

Rule Change Proposal No. 1

Purpose: To contribute seed weights of additional species to Table 1 of the AOSA Rules for Testing Seeds. New species to the AOSA Rules will be added to Handbook 25.

Present Rule: Table 1. Weights for working samples.

Proposed New Rules

Pure Seed Unit #	Kind of seed	Min. weight for purity analysis (grams)	Min. weight for noxious-weed or bulk exam. (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
1	<i>Aconitum delphiniifolium</i> DC. monkshood	7	70	365	10,350
1	<i>Aconitum napellus</i> L. aconite, garden monkshood	8	80	295	8,365
*	<i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f. pearly everlasting	0.2	2	27,775	787,420
*	<i>Anthemis tinctoria</i> L. golden chamomile, golden marguerite	1	10	2,195	62,230
*	<i>Arctotis fastuosa</i> Jacq. Cape daisy, monarch-daisy	2	20	1,225	34,730
*	<i>Buphthalmum salicifolium</i> L. willowleaf oxeye	2	20	1,135	32,175
11	<i>Bupleurum griffithii</i> green-gold bupleurum	6	60	410	11,625
*	<i>Cordyline australis</i> (G. Forst.) Endl. cordyline, fountain-dracaena	9	90	270	7,655
*	<i>Cyclamen africanum</i> Boiss. & Reut. cyclamen	23	230	110	3,120
*	<i>Daucus carota</i> L. subsp. <i>carota</i> Queen Anne's-lace	2	20	1,030	29,200
*	<i>Heuchera sanguinea</i> Engelm. coral bells	0.2	2	26,315	746,030
*	<i>Hunnemannia fumariifolia</i> Sweet Mexican tulip-poppy	10	100	265	7,510
*	<i>Hypoestes phyllostachya</i> Baker polka-dot plant	3	30	830	23,520
1	<i>Ipomoea lobata</i> (Cerv.) Thell. Spanish-flag	47	470	55	1,560

*	<i>Lathyrus sylvestris</i> L. flat-pea	98	500	26	735
28	<i>Leucoglossum paludosum</i> (Poir.) B. H. Wilcox et al. dwarf daisy	1	10	1,815	51,455
*	<i>Primula x Polyantha</i> Hort. Polyanthus	2	20	1,230	34,870
1	<i>Pseudolysimachion longifolium</i> (L.) Opiz. garden speedwell	0.2	2	16,130	457,285
*	<i>Pseudolysimachion spicatum</i> (L.) Opiz. spike speedwell	0.2	2	15,150	429,505
*	<i>Sedum acre</i> L. goldmoss sedum	0.2	2	20,835	590,670
1	<i>Silene coeli-rosa</i> (L.) Godr. rose-of-heaven	0.6	6	4,330	122,755
*	<i>Silene viscaria</i> (L.) Jess. German catchfly	0.2	2	15,385	436,165
*	<i>Trachymene coerulea</i> Graham blue laceflower	7	70	360	590,670
2	<i>Tripsacum dactyloides</i> (L.) L. Eastern gamagrass singles	205 199	500 500	12 13	340 370
*	<i>Veronica austriaca</i> L. Hungarian speedwell	0.6	6	3,920	111,130

* = PSU already included in 2002 AOSA Rules

Additions to Handbook 25: Classification Section

Scientific Name/Common Name	Family	Spp. Class	Contaminating Classification						
			A	F	H	R	S	T	V
<i>Aconitum napellus</i> L. Aconite, garden monkshood	Ranunculaceae	F	W	C	C	W	W	W	W
<i>Bupleurum griffithii</i> Green-gold bupleurum	Apiaceae	F	W	C	W	W	W	W	W
<i>Ipomoea lobata</i> (Cerv.) Thell. Spanish-flag	Convolvulaceae	F	W	C	W	W	W	W	W
<i>Silene coeli-rosa</i> (L.) Godr. Rose-of-heaven	Caryophyllaceae	F	W	C	W	W	W	W	W
<i>Primula x Polyantha</i> Hort. Polyanthus	Primulaceae	F	W	C	W	W	W	W	W
<i>Pseudolysimachion longifolium</i> (L.) Opiz. Spike speedwell	Scrophulariaceae	F	W	C	W	W	W	W	W

Additions to Handbook 25: Appendix A

Common Name

Scientific Name

Aconite	<i>Aconitum napellus</i> L.
Bupleurum, green-gold	<i>Bupleurum griffithii</i>
Monkshood, garden	<i>Aconitum napellus</i> L.
Polyanthus	<i>Primula x Polyantha</i> Hort.
Rose-of-heaven	<i>Silene coeli-rosa</i> (L.) Godr.
Spanish-flag	<i>Ipomoea lobata</i> (Cerv.) Thell.
Speedwell, spike	<i>Pseudolysimachion longifolium</i> (L.) Opiz.

Additions to Handbook 25: Appendix B

Nomen #

Scientific Name

1347	<i>Aconitum napellus</i> L.
NA	<i>Bupleurum griffithii</i>
20187	<i>Ipomoea lobata</i> (Cerv.) Thell.
401846	<i>Silene coeli-rosa</i> (L.) Godr.
NA	<i>Primula x Polyantha</i> Hort.
408177	<i>Pseudolysimachion longifolium</i> (L.) Opiz.

Harmonization

The proposed Pure Seed Units for these species are in agreement with those designated by the ISTA Rules. The PSU numbers assigned in this proposal are different than those given by ISTA because ISTA and AOSA have assigned different numbers to similar definitions. Additional note: The species included in this proposal do not have working weights provided in the ISTA rules.

Supporting Evidence: See attached tables.

