

Inside this issue:

<i>General Area Crop Progress</i>	1
<i>Wheat Rust Situation</i>	2
<i>Wheat Fungicide Trials 2021 Greenville, TX</i>	3-5
<i>Wheat Fungicide Trial 2019 Howe, TX</i>	6-7
<i>Auxin Training Flyer</i>	8
<i>Wheat Field Day Fliers Greenville & Howe</i>	9-10
<i>Calendar of Events</i>	11

General Area Crop Progress

Corn planting is almost finished in our area, the last portion was delayed due to wet conditions. Soybeans are the focus at the moment and it appears that the soybean acreage will be up in our area. Wheat is progressing with the earliest planted fields near heading. Several wheat fields have been severely damaged by Hessian fly. Damage is greatest in fields that were following wheat, or adjacent to wheat fields or wheat stubble, planted to a Hessian fly susceptible variety, and planted earlier. The warm dry winter was favorable for fly emergence and infestation of seedling wheat. Both larvae and pupa or flax seeds are being found at the base of tillers. Some pictures are below. Unfortunately, nothing can be done to control the fly now.



Figure 1. Hessian Fly Stunted Wheat Field, left; tillers with pupa and larvae, right. Hunt County, TX 2022

Wheat fields need to be monitored for foliar disease as the flag leaf is out and may benefit from a fungicide application depending on variety, conditions, and disease is identified the area. The risk at this point is low to moderate. On pages 3-7 are the results of previous years fungicide trials on susceptible varieties and the profitability trial showing that not all varieties benefit from a fungicide application with increased yield and/or test weight.

Dates and locations for Wheat Field Days 2022 are below.

May 2nd pm Ellis Co.

May 4th am Greenville, TX

May 4th pm Cooke Co.

May 6th am Howe, TX

There will be an Auxin Specific training in Paris, TX on April 27th.

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Wheat Fungicide 2022—To Apply or Not Apply.

Seasonal Disease Risk—Stripe Rust in Northeast Texas is low but can be found in the old susceptible varieties used as disease spreaders in our rust trials but is not in the current varieties. Stripe rust has been reported south of us but the dry winter and the forecast of lingering dry and warm conditions do not favor major spore migration north. Leaf Rust—has not been observed in Northeast Texas and the afore mentioned weather conditions apply.

Resistant Varieties—The annual Fungicide Profitability studies show our common varieties with and without an inexpensive fungicide application. Even in 2021 a very severe Stripe Rust year there were still a few varieties that did not benefit from a fungicide application. Many others showed a benefit so in a decision to apply a fungicide the variety matters.

Timing and Product Selection—Research results from the stripe rust and leaf rust nurseries show some advantages of products with multiple modes of action and split applications in severe rust years. There were also trial years with low disease that showed no differences. The good news is that there are lots of options and almost all products showed some benefits so an application can give “peace of mind” that a crop is protected. Fungicide applications may go on through flowering and in certain years a later application may provide additional benefit for glume blotch and Fusarium head scab.

Summary— A fungicide can only protect a crop from further loss so the current stand and agronomic condition should be evaluated before spending more money on a crop. A field planted to a variety with a highly resistant disease rating is more valuable if it reduces input costs by not needing crop protection products. See that next pages for Trial Data. Pay special attention to the disease ratings of each variety for Stripe rust and Leaf rust. Trials from 2021 are presented to highlight a heavy Stripe rust year and 2019 to highlight a heavy Leaf rust year.

