

2017 Hill County Preliminary Report: Wheat



Preliminary Data Compiled by:

Zach Davis, County Extension Agent – Agriculture & Natural Resources

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Trade names of commercial products used in this report are included only for better understanding and clarity.

Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas A&M University is implied.

Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

August 23, 2017

Der Producers,

This preliminary report contains information on applied research in wheat conducted over the past growing season. It is always good to review several years of data before making conclusions, especially when considering strip trial data as conditions may vary across a field.

Also included are data from the Blackland Region to offer additional information. Please visit the website varietytesting.tamu.edu for more information on wheat and additional crops.

Results from our replicated trials include a statistical analysis. Significant differences among data means will be marked with a letter. Means that are not significantly different are considered equal; i.e. the difference in their values is because of random chance and not because of variety differences or trial variables.

We would like to thank all of the producers that cooperated with the Texas A&M AgriLife Extension Service on these trials. We truly could not do our work without the help of Hill County producers. Please do not hesitate to contact us with any questions or comments.

Sincerely,



Zach Davis, CEA-AG/NR
Hill County



Xandra Morris, EA-IPM
Hill/McLennan Counties

Demonstration: 2017 Hill County Hill County Hard Red Winter Wheat – Uniform Variety Trial

Cooperator's Name and Location: P & M Farms, Abbott, TX
Dr. Clark Neely, State Small Grains Specialist
Daniel Hathcoat, Extension Program Specialist

The 2017 Hill County Wheat Uniform Variety Trial was abandoned due to poor stands. The trial was established on October 31, 2017. Within a few days of planting, we received in the neighborhood of 2.75 inches of rain, causing poor stands in the trial.

2017 Wheat Variety Trial: HRWW, Ennis, TX

Rank	Variety		Yield (bu/a)			Test Wt (lb/bu)
			3-Year [‡]	2-Year	2017	2017
1	WB Cedar (60 lb/a)	Monsanto	68.7	58.0	58.0	58.8
2	TAM 305	TAMU	65.8	61.6	64.4	59.8
3	TAM 304	TAMU	64.6	58.8	54.6	56.9
4	Gallagher	OSU	64.1	53.9	55.5	60.2
5	Iba	OSU	63.4	57.6	47.7	59.8
6	TAM 401	TAMU	60.1	50.0	51.2	57.2
7	TAM 114	TAMU	59.8	51.4	37.9	59.4
8	Doans	Syngenta	59.3	56.2	52.8	62.3
9	Greer	Syngenta	59.0	49.0	44.8	56.4
10	Duster	OSU	55.2	55.3	52.6	58.7
11	Fannin	Syngenta	54.8	48.2	40.6	60.2
12	TAM 204	TAMU	54.1	40.4	26.8	54.9
13	TAM W-101	TAMU	44.9	39.6	36.3	58.6
14	WB 4458	Monsanto		54.1	47.3	60.2
15	WB 4269	Monsanto			67.7	59.6
16	CPLN 69-19*	Croplan			64.4	60.5
17	WB Cedar/Billings	Blend			62.5	59.7
18	WB Cedar (120 lb/a)	Monsanto			60.5	58.8
19	TAM 304/TAM 305	Blend			59.2	59.1
20	WB Cedar (90 lb/a)	Monsanto			58.1	58.9
21	SY Llano	Syngenta			57.4	61.9
22	Zenda	KSU			57.3	61.1
23	TX11A001295*	TAMU			57.0	61.9
24	Gallagher/Iba	Blend			55.6	60.3
25	WB Cedar (30 lb/a)	Monsanto			53.5	58.7
26	SY Drifter	Syngenta			50.8	61.1
27	TX12M4068*	TAMU			50.3	59.8
28	SY Southwind	Syngenta			45.4	58.8
29	WB 4515	Monsanto			44.8	61.5
30	SY Rugged	Syngenta			44.7	59.3
31	WB 4303	Monsanto			40.2	56.1
32	SY Grit	Syngenta			37.3	58.9
33	LCS Pistol	Limagrain			37.0	59.7
34	Underwood	Dyna-Gro			35.8	58.8
35	WB Grainfield	Monsanto			35.0	57.5
36	SY Flint	Syngenta			32.7	60.2
37	PGX 16-21*	Progeny			31.2	58.3
38	LCS Mint	Limagrain			28.7	60.5
39	T158	Limagrain			27.9	57.5
40	Bentley	OSU			25.6	58.4
	LSD		5.0	5.1	6.6	1.0
	CV		8.9	8.5	8.6	1.0
	Mean		59.5	52.4	47.3	59.3

