



## **Pick Wheat Grain Varieties for the Texas High Plains & Eastern New Mexico** *2015 Wheat Variety Trial Results with Multi-Year Averages*

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This summary is derived from High Plains wheat grain testing coordinated by the Texas A&M AgriLife Research wheat breeding program based at Amarillo. Irrigated and dryland test sites range from Lamesa to Perryton and west, including at test site at NMSU-Clovis.

### ***2014-2015 Wheat Crop in Review***

Wet weather in particular marked the return of good wheat production conditions in the Texas High Plains for 2014-2015. These welcome conditions also fostered favorable conditions for rust diseases, in particular stripe rust. A significant portion of High Plains acres were sprayed, and producers that did not spray—especially if they had susceptible varieties like TAM 111 and TAM 112—saw yields drop. In contrast some producers with TAM 113 which has stronger stripe rust tolerance found that the level of tolerance was sufficient to preclude spraying.

### ***AgriLife High Plains Wheat Picks for 2015-2016***

Our ongoing Picks criteria include a minimum of three years of data in Texas A&M AgriLife High Plains wheat variety trials across numerous annual locations. A “Pick” variety means this: given the data these are the varieties we would choose to include and emphasize on our farm for wheat grain production. Picks are not necessarily the numerical top yielders as important disease resistance traits (leaf or stripe rust, wheat streak mosaic virus), insect tolerance (greenbugs, Russian wheat aphid), or standability can also be important varietal traits that enable a producer to better manage potential risk. We look for **consistency** of yields, e.g. the regularity with which an individual variety is in the top 25% of yield at each location.

While in some years we make no changes to our Picks list, for 2015-2016 we have made some deletions and additions.

**Deletions:** We have removed TAM 111 from full irrigation in part due to the troubles this variety experienced with stripe rust in 2015. This is the first year of significant underperformance for TAM 111 in our many years of trials, but stripe rust issues and moist conditions—which may be compounded in full irrigation—raise this caution. We have also deleted Duster and Hatcher. Though the long-term performance of these varieties has been solid overall as a Pick for all production conditions, their continued yield has become

somewhat marginal relative to newer lines that are available. Hatcher in particular has some risk due to longer maturity and the risk of poor performance at higher temperatures.

**Additions:** T158 (Limagrain) is now a Pick for dryland and limited irrigation Texas High Plains wheat production. Part of T158's performance is tolerance to stripe rust.

A special note about TAM 114: We have good 3-year yield data on TAM 114 (formerly tested as TX07A001505), which has good across-the-board resistance to rusts, good straw strength, desirable milling and baking qualities, and also has intermediate resistance to some biotypes of Hessian fly. But the seed is in production for 2015 plantings and is likely unavailable to producers.

**Table 1.** Texas A&M AgriLife wheat grain variety Picks for the Texas High Plains based on yield performance and consistency from at least 20 multi-year, multi-site trials, 2010-2012 & 2014-2015.

<b>Wheat Variety "Picks", Texas High Plains (with Texas leaf &amp; stripe rust ratings†)</b>		
<u>Full Irrigation</u>	<u>Limited Irrigation</u>	<u>Dryland</u>
	TAM 111 (S/S)	TAM 111
	TAM 112 (S/S)	TAM 112
TAM 113 (R/R)	TAM 113	TAM 113
TAM 304 (R/MR)		
Iba (R/R)	Iba	Iba
	T158 (MS/MR)	T158
Winterhawk (MS/MR)	Winterhawk	Winterhawk

†Ratings (Leaf Rust/Stripe Rust) reaction ratings: S, susceptible; MS, moderately susceptible; MR, moderately resistant; R, resistant.

Two-year 'watch list.' Based on 2014 and 2015 harvest data Gallagher (Oklahoma St.), SY Monument (Syngenta), and WB-Grainfield (Monsanto) are showing good performance and will merit consideration after 2016 yield data is evaluated. Gallagher had been in Texas A&M AgriLife trials up to 2013, but unfortunately was not tested in 2014. We need further analysis of 2015 harvest data (or more data in 2016) to determine if either Byrd (Colorado State) or Denali (Colorado St.) may be advanced to our Picks list. As noted above TAM 114 (MR/R) in essence has moved off our "Watch List" but is limited due to little seed for 2015 planting other than seed blocks.