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Species: *Aconitum delphiniifolium*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
362		0.2590	0.2612	0.2704	0.2562	0.2656	0.2757	0.2740	0.2698	0.2665	0.000051	0.0072	2.6844
4975		0.2718	0.2653	0.2638	0.2831	0.2719	0.2615	0.2622	0.2761	0.2695	0.000058	0.0076	2.8297
5328		0.2819	0.2664	0.2724	0.2698	0.2852	0.2673	0.2632	0.2671	0.2717	0.000062	0.0078	2.8892
6085		0.2802	0.2717	0.2998	0.2826	0.2883	0.2902	0.2886	0.2851	0.2858	0.000067	0.0082	2.8680
7082		0.2848	0.2911	0.2858	0.2957	0.2850	0.2790	0.2823	0.2779	0.2852	0.000035	0.0059	2.0776
7229		0.2683	0.2577	0.2602	0.2644	0.2691	0.2600	0.2514	0.2459	0.2596	0.000064	0.0080	3.0815
mean										0.2730			

Species: *Aconitum napellus*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
5813		0.3520	0.3554	0.3599	0.3671	0.3603	0.3669	0.3607	0.3583	0.3601	0.000027	0.0052	1.4339
6055		0.3124	0.3059	0.2961	0.2945	0.2990	0.3102	0.3080	0.3003	0.3033	0.000045	0.0067	2.2154
6084		0.3671	0.3678	0.3798	0.3475	0.3448	0.3823	0.3641	0.3678	0.3652	0.000179	0.0134	3.6645
6086		0.3570	0.3577	0.3668	0.3920	0.3685	0.3542	0.3628	0.3686	0.3660	0.000141	0.0119	3.2481
7557		0.2933	0.3087	0.2856	0.2970	0.2902	0.2915	0.3031	0.2911	0.2951	0.000057	0.0076	2.5588
mean										0.3379			

Species: *Anaphalis margaritacea*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
2643		0.0038	0.0040	0.0040	0.0041	0.0038	0.0040	0.0039	0.0037	0.0039	0.000000	0.0001	3.4663
3925		0.0042	0.0041	0.0041	0.0039	0.0041	0.0040	0.0040	0.0038	0.0040	0.000000	0.0001	3.1844
206		0.0039	0.0038	0.0038	0.0036	0.0036	0.0037	0.0036	0.0037	0.0037	0.000000	0.0001	3.0330
4514		0.0041	0.0040	0.0039	0.0038	0.0039	0.0040	0.0038	0.0037	0.0039	0.000000	0.0001	3.3572
7558		0.0038	0.0035	0.0035	0.0036	0.0036	0.0035	0.0033	0.0036	0.0036	0.000000	0.0001	3.9837
5994		0.0029	0.0028	0.0030	0.0027	0.0029	0.0027	0.0028	0.0029	0.0028	0.000000	0.0001	3.7380
6465		0.0037	0.0039	0.0036	0.0040	0.0037	0.0037	0.0036	0.0038	0.0038	0.000000	0.0001	3.7712
5822		0.0039	0.0038	0.0039	0.0036	0.0036	0.0038	0.0036	0.0038	0.0038	0.000000	0.0001	3.4915
340		0.0033	0.0034	0.0034	0.0033	0.0033	0.0033	0.0032	0.0032	0.0033	0.000000	0.0001	2.2907
mean										0.0036			

Species: *Anthemis tinctoria*

Lot No.	Variety	100 seed weight								8 mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7					
4654		0.0375	0.0369	0.0382	0.0387	0.0366	0.0351	0.0381	0.0392	0.0375	0.000002	0.0013	3.5023
4924		0.0539	0.0526	0.0519	0.0527	0.0532	0.0543	0.0547	0.0542	0.0534	0.000001	0.0010	1.8442
5804		0.0482	0.0480	0.0469	0.0460	0.0487	0.0491	0.0457	0.0489	0.0477	0.000002	0.0013	2.7762
4608		0.0475	0.0460	0.0456	0.0445	0.0450	0.0448	0.0453	0.0438	0.0453	0.000001	0.0011	2.4531
496		0.0355	0.0376	0.0359	0.0394	0.0379	0.0365	0.0390	0.0363	0.0373	0.000002	0.0014	3.8729
505621		0.0473	0.0439	0.0448	0.0467	0.0433	0.0434	0.0429	0.0459	0.0448	0.000003	0.0017	3.7462
5846		0.0528	0.0544	0.0542	0.0537	0.0483	0.0526	0.0543	0.0538	0.0530	0.000004	0.0020	3.8068
									mean	0.0456			

Species: *Arctotis fastuosa*

Lot No.	Variety	100 seed weight								8 mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7					
1580		0.0920	0.0959	0.0960	0.0954	0.1018	0.0967	0.0951	0.0964	0.0962	0.000007	0.0027	2.8140
2201		0.0963	0.0975	0.0956	0.0986	0.0973	0.0993	0.0978	0.0998	0.0978	0.000002	0.0014	1.4626
5321		0.0756	0.0736	0.0749	0.0761	0.0774	0.0749	0.0763	0.0759	0.0756	0.000001	0.0011	1.5042
5461		0.0938	0.0910	0.0904	0.0910	0.0952	0.0921	0.0969	0.0970	0.0934	0.000007	0.0027	2.8839
61001		0.0767	0.0805	0.0761	0.0762	0.0772	0.0769	0.0778	0.0774	0.0774	0.000002	0.0014	1.8060
97SO		0.0697	0.0716	0.0714	0.0732	0.0709	0.0687	0.0709	0.0727	0.0711	0.000002	0.0015	2.0645
2446		0.0805	0.0779	0.0770	0.0745	0.0712	0.0748	0.0758	0.0742	0.0757	0.000008	0.0028	3.6780
2168		0.0811	0.0752	0.0775	0.0756	0.0779	0.0749	0.0751	0.0758	0.0766	0.000004	0.0021	2.7671
3989		0.0856	0.0857	0.0876	0.0862	0.0808	0.0870	0.0789	0.0850	0.0846	0.000010	0.0031	3.6466
226371		0.0628	0.0698	0.0651	0.0712	0.0670	0.0667	0.0660	0.0657	0.0668	0.000007	0.0026	3.9675
									mean	0.0815			

