

Rule Change Proposal No. 2

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. Standardization of common names listed in the AOSA Rules and Handbook 25 is addressed.

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)	Approx. number of seeds per gram	Approx. number of seeds per ounce	Purity weight in ISTA Rules (grams)
*	<i>Amberboa moschata</i> (L.) DC. sweet sultan	9	90	270	7,655	10
*	<i>Anchusa capensis</i> Thunb. cape bugloss	6	60	430	12,190	<u>10</u>
*	<i>Asparagus densiflorus</i> (Kunth) Jessop 'Sprengeri' Sprengeri asparagus	111	500	22	625	<u>60</u>
*	<i>Bassia scoparia</i> (L.) A.J. Scott 'Trichophylla' summer cypress, Mexican fire bush	2	20	1,025	29,060	3
*	<i>Campanula carpatica</i> Jacquin Carpathian bellflower	0.2	2	12,820	363,445	0.2
*	<i>Campanula medium</i> L. 'calycanthema' cup & saucer bellflower	0.6	6	4,185	118,645	0.6
*	<i>Centaurea americana</i> Nuttall basketflower	34	340	75	2,125	35
28	<i>Centaurea dealbata</i> Willd. Persian coneflower	19	190	130	3,685	<u>10</u>
28	<i>Centaurea macrocephala</i> Muss. Puschk. ex Willd. big-head knapweed	40	400	65	1,845	<u>10</u>
28	<i>Centaurea montana</i> L. mountain-bluet	30	300	80	2,270	<u>10</u>
*	<i>Dorotheanthus bellidiformis</i> (Burm. f.) N.E. Br. iceplant, Livingstone daisy	0.6	6	3,920	111,130	0.5
*	<i>Echinops ritro</i> L. small globethistle 'Rubbed' seed 'Raw' seed	37 53	370 500	70 45	1,985 1,275	<u>20</u>
*	<i>Erigeron speciosus</i> (Lindl.) DC. Oregon fleabane	0.8	8	3,010	85,335	<u>0.5</u>

*	<i>Helenium</i> spp. sneezeweed, helenium	0.5	5	4,695	133,105	<u>0.9</u>
*	<i>Heliotropium</i> spp. heliotrope	1	10	1,910	54,150	1
*	<i>Iberis sempervirens</i> L.. candytuft, iberis	9	90	290	8,220	<u>3</u>
*	<i>Lagenaria</i> spp. gourd	437	500	6	170	500
*	<i>Lathyrus latifolius</i> L.. everlasting-pea	119	500	21	595	100
*	<i>Lathyrus odoratus</i> L. sweet-pea, annual	197	500	13	370	150
*	<i>Leontopodium alpinum</i> Cass. edelweiss	0.3	3	8,770	248,630	<u>0.1</u>
*	<i>Matricaria recutita</i> L. sweet false chamomile, wild chamomile	0.2	2	13,700	388,395	<u>0.5</u>
*	<i>Nemesia</i> spp. Nemesia	0.4	4	6,135	173,925	<u>1</u>
*	<i>Primula auricula</i> L. auricula	0.7	7	3,545	100,500	1
*	<i>Reseda odorata</i> L.. mignonette	3	30	845	23,955	3
*	<i>Saponaria ocymoides</i> L.. rock saponaria, soapwort	5	50	510	14,460	5
*	<i>Scabiosa atropurpurea</i> L. annual morning-bride	15	150	170	4,820	15
*	<i>Scabiosa caucasica</i> M. Bieb. scabiosa, perennial	33	330	75	2,125	<u>20</u>
*	<i>Silene coronaria</i> (L.) Clairv. rose campion	1	10	1,920	54,430	<u>5</u>
*	<i>Tanacetum</i> spp. painted daisy, pyrethrum	6	60	400	11,340	3, 5, 8**
*	<i>Tropaeolum majus</i> L nasturtium	319	500	8	225	350
*	<i>Vaccaria hispanica</i> (Mill.) Rauschert cow-cockle	14	140	185	5,245	<u>5</u>

* = PSU already included in 2002 AOSA Rules

** = four species are listed separately in ISTA Rules; this proposal combines the weights of multiple species

Additions to Handbook 25: Classification Section

Scientific Name/Common Name	Family	Spp. Class	Contaminating Classification						
			A	F	H	R	S	T	V
<i>Centaurea dealbata</i> Willd. Pearsian coneflower	Asteraceae	F	W	C	W	W	W	W	W

<i>Centaurea macrocephala</i> Muss. Big-head knapweed	Asteraceae	F	W	C	W	W	W	W	W
<i>Centaurea montana</i> L. Mountain-bluet	Asteraceae	F	W	C	W	W	W	W	W
<i>Primula auricula</i> L. auricula	Primulaceae	F	W	C	W	W	W	W	W

Under *Tanacetum* spp. add the common name pyrethrum.

Under *Reseda odorata* change common name from common mignonette to mignonette.

Additions and changes to Handbook 25: Appendix A

Common Name

Scientific Name

Auricula
Coneflower, Persian
Knapweed, big-head
Mignonette, common
Mountain-bluet
Pyrethrum

Primula auricula L.
Centaurea dealbata Willd.
Centaurea macrocephala Muss.
Reseda odorata
Centaurea montana L.
Tanacetum spp.

Additions to Handbook 25: Appendix B

Nomen

Scientific Name

100749 ***Centaurea dealbata* Willd.**
401600 ***Centaurea macrocephala* Muss.**
401601 ***Centaurea montana* L.**
29592 ***Primula auricula* L.**

Harmonization: The three species of *Centaurea* (*C. dealbata*, *C. macrocephala*, and *C. montana*) included in this proposal have been designated Pure Seed Unit definition #28. ISTA has given these species PSU definition #4. AOSA definition #28 is the same as ISTA definition #4; therefore, the two do harmonize. Regarding the harmonization of working weights for purity analyses, the weights underlined in the far right column of this table are those weights for which there is a discrepancy with ISTA weights. The seed weight data presented in the supporting evidence of this proposal serves to substantiate the proposed purity weights.

Two species included in this proposal are listed with different common names in the AOSA Rules and the AOSA Handbook 25. In order to correct these discrepancies, the following names should be changed:

- In Handbook 25, the common name of *Reseda odorata* should be listed as “mignonette,” not “common mignonette.”
- In Handbook 25, “pyrethrum” should be listed as an additional common name for *Tanacetum* spp.

Supporting Evidence: See attached tables.

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Date Submitted: September 5, 2003 Revised January 14, 2004

Species: *Amberboa moschata*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
8579		0.2678	0.2858	0.2772	0.2716	0.2791	0.2779	0.2699	0.2882	0.2772	0.000053	0.0073	2.6302
1		0.3691	0.3662	0.3576	0.3548	0.3622	0.3608	0.3531	0.3485	0.3590	0.000047	0.0069	1.9181
5524	Imperialis mix	0.3478	0.3445	0.3583	0.3595	0.3431	0.3580	0.3543	0.3584	0.3530	0.000046	0.0068	1.9258
4077		0.4120	0.4160	0.4126	0.4214	0.4146	0.4149	0.3969	0.3890	0.4097	0.000119	0.0109	2.6638
1608		0.3482	0.3435	0.3487	0.3543	0.3482	0.3512	0.3491	0.3501	0.3492	0.000009	0.0031	0.8765
6315		0.4110	0.4182	0.3953	0.4357	0.4103	0.4291	0.4173	0.4076	0.4156	0.000160	0.0127	3.0455
415649		0.3901	0.4067	0.3963	0.3891	0.3982	0.3970	0.3949	0.3839	0.3945	0.000048	0.0069	1.7484
333806		0.4149	0.4059	0.4241	0.4089	0.4036	0.4062	0.3982	0.4042	0.4083	0.000064	0.0080	1.9522
mean										0.3708			