### **The Advantage of Variety Picks in Multi-Year Wheat Grain Production**

"Pick" varieties with a minimum of three years in High Plains Texas A&M AgriLife testing continue to yield an average of 8 to 12% better as a group than all other varieties in both irrigated and dryland tests. Though you may have a variety for your production conditions that you really like, we encourage you to include one of our Picks in your cropping. We will have full results reported by mid-August 2015 so please contact us for a comprehensive reports. Perhaps a Pick variety that has a specific disease package—which may have been valuable in the stripe rust outbreak of 2015—or relative maturity that contrasts your current variety would be a good complement to your overall program.

**Table 2.** Summary of 2014-2015 Texas A&M AgriLife High Plains irrigated wheat variety location results.

Yield Rank	Variety	Developer	Yield (Bu/A)†						Test Wt. (Lbs./bu)
			4-Loc. Avg.‡	Clovis	Dim-mitt	Etter	Lam-esa	Perry-ton	
1	<b>TAM 114</b>	TAMU	91.7	99.1	94.7	60.4	107.4	58.2	60.5
2	WB Grainfield	Monsanto	91.6	99.2	109.9	63.1	93.4	56.0	59.5
3	SY Monument	Syngenta	90.8	83.0	101.8	71.4	103.1	61.4	58.7
4	05BC041-10-10†	Syngenta	89.9	100.3	98.7	56.0	100.8	55.1	58.5
5	Bentley (OK09125)	OSU	89.7	93.3	103.6	61.8	97.4	55.0	58.4
6	Gallagher	OSU	89.1	89.6	97.9	59.7	104.3	51.7	59.6
7	TAM 204	TAMU	88.3	82.4	110.0	58.0	99.3	53.7	56.2
8	TAM 401	TAMU	87.1	90.6	102.5	62.3	91.6	49.7	57.5
9	Greer	Syngenta	86.6	88.4	96.6	58.2	99.0	62.3	58.6
10	<b>T158</b>	Limagrain	86.4	83.2	102.4	54.4	100.9	47.2	59.0
11	TAM 305	TAMU	85.9	79.8	94.6	60.2	103.3	53.6	60.0
12	TX08A001249†	TAMU	85.6	87.1	101.6	45.3	102.8	43.2	59.4
13	<b>TAM 113</b>	TAMU	85.2	88.6	101.1	61.3	88.5	39.5	58.9
14	WB 4458	Monsanto	85.1	76.2	100.9	62.9	96.6	50.6	58.8
15	LCS Mint	Limagrain	84.7	90.2	92.0	55.9	96.7	46.0	59.6
16	WB Cedar	Monsanto	83.6	76.8	87.9	64.4	99.9	57.6	58.8
17	KanMark	KSU	83.0	87.9	90.8	45.8	101.3	53.1	59.9
18	AP11T1409†	Syngenta	82.8	87.6	89.4	63.0	89.0	41.7	57.4
19	<b>Winterhawk</b>	Monsanto	82.8	82.6	102.4	57.7	86.9	50.5	60.7
20	<b>Iba</b>	OSU	82.5	80.9	98.9	48.2	97.1	48.7	59.7
21	SY Drifter	Syngenta	81.8	81.8	91.9	55.9	93.5	54.9	60.4
22	<b>TAM 304</b>	TAMU	80.4	88.5	95.7	38.9	94.0	45.0	56.8
23	SY Llano	Syngenta	80.3	75.7	81.9	58.4	98.8	56.5	60.3
24	TX09A001194†	TAMU	80.3	82.1	98.5	32.8	100.8	45.2	58.4
25	Doublestop CL	OSU	80.1	83.8	91.0	53.0	89.6	55.8	60.1
26	Duster	OSU	80.1	87.2	90.1	46.9	92.0	44.6	59.7
27	PlainsGold Hatcher	CSU	79.6	76.6	88.0	60.1	90.0	---	58.1
28	PlainsGold Brawl CL Plus	CSU	78.3	80.1	88.5	43.8	95.1	---	58.8
29	TAM 112	TAMU	77.3	86.6	85.3	42.9	90.0	37.2	58.7
30	PlainsGold Denali	CSU	76.5	73.3	94.0	45.6	89.1	---	58.3
31	SY Razor	Syngenta	75.3	83.0	80.2	61.9	76.0	41.0	60.3
32	TX09D1172†	TAMU	74.5	82.4	83.0	32.1	94.0	53.4	58.7
33	<b>TAM 111</b>	TAMU	74.2	78.1	91.6	30.8	90.8	44.9	58.2
34	LCS Wizard	Limagrain	73.6	74.7	82.9	44.7	87.6	48.2	59.6
35	Ruby Lee	OSU	73.5	76.4	80.7	35.5	94.3	39.6	58.8
36	WB Redhawk	Monsanto	73.4	70.4	83.3	44.2	90.1	48.4	57.5
37	Everest	KSU	73.4	70.5	82.9	43.5	90.9	39.6	59.7
38	Endurance	OSU	72.0	66.8	85.9	36.2	92.4	---	57.6
39	PlainsGold Byrd	CSU	69.6	62.7	81.9	37.4	89.9	44.9	56.3
40	TAM W-101	TAMU	67.6	64.6	80.2	40.9	80.3	39.8	57.4
Least Signif. Diff. (LSD @ 95% confidence)			<b>5.1</b>	<b>11.5</b>	<b>13.2</b>	<b>8.8</b>	<b>8.3</b>	<b>7.3</b>	<b>1.1</b>
Coefficient of Variation, CV (%)			<b>8.1</b>	<b>8.6</b>	<b>8.8</b>	<b>10.6</b>	<b>6.1</b>	<b>9.0</b>	<b>2.0</b>
Trial Average			<b>81.4</b>	<b>82.3</b>	<b>92.9</b>	<b>51.4</b>	<b>94.5</b>	<b>49.3</b>	<b>58.8</b>