Below active Stripe Rust on a leaf from April 2020



2021 Wheat Fungicide Profitability Study. Greenville, TX (Northeast Texas Agricultural Research and Extension Farm)

VARIETY/TREATMENT ¹	Yield‡	Yield Increase over Unsprayed	Test Weight	Test Weight Increase over Unsprayed	Stripe Rust Infection on Flag Leaf
	bu/ac	Bu/ac	lb/bu	Lb/bu	% DAT ² ¹⁹
Dyna-Gro 9002 – <i>Sprayed</i>	65.3 a-d	NI ³	54.8 fgh	0.4	0.0 a
Dyna-Gro 9811 – <i>Sprayed</i>	64.7 a-d	7.8	54.1 h-l	0.4	0.0 a
Pioneer 25R40 – <i>Sprayed</i>	66.7 abc	1.3	54.8 fgh	0.2	0.0 a
Blackland 1812 – <i>Sprayed</i>	62.2 c-f	0.4	53.6 lmn	0.0	0.0 a
USG 3536 – <i>Sprayed</i>	59.6 c-g	0.7	54.0 i-m	NI ³	0.0 a
USG 3895 – <i>Sprayed</i>	69.8 ab	5.0	53.9 i-m	0.7	0.0 a
USG 3329 – <i>Sprayed</i>	66.0 a-d	2.4	53.6 k-n	0.5	0.0 a
AGS 2024 – <i>Sprayed</i>	56.0 fgh	16.4	56.0 cde	3.2	0.0 a
AGS 2038 – <i>Sprayed</i>	55.5 fgh	NI ³	56.2 cd	0.5	0.0 a
AGS 2055 – <i>Sprayed</i>	65.2 a-d	8.3	53.9 j-n	1.5	0.0 a
Go Wheat GW 2032 – <i>Sprayed</i>	61.7 c-f	9.2	55.3 efg	0.8	0.0 a
Go Wheat GW 6000 – <i>Sprayed</i>	71.4 a	6.4	55.8 de	0.4	0.0 a
Monsanto WB-4303 (<i>HRWW</i>) – <i>Sprayed</i>	51.7 h	21.5	53.2 m-p	4.9	0.0 a
Monsanto WB-4418 (<i>HRWW</i>) – <i>Sprayed</i>	52.8 gh	20.8	55.5 ef	2.9	0.0 a
Monsanto WB-4699 (<i>HRWW</i>) – <i>Sprayed</i>	52.7 gh	16.2	54.5 hij	4.0	0.0 a
TAM 114 (<i>HRWW</i>) – <i>Sprayed</i>	61.1 c-f	4.5	56.6 bc	0.0	0.0 a
TAM 205 (<i>HRWW</i>) – <i>Sprayed</i>	60.3 c-f	8.5	57.8 a	0.6	0.0 a
Syngenta Monument (<i>HRWW</i>) – <i>Sprayed</i>	52.8 gh	16.9	54.2 h-l	2.5	0.0 a
Dyna-Gro 9002 - <i>Unsprayed</i>	66.0 a-d		54.4 h-k		10.0 b
Dyna-Gro 9811 – <i>Unsprayed</i>	56.9 e-h		53.7 j-n		0.0 a
Pioneer 25R40 – <i>Unsprayed</i>	65.4 a-d		54.6 ghi		0.0 a
Blackland 1812 – <i>Unsprayed</i>	61.8 c-f		53.6 l-o		0.0 a
USG 3536 – <i>Unsprayed</i>	58.9 d-h		54.3 h-l		0.0 a
USG 3895 – <i>Unsprayed</i>	64.8 a-d		53.2 m-p		0.0 a
USG 3329 – <i>Unsprayed</i>	63.6 b-e		53.1 n-q		0.0 a
AGS 2024 – <i>Unsprayed</i>	39.6 i		52.8 opq		76.7 e
AGS 2038 – <i>Unsprayed</i>	62.1 c-f		55.7 de		4.5 ab
AGS 2055 – <i>Unsprayed</i>	56.9 e-h		52.4 qr		31.7 c
Go Wheat GW 2032 – <i>Unsprayed</i>	52.5 gh		54.5 hij		28.3 c
Go Wheat GW 6000 – <i>Unsprayed</i>	65.0 a-d		55.4 ef		0.0 a
Monsanto WB-4303 (<i>HRWW</i>) – <i>Unsprayed</i>	30.2 j		48.3 t		78.3 e
Monsanto WB-4418 (<i>HRWW</i>) – <i>Unsprayed</i>	32.0 j		52.6 pq		53.3 d
Monsanto WB-4699 (<i>HRWW</i>) – <i>Unsprayed</i>	36.5 ij		50.5 s		31.7 c
TAM 114 (<i>HRWW</i>) – <i>Unsprayed</i>	56.6 e-h		56.6 bc		7.5 ab
TAM 205 (<i>HRWW</i>) – <i>Unsprayed</i>	51.8 h		57.2 ab		33.3 c
Syngenta Monument (<i>HRWW</i>) – <i>Unsprayed</i>	35.9 ij		51.7 r		33.3 c
<i>LSD (P = .05)</i>	7.43		0.76		8.09
<i>CV (%)</i>	11.44		1.23		65.76
GRAND MEAN	57.00		54.23		10.80

