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General Area Crop Progress

Field conditions continue to be wet with warmer days encouraging rapid wheat and annual ryegrass growth. Winter annual weeds are in bloom and spring weeds are emerging. Corn planting has been hampered due to the wet conditions.

Looking at wheat, Hessian fly continues to be a problem in some fields. Both feeding larvae and the “flax seed” pupa can be found at this time. Plants really need to be pulled up and individual tillers examined at the base to determine the extent of the infestation and the potential effect on yield. Numbers of larvae/pupa per stem and the tiller growth stage will affect the damage. Below is a tiller with multiple insects and visible damage. Larger tillers with a single pupa/flax seed are less affected but they may lodge at harvest time. Unfortunately, insecticide treatments have not been shown to be effective at controlling the flies at this stage. Infestation levels almost always vary across a field. Heavily infested fields may warrant termination and planting another crop or managing inputs for a lower expected yield.



Figure 1. Wheat plant with a Hessian fly damaged tiller. The tiller has both a larvae and a brown “flax seed” pupa, yellow arrow.

Bird cherry oat aphids are also heavy in some places. Barley yellow dwarf virus that is transmitted by the aphid has not been observed. Without Lorsban the lowest cost product that has satisfactory control of aphids is dimethoate. Several pyrethroids are labeled but there are resistant populations of aphids to those products. Transform and Sefina are also labelled but are higher in cost.

Lastly, True army worms have been reported in Louisiana and moths have been seed in the central blacklands and in traps in Commerce. Scouting for the small worms is needed to prevent losses.

Low levels of Stripe and Leaf rust have been observed in central Texas but not in the Northeast.

Greenville

2022 Grain Sorghum Performance Trial

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	GX22934	67	50	0	0	9.6	58.2	4,691
DEKALB	DKS 54-07	68	51	1	0	10.1	57.7	4,664
DEKALB	DKS 40-76	65	47	4	0	9.3	58.2	4,469
Dyna-Gro	GX21965	67	48	2	0	8.8	56.7	4,414
DEKALB	DKS 45-60	65	47	2	0	9.4	57.9	4,360
DEKALB	DKS 36-07	63	47	2	0	8.4	57.2	4,336
DEKALB	DKS 50-07	66	49	2	0	9.6	58.6	4,304
DEKALB	DKS 44-07	67	45	0	0	8.6	57.8	4,276
Dyna-Gro	M71GR91	68	48	0	0	9.2	58.0	4,220
Dyna-Gro	M63GB78	64	47	2	0	8.1	56.7	3,912
Dyna-Gro	M67GB87	66	48	1	0	8.3	55.9	3,895
Dyna-Gro	GX22932	67	49	2	0	9.7	57.2	3,699
Dyna-Gro	M60GB31	66	45	1	0	9.1	58.2	3,691
Dyna-Gro	M72GB71	69	47	1	0	9.2	58.2	3,615
Dyna-Gro	M59GB94	62	52	5	0	7.8	56.5	3,389
Scott Seed	S75A60	69	47	1	0	9.6	57.7	3,164
Alta Seeds	ADVG 2168IG	63	44	3	0	7.6	53.8	2,922
Alta Seeds	ADVG 2165	66	46	2	0	8.0	55.6	2,919
Scott Seed	S75N495	70	48	1	0	9.7	56.3	2,727
Scott Seed	S78A30	67	44	0	0	9.2	56.7	2,674
Scott Seed	S75N75	66	52	2	0	9.5	57.1	2,446

*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)	
Agronomic information		Mean	66	48	1	0.0	9.0	57.1	3,752
Plant Date	4/15/2022	C.V. %	1.3	3.8	64.3		9.0	1.4	10.2
Harvest Date	9/13/2022	P>f (hybrid)	0.000	0.000			0.001	0.000	0.000
Irrigated	No	L.S.D.	1.2	2.6			1.2	1.2	545.4
Row Spacing (in)	30	Trial Notes							Cooperator: Texas A&M AgriLife Research
Number of Rows	2	<p>Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using a SRES Advanced planter with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date. For additional information contact:</p> <p>Dr. Ronnie Schnell / Katrina Horn ronnie.schnell@agnet.tamu.edu / katrina.horn@agnet.tamu.edu 979-845-2935 / 979-845-8505</p>							
Target Seeds per Acre	65,000								
Precipitation (in)	22.7	<p>* Mehlich 3 by ICP, soiltesting.tamu.edu ** Samples collected at planting, some locations may have applied fertilizer</p>							
Irrigation (in)		Fertilizer Applied		Soil Analysis Report**					
Herbicide	1 qt/ac Atrazine pre-plant 1 qt/ac Atrazine post	N (lb/ac)	127	NO3-N (ppm)	33	pH		5.8	
Soil Type	Houston Black clay	P2O5 (lb/ac)	69	P (ppm)*	37	Conductivity (umho/cm)		205	
Tillage	Conventional	K2O (lb/ac)	0	K (ppm)*	280	Ca (ppm)*		5,159	
Previous Crop	Wheat	S (lb/ac)	0	S (ppm)*	9	Mg (ppm)*		335	
		Zn (lb/ac)				Na (ppm)*		61	

*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.

