

Table 1

MEAN Comparison Summary

VARIETIES	Head Type	Forage Rating ¹ (1-3)	Heading Date (Julian) <small>April 11-25, 2019</small>	Initial Stripe Rust Infection - FL (%)	Initial Leaf Rust Infection - FL (%)	Bacterial Streak ² (0-4)	Final Stripe Rust Infection - FL (%)	Final Leaf Rust Infection - FL (%)	Plant Height (inches)	Test Weight (lb/bu)	Yield (bu/ac)
AGS 2024	Awne	2.8 abc	108.7 fgh	0.0 a	0.0 a	2.0 g-k	0.2 a	0.0 a	33.3 g-l	58.4 ab	77.1 a
AGS 2038	Awne	2.1 f-l	115.2 a	0.2 a	0.0 a	1.0 l	1.2 a	0.0 a	39.8 a	58.0 abc	67.3 b-f
AGS 2055	Awne	2.4 b-h	108.0 f-j	0.0 a	0.0 a	1.0 l	0.5 a	0.0 a	34.0 e-k	56.1 e-k	77.5 a
Go Wheat GW 2032	Awne	2.9ab	106.7 h-k	0.0 a	0.0 a	1.7 h-l	0.0 a	0.0 a	33.0 i-m	57.6 a-d	74.3 ab
TX-EL2	Awne	2.6 a-f	108.2 f-i	0.0 a	0.0 a	2.8 c-f	0.0 a	25.0 ef	34.5 d-j	55.6 f-l	64.8 c-h
TX15D9579	Awne	2.8 abc	106.0 jkl	0.0 a	0.0 a	1.8 g-l	0.0 a	0.3 a	33.5 f-l	56.4 d-i	69.0 b-e
TX15D9597	Awne	2.8 abc	106.0 jkl	0.0 a	0.0 a	2.0 g-k	0.0 a	4.0 ab	34.0 e-k	58.4 ab	70.2 bcd
#Fury	Awnless	2.3 d-j	107.7 g-j	0.0 a	0.0 a	1.0 l	1.3 a	0.0 a	32.2 k-o	56.4 d-j	70.9 bc
#Turbo	Awnless	2.6 a-f	106.7 h-k	0.0 a	0.0 a	1.0 l	0.0 a	0.3 a	32.0 l-o	57.3 b-e	71.7 abc
Blackland 1812	Awne	1.5 m	113.0 bc	0.0 a	0.0 a	1.0 l	1.7 a	2.0 ab	37.5 bc	56.4 d-j	63.1 d-i
Blackland 1881	Awne	1.8 i-m	109.3 fg	0.5 a	0.0 a	2.2 f-j	5.0 a	17.5 b-e	35.5 de	56.0 e-k	62.9 d-i
Blackland 1885	Awne	1.6 lm	113.0 bc	0.0 a	0.0 a	1.5 i-l	0.5 a	2.3 ab	34.0 e-k	56.1 e-k	64.4 c-h
Pioneer 25R40	Awne	1.9 h-m	111.8 bcd	0.0 a	0.0 a	2.0 g-k	2.3 a	25.0 ef	31.0 no	55.5 g-l	69.0 b-e
Pioneer 25R61	Awne	2.2 e-k	108.0 f-j	6.3 b	0.0 a	2.3 e-i	30.0 c	17.5 b-e	34.8 d-i	54.9 j-m	61.8 e-j
Pioneer 75R74	Awne	1.8 i-m	110.0 ef	0.5 a	0.0 a	1.7 h-l	0.7 a	21.7 c-f	32.7 j-n	55.3 g-l	66.0 c-g
Syngenta SY Viper	Awnless	2.0 g-m	106.5 ijk	0.0 a	0.0 a	2.0 g-k	0.8 a	31.7 f	36.2 cd	56.5 d-i	67.3 b-f
Syngenta Coker 9553	Awne	2.4 b-h	105.3 kl	0.0 a	0.0 a	3.0 cde	2.2 a	26.7 ef	35.5 de	58.8 a	67.1 b-f
Dyna-Gro 9012	Awne	2.2 e-k	108.2 f-i	0.0 a	0.0 a	3.3 abc	0.8 a	50.0 g	33.5 f-l	56.2 d-k	58.6 g-l
Dyna-Gro 9522	Awne	1.9 h-m	112.0 bcd	0.0 a	0.0 a	2.2 f-j	1.7 a	52.5 g	35.0 d-h	53.8 mn	58.2 h-l
Dyna-Gro 9701	Awne	1.7 klm	113.0 bc	0.0 a	0.0 a	1.3 jkl	1.8 a	3.0 ab	37.2 bc	56.0 e-k	62.5 d-i
Dyna-Gro 9811	Awne	2.2 e-k	108.2 f-i	0.0 a	0.0 a	1.5 i-l	0.3 a	5.5 ab	34.5 d-j	55.2 h-l	64.7 c-h