¹TREATMENT: TebuStar® 3.6 L @ 4 fl.oz/A + NIS @ 0.25% v/v applied April 8, 2021

²DAT – Days After Treatment

³NI – No Increase

†Ranked According to Variety/Treatment Entry Order

‡Yield Adjusted to 13% Standard Moisture

2021 Wheat Fungicide Profitability Study. Greenville, TX (Northeast Texas Agricultural Research and Extension Farm)

VARIETY/TREATMENT ¹	Stripe Rust Infection on Flag Leaf	Leaf Rust Infection on Flag Leaf	Yield [‡]	Yield Increase over Unsprayed	Test Weight	Test Weight Increase over Unsprayed
	% - 25 DAT ²	% - 40 DAT ²	bu/ac	Bu/ac	lb/bu	Lb/bu
Dyna-Gro 9002 – <i>Sprayed</i>	0.0 a	0.0 a	X ³	----	X ³	----
Dyna-Gro 9811 – <i>Sprayed</i>	0.0 a	0.0 a	X ³	----	X ³	----
Pioneer 25R40 – <i>Sprayed</i>	0.0 a	0.0 a	37.4 cde	1.5	54.1 abc	0.4
Blackland 1812 – <i>Sprayed</i>	0.0 a	0.0 a	32.3 ghi	1.3	52.9 bc	0.6
USG 3536 – <i>Sprayed</i>	0.0 a	0.0 a	33.6 e-i	1.0	51.8 cd	0
USG 3895 – <i>Sprayed</i>	0.0 a	0.0 a	33.4 e-i	2.9	52.9 bc	0
USG 3329 – <i>Sprayed</i>	0.0 a	0.0 a	39.2 bc	5.5	51.9 cd	0
AGS 2024 – <i>Sprayed</i>	0.0 a	0.0 a	X ³	----	X ³	----
AGS 2038 – <i>Sprayed</i>	0.0 a	0.0 a	35.3 c-h	0.5	56.9 a	3.2
AGS 2055 – <i>Sprayed</i>	0.0 a	0.0 a	31.3 hi	5.9	53.6 abc	2.3
Go Wheat GW 2032 - <i>Sprayed</i>	0.0 a	0.0 a	X ³	----	X ³	----
Go Wheat GW 6000 - <i>Sprayed</i>	0.0 a	0.0 a	36.2 c-g	0	54.3 abc	0
Monsanto WB-4303 (<i>HRWW</i>) – <i>Sprayed</i>	0.0 a	0.0 a	X ³	----	X ³	----
Monsanto WB-4418 (<i>HRWW</i>) – <i>Sprayed</i>	0.0 a	0.0 a	X ³	----	X ³	----
Monsanto WB-4699 (<i>HRWW</i>) – <i>Sprayed</i>	0.0 a	0.0 a	26.0 jk	17.7	46.4 e	17.3
