

Rule Change Proposal No. 3

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)	Approximate number of seeds per gram	Approximate number of seeds per ounce	Purity Weight in ISTA Rules (grams)
*	<i>Lupinus lepidus</i> Douglas ex Lindl.	17	170	145	4,110	—
*	<i>Lupinus perennis</i> L.. wild lupine	59	500	45	1,275	—
*	<i>Lupinus polyphyllus</i> Lindl. lupine, Russell hybrids	63	500	40	1,135	60
*	<i>Lupinus succulentus</i> Douglas ex Koch arroyo lupine	66	500	40	1,135	—

* = PSU included in 2002 AOSA Rules
_ = no purity weight provided in ISTA Rules

Additions to Handbook 25: Classification Section

Scientific Name/Common Name	Family	Spp. Class	Contaminating Classification						
			A	F	H	R	S	T	V
<i>Lupinus lepidus</i> Douglas ex Lindl.	Fabaceae	F	W	C	W	W	W	W	W

Additions and changes to Handbook 25: Appendix A

Common Name

Scientific Name

No common name

Lupinus lepidus

Lupine, perennial

~~*Lupinus perennis*~~

Lupine, wild

Lupinus perennis

~~Lupine, many-leaved~~ ~~*Lupinus polyphyllus*~~
Lupine, Russell hybrids *Lupinus polyphyllus*

~~Lupinus, succulent~~ ~~*Lupinus succulentus*~~
Lupinus, arroyo *Lupinus succulentus*

Additions and changes to Handbook 25: Appendix B

<u>Nomen #</u>	<u>Scientific Name</u>
22831	<i>Lupinus lepidus</i> Douglas ex Lindl.

Harmonization: There is no discord between this rule proposal and existing ISTA Rules. *Lupinus polyphyllus* is the only species in this proposal for which ISTA provides a working weight for purity analysis. The two weights- 63 grams proposed here and 60 grams in the ISTA Rules- are not significantly different.

In order to eliminate discrepancies in common names, the following changes should be made in the AOSA Handbook 25:

- The common name for *Lupinus perennis* should be listed as “wild lupine,” not “perennial lupine.”
- The common name for *Lupinus polyphyllus* should be listed as “lupine, Russell hybrids,” not “many-leaved lupine.”
- The common name for *Lupinus succulentus* should be listed as “arroyo lupine,” not “succulent lupine.”

Supporting Evidence: See attached tables.

Submitted By

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Species: *Lupinus lepidus* Douglas ex Lindl.

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
801	confertus	0.5343	0.5225	0.5437	0.5357	0.5164	0.5342	0.5142	0.5116	0.5266	0.000142	0.0119	2.2606
1369		0.702	0.727	0.705	0.693	0.705	0.700	0.690	0.711	0.7041	0.000131	0.0114	1.6254
1877	sellulus (inoculated)	0.622	0.615	0.585	0.624	0.631	0.586	0.634	0.640	0.6171	0.000440	0.0210	3.3973
1880	confertus	0.697	0.662	0.644	0.648	0.678	0.695	0.645	0.702	0.6713	0.000608	0.0246	3.6720
4263	lobbii	0.992	0.997	1.025	1.020	0.916	1.000	1.016	0.945	0.9889	0.001492	0.0386	3.9063
4276	inoculated	0.596	0.590	0.635	0.594	0.590	0.619	0.597	0.617	0.6048	0.000279	0.0167	2.7638
4278	confertus	0.739	0.712	0.708	0.669	0.728	0.718	0.691	0.717	0.7103	0.000475	0.0218	3.0697
mean										0.6890			

Species: *Lupinus perennis* L.- wild lupine

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1094		2.215	2.354	2.260	2.260	2.253	2.252	2.325	2.207	2.2654	0.002541	0.0504	2.2251
1497		2.474	2.431	2.582	2.394	2.394	2.438	2.424	2.455	2.4490	0.003639	0.0603	2.4631
4015		2.218	2.298	2.190	2.214	2.177	2.141	2.317	2.391	2.2433	0.007063	0.0840	3.7464
5592		2.667	2.625	2.660	2.602	2.620	2.584	2.620	2.565	2.6179	0.001206	0.0347	1.3266
6148	blue	2.447	2.301	2.529	2.440	2.306	2.291	2.372	2.360	2.3808	0.007198	0.0848	3.5637
6937	blue	2.336	2.445	2.266	2.288	2.255	2.334	2.234	2.313	2.3089	0.004385	0.0662	2.8681
7382		2.111	2.196	2.167	2.098	2.198	2.113	2.202	2.182	2.1584	0.001930	0.0439	2.0352
mean										2.3462			