Species: *Anchusa capensis* - cape bugloss

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
pkg		0.2756	0.2410	0.2538	0.2663	0.2596	0.2615	0.2539	0.2617	0.2592	0.000103	0.0101	3.9119
1747		0.2526	0.2437	0.2461	0.2387	0.2456	0.2495	0.2438	0.2429	0.2454	0.000018	0.0042	1.7275
3926		0.2354	0.2228	0.2321	0.2286	0.2352	0.2235	0.2308	0.2294	0.2297	0.000022	0.0047	2.0619
4516		0.2277	0.2419	0.2302	0.2347	0.2289	0.2342	0.2362	0.2391	0.2341	0.000025	0.0050	2.1286
4719		0.2320	0.2356	0.2164	0.2279	0.2247	0.2315	0.2275	0.2116	0.2259	0.000066	0.0082	3.6095
5776		0.2022	0.2145	0.2069	0.2157	0.2207	0.2209	0.2117	0.2156	0.2135	0.000042	0.0065	3.0213
6031		0.2358	0.2288	0.2259	0.2341	0.2378	0.2368	0.2354	0.2430	0.2347	0.000028	0.0053	2.2616
6061		0.2205	0.2412	0.2384	0.2452	0.2355	0.2322	0.2254	0.2261	0.2331	0.000073	0.0086	3.6757
6062		0.2299	0.2405	0.2344	0.2255	0.2325	0.2341	0.2313	0.2318	0.2325	0.000018	0.0043	1.8382
6421		0.2121	0.2141	0.2212	0.2181	0.2165	0.2239	0.2214	0.2128	0.2175	0.000019	0.0044	2.0117
6867		0.2517	0.2525	0.2420	0.2433	0.2549	0.2369	0.2467	0.2518	0.2475	0.000040	0.0063	2.5409
mean										0.2339			

Species: *Asparagus densiflorus* 'Sprengerii' asparagus

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1900		4.3838	4.0052	3.8774	4.1083	4.0342	4.0198	4.1366	4.0526	4.0772	0.021336	0.1461	3.5825
2331		4.4213	4.4669	4.3172	4.4321	4.5776	4.2716	4.5364	4.4543	4.4347	0.010397	0.1020	2.2993
5617		4.6058	4.6376	4.7330	4.6218	4.8080	4.7146	4.7212	4.8336	4.7095	0.007062	0.0840	1.7844
6571		4.7400	4.7651	5.0045	4.8583	4.7292	4.8795	4.9685	4.9680	4.8641	0.012154	0.1102	2.2665
6572		4.2800	4.2830	4.4117	4.2618	4.1421	4.2220	4.3551	4.2761	4.2790	0.006530	0.0808	1.8885
A		4.1461	4.2340	4.1727	4.1430	4.2325	4.1722	4.2202	4.2826	4.2004	0.002445	0.0494	1.1772
C		4.6454	4.6281	4.5044	4.6604	4.6891	4.4864	4.6255	4.6121	4.6064	0.005278	0.0727	1.5772
									mean	4.4530			

Species: *Bassia prostrata* 'Trichophylla'

Lot No.	Variety	100 seed weight								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
2		0.0916	0.0923	0.0925	0.0933	0.0946	0.0919	0.0924	0.0890	0.0922	0.000003	0.0016	1.7295
2A		0.0915	0.0881	0.0921	0.0956	0.0912	0.0862	0.0890	0.0878	0.0902	0.000009	0.0030	3.3282
4		0.1030	0.1015	0.1020	0.1032	0.1085	0.1091	0.1048	0.1068	0.1049	0.000009	0.0029	2.8077
5		0.0911	0.0887	0.0954	0.0872	0.0894	0.0874	0.0932	0.0877	0.0900	0.000009	0.0030	3.3209
6		0.0920	0.0914	0.0964	0.0979	0.0990	0.0891	0.0917	0.0974	0.0944	0.000014	0.0037	3.9355
7		0.1056	0.1021	0.0973	0.0973	0.1052	0.0985	0.1009	0.1039	0.1014	0.000012	0.0034	3.3580
59		0.0973	0.0906	0.0902	0.0920	0.0957	0.0947	0.0948	0.0978	0.0941	0.000008	0.0029	3.0892
59A		0.0919	0.0989	0.0971	0.1005	0.0988	0.0913	0.0918	0.0929	0.0954	0.000014	0.0038	3.9813
59B		0.0921	0.0913	0.0921	0.0916	0.0993	0.0981	0.0920	0.0912	0.0935	0.000011	0.0033	3.4952
4038		0.1077	0.1106	0.1130	0.1084	0.1037	0.1038	0.1102	0.1141	0.1089	0.000015	0.0038	3.5239
19F01		0.1186	0.1135	0.1188	0.1208	0.1202	0.1140	0.1175	0.1174	0.1176	0.000007	0.0027	2.2557
314		0.1173	0.1091	0.1136	0.1143	0.1053	0.1087	0.1065	0.1088	0.1105	0.000017	0.0042	3.7705
6666		0.0728	0.0789	0.0736	0.0712	0.0777	0.0756	0.0784	0.0767	0.0756	0.000008	0.0028	3.7256
									mean	0.0976			

Species: *Campanula carpatica* - Carpathian bellflower

Lot No.	Variety	100 seed weight								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1009		0.0072	0.0072	0.0072	0.0073	0.0075	0.0072	0.0068	0.0070	0.0072	0.000000	0.0002	2.8611
1010		0.0066	0.0068	0.0069	0.0071	0.0074	0.0068	0.0071	0.0069	0.0070	0.000000	0.0002	3.5244
3169		0.0068	0.0067	0.0067	0.0061	0.0064	0.0065	0.0064	0.0063	0.0065	0.000000	0.0002	3.6325
4423		0.0080	0.0080	0.0082	0.0081	0.0084	0.0083	0.0083	0.0079	0.0082	0.000000	0.0002	2.1752
4587		0.0071	0.0075	0.0077	0.0075	0.0077	0.0074	0.0080	0.0076	0.0076	0.000000	0.0003	3.4581
4424		0.0074	0.0072	0.0078	0.0078	0.0075	0.0077	0.0078	0.0076	0.0076	0.000000	0.0002	2.8999
5654		0.0084	0.0080	0.0078	0.0082	0.0077	0.0085	0.0079	0.0078	0.0080	0.000000	0.0003	3.6990
4499		0.0081	0.0084	0.0075	0.0084	0.0082	0.0078	0.0079	0.0080	0.0080	0.000000	0.0003	3.8167
4588		0.0081	0.0075	0.0076	0.0074	0.0079	0.0075	0.0080	0.0081	0.0078	0.000000	0.0003	3.7677
7876		0.0077	0.0079	0.0078	0.0078	0.0079	0.0081	0.0078	0.0080	0.0079	0.000000	0.0001	1.6276
370		0.0086	0.0078	0.0081	0.0079	0.0079	0.0076	0.0080	0.0082	0.0080	0.000000	0.0003	3.7404
4586		0.0084	0.0082	0.0082	0.0081	0.0086	0.0085	0.0087	0.0084	0.0084	0.000000	0.0002	2.5039
4584		0.0085	0.0084	0.0082	0.0083	0.0081	0.0079	0.0081	0.0081	0.0082	0.000000	0.0002	2.3503
5653		0.0075	0.0072	0.0074	0.0074	0.0073	0.0078	0.0072	0.0078	0.0075	0.000000	0.0002	3.2087
4585		0.0083	0.0085	0.0091	0.0085	0.0088	0.0086	0.0085	0.0086	0.0086	0.000000	0.0002	2.8058
									mean	0.0078			