TAM 114 (<i>HRWW</i>) – <i>Sprayed</i>	0.0 a	0.0 a	50.0 a	8.2	55.8 ab	4.5
TAM 205 (<i>HRWW</i>) – <i>Sprayed</i>	0.0 a	0.0 a	38.1 bcd	11.9	53.3 abc	1.5
Syngenta Monument (<i>HRWW</i>) – <i>Sprayed</i>	0.0 a	0.0 a	33.0 f-i	11.3	54.1 abc	5.3
Dyna-Gro 9002 – <i>Unsprayed</i>	21.7 c	8.8 c	11.1 mn		41.8 i	
Dyna-Gro 9811 – <i>Unsprayed</i>	8.3 b	5.8 abc	9.7 no		35.9 j	
Pioneer 25R40 – <i>Unsprayed</i>	11.7 b	22.5 de	35.9 c-g		53.7 abc	
Blackland 1812 – <i>Unsprayed</i>	0.0 a	20.0 d	31.0 hi		52.3 bcd	
USG 3536 – <i>Unsprayed</i>	0.0 a	6.3 bc	32.6 f-i		52.4 bcd	
USG 3895 – <i>Unsprayed</i>	0.0 a	0.8 ab	30.5 i		54.3 abc	
USG 3329 – <i>Unsprayed</i>	0.0 a	65.0 f	33.7 e-i		54.2 abc	
AGS 2024 – <i>Unsprayed</i>	88.3 i	0.0 a	5.9 p		21.1 l	
AGS 2038 – <i>Unsprayed</i>	0.0 a	0.0 a	34.8 d-h		53.7 abc	
AGS 2055 – <i>Unsprayed</i>	33.3 de	0.0 a	25.4 jk		51.3 cd	
Go Wheat GW 2032 – <i>Unsprayed</i>	43.3 fg	0.0 a	24.0 kl		49.3 d-g	
Go Wheat GW 6000 – <i>Unsprayed</i>	0.0 a	27.5 e	36.6 c-f		54.4 abc	
Monsanto WB-4303 (<i>HRWW</i>) – <i>Unsprayed</i>	68.3 h	7.5 c	4.7 pq		16.2 m	
Monsanto WB-4418 (<i>HRWW</i>) – <i>Unsprayed</i>	31.7 de	0.0 a	1.3 q		4.8 n	
Monsanto WB-4699 (<i>HRWW</i>) – <i>Unsprayed</i>	36.7 ef	0.0 a	8.3 l		29.1 f	
TAM 114 (<i>HRWW</i>) – <i>Unsprayed</i>	10.0 b	70.0 f	41.8 b		51.3 cd	
TAM 205 (<i>HRWW</i>) – <i>Unsprayed</i>	46.7 g	0.0 a	26.2 j		51.8 cd	
Syngenta Monument (<i>HRWW</i>) – <i>Unsprayed</i>	26.7 cd	0.0 a	21.7 k		48.8 de	
<i>LSD (P = .05)</i>	7.30	6.17	4.26		3.65	
<i>CV (%)</i>	54.07	67.7	11.4		6.16	
<i>GRAND MEAN</i>	11.85	6.50	32.68		51.87	