Species: *Bupthalmum salicifolium*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
209		0.0828	0.0846	0.0873	0.0849	0.0828	0.0896	0.0816	0.0889	0.0853	0.000009	0.0030	3.4966
2433		0.1026	0.1105	0.1012	0.1103	0.1063	0.1010	0.1056	0.1072	0.1056	0.000014	0.0038	3.5557
4759		0.0830	0.0818	0.0891	0.0883	0.0854	0.0821	0.0816	0.0837	0.0844	0.000009	0.0029	3.4882
5003		0.0928	0.0955	0.1015	0.0962	0.0931	0.0971	0.1035	0.0946	0.0968	0.000015	0.0038	3.9757
5828		0.0955	0.0945	0.0966	0.0996	0.0943	0.0931	0.0946	0.0921	0.0950	0.000005	0.0023	2.4151
5899		0.0936	0.0918	0.0894	0.0904	0.0864	0.0935	0.0933	0.0914	0.0912	0.000006	0.0025	2.7098

Species: *Bupthalmum salicifolium* (cont.)

5900	0.0858	0.0848	0.0888	0.0836	0.0848	0.0888	0.0888	0.0904	0.0870	0.000006	0.0025	2.8811
6080	0.0855	0.0827	0.0826	0.0828	0.0812	0.0821	0.0884	0.0824	0.0835	0.000005	0.0023	2.8062
6443	0.0793	0.0756	0.0744	0.0731	0.0789	0.0779	0.0748	0.0793	0.0767	0.000006	0.0025	3.2277
7583	0.0782	0.0727	0.0749	0.0716	0.0727	0.0757	0.0742	0.0759	0.0745	0.000005	0.0021	2.8806
									mean	0.0880		

Species: *Bupleurum griffithii*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1616		0.2656	0.2559	0.2603	0.2567	0.2584	0.2602	0.2636	0.2561	0.2596	0.000013	0.0036	1.3708
1636		0.2368	0.2418	0.2309	0.2329	0.2229	0.2130	0.2261	0.2273	0.2290	0.000078	0.0088	3.8643
1885		0.1905	0.1976	0.2053	0.2089	0.2030	0.1963	0.1966	0.1997	0.1997	0.000034	0.0058	2.9138
2329		0.2462	0.2609	0.2693	0.2735	0.2652	0.2510	0.2660	0.2759	0.2635	0.000108	0.0104	3.9513
4172		0.1932	0.1990	0.1967	0.1975	0.1953	0.1978	0.2005	0.1970	0.1971	0.000005	0.0022	1.1251
6909		0.2863	0.2784	0.2898	0.2748	0.2889	0.2824	0.2833	0.2841	0.2835	0.000026	0.0051	1.7887
6910		0.2946	0.3014	0.2970	0.2951	0.3028	0.2996	0.2956	0.2909	0.2971	0.000015	0.0039	1.3230
6911		0.2092	0.2230	0.2120	0.2229	0.2213	0.2161	0.2144	0.2121	0.2164	0.000029	0.0054	2.4925
									mean	0.2432			

Species: *Cordyline australis*

Lot No.	Variety	100 seed weight								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
7544		0.3238	0.3352	0.3009	0.3263	0.3232	0.3191	0.3171	0.3258	0.3214	0.000098	0.0099	3.0818
7440		0.2789	0.2861	0.2697	0.2854	0.2957	0.3068	0.2831	0.2793	0.2856	0.000128	0.0113	3.9597
7542		0.4995	0.5028	0.4909	0.4749	0.4813	0.5247	0.5253	0.4839	0.4979	0.000364	0.0191	3.8296
5034		0.4108	0.3914	0.3897	0.3772	0.3738	0.3928	0.4161	0.3861	0.3922	0.000218	0.0148	3.7632
7541		0.4359	0.4280	0.4014	0.4077	0.3933	0.4064	0.4252	0.4025	0.4126	0.000229	0.0151	3.6660
7543		0.4421	0.4592	0.4176	0.4162	0.4299	0.4349	0.4424	0.4383	0.4351	0.000198	0.0141	3.2317
8414		0.3603	0.3569	0.3791	0.3481	0.3542	0.3793	0.3632	0.3851	0.3658	0.000185	0.0136	3.7195
4864		0.3461	0.3195	0.3227	0.3368	0.3479	0.3488	0.3411	0.3444	0.3384	0.000130	0.0114	3.3641
5026		0.3328	0.3187	0.3317	0.3592	0.3280	0.3397	0.3456	0.3227	0.3348	0.000172	0.0131	3.9131
5614		0.3925	0.3851	0.3906	0.4176	0.3766	0.4107	0.4148	0.3866	0.3968	0.000237	0.0154	3.8758
5034		0.3548	0.3897	0.3768	0.3843	0.3938	0.3590	0.3710	0.3647	0.3743	0.000206	0.0143	3.8337
7540		0.2898	0.2730	0.2708	0.2878	0.2670	0.2648	0.2733	0.2798	0.2758	0.000085	0.0092	3.3389
									mean	0.3692			