Species: *Campanula medium* 'Calycanthema' - cup & saucer bellflower

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
4498		0.0247	0.0259	0.0260	0.0258	0.0274	0.0256	0.0251	0.0273	0.0260	0.000001	0.0010	3.6682
3809		0.0227	0.0221	0.0235	0.0224	0.0243	0.0228	0.0222	0.0225	0.0228	0.000001	0.0007	3.2504
242		0.0231	0.0227	0.0232	0.0220	0.0227	0.0225	0.0224	0.0229	0.0227	0.000000	0.0004	1.7223
5707		0.0267	0.0263	0.0269	0.0267	0.0273	0.0270	0.0263	0.0274	0.0268	0.000000	0.0004	1.5273
5851		0.0210	0.0202	0.0203	0.0193	0.0204	0.0209	0.0204	0.0212	0.0205	0.000000	0.0006	2.9081
3503		0.0236	0.0235	0.0232	0.0244	0.0234	0.0242	0.0228	0.0225	0.0234	0.000000	0.0006	2.7089
7567		0.0206	0.0202	0.0207	0.0200	0.0211	0.0205	0.0203	0.0195	0.0204	0.000000	0.0005	2.3762
6208		0.0273	0.0266	0.0274	0.0267	0.0271	0.0273	0.0275	0.0256	0.0269	0.000000	0.0006	2.3389
6832		0.0204	0.0214	0.0215	0.0205	0.0212	0.0200	0.0217	0.0198	0.0208	0.000001	0.0007	3.4974
264		0.0218	0.0205	0.0213	0.0207	0.0209	0.0222	0.0198	0.0221	0.0212	0.000001	0.0008	3.9771
3504		0.0273	0.0259	0.0252	0.0257	0.0273	0.0269	0.0257	0.0260	0.0263	0.000001	0.0008	3.0612

Species: *Campanula medium* 'Calycanthema' - cup & saucer bellflower (cont.)

4914	0.0201	0.0205	0.0198	0.0220	0.0218	0.0214	0.0205	0.0208	0.0209	0.000001	0.0008	3.8169
5850	0.0226	0.0210	0.0229	0.0216	0.0219	0.0218	0.0213	0.0219	0.0219	0.000000	0.0006	2.8679
5852	0.0253	0.0273	0.0283	0.0267	0.0270	0.0266	0.0271	0.0270	0.0269	0.000001	0.0008	3.0989
5854	0.0299	0.0302	0.0307	0.0308	0.0314	0.0303	0.0298	0.0302	0.0304	0.000000	0.0005	1.7349
								mean	0.0239			

Species: *Centaurea americana*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
99RP		1.0953	1.1898	1.1304	1.2297	1.1529	1.1499	1.1830	1.1577	1.1611	0.001641	0.0405	3.4887
1189		1.4168	1.4350	1.4395	1.4852	1.5102	1.4812	1.5130	1.5570	1.4797	0.002231	0.0472	3.1921
1188		1.2154	1.2311	1.2017	1.2561	1.2521	1.2427	1.2565	1.2827	1.2423	0.000660	0.0257	2.0675
803		1.2980	1.2570	1.2981	1.2125	1.3226	1.2284	1.2339	1.2148	1.2582	0.001825	0.0427	3.3955
804		1.4728	1.4354	1.5231	1.4933	1.4512	1.4847	1.4907	1.4349	1.4733	0.000959	0.0310	2.1019
4687		1.5717	1.5441	1.5509	1.5410	1.5699	1.5620	1.5531	1.5770	1.5587	0.000180	0.0134	0.8604
5963		1.5410	1.5811	1.5597	1.5843	1.5750	1.5152	1.4870	1.5002	1.5429	0.001458	0.0382	2.4746
5068		1.4077	1.3748	1.3981	1.4637	1.4091	1.3635	1.3798	1.4840	1.4101	0.001832	0.0428	3.0350
3208		1.2081	1.2221	1.2323	1.1418	1.2129	1.1785	1.2134	1.1779	1.1984	0.000894	0.0299	2.4954
								mean	1.3694				

Species: *Centaurea dealbata*

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
5011		0.8103	0.8293	0.8089	0.8160	0.8182	0.8106	0.8321	0.8402	0.8207	0.000137	0.0117	1.4284
5968		0.6599	0.6549	0.6648	0.6589	0.6527	0.6793	0.6759	0.6767	0.6654	0.000111	0.0105	1.5819
7044		0.8267	0.7969	0.8265	0.7959	0.7893	0.8365	0.7840	0.8102	0.8083	0.000386	0.0197	2.4316
1291		0.8378	0.8398	0.8188	0.8368	0.8193	0.8109	0.8204	0.8151	0.8249	0.000130	0.0114	1.3829
1294		0.7559	0.7564	0.7584	0.7634	0.7662	0.7503	0.7349	0.7902	0.7595	0.000245	0.0157	2.0617
6083		0.7284	0.7318	0.7286	0.7551	0.7253	0.7249	0.7481	0.7269	0.7336	0.000131	0.0114	1.5603
5850		0.7571	0.7592	0.7614	0.7530	0.7762	0.7547	0.7805	0.7442	0.7608	0.000145	0.0120	1.5831
2563		0.7604	0.7428	0.7526	0.7768	0.7955	0.7874	0.7385	0.7443	0.7623	0.000473	0.0217	2.8530
6537		0.8717	0.8545	0.8798	0.8618	0.8745	0.8598	0.8792	0.8520	0.8667	0.000121	0.0110	1.2717
6227		0.7354	0.7610	0.7415	0.7443	0.7573	0.7680	0.7476	0.7540	0.7511	0.000118	0.0109	1.4476

Species: *Centaurea dealbata* (cont.)

6394	0.7678	0.7750	0.7881	0.7559	0.7657	0.7826	0.7829	0.7826	0.7751	0.000122	0.0110	1.4239
4939	0.7287	0.7519	0.7190	0.7089	0.7367	0.7422	0.7626	0.7503	0.7375	0.000323	0.0180	2.4371
201	0.7999	0.7186	0.8018	0.8001	0.8003	0.7947	0.7934	0.8112	0.7900	0.000861	0.0293	3.7141
									mean	0.7735		

Species: *Centaurea macrocephala*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
2244		1.6536	1.6976	1.6686	1.6939	1.6410	1.6286	1.6541	1.6659	1.6629	0.000575	0.0240	1.4423
4940		1.5849	1.5745	1.6435	1.5958	1.5694	1.6238	1.6305	1.5974	1.6025	0.000740	0.0272	1.6974
2564		1.6030	1.5565	1.5391	1.6247	1.5238	1.5758	1.5992	1.6551	1.5847	0.001966	0.0443	2.7983
6420		1.5629	1.5508	1.5708	1.5605	1.5726	1.5654	1.5698	1.5889	1.5677	0.000122	0.0110	0.7042
5876		1.5849	1.5366	1.5679	1.5519	1.5393	1.5491	1.5196	1.5633	1.5516	0.000417	0.0204	1.3159
6082		1.6329	1.6224	1.5539	1.5923	1.6318	1.6216	1.6178	1.5729	1.6057	0.000863	0.0294	1.8291
262		1.6309	1.6150	1.6036	1.5994	1.5810	1.5926	1.6063	1.6108	1.6050	0.000224	0.0150	0.9329
										mean	1.5971		

Species: *Centaurea montana*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
211		1.1677	1.2790	1.2081	1.2290	1.1771	1.2133	1.2272	1.1729	1.2093	0.001382	0.0372	3.0745
515		1.3591	1.3187	1.3610	1.3789	1.3575	1.3938	1.3089	1.3497	1.3535	0.000798	0.0283	2.0875
2245		0.8958	0.9491	0.9235	0.9380	0.9962	0.9377	0.9944	0.9612	0.9495	0.001166	0.0342	3.5970
5012		1.2949	1.3518	1.3319	1.3663	1.2869	1.3690	1.3018	1.2843	1.3234	0.001277	0.0357	2.7002
6228		1.2561	1.2777	1.3210	1.2606	1.2706	1.3046	1.2854	1.2789	1.2819	0.000476	0.0218	1.7015
6084		1.1725	1.3023	1.2057	1.2351	1.2918	1.2198	1.2363	1.1729	1.2296	1.236681	1.2285	1.2313
270		1.2470	1.3247	1.2328	1.3238	1.2850	1.3394	1.2658	1.2913	1.2887	1.293941	1.2901	1.2973
										mean	1.2337		

