

11-26. 2010-11 Wheat @ Howe, TX (Jack Norman and Alton Norman, Cooperators)
 HRWW vs. SRWW Variety Comparison Study

Table 1 Yield – Bu/Ac

Varieties	1	2	3	4	5	6	Mean
USG 3555	96.2	86.3	85.7	80.0	84.5	73.4	84.4a
AGS 2035	84.0	85.2	87.5	84.3	70.8	87.9	83.3a
USG 3295	89.1	90.6	81.5	81.3	73.7	81.9	83.0a
Terral LA 841	85.0	93.1	84.9	81.9	73.1	78.8	82.8a
TAM 304 (HRWW)	88.0	76.2	82.1	92.5	81.7	68.6	81.5ab
Syngenta Oakes	103.0	70.4	86.1	76.2	78.4	73.2	81.2ab
Syngenta Magnolia	83.0	67.5	79.5	80.0	83.4	84.9	79.7ab
Syngenta Coker 9553	77.8	91.3	84.5	77.6	71.9	72.7	79.3ab
Pioneer 25R57	72.5	80.1	80.4	88.3	74.3	75.1	78.5ab
Syngenta Fannin (HRWW)	76.5	81.1	77.9	72.6	84.6	76.6	78.2ab
Pioneer 25R47	78.4	70.5	76.0	80.7	78.4	65.3	74.9abc
Syngenta Greer (HRWW)	77.1	73.3	77.7	76.0	71.9	71.8	74.6abc
Billings (HRWW)	72.4	69.4	74.1	64.0	73.6	70.7	70.7bc
TAM 203 (HRWW)	75.0	72.2	69.7	66.4	62.4	59.5	67.5cd
TAM 401 (HRWW)	61.1	63.1	72.9	63.2	63.6	69.0	65.5cd
Syngenta Jackpot (HRWW)	59.3	68.9	61.6	65.4	42.8	59.7	59.6d

CV = 8.24
 GM = 76.5

ANOVA

Source of Variation	Sum of Squares (SS)	Degrees of Freedom (DF)	Mean Square (MS)	F	Appx p
Block	669.049	5			
Treatment	4731.791	15	315.453	7.922	0.0001
Error	2986.502	75	39.820		
TOTAL	8387.342	95			

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%

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Table 2 Test Weight – Lb/Bu

Varieties	1	2	3	4	5	6	Mean
Syngenta Fannin (HRWW)	63.2	63.0	63.3	63.0	63.5	63.1	63.2a
Billings (HRWW)	62.5	61.8	62.6	61.9	62.4	61.5	62.1b
Syngenta Coker 9553	62.1	62.2	62.0	61.5	62.1	62.0	62.0b
Syngenta Magnolia	61.1	60.1	60.4	60.8	60.7	60.5	60.6c
AGS 2035	60.8	60.9	60.8	60.4	60.2	60.5	60.6c
USG 3295	61.0	61.6	60.7	60.4	60.2	59.8	60.6c
Syngenta Oakes	60.1	60.2	61.0	60.2	60.6	60.5	60.4c
Terral LA 841	60.4	60.8	60.1	60.4	60.4	60.3	60.4c
USG 3555	60.2	60.4	60.0	59.7	60.2	59.9	60.1cd
TAM 304 (HRWW)	60.1	59.1	59.5	59.8	59.3	59.4	59.5de
TAM 203 (HRWW)	59.8	59.5	59.4	59.4	58.8	59.0	59.3e
Pioneer 25R57	58.8	59.6	59.2	59.3	59.7	58.3	59.2e
Syngenta Jackpot (HRWW)	59.5	59.3	59.9	60.0	57.8	58.7	59.2e
TAM 401 (HRWW)	59.6	58.8	59.7	56.4	58.3	57.5	58.4f
Syngenta Greer (HRWW)	57.3	58.2	58.6	57.5	57.7	57.0	57.7g
Pioneer 25R47	56.8	55.6	57.0	56.1	55.6	55.5	56.1h

CV = 0.82
 GM = 60.0

ANOVA

Source of Variation	Sum of Squares (SS)	Degrees of Freedom (DF)	Mean Square (MS)	F	Appx p
Block	5.582	5			
Treatment	270.558	15	18.037	74.445	0.0001
Error	18.172	75	0.242		
TOTAL	294.312	95			

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%

**HRWW vs. SRWW Variety Comparison Study
Ratings on June 6, 2011**

Table 3 Lodging (Angle from Ground)