¹TREATMENT: TebuStar® 3.6 L @ 4 fl.oz/A + NIS @ 0.25% v/v applied April 8, 2021

²DAT – Days After Treatment

³NI – No Increase

†Ranked According to Variety/Treatment Entry Order

‡Yield Adjusted to 13% Standard Moisture

21-07. 2020-21 Wheat @ Greenville, TX (Northeast Texas Agricultural Research Farm)
Stripe Rust Fungicide Comparison Study

Table 1 MEAN Comparison Table†					
TREATMENTS ¹	Yield‡	Test Weight	Stripe Rust Flag Leaf Infection ²	Thousand Kernel Weight	
	bu/ac	lb/bu	% 5/4/2021	grams	
Alto 100 SL @ 3 fl.oz/A (GS 5-7) fb Miravis Ace @ 13.7 fl.oz/A (GS 8-10.5)	72.1	58.4	1.0 ab	44.6 a-d	
Nexicor @ 9 fl.oz/A (GS 8-10.5)	72.0	57.9	22.0 ef	45.7 ab	
Topguard EQ @ 7 fl.oz/A (GS 8-10.5)	70.0	57.3	18.0 de	44.8 abc	
Nexicor @ 5 fl.oz/A (GS 5-7)	69.5	57.5	8.0 bc	43.3 cde	
Trivapro @ 9.5 fl.oz/A+ COC @ 1% v/v (GS 5-7) fb Trivapro @ 13.7 fl.oz/A + COC @ 1% v/v (GS 8-10.5)	69.5	57.7	0.0 a	44.7 a-d	
Trivapro @ 13.7 fl.oz/A + COC @ 1% v/v (GS 5-7)	69.4	57.5	1.0 ab	44.7 a-d	
Absolute Maxx @ 4 fl.oz/A (GS 8-10.5)	69.1	56.7	18.0 de	44.9 abc	
Alto 100 SL @ 4 fl.oz/A (GS 8-10.5)	68.9	55.1	18.0 de	43.1 de	
Miravis Ace @ 13.7 fl.oz/A (GS 8-10.5)	68.2	57.9	20.0 def	43.4 cde	
TebuStar 3.6 L @ 2 fl.oz/A (GS 5-7) fb TebuStar 3.6 L @ 2 fl.oz/A (GS 8-10.5)	68.2	57.4	0.0 a	43.4 cde	
Tilt 3.6 EC @ 4 fl.oz/A (GS 8-10.5)	68.1	56.8	20.0 def	44.2 bcd	
Nexicor @ 4.5 fl.oz/A (GS 5-7) fb Nexicor @ 4.5 fl.oz/A (GS 8-10.5)	67.5	57.0	0.0 a	46.1 a	
Alto 100 SL @ 4 fl.oz/A + Tilt 3.6 EC @ 4 fl.oz/A (GS 5-7)	67.2	56.5	2.0 ab	43.7 cd	
Trivapro @ 13.7 fl.oz/A + COC @ 1% v/v (GS 8-10.5)	67.2	57.5	14.0 cd	44.0 cd	
Trivapro @ 9.5 fl.oz/A+ COC @ 1% v/v (GS 5-7) fb Alto 100 SL @ 3 fl.oz/A (GS 8-10.5)	66.9	56.9	2.0 ab	43.5 cde	
TebuStar 3.6 L @ 4 fl.oz/A (GS 8-10.5)	66.9	57.2	26.0 fg	43.8 cd	
Stratego YLD @ 4 fl.oz/A (GS 8-10.5)	66.6	56.5	30.0 g	44.8 a-d	
Alto 100 SL @ 3 fl.oz/A (GS 5-7) fb Trivapro @ 13.7 fl.oz/A + COC @ 1% v/v (GS 8-10.5)	65.5	57.6	0.0 a	43.6 cd	
Priaxor @ 2 fl.oz/A (GS 5-7) fb Nexicor @ 7 fl.oz/A (GS 8-10.5)	64.7	57.0	0.0 a	43.6 cd	
Topguard EQ @ 5 fl.oz/A (GS 8-10.5)	64.4	57.3	15.0 cde	43.7 cd	
TebuStar 3.6 L @ 4 fl.oz/A (GS 5-7)	64.4	56.6	0.0 a	43.5 cde	
Lucento @ 5 fl.oz/A (GS 8-10.5)	63.7	56.7	26.0 fg	44.0 cd	
Untreated Check	60.7	55.9	60.0 h	41.8 e	
	LSD (P=.05)	6.34	1.72	7.33	1.70
	CV (%)	8.22	2.63	44.55	2.73
	GRAND MEAN	67.43	57.07	13.09	44.02

†Ranked according to Yield

‡Yield Adjusted to 13% Standard Moisture

¹Preference (NIS) @ 0.25% v/v added to treatments, unless indicated otherwise. COC (AgriDex)

²Scarring Only, no active pustules present

Application Data

April 2, 2021 applied "GS 5-7" Treatments; WIND: 6 mph SE, TEMP: 59°F, RH: 41%; no dew, sunshine; No disease; Wheat @ Feekes 9 (flag leaf fully emerged)

April 12, 2020 applied "GS 8-10.5" Treatments; WIND: 9 mph S, TEMP: 75°F, RH: 43%; no dew, partly cloudy; Disease present; Wheat @ Feekes 10-10.5

19-11. 2018-19 Wheat @ Howe, TX (Norman Farms, Cooperator)
Leaf Rust Fungicide Comparison Study