20-15. 2020 Soybean Variety Comparison Study @ Greenville, TX (Northeast Texas Agricultural Research Farm)

Table 1

MEAN Comparison Table

COMPANY/ENTRY†	Relative Maturity	Emergence/Seedling Vigor (1-10) ¹	Plant Height (inches) ²	Green Leaves at Harvest (0-10) ³	Test Weight (lb/bu)	Yield (bu/ac)
Go Soy 491E19S	4.9	7.0 a	30.5 a	2.5 ab	54.1 a-d	32.0 a
Dyna-Gro S49EN79	4.9	6.8 ab	22.3 l-t	0.5 de	48.7 a-g	25.6 b
Progeny 4265 RXS	4.2	6.5 ab	19.5 u	2.0 a-d	55.8 a-d	25.0 bc
Dyna-Gro S49XT21	4.9	5.5 ab	23.5 i-o	0.8 cde	53.2 a-e	24.8 bc
BASF CZ 4979 X	4.9	5.5 ab	25.3 e-k	1.8 a-d	52.7 a-e	24.5 bc
Axis 5016NRXS	5.0	6.8 ab	22.3 l-t	1.8 a-d	53.4 a-e	24.3 bc
Pioneer P45A02X	4.5	5.8 ab	21.5 n-u	1.3 a-e	56.8 a	24.3 bc
Dyna-Gro S45XS37	4.5	5.5 ab	22.5 l-s	1.3 a-e	52.6 a-e	24.3 bc
Progeny 4851 RX	4.8	6.5 ab	22.3 l-t	2.3 abc	54.2 a-d	23.9 bcd
Progeny 4821 RX	4.8	6.3 ab	22.8 k-r	2.3 abc	53.7 a-d	23.9 bcd
Progeny 5016 RXS	5.0	6.3 ab	23.0 j-q	0.8 cde	53.5 a-e	23.6 b-e
Go Soy 471E19S	4.7	6.0 ab	25.8 d-i	1.0 b-e	51.7 a-f	23.6 b-e
Dyna-Gro S49XT70	4.9	6.0 ab	23.5 i-o	2.3 abc	54.0 a-d	23.5 b-e
BASF CZ 5000 X	5.0	6.3 ab	24.3 g-m	0.0 e	51.2 a-f	23.2 b-f
Go Soy 50G17	5.0	6.3 ab	27.3 b-f	0.0 e	51.0 a-f	23.2 b-f
Go Soy 512E21	5.1	6.3 ab	23.5 i-o	0.8 cde	53.4 a-e	23.2 b-f
Asgrow AG42X6	4.2	6.3 ab	20.8 p-u	2.5 ab	55.4 a-d	23.2 b-f
Pioneer P46A86X	4.6	6.3 ab	23.0 j-q	1.8 a-d	54.9 a-d	22.9 b-g
Dyna-Gro S48XT90	4.8	7.0 a	24.0 h-n	1.5 a-e	51.7 a-f	22.8 b-g
BASF CZ 4410 GTLL	4.4	6.5 ab	24.8 f-l	2.8 a	55.8 abc	22.8 b-g
Axis 4801NRX	4.8	6.8 ab	24.0 h-n	1.5 a-e	50.2 a-f	22.7 b-g
Dyna-Gro S52XS39	5.2	6.3 ab	28.3 a-d	0.0 e	54.2 a-d	22.7 b-g
BASF CZ 4918 LL	4.9	5.8 ab	22.0 m-u	1.3 a-e	51.9 a-f	22.6 b-h
Dyna-Gro S48XT40	4.8	6.3 ab	22.5 l-s	1.3 a-e	53.9 a-d	22.4 b-i
BASF CZ 4941 X	4.9	5.5 ab	26.8 c-g	1.8 a-d	51.6 a-f	22.4 b-i
BASF CZ 4730 X	4.7	5.8 ab	23.3 i-p	2.3 abc	57.3 a	22.1 b-j
Progeny 4970 RX	4.9	6.5 ab	23.5 i-o	0.8 cde	51.4 a-f	21.7 b-k
Go Soy 463E20S	4.6	5.8 ab	22.5 l-s	1.8 a-d	55.5 a-d	21.6 b-k
Axis 4819NRXS	4.8	5.8 ab	22.3 l-t	1.0 b-e	52.1 a-f	21.3 b-k
Progeny 5170 RX	5.1	5.3 b	27.5 b-e	2.5 ab	52.0 a-f	21.1 b-k
Asgrow AG49X9	4.9	5.5 ab	20.0 stu	2.0 a-d	53.2 a-e	20.9 b-k
Dyna-Gro S46XT80	4.6	6.5 ab	20.5 q-u	1.5 a-e	53.5 a-e	20.7 b-k
Dyna-Gro S46XS60	4.6	6.3 ab	21.8 m-u	1.8 a-d	52.0 a-f	20.7 b-k
BASF CZ 4600 X	4.6	5.3 b	20.0 stu	1.8 a-d	54.2 a-d	20.7 b-k

