

2022-2023 Small Grain Silage Trial at Bushland

Forage Nutritive Value at Boot and Soft-Dough

All forage constituents reported on a DM Basis

Samples processed by Dairy One Forage Testing Laboratory; Ithaca, NY

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Entry	Variety	Type	Company/Source	Yield (tons/ac) DM Basis				% Crude Protein		% Soluble Protein		% Lignin		% Starch		% WSC		% Calcium		% Phosphorus		% Potassium		% ADF		% aNDF		% NDFD30		% IVTD30		% TDN		tons TDN/ac	
				Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough
1	TX14V70214	wheat	AgriLife	1.77	5.46	16.9	12.1	44.0	49.7	1.87	2.80	0.20	22.07	27.3	8.2	0.21	0.10	0.26	0.28	2.59	1.41	24.5	25.6	42.9	44.6	69.0	48.0	86.7	76.7	74.3	68.7	1.31	3.75		
2	TAM 114	wheat	Watley Seed	1.93	5.37	17.7	11.3	45.3	49.0	2.30	3.53	0.20	16.80	24.4	8.7	0.31	0.19	0.29	0.24	3.00	1.23	26.8	31.0	45.0	51.1	69.0	49.3	86.3	73.7	72.3	66.0	1.40	3.54		
3	TAM 115	wheat	Watley Seed	2.38	5.79	17.5	12.5	46.7	50.0	3.00	2.93	0.20	17.50	23.0	6.5	0.27	0.22	0.28	0.25	2.89	1.41	27.2	29.2	45.5	51.1	65.0	47.3	84.0	73.0	71.0	65.7	1.69	3.80		
4	TAM 204	wheat	Watley Seed	2.34	4.43	18.8	12.5	46.0	49.0	2.67	3.07	0.27	18.83	23.8	8.5	0.32	0.27	0.30	0.28	2.81	1.50	25.5	26.2	43.5	45.6	67.7	47.7	85.7	76.0	72.3	67.3	1.69	2.99		
6	AP Longjack	wheat	AgriPro/Syngenta	2.16	5.20	17.8	11.6	47.3	48.3	2.23	3.20	0.20	19.37	25.8	7.7	0.28	0.18	0.30	0.27	2.88	1.11	25.2	27.5	43.1	47.6	69.0	46.3	86.7	74.7	72.7	64.3	1.20	3.35		
7	AP Prolific	wheat	AgriPro/Syngenta	1.89	4.97	17.5	10.7	48.0	51.3	3.03	3.40	0.20	16.23	24.4	10.6	0.29	0.22	0.29	0.25	3.11	1.22	26.4	29.0	44.6	48.0	67.3	46.0	85.7	74.0	71.0	65.7	1.53	3.26		
8	AP EverRock	wheat	AgriPro/Syngenta	2.16	4.48	17.0	12.8	47.7	51.7	2.00	3.80	0.20	20.70	25.4	9.1	0.25	0.19	0.28	0.33	2.52	1.23	26.5	26.9	44.7	45.1	65.0	47.0	84.0	76.3	73.3	65.3	1.38	2.93		
9	Amplify SF	wheat (solid stem)	CSU	2.04	5.32	17.2	11.5	45.7	53.0	2.83	3.23	0.20	12.13	22.9	8.7	0.24	0.28	0.28	0.23	3.00	1.40	28.9	32.1	45.8	54.3	65.7	48.0	84.3	72.0	70.3	63.3	1.52	3.37		
10	Fortify SF	wheat (solid stem)	CSU	2.12	5.01	16.3	10.1	46.3	57.3	2.13	4.10	0.20	10.30	26.6	11.8	0.22	0.24	0.27	0.23	2.89	1.16	26.1	34.3	44.9	56.1	67.7	46.3	85.3	70.0	73.3	62.0	1.50	3.10		
11	Windom AF	wheat (solid stem)	CSU	2.15	5.03	15.8	12.1	43.0	54.3	2.20	3.10	0.20	17.50	26.3	7.3	0.16	0.20	0.26	0.28	2.69	1.31	26.6	30.7	45.5	50.0	66.3	47.7	84.7	73.7	73.3	65.3	1.56	3.28		
13	TX20AT2005	triticale	AgriLife	2.71	6.54	15.7	9.4	41.3	57.7	3.63	4.40	0.20	16.57	12.5	6.3	0.29	0.28	0.33	0.21	2.78	1.59	34.5	34.4	57.8	54.7	61.7	40.7	77.7	67.7	65.7	58.0	1.96	3.79		