Species: *Cyclamen africanum*

Lot No.	Variety	100 seed weight								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
3109		1.3154	1.3148	1.3161	1.3081	1.3343	1.3100	1.3354	1.3511	1.3232	0.000233	0.0153	1.1549
3108		0.8050	0.8364	0.8609	0.8077	0.8585	0.8167	0.8245	0.8304	0.8300	0.000448	0.0212	2.5507
3107		1.0595	1.0461	1.0609	1.0455	1.0731	1.0458	1.0346	1.0576	1.0529	0.000146	0.0121	1.1487
3106		0.7207	0.7277	0.7325	0.7428	0.7225	0.7207	0.7584	0.7185	0.7305	0.000192	0.0138	1.8952
3105		0.9511	0.9249	0.9041	0.9482	0.9373	0.8909	0.9454	0.9293	0.9289	0.000469	0.0217	2.3315
3104		1.0020	0.9991	0.9796	0.9966	0.9872	0.9780	0.9871	1.0114	0.9926	0.000135	0.0116	1.1684
3103		0.9555	1.0020	0.9740	0.9609	0.9315	0.9641	0.9734	1.0152	0.9721	0.000696	0.0264	2.7135
(none)		0.6368	0.6628	0.6355	0.6706	0.6822	0.6210	0.6389	0.6410	0.6486	0.000434	0.0208	3.2125
CA		0.7061	0.6738	0.7228	0.6698	0.7336	0.6994	0.6834	0.7164	0.7007	0.000547	0.0234	3.3366
mean										0.9088			

Species: *Daucus carota* subsp. *carota*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
10118		0.1366	0.1286	0.1253	0.1387	0.1381	0.1341	0.1370	0.1294	0.1335	0.000025	0.0050	3.7830
DAUCAR01-B01		0.0865	0.0891	0.0848	0.0807	0.0880	0.0808	0.0870	0.0832	0.0850	0.000010	0.0032	3.7586
	herbarium	0.0530	0.0505	0.0563	0.0536	0.0525	0.0564	0.0552	0.0545	0.0540	0.000004	0.0020	3.7301
	1 qt.	0.1220	0.1211	0.1196	0.1202	0.1188	0.1155	0.1155	0.1128	0.1182	0.000010	0.0032	2.7307
	Field sample	0.0775	0.0755	0.0765	0.0730	0.0748	0.0737	0.0744	0.0770	0.0753	0.000003	0.0016	2.1367
	14496	0.1168	0.1112	0.1178	0.1144	0.1146	0.1131	0.1193	0.1153	0.1153	0.000007	0.0026	2.2578
mean										0.0969			

Species: *Heuchera sanguinea*

Lot No.	Variety	100 seed weight								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
6097		0.0045	0.0042	0.0041	0.0043	0.0042	0.0044	0.0045	0.0044	0.0043	0.000000	0.0001	3.4406
	bag	0.0039	0.0040	0.0037	0.0039	0.0038	0.0038	0.0040	0.0037	0.0039	0.000000	0.0001	3.1045
659		0.0038	0.0039	0.0041	0.0037	0.0038	0.0039	0.0040	0.0037	0.0039	0.000000	0.0001	3.6450
7567		0.0043	0.0044	0.0046	0.0044	0.0042	0.0043	0.0045	0.0046	0.0044	0.000000	0.0001	3.3037
803		0.0046	0.0048	0.0050	0.0046	0.0047	0.0049	0.0048	0.0050	0.0048	0.000000	0.0002	3.3408
6865		0.0029	0.0030	0.0030	0.0028	0.0028	0.0031	0.0028	0.0030	0.0029	0.000000	0.0001	3.9828
2670		0.0050	0.0049	0.0047	0.0050	0.0051	0.0049	0.0050	0.0050	0.0050	0.000000	0.0001	2.4146
4154		0.0040	0.0037	0.0038	0.0038	0.0040	0.0036	0.0038	0.0040	0.0038	0.000000	0.0002	3.9243

Species: *Heuchera sanguinea* (cont.)

5692	0.0036	0.0035	0.0034	0.0035	0.0034	0.0033	0.0035	0.0033	0.0034	0.000000	0.0001	3.0856
5031	0.0032	0.0035	0.0035	0.0034	0.0033	0.0033	0.0034	0.0033	0.0034	0.000000	0.0001	3.1544
6316 hybrid mix	0.0037	0.0038	0.0036	0.0038	0.0037	0.0039	0.0036	0.0036	0.0037	0.000000	0.0001	3.0330
1898 H. micrantha	0.0039	0.0038	0.0040	0.0038	0.0038	0.0037	0.0039	0.0037	0.0038	0.000000	0.0001	2.7061
5030	0.0033	0.0033	0.0035	0.0034	0.0036	0.0034	0.0036	0.0036	0.0035	0.000000	0.0001	3.7616
6073	0.0030	0.0030	0.0029	0.0029	0.0032	0.0031	0.0030	0.0029	0.0030	0.000000	0.0001	3.5635
									mean	0.0038		