Dyna-Gro TV 8861	Awne	1.9 h-m	112.0 bcd	0.0 a	0.0 a	2.3 e-i	0.2 a	55.0 g	34.2 e-j	54.5 lm	59.6 f-k
USG 3118	Tip-Awne	3.0 a	105.3 kl	0.0 a	0.0 a	1.5 i-l	0.0 a	0.0 a	30.7 o	57.0 c-f	65.9 c-g
USG 3120	Awne	2.3 d-j	104.5 lm	1.5 a	0.0 a	2.7 c-g	9.3 b	4.7 ab	34.8 d-i	56.8 c-g	61.4 e-j
USG 3201	Awne	2.0 g-m	109.2 fg	0.0 a	0.0 a	3.3 abc	1.3 a	45.8 g	33.3 g-l	55.9 e-k	55.3 jkl
USG 3228	Awnless	2.6 a-f	107.7 g-j	0.0 a	0.0 a	2.2 f-j	0.5 a	6.8 ab	32.2 k-o	54.8 klm	65.3 c-h
USG 3329	Awne	1.8 j-m	109.0 fg	0.0 a	0.0 a	2.0 g-k	0.7 a	31.7 f	35.2 d-g	51.4 o	52.9 klm
USG 3404	Awne	1.8 i-m	111.8 bcd	0.0 a	0.0 a	1.8 g-l	0.2 a	7.8 ab	34.5 d-j	56.1 e-k	65.6 c-h
USG 3458	Awnless	1.5 m	108.2 f-i	0.0 a	0.0 a	2.3 e-i	1.8 a	34.2 f	32.0 l-o	53.0 n	52.4 lm
USG 3536	Awne	1.7 klm	112.2 bcd	0.0 a	0.0 a	1.2 kl	0.7 a	3.5 ab	37.3 bc	56.0 e-k	61.7 e-j
USG 3539	Awne	1.9 h-m	113.5 b	0.0 a	0.0 a	1.7 h-l	0.0 a	2.2 ab	33.5 f-l	56.2 d-k	67.4 b-f
USG 3895	Awne	2.6 a-f	107.7 g-j	0.0 a	0.0 a	1.5 i-l	0.0 a	10.8 a-d	31.5 mno	55.0 i-l	73.9 ab
Monsanto WB-2418	Tip-Awne	2.0 g-m	108.2 f-i	0.0 a	0.0 a	1.0 l	1.3 a	1.7 ab	35.2 d-g	57.2 b-e	65.7 c-h
Monsanto WB-4269 (HRWW)	Awne	2.8 a-d	107.5 g-j	0.0 a	0.0 a	3.2 bcd	0.0 a	11.0 a-d	33.2 h-m	56.7 c-h	51.8 lm
Monsanto WB-4303 (HRWW)	Awne	2.5 a-g	104.5 lm	0.0 a	0.0 a	3.0 cde	2.3 a	9.2 abc	32.8 j-m	54.5 lm	56.4 i-l
Monsanto WB-4418 (HRWW)	Awne	2.8 a-d	103.5 m	0.5 a	0.0 a	3.8 ab	0.0 a	14.2 a-e	32.3 k-o	56.2 d-k	54.7 jkl
Monsanto WB-4515 (HRWW)	Awne	1.8 j-m	111.5 cd	0.0 a	0.0 a	3.2 bcd	1.7 a	56.7 g	35.3 def	57.3 b-e	42.9 n
Monsanto WB-Cedar (HRWW)	Awne	2.7 a-e	100.7 n	0.7 a	0.5 b	4.0 a	0.0 a	81.7 h	31.0 no	55.5 f-l	46.7 mn
TAM 114 (HRWW)	Awne	2.3 d-j	110.8 de	0.0 a	0.0 a	3.3 abc	0.0 a	71.7 h	38.2 b	56.7 c-h	52.2 lm
TAM 305 (HRWW)	Awne	3.0 a	107.7 g-j	0.7 a	0.0 a	3.2 bcd	0.0 a	0.0 a	32.2 k-o	57.9 abc	51.9 lm
Syngenta Greer (HRWW)	Awne	2.7 a-e	108.0 f-j	0.0 a	0.0 a	3.2 bcd	0.0 a	80.8 h	35.5 de	54.3 lm	51.5 lm
Syngenta Grit (HRWW)	Awne	2.8 a-d	105.2 kl	0.0 a	0.2 a	4.0 a	0.8 a	78.3 h	36.2 cd	56.1 e-k	52.3 lm
Syngenta Monument (HRWW)	Awne	2.1 f-l	108.3 f-i	0.0 a	0.0 a	2.5 d-h	0.0 a	23.3 def	35.3 def	56.7 c-h	54.2 kl
Gallagher (HRWW)	Awne	2.3 c-i	106.5 ijk	0.7 a	0.0 a	3.3 abc	2.2 a	6.7 ab	34.0 e-k	58.7 a	56.2 i-l
LSD (P = .05)		0.31	1.18	0.97	0.12	0.48	2.79	8.89	1.05	0.83	4.39
CV (%)		11.91	0.96	325.24	683.08	18.87	145.62	37.27	2.69	1.29	6.22
GRAND MEAN		2.25	108.52	0.26	0.02	2.24	1.68	20.97	34.18	56.12	61.96