*Experimental breeding line

[†]Varieties ranked according to 3-year, 2-year, then 2017 yield averages.

[‡]3-year average based on 2014, 2016, and 2017.

2017 Wheat Variety Trial: HRWW, McGregor, TX

Rank	Variety		Yield [†] (bu/a)				Test Wt (lb/bu)
			4-Year [‡]	3-Year	2-Year	2017	2017
1	WB Cedar (60 lb/a)	Monsanto	47.3	43.4	37.4	19.3	55.9
2	Gallagher	OSU	45.5	44.0	40.8	24.2	58.1
3	Greer	Syngenta	41.9	42.8	35.3	14.4	–
4	Doans	Syngenta	41.4	41.3	37.5	20.9	58.8
5	TAM 401	TAMU	40.4	43.7	40.9	18.6	47.4
6	TAM 304	TAMU	40.3	40.3	37.2	26.6	57.6
7	lba	OSU	40.0	37.2	27.6	16.3	50.6
8	Duster	OSU	39.3	39.1	30.9	27.2	58.9
9	TAM 114	TAMU	37.5	36.7	26.2	2.9	–
10	TAM 305	TAMU	36.5	36.6	33.1	18.7	55.1
11	TAM 204	TAMU	36.5	35.4	27.0	15.0	47.7
12	Fannin	Syngenta	34.6	32.7	31.7	21.2	58.7
13	TAM W-101	TAMU	20.3	21.1	10.7	3.5	–
14	WB 4458	Monsanto		45.4	42.6	20.6	56.0
15	SY Llano	Syngenta			41.4	31.9	62.3
16	WB Cedar (90 lb/a)	Monsanto			41.2	23.7	57.6
17	WB 4303	Monsanto			39.8	25.4	57.0
18	TAM 304/TAM 305	Blend			38.4	20.1	56.3
19	WB Cedar (30 lb/a)	Monsanto			36.1	18.3	44.3
20	Bentley	OSU			32.1	12.4	–
21	SY Grit	Syngenta			31.9	13.2	–
22	SY Southwind	Syngenta			30.2	6.0	–
23	WB 4515	Monsanto			25.2	17.6	52.4
24	SY Drifter	Syngenta			23.7	12.2	–
25	Underwood	Dyna-Gro			23.6	9.6	–
26	T158	Limagrain			20.1	4.8	–
27	LCS Mint	Limagrain			17.3	10.0	–
28	WB Grainfield	Monsanto			16.0	7.9	–
29	LCS Pistol	Limagrain			13.8	3.8	–
30	Gallagher/lba	Blend				33.3	59.4
31	Zenda	KSU				29.0	60.4
32	WB 4269	Monsanto				26.7	58.0
33	TX12M4068*	TAMU				24.8	59.0
34	SY Rugged	Syngenta				21.7	58.4
35	WB Cedar/Billings	Blend				20.3	57.5
36	WB Cedar (120 lb/a)	Monsanto				19.7	55.1
37	TX11A001295*	TAMU				12.2	–
38	SY Flint	Syngenta				12.1	–
39	CPLN 69-19*	Croplan				10.6	–
40	PGX 16-21*	Progeny				8.9	–
	LSD		3.6	4.2	5.0	5.0	2.4
	CV		10.8	10.9	12.9	14.2	1.9
	Mean		38.6	38.5	30.6	17.0	55.7

*Experimental breeding line

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2017 yield averages.