Species: *Hunnemannia fumariifolia*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
118		0.3748	0.3794	0.3642	0.3661	0.3797	0.3787	0.3662	0.3629	0.3715	0.000054	0.0073	1.9751
1903		0.3675	0.3675	0.3677	0.3666	0.3716	0.3784	0.3743	0.3729	0.3708	0.000018	0.0042	1.1354
3635		0.3899	0.3863	0.3718	0.3758	0.3688	0.3698	0.3725	0.3675	0.3753	0.000070	0.0083	2.2244
4641		0.3872	0.3959	0.4006	0.3843	0.3970	0.3927	0.4043	0.3926	0.3943	0.000044	0.0066	1.6750
5025		0.3864	0.3805	0.3667	0.3716	0.3801	0.3700	0.3623	0.3615	0.3724	0.000083	0.0091	2.4457
5644		0.3863	0.3843	0.3870	0.3759	0.3899	0.3793	0.3966	0.3820	0.3852	0.000041	0.0064	1.6678
6869		0.3698	0.3768	0.3851	0.3754	0.3827	0.3657	0.3786	0.3717	0.3757	0.000043	0.0065	1.7362
7663		0.4041	0.3989	0.3900	0.4047	0.4050	0.3957	0.3987	0.3998	0.3996	0.000026	0.0051	1.2834
66801		0.3856	0.3802	0.3886	0.3797	0.3776	0.3808	0.3816	0.3868	0.3826	0.000015	0.0039	1.0173
									mean	0.3808			

Species: *Hypoestes phyllostachya*

Lot No.	Variety	100 seed weight								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
4865		0.1395	0.1386	0.1359	0.1375	0.1342	0.1382	0.1362	0.1348	0.1369	0.000004	0.0019	1.3775
2431		0.1222	0.1213	0.1234	0.1220	0.1195	0.1207	0.1175	0.1192	0.1207	0.000004	0.0019	1.5814
1013		0.1227	0.1233	0.1238	0.1210	0.1208	0.1219	0.1220	0.1224	0.1222	0.000001	0.0010	0.8512
1014		0.1232	0.1228	0.1197	0.1203	0.1171	0.1219	0.1224	0.1227	0.1213	0.000004	0.0021	1.7236
1083		0.1103	0.1060	0.1072	0.1055	0.1045	0.1042	0.1073	0.1113	0.1070	0.000007	0.0026	2.4167
1116		0.1159	0.1141	0.1180	0.1171	0.1144	0.1140	0.1158	0.1179	0.1159	0.000003	0.0016	1.4200
									mean	0.1207			

Species: *Ipomoea lobata*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1902	exotic love	2.3245	2.3455	2.3436	2.3117	2.3380	2.2913	2.3293	2.3628	2.3308	0.000489	0.0221	0.9487
2621		1.8124	1.8608	1.8397	1.8530	1.8336	1.8226	1.8283	1.8240	1.8343	0.000263	0.0162	0.8839
2726		1.8866	1.8254	1.8609	1.8931	1.8864	1.9144	1.8908	1.8685	1.8783	0.000716	0.0268	1.4244
4203	exotic love	1.8552	1.7729	1.7712	1.7162	1.7963	1.7973	1.7577	1.7157	1.7728	0.002091	0.0457	2.5794
5327		1.7175	1.6531	1.6934	1.7379	1.7270	1.8132	1.7277	1.7398	1.7262	0.002056	0.0453	2.6265
5672	Spanish flag	1.8043	1.7579	1.7386	1.7659	1.7945	1.7757	1.7624	1.7338	1.7666	0.000605	0.0246	1.3925
6698	exotic love	1.7693	1.7629	1.7344	1.7104	1.7161	1.7918	1.6889	1.7594	1.7417	0.001216	0.0349	2.0020
									mean	1.8644			

Species: *Lathyrus sylvestris*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
A	Flat-pea	3.9928	4.0689	4.1701	4.0062	4.0919	4.0938	4.1171	4.1469	4.0860	0.003884	0.0623	1.5254
B	Flat-pea	3.9223	3.8902	3.7988	3.8445	3.7633	3.9838	3.7513	3.7348	3.8361	0.008055	0.0898	2.3396
C	Flat-pea	3.8902	3.6764	3.7667	3.7522	3.7053	3.5624	3.6193	3.9354	3.7385	0.016135	0.1270	3.3977
D	Flat-pea	4.3287	4.2211	3.9448	4.2049	4.1574	4.2308	4.1431	4.0104	4.1552	0.015431	0.1242	2.9896
E	Flat-pea	3.6001	3.3936	3.3555	3.5521	3.5879	3.5717	3.4821	3.3358	3.4849	0.011893	0.1091	3.1294
F	Flat-pea	3.8823	4.1481	3.9276	3.8678	4.0621	3.9861	4.0189	4.1251	4.0023	0.011217	0.1059	2.6463
G	Flat-pea	4.1004	4.1372	4.0577	4.1768	4.2075	4.1742	3.9811	4.2313	4.1333	0.006950	0.0834	2.0170
									mean	3.9194			

Species: *Leucanthemum paludosum*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
246		0.0610	0.0628	0.0623	0.0624	0.0650	0.0612	0.0643	0.0609	0.0625	0.000002	0.0015	2.4292
247		0.0532	0.0559	0.0556	0.0564	0.0575	0.0583	0.0550	0.0576	0.0562	0.000003	0.0016	2.9313
299		0.0566	0.0539	0.0549	0.0524	0.0529	0.0530	0.0560	0.0508	0.0538	0.000004	0.0019	3.6026
1933		0.0470	0.0475	0.0492	0.0468	0.0478	0.0462	0.0475	0.0496	0.0477	0.000001	0.0012	2.4423
2405		0.0470	0.0492	0.0455	0.0488	0.0476	0.0492	0.0456	0.0455	0.0473	0.000003	0.0016	3.4849
5474		0.0616	0.0657	0.0615	0.0661	0.0651	0.0599	0.0616	0.0649	0.0633	0.000006	0.0024	3.7754
6118		0.0587	0.0604	0.0595	0.0584	0.0580	0.0592	0.0596	0.0617	0.0594	0.000001	0.0012	1.9926
6120		0.0566	0.0570	0.0588	0.0579	0.0577	0.0560	0.0597	0.0572	0.0576	0.000001	0.0012	2.0776

Species: *Leucanthemum paludosum* (cont.)