†Experimental wheat breeding line.

†Varieties ranked based on 4-location average (Dimmitt, Etter, Lames

**Varieties listed in bold are current 2015-2016 High Plains "Picks" (irrigated; TAM 304 full irrigation only;**

**TAM 111 & 112, T158 limited irrigation only).**

Readers should consider trials in a similar environment to confirm varietal effect on yields.

**Table 3.** Summary of 2014-2015 Texas A&M AgriLife High Plains dryland wheat variety location results.

Yield Rank	Variety	Developer	Yield (Bu/A)†							Test Wt. (Lbs./bu)
			4-Loc. Avg.‡	Etter	Dalhart	Groom	Hereford	Perryton	Sunray	
1	TX09A001194†	TAMU	50.1	52.2	17.9	65.0	54.4	29.6	28.9	56.3
2	WB Grainfield	Monsanto	47.4	45.4	---	65.6	52.8	27.8	25.7	54.1
3	TAM 204	TAMU	45.7	44.4	43.8	59.5	54.6	---	24.1	54.3
4	Bentley (OK09125)	OSU	44.8	44.4	43.9	58.3	52.4	---	24.2	54.4
5	TX08A001249†	TAMU	44.1	43.0	20.3	62.3	50.5	24.0	20.7	57.3
6	TAM 305	TAMU	43.9	38.0	35.2	59.8	51.4	---	26.5	56.2
7	TAM 401	TAMU	43.3	39.5	56.2	59.1	51.6	---	23.2	53.7
8	LCS Mint	Limagrain	43.1	53.1	39.4	54.8	41.6	20.0	22.9	55.9
9	SY Llano	Syngenta	42.9	41.7	57.0	50.1	54.1	24.4	25.6	56.6
10	SY Monument	Syngenta	42.9	35.7	51.6	61.3	51.2	24.5	23.3	54.5
11	<b>Winterhawk</b>	Monsanto	42.9	44.5	30.8	56.5	44.8	27.8	26.0	56.8
12	WB 4458	Monsanto	42.6	38.4	51.0	60.9	52.4	22.6	18.9	54.3
13	Duster	OSU	42.3	42.8	32.2	50.4	51.7	---	24.2	53.8
14	Doublestop CL	OSU	42.1	43.5	43.3	61.1	45.2	19.7	18.8	55.7
15	05BC041-10-10†	Syngenta	42.0	41.5	45.7	60.0	44.3	21.3	22.1	54.1
16	<b>T158</b>	Limagrain	41.6	42.3	40.6	59.6	44.1	36.2	20.3	55.4
17	<b>Iba</b>	OSU	41.6	44.7	29.4	49.6	47.9	---	24.4	56.2
18	TX09D1172*	TAMU	41.6	44.5	---	50.2	47.5	23.3	24.2	55.7
19	WB Cedar	Monsanto	41.3	35.9	49.3	48.3	54.1	24.6	26.8	52.2
20	Gallagher	OSU	41.1	40.9	33.2	55.5	43.9	17.9	24.3	55.1
21	PlainsGold Denali	CSU	41.0	53.2	---	56.6	37.9	30.5	16.1	56.1