¹Forage Rating Scale: 1 – low lying/small/less upright growth; thin leaf blade, 2 – medium/moderate upright growth; moderate leaf blade, 3 – tall/excellent upright growth; wide leaf blade
²Bacterial Streak Rating Scale: 0 – None; 1 – lower ¼ of plant; 2 – lower to middle portion of plant; 3 – ¾ of plant affected; 4 – flag leaf affected

Table 2

Yield (bu/ac) and Test Weight (lbs/bu)– June 21, 2019

Varieties	Yield (bu/ac)		Varieties	Test Weight
AGS 2055	77.5 a		Syngenta Coker 9553	58.8 a
AGS 2024	77.1 a		Gallagher (HRWW)	58.7 a
Go Wheat GW 2032	74.3 ab		AGS 2024	58.4 ab
USG 3895	73.9 ab		TX15D9597	58.4 ab
#Turbo	71.7 abc		AGS 2038	58.0 abc
#Fury	70.9 bc		TAM 305 (HRWW)	57.9 abc
TX15D9597	70.2 bcd		Go Wheat GW 2032	57.6 a-d
TX15D9579	69.0 b-e		#Turbo	57.3 b-e
Pioneer 25R40	69.0 b-e		Monsanto WB-4515 (HRWW)	57.3 b-e
USG 3539	67.4 b-f		Monsanto WB-2418	57.2 b-e
AGS 2038	67.3 b-f		USG 3118	57.0 c-f
Syngenta SY Viper	67.3 b-f		USG 3120	56.8 c-g
Syngenta Coker 9553	67.1 b-f		Monsanto WB-4269 (HRWW)	56.7 c-h
Pioneer 75R74	66.0 c-g		TAM 114 (HRWW)	56.7 c-h
USG 3118	65.9 c-g		Syngenta Monument (HRWW)	56.7 c-h
Monsanto WB-2418	65.7 c-h		Syngenta SY Viper	56.5 d-i
USG 3404	65.6 c-h		TX15D9579	56.4 d-i
USG 3228	65.3 c-h		#Fury	56.4 d-j
TX-EL2	64.8 c-h		Blackland 1812	56.4 d-j
Dyna-Gro 9811	64.7 c-h		Dyna-Gro 9012	56.2 d-k
Blackland 1885	64.4 c-h		USG 3539	56.2 d-k
Blackland 1812	63.1 d-i		Monsanto WB-4418 (HRWW)	56.2 d-k
Blackland 1881	62.9 d-i		AGS 2055	56.1 e-k
Dyna-Gro 9701	62.5 d-i		Blackland 1885	56.1 e-k
Pioneer 25R61	61.8 e-j		USG 3404	56.1 e-k
USG 3536	61.7 e-j		Syngenta Grit (HRWW)	56.1 e-k
USG 3120	61.4 e-j		Blackland 1881	56.0 e-k
Dyna-Gro TV 8861	59.6 f-k		Dyna-Gro 9701	56.0 e-k
Dyna-Gro 9012	58.6 g-l		USG 3536	56.0 e-k
Dyna-Gro 9522	58.2 h-l		USG 3201	55.9 e-k
Monsanto WB-4303 (HRWW)	56.4 i-l		TX-EL2	55.6 f-l
Gallagher (HRWW)	56.2 i-l		Pioneer 25R40	55.5 g-l
USG 3201	55.3 jkl		Monsanto WB-Cedar (HRWW)	55.5 f-l
Monsanto WB-4418 (HRWW)	54.7 jkl		Pioneer 75R74	55.3 g-l
Syngenta Monument (HRWW)	54.2 kl		Dyna-Gro 9811	55.2 h-l
USG 3329	52.9 klm		USG 3895	55.0 i-l
USG 3458	52.4 lm		Pioneer 25R61	54.9 j-m
Syngenta Grit (HRWW)	52.3 lm		USG 3228	54.8 klm
TAM 114 (HRWW)	52.2 lm		Dyna-Gro TV 8861	54.5 lm
TAM 305 (HRWW)	51.9 lm		Monsanto WB-4303 (HRWW)	54.5 lm
Monsanto WB-4269 (HRWW)	51.8 lm		Syngenta Greer (HRWW)	54.3 lm
Syngenta Greer (HRWW)	51.5 lm		Dyna-Gro 9522	53.8 mn
Monsanto WB-Cedar (HRWW)	46.7 mn		USG 3458	53.0 n
Monsanto WB-4515 (HRWW)	42.9 n		USG 3329	51.4 o

