

2022-2023 Texas A&M AgriLife Small Grain Silage Trial at Bushland

Planted 31-Oct-22
Seeding Rate (Wheat and Triticale) 1,200,000 seeds/ac
Seeding Rate (Rye) 800,000 seeds/ac
Irrigation 7 inches
Precipitation 12.4 inches

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Entry	Variety	Species	Company/Developer	Status	Boot					Heading Date	Days from Boot to SD	Soft-Dough				
					Harvest Date	Ht (in.)	% Moisture at Harvest	Yield (lbs/ac) DM Basis	Yield (tons/ac) DM Basis			Harvest Date	Ht (in.)	% Moisture at Harvest	Yield (lbs/ac) DM Basis	Yield (tons/ac) DM Basis
1	Dyna-Gro 7322 (TX14V702)	Wheat	Nutrien/AgriLife	Released	4/29/2023	17.7	74.2	3535	1.8	5/2/2023	36	6/5/2023	30.2	60.3	10929	5.5
2	TAM 114	Wheat	Adaptive Genetics/AgriLife	Released	4/29/2023	18.7	75.8	3859	1.9	5/4/2023	36	6/5/2023	31.0	61.3	10737	5.4
3	TAM 115	Wheat	Watley Seed/AgriLife	Released	5/2/2023	21.0	75.5	4764	2.4	5/7/2023	34	6/5/2023	32.3	61.9	11584	5.8
4	TAM 204	Wheat	Watley Seed/AgriLife	Released	4/29/2023	18.9	74.8	4684	2.3	5/3/2023	32	6/5/2023	30.3	63.9	8870	4.4
6	AP Longjack	Wheat	AgriPro/Syngenta	Released	4/29/2023	15.3	75.6	3305	1.7	5/2/2023	33	6/5/2023	29.3	61.0	10410	5.2
7	AP Prolific	Wheat	AgriPro/Syngenta	Released	4/29/2023	18.3	75.9	4314	2.2	5/2/2023	32	6/5/2023	31.2	65.3	9941	5.0
8	AP EverRock	Wheat	AgriPro/Syngenta	Released	4/29/2023	16.0	72.6	3773	1.9	4/30/2023	34	6/5/2023	27.3	61.3	8961	4.5
9	Amplify SF	Wheat (solid stem)	CSU	Released	5/2/2023	22.3	77.3	4328	2.2	5/9/2023	32	6/5/2023	32.7	63.6	10640	5.3
10	Fortify SF	Wheat (solid stem)	CSU	Released	5/1/2023	20.1	73.9	4078	2.0	5/5/2023	33	6/5/2023	30.7	63.0	10014	5.0
11	Windom SF	Wheat (solid stem)	CSU	Released	4/30/2023	17.2	74.5	4241	2.1	5/5/2023	36	6/5/2023	29.2	65.3	10052	5.0
12	TX16VT68295	Triticale	AgriLife	Experimental	4/29/2023	24.3	78.7	4296	2.1	5/4/2023	40	6/12/2023	43.0	60.8	12275	6.1
13	TX20AT2005	Triticale	AgriLife	Experimental	5/7/2023	35.7	82.7	5969	3.0	5/9/2023	48	6/21/2023	52.0	54.5	13080	6.5
14	TX20AT2014	Triticale	AgriLife	Experimental	5/5/2023	36.0	81.6	5422	2.7	5/11/2023	48	6/21/2023	46.7	54.9	12829	6.4
15	TX20AT2015	Triticale	AgriLife	Experimental	5/2/2023	32.7	78.8	6555	3.3	5/9/2023	46	6/16/2023	45.0	54.8	13884	6.9
16	TX20AT2018	Triticale	AgriLife	Experimental	5/2/2023	34.3	78.6	5600	2.8	5/9/2023	43	6/16/2023	44.7	58.0	12787	6.4
17	Thundertall	Triticale	Ehmke	Released	5/7/2023	37.5	79.9	6146	3.1	5/16/2023	51	6/21/2023	53.3	53.9	14447	7.2
18	Thundertall II	Triticale	Ehmke	Released	5/7/2023	38.5	78.7	7330	3.7	5/16/2023	47	6/21/2023	55.3	57.0	15177	7.6
19	ThunderCale V	Triticale	Ehmke	Released	5/2/2023	25.2	81.4	5563	2.8	5/9/2023	39	6/12/2023	42.0	66.3	13683	6.8
20	SlickTrit II	Triticale	Watley Seed	Released	5/10/2023	34.0	79.0	7317	3.7	5/12/2023	52	6/21/2023	54.7	55.2	15517	7.8
21	Titan	Triticale	Watley Seed/AgriLife	Released	5/1/2023	26.6	79.5	4946	2.5	5/6/2023	44	6/16/2023	47.3	56.5	12688	6.3
22	T-23	Triticale (facultative)	Watley Seed	Released	5/2/2023	30.0	79.9	5451	2.7	5/11/2023	41	6/12/2023	45.0	62.5	13335	6.7
23	ThunderGreen	Rye	Ehmke	Released	5/7/2023	28.0	87.2	4423	2.2	5/9/2023	50	6/21/2023	44.0	63.6	12859	6.4
24	Aviator	Rye	Adaptive Genetics/KWS	Released	5/3/2023	32.2	83.5	5443	2.7	5/9/2023	44	6/15/2023	37.7	65.4	12652	6.3
25	Aviator	Rye	KWS	Released	5/2/2023	32.7	83.4	5585	2.8	5/9/2023	46	6/16/2023	44.3	64.0	12596	6.3
26	Progas	Rye	KWS	Released	5/1/2023	23.8	82.2	4962	2.5	5/6/2023	42	6/16/2023	38.7	62.7	12762	6.4
27	Propower	Rye	KWS	Released	5/7/2023	29.0	83.1	4806	2.4	5/11/2023	41	6/12/2023	41.0	68.3	10698	5.3
30	Surge	Triticale	TriCal	Released	5/7/2023	27.3	83.7	4635	2.3	5/9/2023	46	6/16/2023	41.3	61.4	12951	6.5
31	Thor	Triticale	TriCal	Released	5/12/2023	32.3	77.9	6342	3.2	5/16/2023	49	6/21/2023	49.3	53.4	14074	7.0