7314	0.0521	0.0532	0.0519	0.0527	0.0512	0.0523	0.0513	0.0525	0.0522	0.000000	0.0007	1.3046
7757	0.0498	0.0520	0.0522	0.0506	0.0490	0.0514	0.0493	0.0531	0.0509	0.000002	0.0015	2.9178
									mean	0.0551		

Species: *Lychnis coeli-rosa*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
2449		0.0279	0.0274	0.0282	0.0278	0.0279	0.0281	0.0281	0.0276	0.0279	0.000000	0.0003	0.9731
3806		0.0216	0.0226	0.0217	0.0209	0.0209	0.0206	0.0219	0.0219	0.0215	0.000000	0.0007	3.0978
3807		0.0181	0.0186	0.0191	0.0191	0.0193	0.0200	0.0195	0.0183	0.0190	0.000000	0.0006	3.3406
5955		0.0244	0.0269	0.0260	0.0247	0.0260	0.0247	0.0268	0.0264	0.0257	0.000001	0.0010	3.8850
7610		0.0217	0.0221	0.0209	0.0208	0.0223	0.0205	0.0215	0.0206	0.0213	0.000000	0.0007	3.2623
										mean	0.0231		

Species: *Lychnis viscaria*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
5948		0.0078	0.0079	0.0079	0.0081	0.0082	0.0086	0.0083	0.0080	0.0081	0.000000	0.0003	3.2329
6057		0.0053	0.0053	0.0054	0.0056	0.0053	0.0054	0.0050	0.0056	0.0054	0.000000	0.0002	3.5853
6059		0.0063	0.0065	0.0067	0.0064	0.0065	0.0066	0.0066	0.0068	0.0066	0.000000	0.0002	2.4482
6408		0.0077	0.0073	0.0078	0.0073	0.0077	0.0078	0.0078	0.0076	0.0076	0.000000	0.0002	2.7821
6423		0.0076	0.0072	0.0071	0.0070	0.0069	0.0073	0.0071	0.0073	0.0072	0.000000	0.0002	3.0151
7194		0.0055	0.0055	0.0054	0.0057	0.0051	0.0058	0.0053	0.0055	0.0055	0.000000	0.0002	3.9957
7467		0.0067	0.0068	0.0064	0.0063	0.0066	0.0063	0.0062	0.0062	0.0064	0.000000	0.0002	3.6134
7514		0.0051	0.0051	0.0049	0.0049	0.0051	0.0050	0.0051	0.0051	0.0050	0.000000	0.0001	1.8186
										mean	0.0065		

Species: *Primula x polyantha*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
6340		0.0902	0.0876	0.0884	0.0885	0.0861	0.0867	0.0843	0.0919	0.0880	0.000006	0.0024	2.7039
6341		0.0813	0.0753	0.0769	0.0809	0.0828	0.0789	0.0822	0.0765	0.0794	0.000008	0.0029	3.5949
6342		0.0799	0.0842	0.0781	0.0782	0.0788	0.0787	0.0793	0.0796	0.0796	0.000004	0.0020	2.4673
390 P. veris (Polyanthus)		0.0763	0.0839	0.0759	0.0788	0.0820	0.0784	0.0840	0.0791	0.0798	0.000010	0.0032	3.9684

Species: *Primula x polyantha* (cont.)

3191 P. veris	0.0874	0.0794	0.0871	0.0859	0.0831	0.0795	0.0836	0.0851	0.0839	0.000010	0.0031	3.7228
4636 P. (Polyanthus mix)	0.0760	0.0752	0.0844	0.0787	0.0779	0.0787	0.0798	0.0822	0.0791	0.000009	0.0030	3.8449
3190 P. veris (Polyanthus)	0.0803	0.0775	0.0841	0.0764	0.0818	0.0821	0.0775	0.0815	0.0802	0.000007	0.0027	3.4032
5820 Polyanthus	0.0769	0.0711	0.0735	0.0753	0.0698	0.0693	0.0742	0.0761	0.0733	0.000008	0.0029	3.9532
6666 Polyanthus	0.0820	0.0826	0.0805	0.0809	0.0802	0.0835	0.0843	0.0829	0.0821	0.000002	0.0015	1.8010
3871 Pageant mix	0.0860	0.0868	0.0901	0.0879	0.0875	0.0865	0.0874	0.0871	0.0874	0.000002	0.0012	1.4189
2574 P. vulgaris	0.0845	0.0873	0.0851	0.0871	0.0841	0.0877	0.0865	0.0839	0.0858	0.000002	0.0015	1.8015
4780 P. polyantha	0.0788	0.0741	0.0829	0.0812	0.0743	0.0787	0.0763	0.0782	0.0781	0.000010	0.0031	3.9685
6463 P. polyantha	0.0760	0.0752	0.0765	0.0789	0.0742	0.0716	0.0739	0.0726	0.0749	0.000005	0.0023	3.0925
367 P. polyantha	0.0806	0.0831	0.0828	0.0846	0.0891	0.0897	0.0922	0.0847	0.0859	0.000016	0.0040	4.6805
									mean	0.0812		