Table 1

MEAN Comparison Table

TREATMENTS ¹	Leaf Rust Infection Flag Leaf (%) 5/13/19	Leaf Rust Infection Flag Leaf (%) 5/23/19	Green Leaves ² (0-4) 5/23/2019	Yield 13% Moisture (bu/ac)	Test Weight (lb/bu)	Thousand Kernel Weight (grams)
Untreated Check	60.0 e	100.0 f	0.0 e	59.5 i	53.3 h	
Priaxor @ 2 oz/A (GS 5-7) fb Nexicor @ 7 oz/A (GS 8-10)	0.0 a	0.0 a	2.9 ab	84.9 ab	57.4 a	
Nexicor @ 7 oz/A (GS 8-10)	0.0 a	0.0 a	2.5 ab	81.5 a-e	56.8 a-e	
BAS 751 @ 7 oz/A (GS 8-10)	0.0 a	0.0 a	2.6 ab	83.7 abc	57.2 abc	
BAS 753 @ 8 oz/A (GS 8-10)	0.0 a	0.0 a	3.1 ab	84.8 ab	57.3 ab	
BAS 753 @ 4 oz/A (GS 5-7) fb BAS 753 @ 4 oz/A (GS 8-10)	0.0 a	0.0 a	2.1 a-d	82.4 a-d	57.0 a-d	
TebuStar 3.6 L @ 4 oz/A (GS 5-7)	13.8 b	35.0 d	1.1 b-e	75.2 c-h	55.8 ef	
TebuStar 3.6 L @ 4 oz/A (GS 8-10)	0.0 a	0.0 a	2.1 a-d	77.8 a-g	56.3 b-e	
TebuStar 3.6 L @ 2 oz/A (GS 5-7) fb TebuStar 3.6 L @ 2 oz/A (GS 8-10)	0.0 a	0.0 a	3.3 ab	79.0 a-f	56.2 b-e	
Absolute Maxx @ 4 oz/A (GS 8-10)	0.0 a	0.0 a	3.1 ab	82.9 a-d	56.3 b-e	
Stratego YLD @ 4 oz/A (GS 8-10)	0.0 a	16.3 bc	3.3 ab	79.9 a-f	56.2 b-e	
Prosaro 4215C @ 6.5 oz/A (GS 8-10)	0.0 a	0.0 a	3.3 ab	77.8 a-g	56.2 b-e	
Prosaro 4215C @ 3.25 oz/A (GS 5-7) fb Prosaro 4215C @ 3.25 oz/A (GS 8-10)	0.0 a	0.0 a	2.9 ab	82.0 a-d	56.1 cde	
Alto 100SL @ 3 oz/A (GS 5-7) fb Trivapro @ 13.7 oz/A + COC @ 1% v/v (GS 8-10)	0.0 a	0.0 a	3.5 a	83.2 abc	57.3 ab	
Trivapro @ 13.7 oz/A + COC @ 1% v/v (GS 5-7)	0.0 a	7.0 a	1.8 a-e	74.6 d-h	55.9 ef	
Trivapro @ 9.5 oz/A + COC @ 1% v/v (GS 5-7) fb Alto 100SL @ 3 oz/A (GS 8-10)	0.0 a	0.0 a	2.9 ab	80.0 a-f	56.4 b-e	
Trivapro @ 13.7 oz/A + COC @ 1% v/v (GS 8-10)	0.0 a	0.0 a	3.0 ab	83.6 abc	56.7 a-e	
Trivapro @ 9.5 oz/A + COC @ 1% v/v (GS 5-7) fb Trivapro @ 13.7 oz/A + COC @ 1% v/v (GS 8-10)	0.0 a	0.0 a	3.3 ab	85.8 a	57.1 abc	
Alto 100 SL @ 3 oz/A (GS 5-7) fb Tilt 3.6 EC @ 4 oz/A (GS 8-10)	0.0 a	11.3 ab	1.9 a-e	78.0 a-g	55.7 ef	
Alto 100 SL @ 4 oz/A (GS 8-10)	0.0 a	1.3 a	2.9 ab	82.6 a-d	56.2 cde	
Tilt 3.6 EC @ 4 oz/A (GS 8-10)	0.0 a	21.3 c	2.6 ab	80.2 a-e	56.0 de	
Alto 100 SL @ 3 oz/A + Tilt 3.6 EC @ 4 oz/A (GS 8-10)	0.0 a	1.3 a	2.3 abc	76.8 b-g	56.1 cde	
Topguard @ 5 oz/A (GS 3-5)	30.0 cd	95.0 ef	0.3 cde	70.2 gh	54.8 g	
Topguard @ 5 oz/A + Affinity BS @ 0.4 oz/A (GS 3-5)	33.8 d	92.5 ef	0.4 cde	68.4 h	54.8 g	
Topguard @ 10 oz/A (GS 3-5)	26.3 c	90.0 e	0.4 cde	71.9 fgh	55.1 fg	
Topguard @ 5 oz/A + Affinity BS @ 0.4 oz/A + 28% Nitrogen (GS 3-5)	30.0 cd	97.5 ef	0.1 de	62.9 i	53.9 h	
Topguard @ 5 oz/A (GS 3-5) fb Topguard EQ @ 5 oz/A (GS 8-10)	1.5 a	32.5 d	2.0 a-d	77.9 a-g	56.2 cde	
Topguard @ 5 oz/A + Affinity BS @ 0.4 oz/A (GS 3-5) fb Topguard EQ @ 5 oz/A (GS 8-10)	1.3 a	36.3 d	1.6 a-e	75.9 c-g	55.9 ef	
Topguard EQ @ 5 oz/A (GS 8-10)	0.8 a	35.0 d	1.4 a-e	73.5 e-h	56.2 cde	
LSD (P = .05)	3.48	6.61	1.19	4.76	0.62	
CV (%)	36.34	20.29	39.36	5.36	0.96	
GRAND MEAN	6.80	23.17	2.15	77.82	56.07	