Species: *Dorotheanthus bellidiformis*

		100 seed weight											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
1379	magic carpet	0.0260	0.0266	0.0272	0.0259	0.0263	0.0269	0.0269	0.0261	0.0264875	0.000000	0.0005	1.8211
644	M. criniflorum	0.0277	0.0289	0.0292	0.0275	0.0279	0.0270	0.0281	0.0283	0.028075	0.000001	0.0007	2.5738
6675A		0.0242	0.0257	0.0253	0.0255	0.0256	0.0250	0.0246	0.0248	0.0250875	0.000000	0.0005	2.1139
7991	M. criniflorum	0.0293	0.0286	0.0291	0.0297	0.0289	0.0285	0.0288	0.0292	0.0290125	0.000000	0.0004	1.3593
25302	magic carpet	0.0261	0.0265	0.0268	0.0265	0.0267	0.0269	0.0261	0.0264	0.0265	0.000000	0.0003	1.1231
31336													
3	Apricot tutu	0.0179	0.0185	0.0174	0.0176	0.0184	0.0175	0.0173	0.0178	0.0178	0.000000	0.0004	2.5124
6675B		0.0253	0.0249	0.0253	0.0258	0.0260	0.0256	0.0251	0.0253	0.0254125	0.000000	0.0004	1.4334
									mean	0.02548214			

Species: *Echinops ritro* - small globethistle - 'Rubbed' seed

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
1		1.1889	1.2018	1.1778	1.2162	1.2114	1.1439	1.2772	1.2352	1.2066	0.001574	0.0397	3.2877
2566		1.6261	1.6012	1.6089	1.5923	1.5109	1.6443	1.6201	1.6148	1.6023	0.001615	0.0402	2.5077
4205		1.5047	1.4794	1.5127	1.4160	1.4814	1.3577	1.4482	1.4865	1.4608	0.002692	0.0519	3.5520
4505		1.4256	1.5049	1.4334	1.5068	1.4516	1.5672	1.5813	1.5096	1.4976	0.003365	0.0580	3.8734
4517		1.3181	1.3301	1.4175	1.2971	1.4088	1.3070	1.3841	1.3597	1.3528	0.002181	0.0467	3.4524
4611		1.3840	1.3494	1.3334	1.3485	1.3925	1.4689	1.4688	1.4366	1.3978	0.002963	0.0544	3.8943
4635		1.3090	1.3512	1.3049	1.3396	1.3133	1.4156	1.3624	1.3456	1.3427	0.001317	0.0363	2.7032
4710		1.6262	1.6783	1.6378	1.6738	1.6442	1.5984	1.6680	1.7046	1.6539	0.001137	0.0337	2.0391
5017		1.6271	1.6160	1.5950	1.6300	1.6560	1.6520	1.6722	1.6701	1.6398	0.000744	0.0273	1.6637
5808		1.6514	1.6174	1.6183	1.6337	1.6077	1.6104	1.6068	1.6300	1.6220	0.000239	0.0154	0.9523
6005		1.3090	1.3588	1.3245	1.3454	1.3246	1.3912	1.4065	1.3294	1.3487	0.001196	0.0346	2.5647
6543		1.6886	1.7473	1.6866	1.7587	1.6977	1.7230	1.6822	1.6839	1.7085	0.000932	0.0305	1.7870
6868		1.3060	1.3789	1.4029	1.3366	1.3245	1.2896	1.3268	1.3931	1.3448	0.001747	0.0418	3.1078
									mean	1.4752			

Species: *Echinops ritro* - small globethistle - 'Raw' seed

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
4610		2.1220	2.2430	2.1740	2.1022	2.1408	2.1374	2.1936	2.0336	2.1433	0.003947	0.0628	2.9313
4635		2.0917	2.1656	1.9960	2.0966	2.0116	1.9986	2.0634	2.2018	2.0782	0.005883	0.0767	3.6909
									mean	2.1107			

Species: *Erigeron speciosus* - Oregon fleabane

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
4658	E. strigosus	0.0195	0.0196	0.0192	0.0204	0.0199	0.0199	0.0201	0.0197	0.0198	0.000000	0.0004	1.8800
5785		0.0268	0.0267	0.0273	0.0274	0.0263	0.0262	0.0262	0.0269	0.0267	0.000000	0.0005	1.7636
5844	blue blues	0.0270	0.0278	0.0265	0.0264	0.0266	0.0264	0.0275	0.0263	0.0268	0.000000	0.0006	2.1045
6576	purple	0.0260	0.0270	0.0272	0.0266	0.0274	0.0273	0.0272	0.0275	0.0270	0.000000	0.0005	1.8422
6869	blue beauty	0.0284	0.0279	0.0290	0.0290	0.0276	0.0291	0.0289	0.0278	0.0285	0.000000	0.0006	2.1734
252	pink jewel	0.0422	0.0422	0.0430	0.0416	0.0423	0.0430	0.0432	0.0427	0.0425	0.000000	0.0005	1.2741
3759	pink jewel	0.0368	0.0364	0.0372	0.0364	0.0367	0.0374	0.0365	0.0360	0.0367	0.000000	0.0005	1.2431
5786	pink jewel	0.0393	0.0395	0.0392	0.0406	0.0405	0.0403	0.0390	0.0391	0.0397	0.000000	0.0007	1.6792
5902	pink jewel	0.0343	0.0340	0.0362	0.0340	0.0353	0.0348	0.0341	0.0343	0.0346	0.000001	0.0008	2.2464
6091	pink jewel	0.0388	0.0378	0.0388	0.0399	0.0386	0.0399	0.0393	0.0391	0.0390	0.000000	0.0007	1.7845
6861	pink jewel	0.0428	0.0437	0.0421	0.0436	0.0422	0.0421	0.0405	0.0427	0.0425	0.000001	0.0010	2.3849
6870	pink jewel	0.0399	0.0393	0.0390	0.0384	0.0393	0.0393	0.0388	0.0394	0.0392	0.000000	0.0004	1.1395
7174	lilac beauty	0.0288	0.0272	0.0277	0.0293	0.0293	0.0286	0.0274	0.0271	0.0282	0.000001	0.0009	3.2955
									mean	0.0332			

Species: *Helenium spp.* - sneezeweed, helenium

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
3	red/gold hybrid	0.0188	0.0192	0.0192	0.0201	0.0186	0.0184	0.0186	0.0188	0.0190	0.000000	0.0005	2.8460
955		0.0201	0.0204	0.0200	0.0203	0.0197	0.0190	0.0199	0.0203	0.0200	0.000000	0.0005	2.2711
1882		0.0192	0.0189	0.0195	0.0191	0.0196	0.0187	0.0191	0.0178	0.0190	0.000000	0.0006	2.9584
3217	red/gold hybrid	0.0199	0.0200	0.0189	0.0193	0.0192	0.0193	0.0195	0.0189	0.0194	0.000000	0.0004	2.1146
4166		0.0202	0.0194	0.0200	0.0190	0.0192	0.0194	0.0193	0.0193	0.0195	0.000000	0.0004	2.1037

Species: *Helenium spp.* - sneezeweed, helenium (cont.)