22	TAM 114	TAMU	40.5	35.2	47.8	59.6	45.9	28.4	21.1	56.6
23	Greer	Syngenta	40.2	40.1	48.1	56.3	45.9	25.0	18.4	53.8
24	PlainsGold Byrd	CSU	39.9	47.6	22.4	54.8	38.0	24.5	19.2	56.0
25	SY Razor	Syngenta	39.9	36.0	45.6	58.2	44.8	---	20.6	57.6
26	TAM 304	TAMU	39.3	34.3	35.0	55.0	46.7	21.5	21.4	53.0
27	LCS Wizard	Limagrain	39.0	42.4	27.0	49.6	44.7	21.2	19.3	55.2
28	<b>TAM 113</b>	TAMU	38.9	36.8	35.2	53.0	41.2	23.1	24.8	55.5
29	<b>TAM 112</b>	TAMU	38.9	45.9	19.3	49.7	35.0	23.6	25.1	55.0
30	PlainsGold Hatcher	CSU	38.9	49.7	---	48.7	35.6	---	21.5	55.3
31	KanMark	KSU	38.6	44.3	30.1	47.6	43.8	21.5	18.6	55.9
32	Ruby Lee	OSU	38.6	37.3	20.3	53.4	44.4	---	19.4	56.1
33	<b>TAM 111</b>	TAMU	38.5	42.1	12.6	56.9	35.8	25.0	19.4	56.0
34	PlainsGold Brawl CL Plus	CSU	38.2	37.0	---	53.1	40.3	26.3	22.6	56.8
35	SY Drifter	Syngenta	37.2	38.7	43.7	58.0	32.4	24.2	19.6	54.4
36	AP11T1409†	Syngenta	36.3	37.9	43.9	51.4	37.0	25.7	19.1	53.7
37	Everest	KSU	35.9	37.7	29.3	47.9	41.4	25.7	16.5	55.3
38	TAM W-101	TAMU	35.8	40.3	26.3	48.2	34.1	22.9	20.7	55.3
39	WB Redhawk	Monsanto	35.8	37.4	22.7	48.6	41.0	24.4	16.1	53.3
40	Endurance	OSU	35.3	35.6	---	49.4	38.9	---	17.5	54.5
Least Signif. Diff. (LSD @ 95% confidence)			<b>3.6</b>	<b>7.3</b>	<b>5.5</b>	<b>6.8</b>	<b>8.8</b>	<b>8.1</b>	<b>10.1</b>	<b>2.2</b>
Coefficient of Variation, CV (%)			<b>10.9</b>	<b>10.8</b>	<b>16.4§</b>	<b>7.6</b>	<b>12.1</b>	<b>20.0§</b>	<b>15.5§</b>	<b>2.9</b>
Trial Average			<b>40.9</b>	<b>41.6</b>	<b>36.2</b>	<b>55.1</b>	<b>44.9</b>	<b>24.3</b>	<b>38.4</b>	<b>55.2</b>

†Experimental wheat breeding line. ‡Varieties ranked based on 4-location average (Etter, Groom, Hereford, Sunray).

§Trials with a coefficient of variation (CV) ≥ 15% contain excessive experimental error.

**Varieties listed in bold are current 2015-2016 High Plains "Picks" (dryland).**

Readers should consider trials in a similar environment to confirm varietal effect on yields.

