

2021 Rule Change Proposal 4

Purpose of Proposal: To add *Carex comosa*, [bristly](#)/longhair sedge, to Volume 1, Table 2A of the AOSA Rules for Testing Seeds.

Present Rule: None

Proposed Rule: Volume 1. Principles and Procedures

Table 2A. Weights for working samples.

Pure Seed Unit #	Chaffy (C) or Super Chaffy (SC) ^a	Kind of Seed	Minimum weight for purity analysis ^b	Minimum weight for noxious weed seed or bulk examination	Approximate number of seeds per gram ^c	Approximate number of seeds per ounce ^d
			Grams	Grams	Number	Number
42	C	<i>Carex comosa</i> Boott bristly sedge , longhair sedge	2.2	22	1,125	31,894

Harmonization statement: *Carex comosa* 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 species is sold in the native seed industry in the United States. Adding a pure seed unit definition and working weights to the AOSA Rules will ensure standard testing procedures among laboratories.

Supporting Evidence: *Carex comosa* is a perennial sedge that is native to most of the eastern, midwestern, and western United States and Canada. It is one of the more ornamental sedges that can be used in rain gardens. It is also used for wetland restoration and bioretention projects. [Volume 3 of the AOSA Rules lists the common name as bristly sedge](#), and the [USDA lists the common name as longhair sedge](#).

Pure Seed Unit:



The procedures outlined in Section 13 of Volume 1 of the AOSA Rules for Testing Seeds were followed to determine the minimum weight for purity analysis and the approximate number of seeds per gram. Seed counts were conducted on seed lots received since 2006. The coefficient of variation for chaffy seeds (6.0) was not exceeded.

Table 1: Weight (grams) of eight 100 pure seed unit replicates of fifteen seed lots of *Carex comosa*. The overall average weight for 100 seeds is 0.0889.

Lot No.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Ave Weight	CV
1	0.0931	0.0905	0.0939	0.0929	0.0934	0.0960	0.0939	0.0915	0.0932	1.66
2	0.0856	0.0824	0.0874	0.0832	0.0842	0.0823	0.0824	0.0850	0.0841	2.05
3	0.0820	0.0800	0.0772	0.0816	0.0768	0.0789	0.0769	0.0784	0.0790	2.44
4	0.0793	0.0806	0.0804	0.0795	0.0739	0.0784	0.0782	0.0770	0.0784	2.59
5	0.0933	0.0913	0.0890	0.0870	0.0894	0.0837	0.0907	0.0929	0.0897	3.31
6	0.0844	0.0888	0.0917	0.0902	0.0904	0.0868	0.0869	0.0871	0.0883	2.55
7	0.0854	0.0847	0.0824	0.0862	0.0847	0.0872	0.0859	0.0852	0.0852	1.55
8	0.0884	0.0875	0.0860	0.0882	0.0858	0.0872	0.0956	0.0900	0.0886	3.31
9	0.0879	0.0798	0.0808	0.0809	0.0807	0.0817	0.0785	0.0811	0.0814	3.21
10	0.0892	0.1016	0.1012	0.0995	0.1011	0.0980	0.1022	0.1051	0.0997	4.43
11	0.0944	0.0895	0.0995	0.0969	0.0990	0.0958	0.0943	0.0957	0.0956	3.07
12	0.0925	0.0935	0.0980	0.0985	0.0881	0.0969	0.0899	0.0984	0.0945	4.04
13	0.0991	0.0962	0.1005	0.1010	0.0959	0.0996	0.1016	0.1021	0.0995	2.20
14	0.0860	0.0828	0.0834	0.0839	0.0810	0.0829	0.0826	0.0836	0.0833	1.58
15	0.0926	0.0914	0.0934	0.0917	0.0912	0.0949	0.0919	0.0924	0.0924	1.24

References:

<https://www.hoffmannursery.com/plants/details/carex-comosa>

https://illinoiswildflowers.info/grasses/plants/bb_sedge.htm

<https://www.minnesotawildflowers.info/grass-sedge-rush/bristly-sedge>

<https://plants.usda.gov/core/profile?symbol=CACO8>

Respectfully submitted: Kathy Mathiason, SDSU Seed Testing Laboratory, Box 2207A, Brookings, SD 57007. 605-688-6636 katherine.mathiason@sdstate.edu

Date Submitted: October 1, 2020 **Date Amended:** February 20, 2021