4707		0.0194	0.0187	0.0186	0.0184	0.0189	0.0189	0.0191	0.0195	0.0189	0.000000	0.0004	2.0145
5380		0.0222	0.0209	0.0223	0.0232	0.0227	0.0229	0.0221	0.0223	0.0223	0.000000	0.0007	3.0918
6282	red/gold hybrid	0.0336	0.0337	0.0316	0.0323	0.0331	0.0324	0.0323	0.0329	0.0327	0.000001	0.0007	2.1963
8224		0.0201	0.0207	0.0211	0.0208	0.0214	0.0204	0.0207	0.0209	0.0208	0.000000	0.0004	1.9255
mean										0.0213			

Species: *Heliotropium spp.* - heliotrope

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
3624	Deep Marine	0.0539	0.0550	0.0558	0.0511	0.0544	0.0538	0.0559	0.0537	0.0542	0.000002	0.0015	2.8102
4015	Deep Marine	0.0564	0.0595	0.0554	0.0569	0.0553	0.0583	0.0596	0.0571	0.0573	0.000003	0.0017	2.9307
6699	Deep Marine	0.0472	0.0492	0.0484	0.0508	0.0500	0.0465	0.0497	0.0496	0.0489	0.000002	0.0015	2.9855
56	Marine	0.0519	0.0538	0.0552	0.0548	0.0505	0.0519	0.0536	0.0520	0.0530	0.000003	0.0016	3.0892
970	Marine	0.0562	0.0535	0.0539	0.0553	0.0601	0.0538	0.0571	0.0567	0.0558	0.000005	0.0022	3.9649
3443	Marine	0.0544	0.0565	0.0552	0.0555	0.0552	0.0549	0.0551	0.0561	0.0554	0.000000	0.0007	1.2057
3816	Marine	0.0525	0.0465	0.0520	0.0498	0.0518	0.0504	0.0505	0.0488	0.0503	0.000004	0.0020	3.9032
5655	Marine	0.0569	0.0564	0.0550	0.0507	0.0538	0.0563	0.0550	0.0568	0.0551	0.000004	0.0021	3.7768
7381	Marine	0.0500	0.0511	0.0522	0.0502	0.0534	0.0478	0.0531	0.0520	0.0512	0.000003	0.0019	3.6219
8347	Marine	0.0522	0.0536	0.0497	0.0514	0.0548	0.0551	0.0523	0.0552	0.0530	0.000004	0.0020	3.7316
packa ge		0.0408	0.0389	0.0426	0.0414	0.0410	0.0396	0.0413	0.0398	0.0407	0.000001	0.0012	2.9112
mean										0.0523			

Species: *Iberis sempervirens*

		100 seed weight											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
6052		0.3971	0.4014	0.3948	0.3816	0.3965	0.3807	0.3971	0.3822	0.3914	0.000071	0.0084	2.1542
3376		0.3785	0.3739	0.3816	0.3785	0.3720	0.3653	0.3594	0.3845	0.3742	0.000072	0.0085	2.2608
1739		0.3195	0.3233	0.3084	0.3067	0.3191	0.3166	0.3148	0.2949	0.3129	0.000084	0.0092	2.9343
815		0.3656	0.3714	0.3578	0.3643	0.3719	0.3650	0.3558	0.3683	0.3650	0.000034	0.0058	1.5934
4492		0.3235	0.3183	0.3234	0.3060	0.3165	0.3038	0.3133	0.3125	0.3147	0.000053	0.0073	2.3124
no lot		0.3484	0.3327	0.3414	0.3406	0.3381	0.3413	0.3289	0.3542	0.3407	0.000065	0.0080	2.3596
8143		0.3418	0.3404	0.3446	0.3484	0.3425	0.3642	0.3544	0.3382	0.3468	0.000075	0.0087	2.5003

Species: *Iberis sempervirens* (cont.)

2206	0.3435	0.3346	0.3474	0.3371	0.3276	0.3350	0.3278	0.3264	0.3349	0.000059	0.0077	2.2881
2205	0.3305	0.3230	0.3225	0.3272	0.3375	0.3424	0.3516	0.3513	0.3358	0.000140	0.0118	3.5225
2573	0.3438	0.3474	0.3432	0.3461	0.3352	0.3389	0.3427	0.3394	0.3421	0.000016	0.0040	1.1781
6225	0.3520	0.3552	0.3508	0.3574	0.3444	0.3478	0.3490	0.3575	0.3518	0.000022	0.0047	1.3379
4944	0.3356	0.3571	0.3333	0.3546	0.3374	0.3430	0.3416	0.3461	0.3436	0.000075	0.0086	2.5143
4826	0.3640	0.3771	0.3547	0.3538	0.3718	0.3732	0.3694	0.3770	0.3676	0.000086	0.0093	2.5198
									mean	0.3478		

Species: *Lagenaria* spp.

100 seed weight

Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
3125		13.6446	13.0352	13.6119	12.9318	13.2643	12.5490	12.8071	12.6983	13.0678	0.165795	0.4072	3.1159
5101		14.5025	13.4288	14.0843	13.9865	13.4459	13.9421	13.9496	13.9821	13.9152	0.120259	0.3468	2.4921
5106		17.0178	16.1718	16.2801	15.9410	16.3607	16.4688	16.3450	16.9989	16.4480	0.144050	0.3795	2.3075
5107		20.6275	20.3225	20.7178	20.7215	20.9070	20.9403	20.3530	20.4628	20.6316	0.055475	0.2355	1.1416
6822		19.4879	19.5894	20.3049	19.2684	19.2787	19.5943	19.8610	19.7794	19.6455	0.115219	0.3394	1.7278
1702		18.0231	17.8535	18.1290	17.6774	18.5984	17.4302	17.8505	18.3672	17.9912	0.140289	0.3746	2.0819
1703		16.8872	16.1931	16.8029	17.1980	15.8889	16.7054	17.2796	16.1954	16.6438	0.253400	0.5034	3.0245
1704		12.2191	12.6298	12.6712	12.6019	12.6731	12.9394	12.1607	13.0201	12.6144	0.091341	0.3022	2.3959
1705		25.6372	25.782	25.9513	26.104	25.7899	25.9007	26.0499	25.6881	25.8629	0.027959	0.1672	0.6465
686		17.3299	17.1681	18.7167	17.5345	17.7249	18.5339	18.1532	17.7032	17.8581	0.311790	0.5584	3.1268
									mean	17.4678			

Species: *Lathyrus latifolius* - everlasting-pea, perennial pea

100 seed weight (grams)

Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
1386		5.0258	5.1558	4.8270	4.9372	4.9288	4.8841	5.1955	4.9068	4.9826	0.017401	0.1319	2.6474
1984		4.7327	4.6629	4.8891	4.7802	4.9090	4.6423	4.8865	5.1762	4.8349	0.029670	0.1723	3.5627
3143		5.0969	4.9948	5.2463	5.1723	5.1722	5.2249	4.9491	5.0568	5.1142	0.011650	0.1079	2.1106
3278		4.1404	3.9540	3.9410	3.9860	4.0356	3.7919	3.7435	3.7927	3.9231	0.018797	0.1371	3.4947
3279		4.5579	4.2902	4.6384	4.4407	4.3491	4.1848	4.3318	4.3955	4.3986	0.021291	0.1459	3.3173
3281		4.5658	4.6385	4.8890	4.8955	4.7511	4.5859	4.5748	4.8419	4.7178	0.020662	0.1437	3.0468
3950		4.5308	4.7221	4.7162	4.6658	4.6422	4.8596	4.6810	4.5808	4.6748	0.009837	0.0992	2.1216

Species: *Lathyrus latifolius* - everlasting-pea, perennial pea

4572	4.6474	4.4672	4.5237	4.4021	4.5228	4.5248	4.6128	4.6934	4.5493	0.009255	0.0962	2.1147
4966	3.5858	3.3987	3.6760	3.5837	3.6418	3.3031	3.6442	3.6172	3.5563	0.017663	0.1329	3.7371
4967	5.6121	5.7670	5.6950	5.8151	5.6134	5.5199	5.7964	5.7320	5.6939	0.010777	0.1038	1.8232
4968	5.0986	5.0645	5.0585	5.0343	5.1731	5.0749	5.0388	5.1138	5.0821	0.002091	0.0457	0.8998
4969	5.0065	5.0162	4.8168	4.9686	5.0451	4.8033	5.1183	5.0451	4.9775	0.012507	0.1118	2.2469
5539	4.7522	4.7939	4.8790	4.6986	4.8275	4.7733	4.9479	4.8945	4.8209	0.006805	0.0825	1.7112
6053	5.4147	5.4157	5.1652	5.3203	5.2208	5.5108	5.0319	5.3931	5.3091	0.025103	0.1584	2.9843
										mean	4.7596	