**Table 4. Multi-year irrigated wheat variety trial yields, 2011-2012 & 2014-2015, Texas & NM High Plains.**

Variety†	Source	2011	2012	2014	2015	2-Year	3-Year	4-Year
		Annual Bushels per Acre Average				Multi-year Bu/A Average		
<b>Winterhawk</b>	Monsanto	64.3	75.6	79.1	82.4	80.8	79.1	75.4
<b>Iba</b>	Okla. St.	63.0	74.6	79.4	81.3	80.4	78.4	74.6
<b>TAM 113</b>	Texas A&M	64.0	67.1	70.5	84.9	77.7	74.2	71.6
PlainsGold Hatcher	Colo. St.	58.3	66.1	79.9	78.7	79.3	74.9	70.7
Duster	Okla. St.	62.8	68.5	69.4	79.1	74.2	72.3	69.9
<b>TAM 112‡</b>	Texas A&M	66.0	66.5	71.0	76.2	73.6	71.2	69.9
Greer	Syngenta	55.8	62.5	75.4	85.6	80.5	74.5	69.8
<b>TAM 111‡</b>	Texas A&M	65.7	65.6	74.7	72.8	73.8	71.1	69.7
<b>TAM 304§</b>	Texas A&M	57.3	69.3	71.3	79.3	75.3	73.3	69.3
TAM 305	Texas A&M	56.7	63.6	67.8	84.5	76.1	72.0	68.1
WB-Cedar	Monsanto	57.7	66.8	59.9	82.3	71.1	69.7	66.7
Endurance	Okla. St.	56.5	63.4	65.8	70.3	68.0	66.5	64.0
TAM 401 (BL)	Texas A&M	46.7	58.2	57.2	86.7	72.0	67.4	62.2
TAM W-101	Texas A&M	50.3	59.3	71.9	66.5	69.2	65.9	62.0
SY Razor (BL)	Syngenta	49.2	57.2	61.7	75.3	68.5	64.7	60.8
TAM 114	Texas A&M		66.6	77.2	90.4	83.8	78.1	
TAM 204 (BL)	Texas A&M		72.9	72.2	87.4	79.8	77.5	
<b>T158‡</b>	Limagrain		66.9	75.2	85.2	80.2	75.8	
Everest	Kansas St.		67.2	57.8	71.9	64.9	65.6	
Ruby Lee	Okla. St.		59.7	61.7	71.7	66.7	64.4	
SY Llano	Syngenta		57.5	50.1	78.7	64.4	62.1	
WB-Grainfield	Monsanto			77.3	91.4	84.4		
TX08A001249	Texas A&M			82.0	84.2	83.1		
LCS Mint	Limagrain			80.4	83.7	82.0		
SY Monument	Syngenta			73.5	89.8	81.7		
WB-4458	Monsanto			76.0	84.1	80.0		
PlainsGold Denali	Colo. St.			82.3	75.5	78.9		
TX09A001194	Texas A&M			75.6	78.6	77.1		
SY Drifter	Syngenta			70.1	80.8	75.5		
TX09D1172	Texas A&M			77.4	72.9	75.1		
PlainsGold Brawl CL Plus	Colo. St.			72.7	76.9	74.8		
LCS Wizard	Limagrain			77.0	72.5	74.8		
PlainsGold Byrd	Colo. St.			74.5	67.9	71.2		
WB-Redhawk	Monsanto			61.9	72.0	66.9		
Bentley (OK09125)	Okla. St.				89.0			
05BC041-10-10	Syngenta				89.0			
Gallagher	Okla. St.				87.9			
AP11T1409	Syngenta				82.3			
KanMark	Kansas St.				81.4			
Doublestop CL	Okla. St.				79.3			
Avg. yield, varieties in this report		58.3	65.5	71.5	80.3	75.9	72.4	68.9
Individual year trial avg. (all entries)		57.9	65.0	70.7	80.3	75.5	72.0	68.5
Average yield of Pick varieties		63.4	69.4	74.5	80.3	77.4	74.7	71.9
Average yield of non-Pick varieties		56.7	64.1	69.9	80.3	75.1	71.4	67.7
<b>Yield increase of Pick varieties</b>		12%	8%	7%	0%	3%	5%	7%
# of test sites per reporting period		6	5	3	4	7	12	18
# of entries		39	40	40	40	34	21	15

†Varieties in bold print indicate irrigated Pick varieties (full, limited, or both).

BL = Beardless

‡TAM 111 & 112 and T-158 not a Pick for full irrigation; §TAM 304 Picked for full irrigation only.

