

Rule Change Proposal 6

Purpose of Proposal: Add PSU definition, chaffy seed designation, and working weights for *Asclepias speciosa* Torr. to the AOSA Rules for Testing Seeds.

Present Rule: Not in the AOSA Rules for Testing Seeds.

Proposed Rule:

Pure Seed #	Chaffy Seed	Kind of seed	Minimum weight for Purity analysis	Minimum weight for noxious-weed seed or bulk examination	Approximate number of seeds per gram	Approximate number of seeds per ounce
3	C	<i>Asclepias speciosa</i> Torr. showy milkweed	16	160	159	4517

Harmonization statement: This species is not currently listed in the Federal Seed Act Regulations, the Canadian Methods and Procedures for Testing Seeds, or the International Rules for Seed Testing. This is a species that is sold in the native seed industry in the United States.

Supporting evidence:

See Table 1 Weight of eight 100 seed unit replicates of nine different seed lots of *Asclepias speciosa*



Plant



Pod



Seed

Table 1 Weight of eight 100 seed unit replicates of nine different seed lots of *Asclepias speciosa*

Lot #	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Ave weight	1000 seed weight	Seeds per Gram	Coefficient of Variation
CARS	0.6640	0.6397	0.6435	0.65	0.6504	0.6815	0.6851	0.6504	0.658075	6.58075	151.9583634	2.598745074
17785	0.6919	0.6821	0.6613	0.6668	0.6719	0.6425	0.6732	0.6899	0.67245	6.7245	148.7099413	2.404480577
19774	0.6348	0.6885	0.6705	0.6846	0.6889	0.659	0.6593	0.6498	0.666925	6.66925	149.9418975	2.955575569
WY2444	0.5965	0.6098	0.6435	0.5717	0.5938	0.5921	0.5895	0.5895	0.5983	5.983	167.1402307	3.517134743
WY2016B	0.6664	0.6216	0.6458	0.6165	0.6035	0.643	0.6317	0.6401	0.633575	6.33575	157.8345105	3.100563019
SM17N	0.5836	0.5812	0.6102	0.6208	0.6153	0.6281	0.598	0.6137	0.6063625	6.063625	164.9178503	2.822676497
RM112618	0.6431	0.5997	0.6225	0.6526	0.6273	0.5952	0.6093	0.65	0.6249625	6.249625	160.0096006	3.578188579
WY2016A	0.6008	0.6154	0.5908	0.6281	0.5913	0.592	0.5857	0.5713	0.596925	5.96925	167.5252335	2.972789097
2432-1.SSP	0.6402	0.6558	0.6111	0.6226	0.6305	0.6069	0.6026	0.6147	0.62305	6.2305	160.5007624	2.91812658
Average									0.6312	6.3118	158.7265	2.9854

References:

<https://www.swcoloradowildflowers.com/Pink%20Enlarged%20Photo%20Pages/asclepias%20speciosa.htm>

<https://www.saveourmonarchs.org/blog/how-to-identify-milkweed-plants-quickly-and-confidently>

<https://butterfliesbymatthew.com/collections/flowers-for-pollinators/products/showy-milkweed-seed>

Respectfully submitted, Heidi Jo Larson, SGS, Brookings 605-692-7611 heidi.larson@sgs.com

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