¹Unless otherwise indicated, Induce @ 0.25% v/v (NIS) added to treatments, COC (Agri-Dex)

²Green Leaves Rating Scale: 0 – None, 1 – 25% remaining, 2 – 50% remaining, 3 – 75% remaining, 4 – 100% remaining

Application Timing Date

March 27, 2019 applied "GS 3-5" Treatment; WIND: 5-8 mph SSE, TEMP: 68°F, RH: 48%; no dew, sunshine; Wheat @ Feekes 4; No disease

April 12, 2019 applied "GS 5-7" Treatments; WIND: 6-8 mph E, TEMP: 66°F, RH: 35%; no dew, sunshine; Wheat @ Feekes 9 (flagleaf fully emerged); No disease

April 26, 2019 applied "GS 8-10" Treatments; WIND: 4 mph ENE, TEMP: 73°F, RH: 36%; no dew, sunshine; Wheat @ Feekes 10.5; No disease

Howe 2019 Profitability Study

VARIETIES ¹ /TREATMENT ²	Leaf Rust Infection on Flag Leaf ³ (%) May 15, 2019	Yield ³ (bu/ac)	Yield Bush-el/Ac Increase over Unsprayed	Test Weight ³ (lb/bu)	Test Weight lb/bu Increase over Unsprayed
AGS 2038 - <i>Sprayed</i>	0.0 a	74.2 bc	9.6	58.8 abc	0.5
AGS 2055 - <i>Sprayed</i>	0.0 a	77.1 abc	0.1	56.6 e-i	0.5
Dyna-Gro 9522 - <i>Sprayed</i>	0.0 a	74.6 bc	17.3	56.5 f-j	2.7
Dyna-Gro TV 8861 - <i>Sprayed</i>	0.0 a	72.7 bcd	18.4	56.6 e-i	2.6
Pioneer 25R40 - <i>Sprayed</i>	0.0 a	81.0 a	18.9	57.0 efg	1.7
Syngenta Coker 9553 - <i>Sprayed</i>	0.0 a	71.1 cde	5.7	59.4 ab	- 0.1
TX-EL2 - <i>Sprayed</i>	0.0 a	75.6 abc	14.9	57.3 def	2.3
USG 3201 - <i>Sprayed</i>	0.0 a	71.1 cde	16.7	58.5 abc	3.1
USG 3458 - <i>Sprayed</i>	0.0 a	67.9 def	18.4	55.2 jkl	2.2
USG 3536 - <i>Sprayed</i>	0.0 a	72.1 cd	12.7	57.2 ef	0.8
USG 3895 - <i>Sprayed</i>	0.0 a	79.0 ab	12.1	55.7 g-l	1.2
Monsanto WB-Cedar (<i>HRWW</i>) - <i>Sprayed</i>	--- ¹	57.1 ij	6.8	56.8 e-h	1.2
Syngenta Monument (<i>HRWW</i>) - <i>Sprayed</i>	0.0 a	61.7 ghi	6.6	57.9 cde	1.0
TAM 114 (<i>HRWW</i>) - <i>Sprayed</i>	0.0 a	60.5 hij	11.6	58.6 abc	1.5
AGS 2038 - <i>Unsprayed</i>	0.0 a	64.6 fgh		58.3 bcd	
AGS 2055 - <i>Unsprayed</i>	0.0 a	77.0 abc		56.1 f-k	
Dyna-Gro 9522 - <i>Unsprayed</i>	67.5 e	57.3 ij		53.8 no	
Dyna-Gro TV 8861 - <i>Unsprayed</i>	66.3 e	54.3 jkl		54.0 mno	
Pioneer 25R40 - <i>Unsprayed</i>	40.0 c	62.1 f-i		55.3 i-l	
Syngenta Coker 9553 - <i>Unsprayed</i>	28.8 b	65.4 e-h		59.5 a	
TX-EL2 - <i>Unsprayed</i>	42.5 c	60.7 hij		55.0 klm	
USG 3201 - <i>Unsprayed</i>	40.0 c	54.4 jkl		55.4 i-l	
USG 3458 - <i>Unsprayed</i>	52.5 d	49.5 kl		53.0 o	
USG 3536 - <i>Unsprayed</i>	10.0 a	59.4 hij		56.4 f-j	
USG 3895 - <i>Unsprayed</i>	26.3 b	66.9 d-g		54.5 lmn	
Monsanto WB-Cedar (<i>HRWW</i>) - <i>Unsprayed</i>	--- ¹	50.3 kl		55.6 h-l	
Syngenta Monument (<i>HRWW</i>) - <i>Unsprayed</i>	26.3 b	55.1 jk		56.9 e-h	
TAM 114 (<i>HRWW</i>) - <i>Unsprayed</i>	70.0 e	48.9 l		57.1 ef	
<i>LSD (P = .05)</i>	6.00	4.21		0.83	
<i>CV (%)</i>	24.5	4.59		1.05	
<i>GRAND MEAN</i>	17.41	65.05		56.53	