**Table 5.** Multi-year dryland wheat variety trial yields, 2011-2012 & 2014-2015, Texas & NM High Plains.

Variety†	Source	2011	2012	2014	2015	2-Year	3-Year	4-Year
		Annual Bushels per Acre Average				Multi-year Bu/A Average		
Winterhawk	Monsanto	23.6	40.1	21.5	36.4	29.0	32.7	30.4
Iba	Okla. St.	25.1	37.9	18.6	35.8	27.2	30.8	29.4
TAM 112	Texas A&M	25.9	36.5	21.1	32.7	26.9	30.1	29.0
Duster	Okla. St.	22.1	35.9	23.1	34.4	28.7	31.1	28.9
WB-Cedar	Monsanto	20.6	40.7	17.4	35.5	26.4	31.2	28.5
Greer	Syngenta	21.7	36.4	20.5	33.7	27.1	30.2	28.1
PlainsGold Hatcher	Colo. St.	23.4	33.9	22.2	31.7	26.9	29.3	27.8
TAM 304	Texas A&M	20.9	39.2	15.2	35.5	25.4	30.0	27.7
TAM 111	Texas A&M	22.0	37.0	16.6	35.2	25.9	29.6	27.7
TAM 113	Texas A&M	25.9	36.1	15.7	32.5	24.1	28.1	27.6
Endurance	Okla. St.	22.7	37.5	14.9	33.2	24.1	28.5	27.1
TAM 305	Texas A&M	21.1	32.5	14.7	38.8	26.7	28.6	26.8
TAM W-101	Texas A&M	21.4	30.2	19.8	32.2	26.0	27.4	25.9
SY Razor (BL)	Syngenta	19.4	32.4	14.6	35.2	24.9	27.4	25.4
TAM 401 (BL)	Texas A&M	18.6	31.0	13.4	38.3	25.8	27.5	25.3
TAM 204 (BL)	Texas A&M		39.2	20.2	36.7	28.5	32.0	
<b>T158</b>	Limagrain		37.3	22.1	34.0	28.1	31.1	
TAM 114	Texas A&M		36.4	23.7	33.1	28.4	31.1	
Ruby Lee	Okla. St.		39.4	17.0	33.4	25.2	29.9	
Everest	Kansas St.		36.1	16.0	32.4	24.2	28.2	
SY Llano	Syngenta		32.4	12.7	37.6	25.1	27.6	
TX09A001194	Texas A&M			26.5	39.2	32.9		
WB-Grainfield	Monsanto			26.3	38.6	32.4		
LCS Mint	Limagrain			29.4	34.8	32.1		
PlainsGold Denali	Colo. St.			30.7	33.4	32.0		
TX09D1172	Texas A&M			27.1	36.9	32.0		
TX08A001249	Texas A&M			26.6	36.7	31.7		
SY Monument	Syngenta			25.1	34.8	30.0		
PlainsGold Brawl CL Plus	Colo. St.			25.2	33.7	29.4		
WB-4458	Monsanto			23.7	34.8	29.3		
PlainsGold Byrd	Colo. St.			22.9	32.5	27.7		
LCS Wizard	Limagrain			19.0	34.8	26.9		
WB-Redhawk	Monsanto			20.4	33.0	26.7		
SY Drifter	Syngenta			18.1	34.1	26.1		
Bentley (OK09125)	Okla. St.				37.4			
Gallagher	Okla. St.				36.1			
05BC041-10-10	Syngenta				35.4			
Doublestop CL	Okla. St.				34.0			
KanMark	Kansas St.				32.8			
AP11T1409	Syngenta				31.9			
Avg. yield, varieties in this report		22.3	36.1	20.6	34.8	27.7	30.5	28.5
Individual year trial avg. (all entries)		21.5	35.1	20.2	34.8	27.5	30.0	27.9
Average yield of Pick varieties		24.5	37.5	19.3	34.4	26.9	30.4	28.9
Average yield of non-Pick varieties		21.0	34.7	20.4	34.9	27.6	30.0	27.7
<b>Yield increase of Pick varieties</b>		17%	8%	-5%	-1%	-3%	0%	5%
# of test sites per reporting period		7	3	1	5	6	9	16
# of entries		39	40	40	40	34	21	15

†Varieties in bold print indicate dryland Pick varieties.