Species: *Lathyrus odoratus* Sweet pea, annual

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
81	Old-Spice	8.6466	8.5048	8.2891	8.2298	8.3642	8.4895	7.9972	8.3092	8.3538	0.039396	0.1985	2.3760
82	Little Sweetheart	6.9919	6.5949	7.2638	6.7671	7.0417	7.3113	6.9058	6.9222	6.9748	0.056645	0.2380	3.4123
83	Little Sweetheart	6.1759	6.0017	6.0184	5.7391	6.1789	6.0358	5.7770	6.0725	5.9999	0.026803	0.1637	2.7287
84	Color mix	8.8601	8.8837	8.0633	8.7608	8.4268	8.4516	8.6414	8.3568	8.5556	0.079875	0.2826	3.3034
275	Perfume Delight	6.4925	6.4929	6.9099	6.4395	6.4655	6.2536	6.5940	6.6236	6.5339	0.035512	0.1884	2.8841
276	Bouquet mix	8.0340	8.1363	8.0644	7.7516	7.6055	7.7450	7.8498	7.8978	7.8856	0.033493	0.1830	2.3209
947	Elegance	7.6032	7.3945	7.6490	7.4407	7.6622	7.5983	7.3821	7.7104	7.5551	0.016771	0.1295	1.7141
962		9.7306	9.5456	9.7698	9.6446	10.1038	9.5449	9.6257	10.0518	9.7521	0.046771	0.2163	2.2176
1303	Royal Family	7.5359	7.4640	7.4865	7.2872	7.3014	7.7829	7.3642	7.5283	7.4688	0.025569	0.1599	2.1409
1304	Knee-hi	9.2637	9.4314	9.2140	8.9593	9.0580	9.8668	9.5312	9.3398	9.3330	0.081171	0.2849	3.0527
1342	Jet Set mix	8.3227	8.6621	7.9788	9.0776	8.5351	8.2617	8.7703	8.4230	8.5039	0.114267	0.3380	3.9750
1343	Late Spencer mix	7.7134	7.4913	7.6106	7.6847	7.9137	7.4018	7.8798	7.8798	7.6969	0.035876	0.1894	2.4609
1607	Elegance	10.5795	10.2171	10.3125	10.2854	10.2774	10.2096	10.1266	9.9005	10.2386	0.036218	0.1903	1.8588
1611	America Sweet P	6.7245	6.5162	6.4948	6.3798	6.3862	6.3159	6.1929	6.3811	6.4239	0.024876	0.1577	2.4552
1654	Little Sweetheart	7.4572	7.2117	7.4269	7.1512	7.5949	7.4557	7.2497	7.7391	7.4108	0.039870	0.1997	2.6944
4258	Banquet	7.9237	7.9254	7.7546	7.6997	8.4058	8.0321	7.9463	7.9414	7.9536	0.045229	0.2127	2.6739
4259	Royal	8.1096	8.0107	7.8667	8.2425	7.7941	7.8582	7.5373	7.7898	7.9011	0.047321	0.2175	2.7532
5325	Early multiflora	6.7526	6.9933	6.5334	6.6886	6.4894	6.6391	6.4437	6.1438	6.5855	0.062126	0.2493	3.7848
6233	Cupani	10.1179	9.6677	10.1186	9.7305	9.8767	9.7267	10.2874	9.6737	9.8999	0.058547	0.2420	2.4441
6234	Old-Spice	8.3584	7.9067	8.2411	8.0792	8.0494	8.4456	8.0986	7.8098	8.1236	0.046606	0.2159	2.6575
6235	Miss Wilout	7.7424	7.7263	7.8114	7.8513	7.8583	8.0132	7.8669	7.5777	7.8059	0.016282	0.1276	1.6347
7820		6.666	6.4348	6.6448	6.4848	6.4443	6.5612	6.5938	6.4491	6.5349	0.008789	0.0938	1.4346
										mean	7.8860		

Species: *Leontopodium alpinum*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
6110		0.0112	0.0120	0.0116	0.0116	0.0116	0.0115	0.0116	0.0115	0.0116	0.000000	0.0002	1.8900
263		0.0115	0.0121	0.0128	0.0126	0.0129	0.0125	0.0124	0.0119	0.0123	0.000000	0.0005	3.8493
7571		0.0107	0.0106	0.0112	0.0106	0.0106	0.0109	0.0107	0.0104	0.0107	0.000000	0.0002	2.2557
6581		0.0113	0.0116	0.0111	0.0112	0.0123	0.0119	0.0121	0.0115	0.0116	0.000000	0.0004	3.7566
262		0.0113	0.0110	0.0115	0.0116	0.0120	0.0116	0.0115	0.0120	0.0116	0.000000	0.0003	2.8847
5038		0.0108	0.0104	0.0106	0.0108	0.0107	0.0107	0.0106	0.0108	0.0107	0.000000	0.0001	1.3009
5888		0.0116	0.0115	0.0116	0.0114	0.0116	0.0117	0.0114	0.0117	0.0116	0.000000	0.0001	1.0272
6427		0.0114	0.0113	0.0118	0.0117	0.0113	0.0115	0.0113	0.0114	0.0115	0.000000	0.0002	1.6773
mean										0.0114			

Species: *Lychnis coronaria* - rose campion

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
240		0.0630	0.0670	0.0656	0.0701	0.0699	0.0694	0.0666	0.0691	0.0676	0.000006	0.0025	3.6904
1415		0.0481	0.0488	0.0513	0.0472	0.0489	0.0470	0.0468	0.0496	0.0485	0.000002	0.0015	3.1467
1416		0.0446	0.0497	0.0471	0.0452	0.0470	0.0459	0.0464	0.0470	0.0466	0.000002	0.0015	3.3105
1417		0.0479	0.0470	0.0493	0.0518	0.0482	0.0516	0.0476	0.0474	0.0489	0.000004	0.0019	3.8593
5814		0.0580	0.0597	0.0584	0.0581	0.0559	0.0544	0.0555	0.0555	0.0569	0.000003	0.0018	3.2452
5896		0.0548	0.0554	0.0530	0.0510	0.0571	0.0543	0.0535	0.0528	0.0540	0.000003	0.0019	3.4290
5898		0.0492	0.0542	0.0539	0.0504	0.0541	0.0525	0.0514	0.0510	0.0521	0.000004	0.0019	3.6143
6061		0.0481	0.0505	0.0516	0.0508	0.0505	0.0502	0.0513	0.0508	0.0505	0.000001	0.0011	2.1014
6296		0.0462	0.0433	0.0486	0.0478	0.0452	0.0462	0.0453	0.0443	0.0459	0.000003	0.0017	3.7980
7552		0.0478	0.0507	0.0491	0.0525	0.0511	0.0526	0.0507	0.0502	0.0506	0.000003	0.0016	3.1812
mean										0.0521			

Species: *Matricaria recutita*

		100 seed weight											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
2081		0.0083	0.0087	0.0089	0.0088	0.0086	0.0089	0.0087	0.0081	0.0086	0.000000	0.0003	3.3230
2168		0.0058	0.0056	0.0060	0.0057	0.0059	0.0058	0.0057	0.0061	0.0058	0.000000	0.0002	2.8653

Species: *Matricaria recutita* (cont.)

4343		0.0104	0.0105	0.0103	0.0097	0.0105	0.0102	0.0099	0.0098	0.0102	0.000000	0.0003	3.1531
4766		0.0056	0.0059	0.0062	0.0063	0.0060	0.0059	0.0061	0.0058	0.0060	0.000000	0.0002	3.7690
5738		0.0045	0.0048	0.0045	0.0044	0.0043	0.0047	0.0045	0.0043	0.0045	0.000000	0.0002	3.9396
6077		0.0074	0.0068	0.0073	0.0074	0.0069	0.0069	0.0071	0.0072	0.0071	0.000000	0.0002	3.3340
6443		0.0044	0.0045	0.0047	0.0047	0.0044	0.0046	0.0044	0.0045	0.0045	0.000000	0.0001	2.8326
6815		0.0097	0.0099	0.0098	0.0092	0.0091	0.0093	0.0090	0.0091	0.0094	0.000000	0.0004	3.7957
48001		0.0096	0.0091	0.0089	0.0092	0.0094	0.0088	0.0094	0.0090	0.0092	0.000000	0.0003	3.0132
										mean	0.0073		

Species: *Nemesia* spp.