[‡]4-year average based on 2012, 2014, 2016, and 2017.

Demonstration: 2017 Hill County Wheat Nitrogen Rates X Nitrogen Stabilizer Study – Replicated

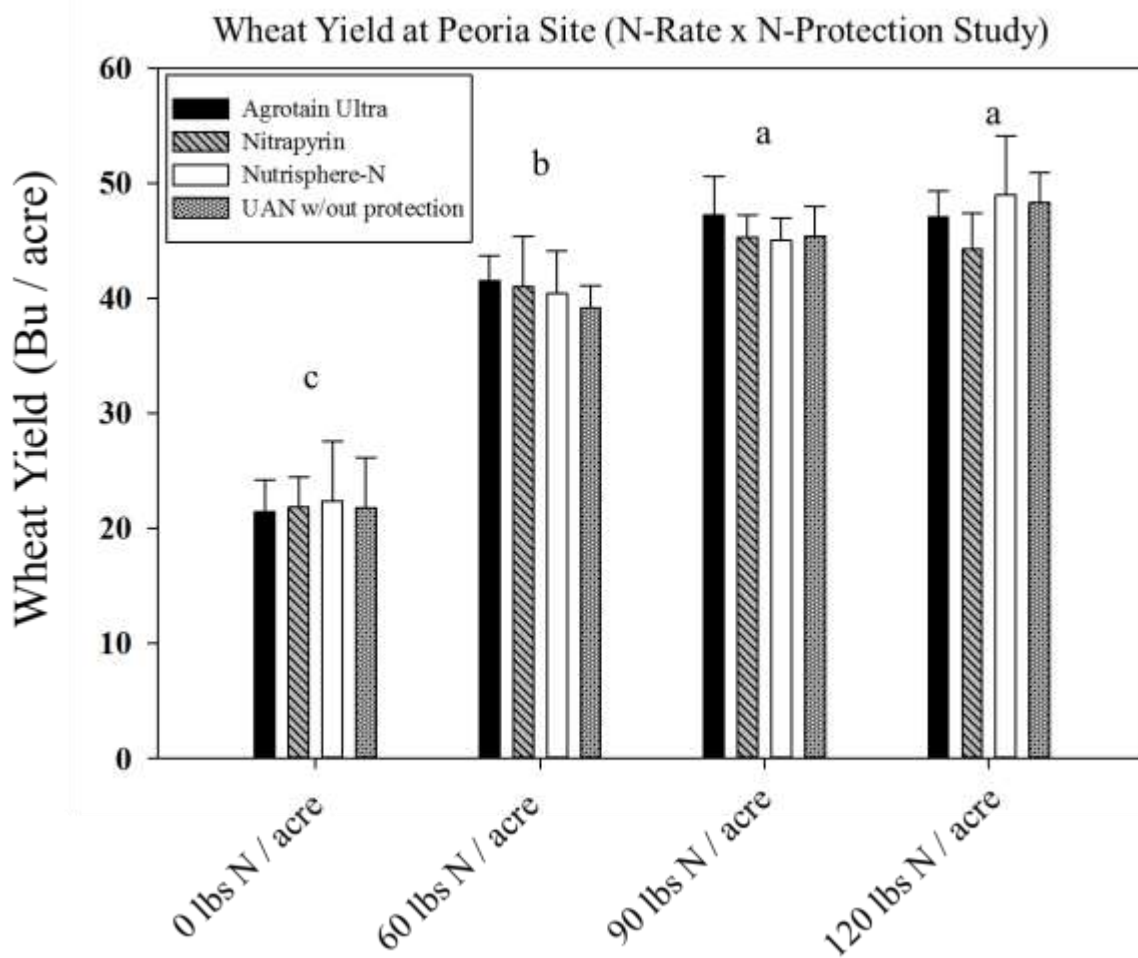
Cooperator’s Name and Location: Albert Sulak, Peoria, TX

Dr. Jake Mowrer, Extension Specialist - Soil Nutrient and Water Resource Management