32	TAM 114	Wheat	Adaptive Genetics/AgriLife	Released	4/30/2023	18.7	75.7	3849	1.9	5/5/2023	31	6/5/2023	33.0	61.6	11162	5.6
33	TAM 205	Wheat	Adaptive Genetics/AgriLife	Released	4/29/2023	18.0	75.6	3794	1.9	5/2/2023	33	6/5/2023	30.8	59.5	10265	5.1
					Mean	25.9	78.6	4947	2.5			Average	39.8	60.7	12062	6.0
					CV (%)	8.6	1.7		13.6			cv	9.2	4.4		10.9
					p-value	<0.0001	<0.0001		<0.0001			p-value	<0.0001	<0.0001		<0.0001
					LSD*	3.9	2.3		0.6			LSD*	6.0	4.3		1.1

*Fishers LSD

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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		% Crude Protein		% Soluble Protein		% Lignin		% Starch		% WSC		% Calcium		% Phosphorus	
				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	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	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
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
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
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
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
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
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
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
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
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
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
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
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
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
20	SlickTrit 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
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
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
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
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
			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
			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
			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
			LSD (Fishers LSD)	0.60	1.10	2.2	2.1	4.7	6.5	NS	1.01	NS	NS	3.2	NS	0.12	0.05	0.09	

Entry	Variety	Type	Company/Source	% 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		
1	TX14V70214	wheat	AgriLife	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	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	2.89	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	2.81	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	2.88	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	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	2.52	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	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	2.89	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	2.69	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	2.78	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	2.56	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	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	3.19	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	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	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	SlickTrit II	triticale	Watley Seed	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	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	2.77	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	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	2.91	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	2.88	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 (%)	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	0.0006	0.0027	<0.0001	0.0503	<0.0001	0.1441	0.0110	<0.0001	<0.0001	0.0053	<0.0001	0.0002				
			LSD (Fishers LSD)	0.33	NS	2.4	NS	2.2	NS	4.9	3.8	2.7	6.0	2.4	6.0				