Species: *Pseudolysimachion longifolia*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
6144		0.0068	0.0066	0.0069	0.0063	0.0069	0.0064	0.0068	0.0064	0.0066	0.000000	0.0002	3.6849
6002	lavender blue	0.0058	0.0059	0.0057	0.0062	0.0060	0.0061	0.0056	0.0062	0.0059	0.000000	0.0002	3.8128
6588		0.0062	0.0060	0.0058	0.0065	0.0062	0.0065	0.0063	0.0062	0.0062	0.000000	0.0002	3.7933
6878		0.0056	0.0053	0.0057	0.0054	0.0051	0.0052	0.0052	0.0053	0.0054	0.000000	0.0002	3.8695
5811		0.0058	0.0059	0.0061	0.0054	0.0055	0.0058	0.0057	0.0056	0.0057	0.000000	0.0002	3.9336
5084		0.0057	0.0058	0.0055	0.0059	0.0060	0.0054	0.0054	0.0056	0.0057	0.000000	0.0002	3.9980
3774		0.0081	0.0079	0.0078	0.0073	0.0079	0.0076	0.0075	0.0081	0.0078	0.000000	0.0003	3.6862
									mean	0.0062			

Species: *Pseudolysimachion spicatum*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
6145		0.0069	0.0063	0.0067	0.0065	0.0069	0.0068	0.0069	0.0064	0.0067	0.000000	0.0002	3.6477
5814	spicata cerulea	0.0065	0.0063	0.0062	0.0061	0.0063	0.0064	0.0061	0.0065	0.0063	0.000000	0.0002	2.5453
6041		0.0069	0.0065	0.0066	0.0067	0.0065	0.0064	0.0067	0.0068	0.0066	0.000000	0.0002	2.5386
6451	spicata blue	0.0087	0.0083	0.0087	0.0087	0.0084	0.0088	0.0086	0.0084	0.0086	0.000000	0.0002	2.1367
6587	spicata blue	0.0063	0.0061	0.0065	0.0068	0.0065	0.0064	0.0067	0.0065	0.0065	0.000000	0.0002	3.3786
6879		0.0064	0.0060	0.0061	0.0061	0.0059	0.0058	0.0057	0.0059	0.0060	0.000000	0.0002	3.6194
5899		0.0074	0.0073	0.0076	0.0072	0.0077	0.0077	0.0073	0.0075	0.0075	0.000000	0.0002	2.5764
332		0.0061	0.0057	0.0056	0.0060	0.0056	0.0056	0.0057	0.0058	0.0058	0.000000	0.0002	3.3364

Species: *Pseudolysimachion spicatum* (cont.)

335	0.0057	0.0053	0.0057	0.0053	0.0055	0.0058	0.0054	0.0056	0.0055	0.000000	0.0002	3.4720
6448	0.0061	0.0057	0.0062	0.0063	0.0063	0.0065	0.0061	0.0060	0.0062	0.000000	0.0002	3.8869

mean 0.0066

Species: *Sedum acre*

100 seed weight (grams)

Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
1332	wall pepper yellow	0.0051	0.0055	0.0053	0.0052	0.0052	0.0051	0.0050	0.0051	0.0052	0.000000	0.0002	2.9931
2642		0.0037	0.0037	0.0038	0.0037	0.0037	0.0037	0.0038	0.0039	0.0038	0.000000	0.0001	2.0158
3187		0.0033	0.0033	0.0033	0.0033	0.0035	0.0034	0.0035	0.0035	0.0034	0.000000	0.0001	2.9256
4984		0.0047	0.0050	0.0046	0.0046	0.0048	0.0048	0.0047	0.0048	0.0048	0.000000	0.0001	2.7564
5777		0.0051	0.0049	0.0050	0.0050	0.0049	0.0051	0.0049	0.0051	0.0050	0.000000	0.0001	1.8516
5778		0.0056	0.0056	0.0056	0.0055	0.0058	0.0059	0.0058	0.0057	0.0057	0.000000	0.0001	2.3845
5812		0.0062	0.0062	0.0062	0.0060	0.0058	0.0059	0.0062	0.0061	0.0061	0.000000	0.0002	2.6027
6172		0.0044	0.0042	0.0043	0.0043	0.0043	0.0043	0.0044	0.0043	0.0043	0.000000	0.0001	1.4861
6876		0.0052	0.0052	0.0050	0.0051	0.0049	0.0053	0.0051	0.0049	0.0051	0.000000	0.0001	2.8653

mean 0.0048

Species: *Trachymene coerulea*

100 seed weight (grams)

Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
283		0.2676	0.2489	0.2602	0.2662	0.2554	0.2605	0.2426	0.2591	0.2576	0.000071	0.0084	3.2712
624		0.2709	0.2785	0.2898	0.2971	0.2801	0.2801	0.2806	0.2788	0.2820	0.000063	0.0080	2.8234
758		0.3246	0.3163	0.3016	0.3134	0.3238	0.3110	0.3053	0.3057	0.3127	0.000073	0.0085	2.7245
2045		0.2573	0.2523	0.2537	0.2573	0.2572	0.2563	0.2500	0.2641	0.2560	0.000018	0.0042	1.6538
4749		0.2560	0.2639	0.2609	0.2586	0.2552	0.2519	0.2580	0.2560	0.2576	0.000014	0.0037	1.4311
4750		0.2527	0.2470	0.2483	0.2560	0.2407	0.2528	0.2527	0.2575	0.2510	0.000029	0.0054	2.1597
5147		0.2794	0.2723	0.2854	0.2790	0.2828	0.2854	0.2853	0.2822	0.2815	0.000020	0.0045	1.6020
5964		0.2592	0.2514	0.2540	0.2611	0.2504	0.2558	0.2512	0.2555	0.2548	0.000015	0.0039	1.5203
7645		0.2973	0.3024	0.2852	0.3089	0.2887	0.2829	0.2944	0.2953	0.2944	0.000076	0.0087	2.9637
8377		0.3033	0.2957	0.3015	0.3020	0.3063	0.3018	0.3040	0.3022	0.3021	0.000009	0.0030	1.0018
8378		0.3077	0.3157	0.2840	0.2939	0.2999	0.3012	0.3147	0.3081	0.3032	0.000115	0.0107	3.5325

