

2018-2021 ORCHARDGRASS VARIETY TRIAL

The forage cultivar evaluation program is a partnership between University of Tennessee Extension and UT AgResearch to aid producers in the selection of the best cultivars for their farm. The crop was grown using management practices considered to be the best for the crop, including fertilization according to soil test results. This study was conducted using a randomized complete block design with four replications. Least significant difference (LSD) values at the 5 percent level are shown at the bottom of each table with the coefficient of variation (CV). Within any table, yield of any two varieties being compared must differ by at least this amount to be considered different.

Table 1: Yield of orchardgrass varieties at the Highland Rim AgResearch and Education Center, Springfield, TN.

Variety	Supplier	Commercially Available	Yield (ton DM/acre)							
			2018 Total	2019 Total	2020 Total	2021				4-Year Total
						Apr 28	Jun 17	Oct 26	Total	
Albert	Oregro Seeds	Yes	3.24	3.03	2.92	0.82	1.05	1.80	3.66	12.83
Endurance	DLF Pickseed USA Inc.	Yes	3.32	3.11	3.08	0.86	0.91	1.70	3.46	12.96
Excellate SA	Lewis Seed Co.	Yes	3.06	2.85	2.59	0.78	0.90	1.51	3.19	11.69
FSG 506OG	Tennessee Farmers Cooperative	Yes	3.29	3.08	2.97	0.82	0.92	1.55	3.28	12.62
Inavale	DLF Pickseed USA Inc.	Yes	3.50	3.29	2.76	0.82	1.15	1.72	3.68	13.23
Olathe	DLF Pickseed USA Inc.	Yes	3.74	3.53	3.06	0.87	1.04	1.59	3.50	13.83
Olympia	Pennington Seed	Yes	3.30	3.09	2.95	1.01	0.88	1.47	3.36	12.71
Persist	Smith Seed Services	Yes	3.12	2.91	3.36	0.95	1.00	1.45	3.39	12.78
Persist II	Smith Seed Services	Yes	3.46	3.25	3.16	1.32	0.87	1.45	3.65	13.52
Potomac	Smith Seed Services	Yes	3.29	3.08	2.90	0.87	0.88	1.58	3.33	12.59
Quickdraw	Byron Seeds LLC	Yes	3.39	3.18	3.04	1.00	0.93	1.58	3.52	13.13
Tucker	Oregro Seeds	Yes	3.20	2.99	2.96	0.94	0.98	1.57	3.48	12.63
<i>Experimental Varieties</i>										
SOG-1614	Smith Seed Services	No	3.29	3.08	2.47	0.67	0.90	1.66	3.23	12.07
CV			5	6	8	17	9	7	5	4
LSD (P<0.05)			nd ¹	nd	nd	nd	nd	nd	nd	nd
* yielded statistically the same as the top-yielding variety										
¹ no-significant differences among the varieties										
Fertilization: Soil amended when required for Lime, P, and K. Nitrogen Application: 60 lb/acre at green-up, 30 lb/acre after first cut, and 30 lb/acre in September										
Planted: September 18, 2017										

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