BL = Beardless

**Table 6.** Multi-year irrigated wheat trial test weights, 2011-2012 & 2014-2015, Texas & NM High Plains.

Variety†	Source	2011	2012	2014	2015	2-Year	3-Year	4-Year
		Annual Bushels per Acre Average				Multi-year Bu/A Average		
<b>Winterhawk</b>	Monsanto	60.4	60.1	59.8	60.8	60.3	60.3	60.3
<b>Iba</b>	Okla. St.	61.0	60.0	59.9	59.9	59.9	59.9	60.2
<b>TAM 113</b>	Texas A&M	61.2	59.0	59.6	59.6	59.6	59.4	59.9
SY Razor (BL)	Syngenta	59.2	58.7	60.0	60.7	60.4	59.8	59.7
<b>TAM 112‡</b>	Texas A&M	60.7	59.2	59.4	58.9	59.2	59.2	59.6
<b>TAM 111‡</b>	Texas A&M	59.9	59.8	60.4	58.0	59.2	59.4	59.6
Duster	Okla. St.	60.5	58.8	58.9	59.9	59.4	59.2	59.5
TAM 305	Texas A&M	59.8	59.1	58.5	60.1	59.3	59.2	59.4
PlainsGold Hatcher	Colo. St.	60.8	58.9	58.7	59.0	58.8	58.8	59.3
WB-Cedar	Monsanto	60.4	57.9	57.2	59.3	58.3	58.1	58.7
Endurance	Okla. St.	60.2	58.4	58.1	57.7	57.9	58.1	58.6
TAM W-101	Texas A&M	59.0	58.4	59.1	57.4	58.3	58.3	58.5
TAM 401 (BL)	Texas A&M	57.7	58.0	57.1	57.9	57.5	57.7	57.7
Greer	Syngenta	58.3	56.2	56.8	58.9	57.8	57.3	57.6
<b>TAM 304§</b>	Texas A&M	59.4	56.7	56.5	56.5	56.5	56.6	57.3
TAM 114	Texas A&M		60.4	60.0	60.8	60.4	60.4	
SY LLANO	Syngenta		58.8	59.6	60.7	60.1	59.7	
<b>T158‡</b>	Limagrain		59.1	58.9	59.5	59.2	59.2	
Ruby Lee	Okla. St.		58.7	58.5	59.3	58.9	58.8	
Everest	Kansas St.		57.4	58.4	60.0	59.2	58.6	
TAM 204 (BL)	Texas A&M		57.6	57.3	56.8	57.0	57.2	
TX08A001249	Texas A&M			60.1	60.1	60.1		
LCS Mint	Limagrain			59.8	60.2	60.0		
SY DRIFTER	Syngenta			59.3	60.6	60.0		
LCS Wizard	Limagrain			59.3	60.0	59.6		
PlainsGold Denali	Colo. St.			60.1	58.9	59.5		
WB-Grainfield	Monsanto			59.1	59.9	59.5		
TX09A001194	Texas A&M			60.3	58.7	59.5		
TX09D1172	Texas A&M			59.7	58.7	59.2		
PlainsGold Brawl CL Plus	Colo. St.			59.2	59.0	59.1		
WB-4458	Monsanto			58.2	59.5	58.8		
WB-Redhawk	Monsanto			58.7	58.1	58.4		
SY Monument	Syngenta			57.5	59.3	58.4		
PlainsGold Byrd	Colo. St.			59.1	56.9	58.0		
Doublestop CL	Okla. St.				60.5			
KanMark	Kansas St.				60.1			
Gallagher	Okla. St.				59.8			
Bentley (OK09125)	Okla. St.				59.1			
05BC041-10-10	Syngenta				59.0			
AP11T1409	Syngenta				58.2			
Avg. test wt., varieties in this report		59.9	58.6	58.9	59.2	59.1	58.9	59.2
Individual year trial avg. (all entries)		60.0	58.3	58.9	59.2	59.1	58.8	59.1
Average test wt. of Pick varieties		60.4	59.1	59.2	59.1	59.1	59.1	59.5
Average test wt. of non-Pick varieties		59.9	58.1	58.8	59.2	59.0	58.7	59.0
Test wt. increase of Pick varieties		1%	2%	1%	0%	0%	1%	1%
# of test sites per reporting period		5	5	3	4	7	12	17
# of entries		39	40	40	40	34	21	15

†Varieties in bold print indicate irrigated Pick varieties (full, limited, or both).

BL = Beardless

‡TAM 111 & 112 and T-158 not a Pick for full irrigation; §TAM 304 Picked for full irrigation only.