Species: *Lupinus polyphyllus* Lindl.- garden lupine

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
1093		2.6345	2.5806	2.7032	2.6266	2.5653	2.7437	2.6958	2.7383	2.6610	0.004759	0.0690	2.5925
4520	Russel minarette dwarf	2.4670	2.5010	2.5146	2.5455	2.6352	2.5405	2.5733	2.5464	2.5404	0.002534	0.0503	1.9814
4615	Scarlet	2.141	2.239	2.142	2.187	2.214	2.161	2.098	2.193	2.1719	0.002054	0.0453	2.0866
4616	Scarlet	1.995	2.145	2.105	1.996	1.989	1.976	2.008	1.995	2.0261	0.003917	0.0626	3.0888
4617	Russel	2.888	2.985	2.880	2.878	2.934	2.923	2.874	2.945	2.9134	0.001601	0.0400	1.3735
4618	Russel hybrid	2.547	2.420	2.459	2.472	2.365	2.478	2.524	2.448	2.4641	0.003252	0.0570	2.3144

Species: *Lupinus polyphyllus*Lindl.- garden lupine (cont.)

4788	Russel	2.143	2.115	2.280	2.150	2.077	2.279	2.233	2.189	2.1833	0.005673	0.0753	3.4498
4973	Russel	2.249	2.224	2.298	2.202	2.263	2.292	2.435	2.426	2.2986	0.007643	0.0874	3.8034
5591		3.052	2.963	3.213	3.117	3.078	2.997	3.110	3.138	3.0835	0.006370	0.0798	2.5884
6300	Russel	2.542	2.548	2.503	2.648	2.600	2.681	2.548	2.513	2.5729	0.004104	0.0641	2.4900
6556	Russel	2.762	2.752	2.670	2.660	2.763	2.733	2.731	2.643	2.7143	0.002385	0.0488	1.7991

mean 2.5118

Species: *Lupinus succulentus* Douglas ex K. Koch- arroyo lupine

Lot No.	Variety	100 seed weight (grams)								mean	variance	sd	var. coeff.
		1	2	3	4	5	6	7	8				
190		3.162	3.150	3.175	3.151	3.068	3.152	3.178	3.082	3.1398	0.001724	0.0415	1.3223
191		2.647	2.776	2.795	2.894	2.817	2.814	2.702	2.669	2.7642	0.007085	0.0842	3.0451
1122		2.160	2.111	2.175	2.082	2.116	2.130	2.093	2.173	2.1300	0.001286	0.0359	1.6838
1354		2.613	2.444	2.480	2.523	2.512	2.586	2.450	2.465	2.5091	0.003919	0.0626	2.4950
1356		3.081	3.241	3.045	2.997	3.038	2.975	3.040	3.055	3.0590	0.006505	0.0807	2.6366
1360		2.550	2.403	2.435	2.496	2.453	2.416	2.542	2.501	2.4745	0.003140	0.0560	2.2644
1390		2.550	2.403	2.435	2.496	2.453	2.415	2.542	2.501	2.4744	0.003157	0.0562	2.2706
6572		2.669	2.814	2.711	2.699	2.578	2.648	2.547	2.542	2.6510	0.008690	0.0932	3.5165
8392		2.597	2.696	2.673	2.758	2.674	2.751	2.782	2.758	2.7111	0.003870	0.0622	2.2947
8412		2.415	2.467	2.521	2.606	2.659	2.656	2.610	2.546	2.5600	0.007861	0.0887	3.4633
8649		2.544	2.704	2.645	2.531	2.662	2.646	2.654	2.621	2.6258	0.003536	0.0595	2.2647

mean 2.6454