mean 0.2775

Species: *Tripsacum dactyloides*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
2322		9.8712	9.1824	9.9288	10.1059	9.6761	9.8147	9.7361	10.0171	9.7915	0.080410	0.2836	2.8960
2323		8.4895	8.1515	8.1951	8.5113	8.2446	8.6577	8.4795	8.3578	8.3859	0.031600	0.1778	2.1198
2324		7.7249	7.2858	7.7784	7.4458	6.9644	7.4129	7.1848	7.2475	7.3806	0.074335	0.2726	3.6941
2325		7.9325	7.7827	7.9332	8.2017	7.4882	7.9325	8.1404	8.0439	7.9319	0.049706	0.2229	2.8108
2326		7.8868	7.9519	7.7273	7.3853	7.9909	7.9271	7.9266	7.5556	7.7939	0.047990	0.2191	2.8107
3153		7.6558	7.6685	7.8973	7.6542	8.1655	8.0422	7.6351	7.6288	7.7934	0.045317	0.2129	2.7315
3154		7.6151	7.9292	8.1845	7.9689	7.8183	7.8326	8.1124	8.1234	7.9481	0.036497	0.1910	2.4036
3155		7.9305	8.3066	7.7745	7.5619	8.1373	7.6703	7.8502	7.7235	7.8694	0.061644	0.2483	3.1550
3156		7.5334	7.5837	7.7884	7.7786	7.7375	7.7278	7.7325	7.7026	7.6981	0.008355	0.0914	1.1874
3157		7.4579	7.9829	8.0558	8.1941	8.2065	7.5973	7.7849	8.0899	7.9212	0.077770	0.2789	3.5206
3158		10.8473	10.8246	11.0955	10.67	10.5996	11.289	11.062	11.396	10.9730	0.081535	0.2855	2.6022
S01-2244		6.6223	6.6557	6.7931	6.7051	7.0981	6.5814	6.9128	6.9646	6.7916	0.033909	0.1841	2.7113
								mean		8.1899			
2322	singles	9.3845	9.0442	9.2831	9.5381	9.1301	9.3839	9.4651	8.9234	9.2691	0.046697	0.2161	2.3314
2323	singles	8.0879	8.1561	7.9523	8.1055	7.6463	7.7273	8.0837	8.0907	7.9812	0.036769	0.1918	2.4025
2324	singles	6.9837	6.9628	7.3451	7.3855	6.8234	6.8152	7.1031	7.0571	7.0595	0.045753	0.2139	3.0300
2325	singles	7.3122	7.6105	7.5281	7.5779	7.2539	7.3445	7.3586	7.3404	7.4158	0.018254	0.1351	1.8219
2326	singles	7.1941	7.4873	7.3037	7.2899	7.1294	7.5016	7.5716	7.3861	7.3580	0.024352	0.1561	2.1208
3153	singles	8.0616	7.4832	7.6623	7.5264	7.5364	7.6195	7.7041	7.8554	7.6811	0.037696	0.1942	2.5277
3154	singles	8.0038	7.9817	7.8312	8.0095	8.1489	7.9286	7.8065	7.6283	7.9173	0.025301	0.1591	2.0091
3155	singles	7.7615	7.5291	7.6809	7.8204	7.5891	7.5379	7.8557	7.8514	7.7033	0.019072	0.1381	1.7928
3156	singles	7.5484	7.8233	7.4127	7.6354	7.5757	7.603	7.5804	7.5606	7.5924	0.012991	0.1140	1.5012
3157	singles	7.8924	7.5284	7.7955	7.5955	7.8672	7.9358	7.7301	7.5425	7.7359	0.026493	0.1628	2.1040
3158	singles	11.0346	11.2963	10.8624	10.781	11.3579	10.537	10.41	11.01	10.9111	0.111951	0.3346	3.0665
S01-2244	singles	6.9623	6.5153	6.8928	6.5067	6.7664	6.9198	6.9071	6.7222	6.7741	0.032809	0.1811	2.6739
								mean		7.9499			

Species: *Veronica austriaca*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
6001		0.0299	0.0298	0.0302	0.0289	0.0284	0.0287	0.0295	0.0292	0.0293	0.000000	0.0006	2.1548
6146		0.0260	0.0258	0.0250	0.0241	0.0261	0.0259	0.0274	0.0260	0.0258	0.000001	0.0009	3.6697
237		0.0267	0.0266	0.0239	0.0247	0.0257	0.0260	0.0267	0.0254	0.0257	0.000001	0.0010	3.9522
2366		0.0264	0.0270	0.0258	0.0263	0.0255	0.0268	0.0252	0.0260	0.0261	0.000000	0.0006	2.3751
4246		0.0270	0.0246	0.0249	0.0260	0.0253	0.0250	0.0247	0.0268	0.0255	0.000001	0.0009	3.7086
5812		0.0256	0.0262	0.0265	0.0278	0.0265	0.0259	0.0248	0.0253	0.0261	0.000001	0.0009	3.5014
5813		0.0190	0.0183	0.0178	0.0185	0.0177	0.0187	0.0194	0.0192	0.0186	0.000000	0.0006	3.3528
6894		0.0277	0.0280	0.0258	0.0254	0.0276	0.0269	0.0255	0.0260	0.0266	0.000001	0.0011	3.9941
337		0.0257	0.0273	0.0264	0.0271	0.0269	0.0269	0.0262	0.0258	0.0265	0.000000	0.0006	2.2693
6449		0.0239	0.0251	0.0242	0.0233	0.0236	0.0236	0.0259	0.0248	0.0243	0.000001	0.0009	3.6808
mean										0.0255			