

Rule Change Proposal 3

Purpose of Proposal: Add PSU definition, chaffy seed designation, and working weights for *Asclepias curassavica* L. 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 curassavica</i> L. bloodflower, bloodflower milkweed	6	60	428	12,159

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 six different seed lots of *Asclepias curassavica*



Plant



Pod and Seed

Table 1 Weight of eight 100 seed unit replicates of six 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	Seeds per Ounce	Coefficient of Variation
ASCU 09154-7	0.2508	0.2422	0.2482	0.2355	0.2386	0.2416	0.2426	0.2381	0.2422	2.422	412.8819158	68.662471	2.123376325
LC121217	0.2122	0.2177	0.2115	0.2202	0.2097	0.22	0.2139	0.2109	0.2145125	2.145125	466.1732999	60.813205	1.959106812
P5610.LF	0.254	0.2418	0.2496	0.2587	0.2531	0.2453	0.2534	0.246	0.2502375	2.502375	399.6203607	70.941061	2.229594872
ASCUR19	0.2348	0.2405	0.2245	0.2398	0.2213	0.2362	0.2375	0.2328	0.233425	2.33425	428.4031273	66.174803	3.002993734
A	0.2167	0.2101	0.2198	0.225	0.2132	0.211	0.2155	0.2146	0.2157375	2.157375	463.5262761	61.160486	2.252066906
B	0.2462	0.2491	0.2398	0.2426	0.2417	0.2473	0.2499	0.2525	0.2461375	2.461375	406.2769793	69.778732	1.798263329
Average									0.23370833	2.337083333	427.8837582	66.255127	12130.28741

References:

<https://monarchbutterflygarden.net/milkweed-plant-seed-resources/asclepias-curassavica-tropical-milkweed/>

<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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