

Sumo Oats

EXCELLENT TEST WEIGHT – ON GRAIN MILLERS RECOMMENDED LIST

Maturity: Early

Height: Medium-Short

Straw Strength: Very Strong

Test Weight: Very High

Yield: Below Average

Crown Rust Resistance: Average

Seed Color: White

AGRONOMICS

- Early heading (2 Days earlier than Reins, U. of MN, 2018)
- Medium-Short (4 inches taller than Reins, U. of MN 2018)
- Very good straw strength (same as Reins & Antigo, U. of MN, 2018)
- Average Crown Rust Resistance (U. of MN, 2018)

PERFORMANCE

- Very well-adapted to Organic Farms
- Below average yield trial performance, but excellent on-farm performance
- Very high test weight (tied with Deon, U. of MN 2018)

NOTES

- Good choice for underseeding with legumes & grasses
- On Grain Millers Recommended Varieties for Milling (2019)
- PVP (94), seed can only be sold as a class of Cert. Seed



Sumo Oats, continued

Table 1. Relative grain yield of oat varieties in Minnesota in single-year (2018) and multiple-year comparisons (2016-2018)

Variety	Waseca	Le Center		Lamberton		Statewide ¹	
	2 yr	2018	3 yr	2018	3 yr	2018	3 yr
<i>Numbers represent grain yields as a percent of the mean (average yield in bu/A) within each column.</i>							
Antigo	101	90	94	99	97	97	98
Badger	113	92	111	84	90	98	106
Deon	109	104	111	120	123	102	116
Hayden	108	101	108	106	108	104	118
Horsepower	84	110	102	88	89	101	103
Reins	119	92	113	71	88	101	108
Saber	125	107	107	94	109	103	114
Shelby 427	63	92	102	90	90	104	104
Sumo	91	87	69	87	87	90	88
<i>Mean (Bu/Acre)</i>	<i>103</i>	<i>153</i>	<i>136</i>	<i>126</i>	<i>132</i>	<i>149</i>	<i>120</i>
<i>LSD (0.10)</i>	<i>16</i>	<i>22</i>	<i>24</i>	<i>14</i>	<i>11</i>	<i>49</i>	<i>31</i>

¹ Yields averaged over 7 research locations.

Table 2. Agronomic characteristics of oat varieties in Minnesota in multiple-year comparisons (2016-2018)

Variety	Seed Color	Days to Heading	Plant Height (Inches)	Straw Strength ¹ (1-9)	Test Weight (lbs/Bu)	Crown Rust ² (1-9)	Groat ³ (%)	Grain Protein ⁴ (%)	Oil (%)
Antigo	Yellow	58	36	3	38	2	68	13.8	5.3
Badger	Yellow	57	35	5	36	6	69	13.4	4
Deon	Yellow	65	41	4	37	3	69	12.8	4.7
Hayden	White	63	42	5	38	6	69	12.7	5.3
Horse-power	White	61	36	4	36	6	69	12.8	4.6
Reins	White	59	33	3	38	6	70	14.2	4.1
Saber	Yellow	58	36	4	37	6	72	14.2	4.2
Shelby 427	White	59	40	5	38	6	70	13.3	5.1
Sumo	White	57	37	3	37	5	70	14.9	3.8

¹ 1 = resistant, 9 = susceptible

² 2017 and 2018, 1 = most resistant, 9 = most susceptible

³ Trait measured in 2016 and 2017 only

⁴ Whole grain NIRS, trait measured in 2017 and 2018

Source: University of Minnesota 2018 Oat Field Crop Trials Results
(https://www.maes.umn.edu/sites/maes.umn.edu/files/2018_oat_final2.pdf)