Varieties	1	2	3	4	5	6	Mean
Syngenta Magnolia	80	80	80	80	85	80	80.8a
USG 3555	80	85	80	75	80	80	80.0a
Pioneer 25R47	75	85	80	75	80	75	78.3a
USG 3295	75	80	75	80	65	75	75.0ab
TAM 203 (HRWW)	75	75	75	70	80	75	75.0ab
Syngenta Coker 9553	80	75	75	70	65	75	73.3ab
AGS 2035	75	75	75	70	70	75	73.3ab
Pioneer 25R57	75	75	80	60	75	75	73.3ab
Terral LA 841	75	75	80	65	65	75	72.5ab
Syngenta Oakes	75	60	60	70	60	65	65.0bc
Syngenta Jackpot (HRWW)	70	75	60	65	60	60	65.0bc
Syngenta Fannin (HRWW)	70	50	70	60	60	65	62.5c
Syngenta Greer (HRWW)	70	75	60	60	60	50	62.5c
TAM 401 (HRWW)	50	75	60	60	65	60	61.7c
Billings (HRWW)	60	45	50	55	45	60	52.5d
TAM 304 (HRWW)	45	50	50	45	50	60	50.0d

**CV = 8.26
GM = 68.8**

Scale: 90° - No Lodging 0° - Flat on ground

ANOVA

Source of Variation	Sum of Squares (SS)	Degrees of Freedom (DF)	Mean Square (MS)	F	Appx p
Block	316.927	5			
Treatment	7749.740	15	516.649	16.008	0.0001
Error	2420.573	75	32.274		
TOTAL	10487.240	95			

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%

11-26. 2010-11 Wheat @ Howe, TX (Jack Norman and Alton Norman, Cooperators)
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 Barley Yellow Dwarf Ratings on April 22, 2011

Table 4 Severity of BYD Infection in Plot

Varieties	1	2	3	4	5	6	Mean
USG 3555	2	2	1	2	2	3	2.0a
Syngenta Magnolia	2	5	3	2	3	3	3.0ab
Pioneer 25R57	4	3	3	3	4	2	3.2abc
Syngenta Oakes	3	4	2	3	5	3	3.3abc
Terral LA 841	3	2	4	3	5	3	3.3abc
Pioneer 25R47	3	5	4	3	3	4	3.7abc
Syngenta Greer (HRWW)	3	5	3	3	5	3	3.7abc
Syngenta Coker 9553	3	2	3	5	5	5	3.8bc
AGS 2035	3	3	3	5	5	5	4.0bc
Syngenta Fannin (HRWW)	5	3	5	5	2	5	4.2bc
TAM 304 (HRWW)	2	5	5	3	5	5	4.2bc
USG 3295	5	3	3	5	5	5	4.3bc
Billings (HRWW)	4	5	5	5	4	3	4.3bc
TAM 203 (HRWW)	5	5	4	4	5	5	4.7bc
TAM 401 (HRWW)	5	5	5	5	5	3	4.7bc
Syngenta Jackpot (HRWW)	5	5	5	5	5	5	5.0c

CV = 25.43
 GM = 3.8

Scale: 1= None 5 = Severe Stunting; yellow, red leaves

ANOVA

Source of Variation	Sum of Squares (SS)	Degrees of Freedom (DF)	Mean Square (MS)	F	Appx p
Block	4.708	5			
Treatment	51.333	15	3.422	3.600	0.0001
Error	71.292	75	0.951		
TOTAL	127.333	95			

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%

**11-26A. 2010-11 Wheat @ Howe, TX (Jack Norman and Alton Norman, Cooperators)
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 Barley Yellow Dwarf Ratings on April 22, 2011**

Table 5 *Percent BYD Infection in Plot*

Varieties	1	2	3	4	5	6	Mean
USG 3555	10	5	0	15	10	25	10.8a
Syngenta Magnolia	15	30	15	15	10	20	17.5ab
Syngenta Oakes	20	20	10	30	30	25	22.5abc
Syngenta Greer (<i>HRWW</i>)	20	20	15	20	50	30	25.8abcd
Pioneer 25R57	45	15	25	15	50	15	27.5abcd
USG 3295	20	15	15	35	40	40	27.5abcd
AGS 2035	20	15	20	20	65	30	28.3abcd
Terral LA 841	25	10	25	30	65	20	29.2abcd
Pioneer 25R47	35	15	45	35	25	50	34.2abcd
Syngenta Fannin (<i>HRWW</i>)	60	10	40	60	5	45	36.7abcd
TAM 304 (<i>HRWW</i>)	10	45	25	15	55	70	36.7abcd
Syngenta Coker 9553	30	5	15	50	70	60	38.3abcd
TAM 203 (<i>HRWW</i>)	50	20	25	35	60	60	41.7bcd
Syngenta Jackpot (<i>HRWW</i>)	60	20	40	60	70	40	48.3cd
Billings (<i>HRWW</i>)	60	40	60	50	50	50	51.7cd
TAM 401 (<i>HRWW</i>)	90	45	60	45	65	20	54.2d

**CV = 46.25
GM = 33.2**

ANOVA

Source of Variation	Sum of Squares (SS)	Degrees of Freedom (DF)	Mean Square (MS)	F	Appx p
Block	5726.302	5			
Treatment	12918.490	15	861.233	3.657	0.0001
Error	17661.198	75	235.483		
TOTAL	36305.990	95			

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%