15	TX20AT2015	triticale	AgriLife	2.80	6.94	15.3	9.2	48.0	56.0	3.27	4.80	0.20	15.37	19.7	6.1	0.27	0.35	0.30	0.16	2.56	1.69	30.9	34.3	52.1	57.1	62.7	42.3	80.7	67.3	68.7	56.7	2.25	3.93		
16	TX20AT2018	triticale	AgriLife	3.07	6.39	16.4	10.2	43.3	53.7	3.20	3.87	0.20	15.00	17.8	5.9	0.22	0.24	0.30	0.20	2.67	1.49	31.4	33.3	53.0	55.2	61.3	42.3	79.7	68.3	69.0	59.0	1.93	3.77		
17	Thundertall	triticale	Ehmke	3.67	7.22	16.1	8.3	44.0	60.7	3.37	5.10	0.27	12.37	15.7	6.1	0.19	0.32	0.36	0.14	3.19	1.78	32.2	38.0	53.9	58.8	64.7	40.7	80.7	65.3	67.0	54.3	2.06	3.92		
18	Thundertall II	triticale	Ehmke	2.78	7.59	17.2	10.3	43.3	56.7	3.50	3.87	0.27	15.83	14.0	7.1	0.24	0.28	0.35	0.26	3.13	1.58	33.1	33.2	55.0	53.7	63.0	44.7	79.7	70.7	67.3	60.0	2.47	4.55		
19	ThunderCale V	triticale	Ehmke	3.66	6.84	17.9	10.5	47.0	57.3	3.57	3.73	0.20	13.73	18.5	6.1	0.24	0.27	0.35	0.22	2.99	1.69	29.9	34.5	49.2	55.4	66.3	47.0	83.3	70.3	68.3	62.0	1.90	4.24		
20	SlickTrill II	triticale	Watley Seed	2.47	7.76	15.3	8.8	43.3	52.3	4.00	5.00	0.20	14.03	14.4	4.6	0.24	0.33	0.36	0.13	3.07	1.64	35.0	37.7	55.5	60.1	62.3	43.0	79.0	65.3	64.7	55.3	2.37	4.29		
21	Tamcale 7526	triticale	AgriLife/Watley Seed	2.73	6.34	16.4	10.3	49.3	58.3	2.87	3.47	0.20	15.03	21.5	7.1	0.27	0.28	0.32	0.22	3.10	1.73	28.8	32.0	48.6	51.8	64.7	42.0	82.7	69.7	70.0	61.3	1.73	3.89		
22	T-23	triticale (facultative)	Watley Seed	2.21	6.67	17.6	9.9	46.3	58.0	3.53	3.70	0.20	16.17	17.8	7.1	0.26	0.18	0.32	0.23	2.77	1.57	30.3	32.5	49.5	54.0	65.0	45.7	82.7	70.7	68.3	62.7	1.86	4.18		
23	ThunderGreen	Rye	Ehmke	2.72	6.43	23.1	10.6	40.3	51.7	3.50	4.13	0.20	14.63	10.6	9.0	0.39	0.24	0.50	0.28	3.45	1.84	30.2	32.4	51.6	53.1	71.0	47.0	84.7	71.7	68.3	64.3	1.51	4.14		
24	Aviator	Rye	Warner Seeds	2.79	6.33	19.6	9.7	43.3	55.3	2.80	4.33	0.20	13.20	15.1	8.8	0.22	0.18	0.38	0.19	2.91	1.60	31.3	34.0	50.4	55.1	65.3	46.3	82.7	70.3	70.0	63.7	1.90	4.03		
			Mean	2.47	6.03	17.1	10.8	45.2	53.6	2.87	3.77	0.21	15.83	20.8	7.7	0.26	0.24	0.32	0.23	2.88	1.50	29.0	31.8	48.4	52.5	65.7	45.8	83.2	71.4	70.2	62.6	1.75	3.72		
			CV (%)	13.60	10.90	6.0	11.7	16.6	7.3	18.60	16.30	18.60	30.49	8.1	25.4	27.90	30.52	10.10	24.65	6.60	15.80	4.8	13.7	2.6	11.7	4.3	5.1	1.9	5.1	2.0	5.8				
			p-value	<0.0001	<0.0001	0.0320	0.0006	<0.0001	0.0031	0.0899	0.0004	0.1379	0.4631	<0.0001	0.0136	0.5099	0.0531	<0.0001	0.0337	0.0006	0.0027	<0.0001	0.0503	<0.0001	0.1441	0.0110	<0.0001	<0.0001	0.0053	<0.0001	0.0002				
			LSD*	0.60	1.10	2.2	2.1	4.7	6.5	NS	1.01	NS	NS	2.9	3.2	NS	0.12	0.05	0.09	0.33	NS	2.4	NS	2.2	NS	4.9	3.8	2.7	6.0	2.4	6.0				

\*Fishers LSD