		100 seed weight											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
872		0.0186	0.0188	0.0198	0.0189	0.0190	0.0192	0.0198	0.0190	0.0191	0.000000	0.0004	2.3190
294		0.0162	0.0169	0.0163	0.0165	0.0162	0.0170	0.0167	0.0168	0.0166	0.000000	0.0003	1.9282
292	Nebula rose	0.0139	0.0129	0.0138	0.0135	0.0130	0.0132	0.0137	0.0133	0.0134	0.000000	0.0004	2.7736
293	Nebula yellow	0.0125	0.0126	0.0130	0.0127	0.0123	0.0131	0.0126	0.0128	0.0127	0.000000	0.0003	2.0619
6681	KLM	0.0165	0.0168	0.0158	0.0163	0.0167	0.0172	0.0160	0.0171	0.0166	0.000000	0.0005	3.0125
6857		0.0176	0.0173	0.0177	0.0172	0.0169	0.0171	0.0169	0.0176	0.0173	0.000000	0.0003	1.8406
6124	Carnival mix	0.0180	0.0171	0.0170	0.0168	0.0181	0.0180	0.0176	0.0172	0.0175	0.000000	0.0005	2.9458
1730	Funfair	0.0191	0.0185	0.0188	0.0178	0.0179	0.0188	0.0190	0.0187	0.0186	0.000000	0.0005	2.6018
1731	Carnival mix	0.0168	0.0171	0.0164	0.0165	0.0169	0.0172	0.0169	0.0172	0.0169	0.000000	0.0003	1.7848
6533	Tapestry	0.0149	0.0147	0.0148	0.0145	0.0145	0.0148	0.0143	0.0147	0.0147	0.000000	0.0002	1.3652
6969	Caerulea	0.0159	0.0157	0.0162	0.0159	0.0156	0.0157	0.0159	0.0159	0.0159	0.000000	0.0002	1.1682
										mean	0.0163		

Species: *Primula auricula*

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
267	<i>P. auricula</i> m.c. pubescens	0.0263	0.0260	0.0281	0.0265	0.0254	0.0270	0.0256	0.0252	0.0263	0.000001	0.0010	3.6291
2652	<i>P. auricula</i> m.c. pubescens	0.0302	0.0314	0.0301	0.0298	0.0302	0.0304	0.0291	0.0276	0.0299	0.000001	0.0011	3.7219
3192	<i>P. auricula</i>	0.0228	0.0249	0.0243	0.0238	0.0225	0.0223	0.0238	0.0232	0.0235	0.000001	0.0009	3.8750
7588	<i>P. auricula</i>	0.0276	0.0298	0.0301	0.0296	0.0312	0.0300	0.0286	0.0289	0.0295	0.000001	0.0011	3.7110

Species: *Primula auricula* (cont.)

266	<i>P. pubescens</i>	0.0290	0.0286	0.0279	0.0301	0.0269	0.0298	0.0299	0.0279	0.0288	0.000001	0.0011	3.9856
5819	<i>P. auricula</i>	0.0287	0.0275	0.0278	0.0283	0.0265	0.0271	0.0283	0.0286	0.0279	0.000001	0.0008	2.7813
6464	<i>P. auricula</i>	0.0303	0.0317	0.0334	0.0298	0.0315	0.0309	0.0319	0.0328	0.0315	0.000001	0.0012	3.8236
										mean	0.0282		

Species: *Reseda odorata* L. -mignonette

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
no lot		0.1108	0.1125	0.1083	0.1091	0.1132	0.1083	0.1081	0.1064	0.1096	0.000006	0.0024	2.1519
971		0.1261	0.1278	0.1267	0.1228	0.1220	0.1242	0.1256	0.1284	0.1255	0.000005	0.0023	1.8257
1612		0.1247	0.1250	0.1267	0.1277	0.1283	0.1233	0.1230	0.1234	0.1253	0.000004	0.0021	1.6543
1826		0.1204	0.1208	0.1203	0.1176	0.1191	0.1183	0.1201	0.1190	0.1195	0.000001	0.0011	0.9461
1956		0.1156	0.1187	0.1109	0.1105	0.1159	0.1111	0.1112	0.1131	0.1134	0.000009	0.0030	2.6681
4266		0.1304	0.1297	0.1283	0.1255	0.1241	0.1262	0.1238	0.1241	0.1265	0.000007	0.0026	2.0825
4330		0.1095	0.1136	0.1150	0.1109	0.1120	0.1112	0.1097	0.1115	0.1117	0.000003	0.0019	1.6703
5263		0.1231	0.1201	0.1202	0.1215	0.1245	0.1219	0.1205	0.1194	0.1214	0.000003	0.0017	1.4165
14311		0.1164	0.1138	0.1118	0.1129	0.1137	0.1134	0.1147	0.1137	0.1138	0.000002	0.0013	1.1771
										mean	0.1185		

Species: *Saponaria ocymoides*

		100 seed weight											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
6139		0.2114	0.2070	0.2076	0.2043	0.2098	0.2089	0.2115	0.2022	0.2078	0.000011	0.0033	1.5868
385		0.2027	0.2145	0.2165	0.2199	0.2145	0.2160	0.2130	0.2204	0.2147	0.000030	0.0055	2.5599
4800		0.1890	0.1842	0.1797	0.1821	0.1767	0.1672	0.1810	0.1770	0.1796	0.000041	0.0064	3.5629
5731		0.1908	0.1887	0.1866	0.1865	0.1840	0.1745	0.1919	0.1934	0.1871	0.000035	0.0060	3.1818
385		0.2211	0.2023	0.2185	0.2036	0.2151	0.2206	0.2219	0.2151	0.2148	0.000060	0.0077	3.6035
341		0.1989	0.2021	0.2005	0.1925	0.2099	0.1953	0.2049	0.1969	0.2001	0.000031	0.0056	2.7739
1013		0.1801	0.1712	0.1731	0.1681	0.1702	0.1740	0.1720	0.1665	0.1719	0.000017	0.0041	2.4094
1014		0.1846	0.1842	0.1827	0.1832	0.1788	0.1836	0.1792	0.1763	0.1816	0.000009	0.0031	1.6810
4982		0.1995	0.2019	0.2052	0.2048	0.1929	0.1983	0.2001	0.1956	0.1998	0.000018	0.0042	2.1257
6000		0.2124	0.2082	0.2069	0.2121	0.2092	0.2160	0.2079	0.2039	0.2096	0.000014	0.0038	1.8020
										mean	0.1967		

Species: *Scabiosa atropurpurea* L. - annual morning-bride

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1989		0.6362	0.6479	0.6537	0.6371	0.6167	0.6232	0.6080	0.6260	0.6311	0.000241	0.0155	2.4580
1990		0.5935	0.5670	0.5542	0.5737	0.5908	0.5982	0.6190	0.5919	0.5860	0.000411	0.0203	3.4584
1411		0.6466	0.6604	0.6410	0.6636	0.6592	0.6437	0.6452	0.5974	0.6446	0.000439	0.0209	3.2485
1412		0.5878	0.6276	0.5907	0.5640	0.6165	0.6253	0.5731	0.5890	0.5968	0.000567	0.0238	3.9885
B-1261		0.7875	0.7376	0.7772	0.7126	0.7735	0.7457	0.7323	0.7362	0.7503	0.000682	0.0261	3.4799
7426		0.6048	0.5679	0.5504	0.5771	0.5518	0.6105	0.5697	0.5650	0.5747	0.000496	0.0223	3.8765
A		0.6016	0.5715	0.5412	0.5761	0.5940	0.5672	0.5967	0.6043	0.5816	0.000467	0.0216	3.7157
6560		0.7066	0.6908	0.6845	0.6747	0.6947	0.6507	0.6490	0.6642	0.6769	0.000440	0.0210	3.0993
6561		0.5886	0.5697	0.5503	0.5457	0.5644	0.5416	0.5668	0.6028	0.5662	0.000448	0.0212	3.7376
6562		0.4956	0.5095	0.4934	0.4933	0.5037	0.4652	0.5236	0.5115	0.4995	0.000301	0.0174	3.4758
6563		0.5534	0.5580	0.5956	0.5777	0.5989	0.5503	0.6111	0.5702	0.5769	0.000524	0.0229	3.9668
6564		0.4785	0.4712	0.4495	0.4818	0.4709	0.4634	0.4769	0.4671	0.4699	0.000105	0.0102	2.1784
2572		0.5805	0.5575	0.5479	0.5784	0.5268	0.5315	0.5498	0.5311	0.5504	0.000433	0.0208	3.7821
2573		0.5208	0.5339	0.5215	0.5261	0.5503	0.5555	0.5747	0.5463	0.5411	0.000360	0.0190	3.5070
mean										0.5890			