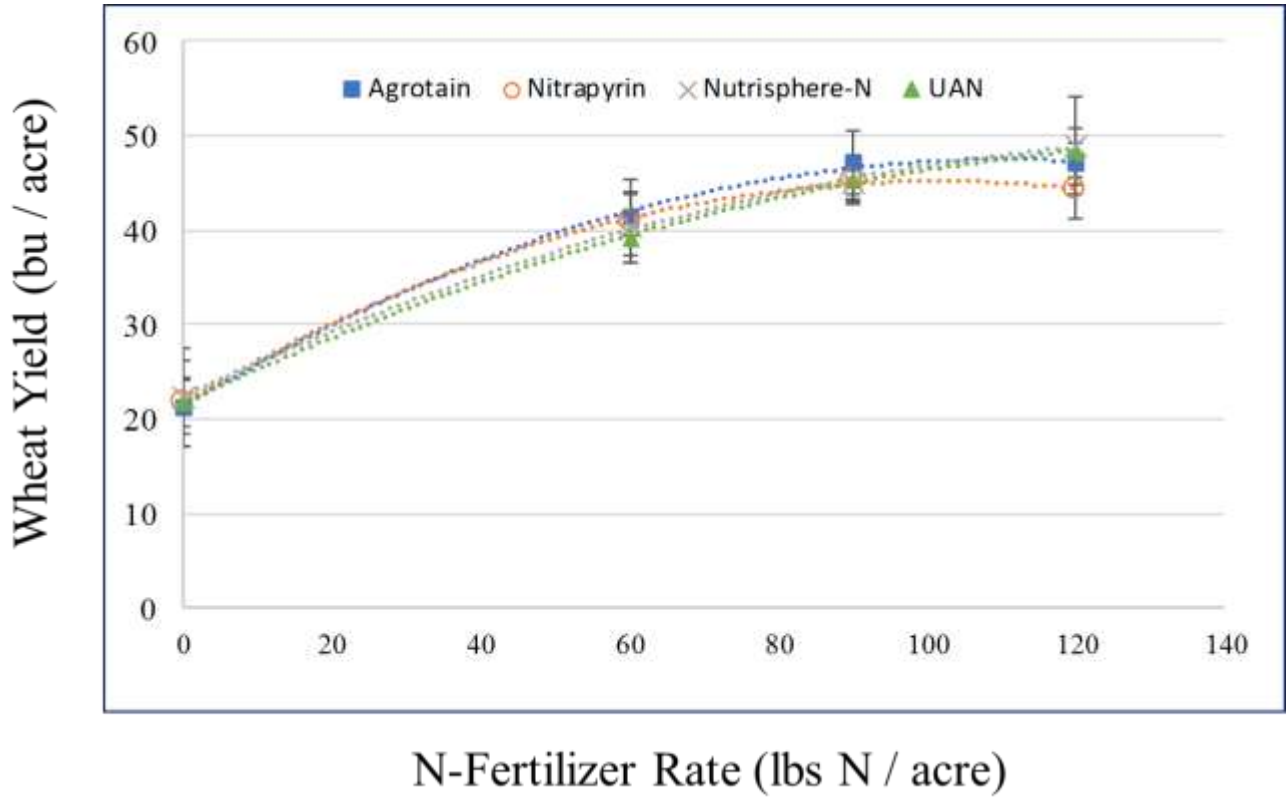
Dennis Coker, Extension Program Specialist II – Soil Fertility

Dr. Clark Neely, State Small Grains Specialist

Daniel Hathcoat, Extension Program Specialist



Wheat yield results were significantly different for rate of N fertilizer application. 90 lbs and 120 lbs N per acre performed similarly. 60 lbs per acre rate resulted in a lower yield than the higher rates but still performed much better than wheat receiving no N fertilizer. ***The effect of adding products to the UAN fertilizer to chemically stabilize or protect the N fertilizer investment did not result in any differences in yield, regardless of chemistry.***



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