¹Monsanto WB-Cedar removed from Leaf Rust Infection analysis (no green leaves to rate, combination of bacterial streak & rust)

³Data Assessment Note: Reps 1 & 2 excluded from analysis due to fungicide application error

²TREATMENT: April 29, 2019 applied TebuStar @ 4 fl.oz/A + NIS @ 0.25% v/v



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AUXIN TRAINING

Auxin Training- TAMU AgriLife Extension- **1 CEU- Laws & Regulations**
Dr. David Drake- "Northeast Texas IPM Update"- **1 CEU- IPM**
"Chemical Update"- Burke Lane, Crop Consultant- Crop Production Services
1 CEU- General


Red River Valley Fairgrounds Community Events Center

570 E. Center St. , Paris, TX 75460

9AM - 12PM | Wednesday, April 27, 2022

Cost is \$20.00 at the door (CASH/CHECK ONLY)

Hosted by Lamar & Delta Counties



**PLEASE RSVP BY 4-26-22 @ 4PM
TO LAMAR CO. EXTENSION
OFFICE AT:
903-737-2443**



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Wheat Field Tour Greenville, TX
Wednesday May 4, 2022 9:30 am
Greenville University Farm
2157 FM 1569 Greenville, TX 75401



**Texas
Wheat** 

Wheat Variety Trials and Variety Release Candidates 9:30 am

-Wheat Profitability/Fungicide Studies 10:00 am

-Weed Control and Cropping System Studies 10:30 am

Adjourn 11:30 am

Lunch at Soulman's BBQ in Greenville sponsored by Syngenta and Texas Wheat.

CCA and CEU's credits requested

For more information contact David Drake 903-468-3295 or [drake@ag.tamuedu](mailto:d Drake@ag.tamuedu)

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Wheat Field Tour Howe, TX
Friday May 6, 2022 10:00 am
Approximate Trial Location:
750 Old Patterson Rd Howe, TX
South of town off of Hwy 5



**Texas
Wheat**

Soft and Hard Wheat Variety Trials 10:00 am

-Wheat Profitability/Fungicide Study 11:00 am

-Wheat Fungicide Timing Study

Sponsored Lunch following the field Tour at Gabriela's in Howe

Thanks to Quality Grain, Gaviolon Grain, and Attebury Grain

For more information contact David Drake 903-468-3295 or dadrake@agtamuedu

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Calendar

Auxin Pesticide Applicator Training —Paris April 26, 2022

Wheat Field Day Ellis Co. May 2, 2022

Wheat Field Day Greenville May 4, 2022

Wheat Field Day Muenster May 4, 2022

Wheat Field Day Howe May 6, 2022

Cotton Field Scout Training Hillsboro May 11, 2022

Cotton Field Scout Training Commerce May 18, 2022

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