES FOR TESTING SEEDS

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