**Table 7.** Multi-year *dryland* wheat trial test weights, 2011-2012 & 2014-2015, Texas & NM High Plains.

Variety†	Source	2011	2012	2014	2015	2-Year	3-Year	4-Year
		Annual Pounds per Bushel Average				Multi-year Lbs./Bu Average		
<b>Iba</b>	Okla. St.	62.0	59.7	58.8	55.3	57.0	57.9	58.9
<b>TAM 113</b>	Texas A&M	62.1	58.3	59.0	54.9	57.0	57.4	58.6
<b>TAM 111</b>	Texas A&M	62.3	58.7	58.7	54.2	56.4	57.2	58.5
<b>TAM 112</b>	Texas A&M	61.5	58.7	58.6	54.4	56.5	57.2	58.3
SY Razor	Syngenta	60.1	58.3	58.0	56.8	57.4	57.7	58.3
<b>Winterhawk</b>	Monsanto	56.2	59.9	58.5	56.8	57.7	58.4	57.9
PlainsGold Hatcher	Colo. St.	61.6	56.4	57.2	54.9	56.1	56.2	57.5
Duster	Okla. St.	61.2	57.9	56.8	53.8	55.3	56.2	57.4
TAM 305	Texas A&M	59.5	57.2	56.7	55.3	56.0	56.4	57.2
TAM W-101	Texas A&M	59.5	57.2	57.0	54.9	55.9	56.4	57.1
Endurance	Okla. St.	60.9	56.4	56.4	52.8	54.6	55.2	56.6
Greer	Syngenta	58.3	53.4	55.9	53.5	54.7	54.3	55.3
TAM 401	Texas A&M	58.1	54.5	55.1	53.1	54.1	54.3	55.2
WB-Cedar	Monsanto	58.8	55.7	54.4	51.8	53.1	54.0	55.2
TAM 304	Texas A&M	59.8	53.3	55.0	52.1	53.6	53.5	55.1
TAM 114	Texas A&M		57.9	58.3	56.5	57.4	57.6	
SY Llano	Syngenta		56.7	58.6	56.2	57.4	57.2	
Ruby Lee	Okla. St.		57.7	57.6	55.9	56.7	57.1	
Everest	Kansas St.		56.9	56.2	55.0	55.6	56.0	
<b>T158</b>	Limagrain		56.6	57.1	54.2	55.6	56.0	
TAM 204 (BL)	Texas A&M		55.7	55.7	53.4	54.5	54.9	
TX08A001249	Texas A&M			59.5	56.8	58.2		
TX09A001194	Texas A&M			59.4	56.1	57.8		
PlainsGold Denali	Colo. St.			59.4	56.0	57.7		
LCS Mint	Limagrain			58.9	55.7	57.3		
PlainsGold Brawl CL Plus	Colo. St.			58.0	56.4	57.2		
TX09D1172	Texas A&M			58.9	55.4	57.1		
PlainsGold Byrd	Colo. St.			57.2	56.2	56.7		
SY Drifter	Syngenta			58.4	54.8	56.6		
LCS Wizard	Limagrain			57.5	55.1	56.3		
SY Monument	Syngenta			57.0	55.0	56.0		
WB-Grainfield	Monsanto			57.8	53.5	55.6		
WB-4458	Monsanto			57.0	54.1	55.5		
WB-Redhawk	Monsanto			57.0	53.3	55.2		
Doublestop CL	Okla. St.				55.5			
KanMark	Kansas St.				55.4			
Gallagher	Okla. St.				54.4			
Bentley (OK09125)	Okla. St.				53.7			
05BC041-10-10	Syngenta				53.3			
AP11T1409	Syngenta				52.8			
Avg. test wt., varieties in this report		60.1	57.0	57.5	54.7	56.1	56.4	57.3
Individual year trial avg. (all entries)		60.2	56.8	58.9	54.7	57.9	58.6	58.6
Average test wt. of Pick varieties		60.8	58.7	58.5	55.0	56.7	57.4	58.2
Average test wt. of non-Pick varieties		60.1	56.5	59.0	54.7	56.8	56.7	57.6
Test wt. increase of Pick varieties		1%	4%	-1%	0%	0%	1%	1%
# of test sites per reporting period		7	3	1	5	6	9	16
# of entries		39	40	40	40	34	21	15

†Varieties in bold print indicate dryland Pick varieties.

BL = Beardless