CV = 6.22

GM = 61.96

LSD (P = .05) = 4.39

CV = 1.29

GM = 56.12

LSD (P = .05) = 0.83

Mean Separation: Newman Keuls Multiple Comparison Test @ 5% Entries/Means followed by the same letter are NOT significantly different.

19-04. 2018-19 Wheat @ Howe, TX (Norman Farms, Cooperator)
SRWW Variety Comparison with Selected HRWWs Study

2	4	35	38	26	42	22	33	15	13	16	36	8	40	17	21	41	27	34	25	24	10	6	7	44	14	12	9	3	18	32	11
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632
34	10	2	11	21	27	33	40	12	42	23	43	32	31	1	26	18	7	13	24	4	30	20	35	19	38	14	5	8	9	41	15
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532
21	35	7	39	15	8	4	34	5	26	14	42	6	37	19	28	27	12	29	44	23	41	17	11	33	18	9	30	1	38	20	31
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432
13	11	32	44	24	19	16	30	43	31	41	22	3	9	38	2	25	20	26	10	17	27	37	34	29	4	23	40	21	28	39	7
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332
22	34	39	36	41	28	19	27	42	17	18	23	1	40	31	12	38	32	11	9	20	14	13	15	16	5	8	33	6	7	35	26
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132

29	20	31	19	5	28	43	37	39	30	23	1
633	634	635	636	637	638	639	640	641	642	643	644
17	22	37	3	44	36	25	6	28	29	16	39
533	534	535	536	537	538	539	540	541	542	543	544
3	32	24	2	40	13	36	16	22	25	10	43
433	434	435	436	437	438	439	440	441	442	443	444
42	1	5	35	15	12	33	14	18	36	6	8
333	334	335	336	337	338	339	340	341	342	343	344
21	3	29	4	43	24	2	10	44	25	30	37
233	234	235	236	237	238	239	240	241	242	243	244
33	34	35	36	37	38	39	40	41	42	43	44
133	134	135	136	137	138	139	140	141	142	143	144

BORDERS: Milburn (2 on each side)
Planted November 17, 2018
January 28, 2019 applied 50 lbs. N/Ac (32%)
March 28, 2019 applied 68 lbs. N/Ac (32%)
March 21 & 27, 2019 sprayed Alley's
April 25, 2019 - Stripe Rust: trace – 15% in Pioneer 25R61, trace in USG 3120 & Monsanto WB-Cedar
Leaf Rust – trace in Monsanto WB-Cedar
Harvested June 21, 2019

VARIETIES (90 lbs/Ac)

- | | | | | |
|---------------------|-------------------------|----------------------|-----------------------------|------------------------------|
| 1. AGS 2024 | 10. Blackland 1812 | 19. Dyna-Gro 9522 | 28. USG 3404 | 37. Monsanto WB-4515 (HRWW) |
| 2. AGS 2038 | 11. Blackland 1881 | 20. Dyna-Gro 9701 | 29. USG 3458 | 38. Monsanto WB-Cedar (HRWW) |
| 3. AGS 2055 | 12. Blackland 1885 | 21. Dyna-Gro 9811 | 30. USG 3536 | 39. TAM 114 (HRWW) |
| 4. Go Wheat GW 2032 | 13. Pioneer 25R40 | 22. Dyna-Gro TV 8861 | 31. USG 3539 | 40. TAM 305 (HRWW) |
| 5. TX-EL2 | 14. Pioneer 25R61 | 23. USG 3118 | 32. USG 3895 | 41. Syngenta Greer (HRWW) |
| 6. TX15D9579 | 15. Pioneer 75R74 | 24. USG 3120 | 33. Monsanto WB-2418 | 42. Syngenta Grit (HRWW) |
| 7. TX15D9597 | 16. Syngenta SY Viper | 25. USG 3201 | 34. Monsanto WB-4269 (HRWW) | 43. Syngenta Monument (HRWW) |
| 8. #Fury (Progeny) | 17. Syngenta Coker 9553 | 26. USG 3228 | 35. Monsanto WB-4303 (HRWW) | 44. Gallagher (HRWW) |
| 9. #Turbo (Progeny) | 18. Dyna-Gro 9012 | 27. USG 3329 | 36. Monsanto WB-4418 (HRWW) | |