Species: *Scabiosa caucasica* - scabiosa, perennial

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1952		1.1616	1.1868	1.1892	1.1160	1.1627	1.0954	1.1258	1.2070	1.1556	0.001559	0.0395	3.4166
1381		1.2243	1.1978	1.1676	1.2206	1.2471	1.2029	1.1728	1.1929	1.2033	0.000715	0.0267	2.2216
1382		1.2688	1.3306	1.2692	1.2948	1.2691	1.2715	1.2960	1.2675	1.2834	0.000504	0.0225	1.7498
3844		1.4610	1.4174	1.4276	1.4051	1.4166	1.3872	1.4577	1.4654	1.4298	0.000825	0.0287	2.0093
7408		1.3610	1.3698	1.3939	1.3560	1.3728	1.4012	1.3406	1.4051	1.3751	0.000532	0.0231	1.6769
4678		1.2520	1.2786	1.2433	1.2134	1.2665	1.2760	1.2939	1.2179	1.2552	0.000842	0.0290	2.3121
5121		1.3621	1.3792	1.3003	1.3078	1.3450	1.3629	1.3266	1.3150	1.3374	0.000848	0.0291	2.1775
6256		1.5282	1.5067	1.5430	1.5676	1.5024	1.5321	1.5846	1.5468	1.5389	0.000789	0.0281	1.8249
6257		1.5095	1.4970	1.4819	1.4820	1.4427	1.4328	1.4421	1.5352	1.4779	0.001319	0.0363	2.4576
6531		1.3251	1.3209	1.2353	1.2868	1.3011	1.2410	1.3365	1.2731	1.2900	0.001452	0.0381	2.9535
mean										1.3346			

Species: *Tanacetum* spp.

		100 seed weight											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
4652		0.2245	0.2264	0.2235	0.2221	0.2118	0.2204	0.2210	0.2161	0.2207	0.000022	0.0047	2.1475
4654		0.2683	0.2661	0.2701	0.2691	0.2699	0.2677	0.2722	0.2714	0.2694	0.000004	0.0020	0.7377
5111		0.2568	0.2625	0.2700	0.2636	0.2694	0.2600	0.2644	0.2580	0.2631	0.000024	0.0049	1.8449
5851		0.2443	0.2579	0.2617	0.2450	0.2510	0.2602	0.2548	0.2564	0.2539	0.000043	0.0066	2.5927
6993		0.2391	0.2278	0.2249	0.2325	0.2405	0.2223	0.2175	0.2198	0.2281	0.000074	0.0086	3.7769
4019		0.2775	0.2781	0.2559	0.2652	0.2519	0.2548	0.2695	0.2650	0.2647	0.000101	0.0100	3.7936
5941		0.2831	0.2731	0.2760	0.2548	0.2651	0.2620	0.2749	0.2797	0.2711	0.000092	0.0096	3.5407
5853		0.2113	0.2268	0.2201	0.2161	0.2116	0.2089	0.2163	0.2109	0.2153	0.000035	0.0059	2.7592
5852		0.2684	0.2792	0.2789	0.2714	0.2754	0.2715	0.2775	0.2694	0.2740	0.000019	0.0043	1.5777
6336		0.2243	0.2172	0.2141	0.2302	0.2232	0.2214	0.2216	0.2352	0.2234	0.000045	0.0067	3.0194
3337		0.2636	0.2496	0.2673	0.2688	0.2689	0.2557	0.2605	0.2662	0.2626	0.000048	0.0069	2.6354
5925		0.2542	0.2494	0.2478	0.2491	0.2438	0.2419	0.2489	0.2490	0.2480	0.000014	0.0037	1.5110
mean										0.2495			

Species: *Tropaeolum majus* - nasturtium

		100 seed weight (grams)											
Lot No.	Variety	1	2	3	4	5	6	7	8	mean	variance	sd	var. coeff.
430		14.9319	14.7682	14.4357	14.8725	14.3641	14.8376	14.5208	14.9130	14.7055	0.052435	0.2290	1.5572
431		14.3699	13.7036	14.6769	13.8500	13.5860	14.0544	14.1742	13.8466	14.0327	0.132150	0.3635	2.5906
504	Glorious Gleam	12.2401	12.8932	12.4434	13.2036	12.2910	12.6634	12.8880	12.2038	12.6033	0.134812	0.3672	2.9133
505	Jewel Mix	11.9858	11.4459	11.1976	11.7235	11.4899	11.9477	11.3659	12.0042	11.6451	0.097817	0.3128	2.6857
1214		11.7045	11.9516	11.7219	11.7330	12.4200	11.5311	11.5298	12.3201	11.8640	0.115735	0.3402	2.8675
2808		13.4854	13.4707	13.8853	13.2119	13.1070	13.4629	12.6773	13.4443	13.3431	0.124479	0.3528	2.6442
2951		12.3364	12.2764	11.9660	12.1500	12.0363	12.1106	12.3801	12.5708	12.2283	0.040000	0.2000	1.6355
2952	Glorious Gleam	13.5767	13.5927	12.9902	14.5505	13.9607	13.8746	13.8274	14.2024	13.8219	0.214585	0.4632	3.3514
3137	Trailing Mix	12.1874	11.6444	12.2327	12.5360	11.5015	12.6306	12.6477	12.5960	12.2470	0.205098	0.4529	3.6979
3138	Jewel Mix	12.7533	12.9544	12.9484	12.6485	13.4981	12.6925	12.4450	13.5182	12.9323	0.153101	0.3913	3.0256
6353	Jewel Mix	11.4708	11.7025	11.2998	11.5862	12.0954	12.2281	11.4203	11.1014	11.6131	0.148138	0.3849	3.3143
8473		11.8662	12.2534	12.4256	11.6603	11.6423	12.6037	12.5219	12.1864	12.1450	0.144290	0.3799	3.1277
mean										12.7651			

Species: *Vaccaria hispanica* - cow-cockle

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
199		0.5597	0.5379	0.5169	0.5409	0.5234	0.5307	0.5526	0.5308	0.5366	0.000206	0.0143	2.6734
2490		0.5438	0.5341	0.5399	0.5421	0.5348	0.5461	0.5486	0.5484	0.5422	0.000032	0.0056	1.0406
5246		0.5474	0.5541	0.5619	0.5316	0.5468	0.5659	0.5556	0.5497	0.5516	0.000111	0.0105	1.9101
5369	pink beauty	0.5462	0.5589	0.5748	0.5779	0.5328	0.5309	0.5440	0.5396	0.5506	0.000327	0.0181	3.2838
5531		0.5948	0.5533	0.5752	0.5701	0.5717	0.5812	0.5850	0.6044	0.5795	0.000249	0.0158	2.7219
5617		0.5457	0.5544	0.5758	0.5678	0.5396	0.5393	0.5684	0.5450	0.5545	0.000206	0.0144	2.5907
6558		0.5821	0.5689	0.5729	0.5718	0.5768	0.5777	0.5701	0.5754	0.5745	0.000019	0.0044	0.7635
6559		0.4671	0.4670	0.4670	0.4486	0.4698	0.4850	0.4707	0.4546	0.4662	0.000119	0.0109	2.3399
									mean	0.5445			