Table 1 (Continued)

MEAN Comparison Table

COMPANY/ENTRY†	Relative Maturity	Emergence/Seedling Vigor (1-10) ¹	Plant Height (inches) ²	Green Leaves at Harvest (0-10) ³	Test Weight (lb/bu)	Yield (bu/ac)
BASF CZ 4570 X	4.5	6.3 ab	20.5 q-u	2.3 abc	55.4 a-d	20.6 b-k
BASF CZ 4770 X	4.7	5.8 ab	23.4 i-p	0.8 cde	52.4 a-f	20.4 b-k
Pioneer P48A60X	4.8	5.8 ab	22.3 l-t	1.3 a-e	55.8 ab	20.2 c-k
Go Soy 49G16	4.9	7.0 a	25.3 e-k	0.0 e	53.4 a-e	20.1 c-k
R15-2422	4.7	6.0 ab	27.8 b-e	0.0 e	51.9 a-f	19.9
BASF CZ 4869 X	4.8	6.3 ab	21.8 m-u	1.3 a-e	51.7 a-f	19.8 c-k
BASF CZ 5299 X	5.2	5.3 b	25.5 e-j	0.0 e	47.8 b-g	19.8 c-k
BASF CZ 4810 X	4.8	6.5 ab	20.3 r-u	1.3 a-e	54.4 a-d	19.7 c-k
R16-253	4.6	6.8 ab	29.5 ab	0.0 e	43.5 fg	18.7 d-k
Go Soy Leland	5.0	5.8 ab	19.8 tu	0.0 e	46.8 d-g	18.5 e-k
AGS GS52X19S	5.2	5.8 ab	28.3 a-d	0.0 e	49.3 a-g	18.4 e-k
BASF CZ 4649 LL	4.6	5.8 ab	29.3 abc	0.0 e	41.0 gh	18.3 e-k
Go Soy GT Ireane	4.9	6.3 ab	20.3 r-u	0.0 e	46.8 c-g	18.1 f-k
Axis 4509NRX	4.5	5.3 b	24.8 f-l	1.3 a-e	51.7 a-f	18.1 f-k
Progeny 5252 RX	5.2	5.8 ab	26.3 d-h	0.0 e	48.7 a-g	17.6 g-k
Asgrow AG46X0	4.6	5.5 ab	22.5 l-s	2.3 abc	51.2 a-f	17.3 h-k
Go Soy 5214GTS	5.2	6.0 ab	30.8 a	0.0 e	32.9 h	17.2 ijk
Go Soy 48C17S	4.8	6.3 ab	21.5 n-u	0.0 e	52.4 a-f	16.8 jk
BASF CZ 4539 GTLL	4.5	6.0 ab	21.3 o-u	0.8 cde	52.8 a-e	16.5 k
AGS GS49X21	4.9	5.5 ab	24.8 f-l	0.8 cde	44.6 efg	16.5 k
R16-259	4.6	5.5 ab	22.5 l-s	2.5 ab	56.5 ab	16.4 k
	<i>LSD (P = .05)</i>	<i>0.84</i>	<i>2.71</i>	<i>1.65</i>	<i>8.99</i>	<i>5.32</i>
	<i>CV (%)</i>	<i>9.92</i>	<i>8.18</i>	<i>100.6</i>	<i>12.42</i>	<i>17.81</i>
	GRAND MEAN	6.05	23.72	1.18	51.84	21.40

Date Planted: April 17, 2020

Planting Rate: 165,000 seeds/Ac

Row Width (in): 30

Row Length (ft): 25

Number of rows harvested: 2

Yields Corrected to 13% Moisture

Dates Harvested: August 25th, September 1st, 8th, October 2nd, 13th

†Ranked according to Yield

¹Emergence/Seedling Vigor Scale: 1 – poor emergence, 10 – best²Plant Height measurement made according to upper most pod³Green Leaves Present at Harvest Scale: 0 – None, 10 – 100%(Rating only on Harvest Dates Aug. 25th, Sept. 1st, 8th)(Rating of 0 on Harvest Dates Oct. 2nd & 13th)

22-12. 2022 Soybean Variety Comparison Study @ Greenville, TX (Northeast Texas Agricultural Research Farm)

Agronomic Characteristics—Ranked by order of Seedling Vigor

COMPANY/ENTRY†	Relative Maturity	Emergence/Seedling Vigor (1-10) ¹	Pod Set (1-10) ²	Maturity 1-10) ³
Dyna-Gro / S46XF31S	4.6	8.0	5.3 eh	4.5 b-f
Dyna-Gro / S52XT91	5.2	7.8	6.5 a-g	4.5 b-f
Asgrow / AG48XF2	4.8	7.8	7.0 a-f	4.0 b-g
GDM Seeds / DM 45F23	4.5	7.8	4.5 gh	2.5 fg
Dyna-Gro / S49EN12	4.9	7.5	4.8 gh	4.7 b-f
Dyna-Gro / S51EN62	5.1	7.5	3.5 h	4.5 b-f
Dyna-Gro / S49XF82S	4.9	7.3	7.8 abc	3.5 d-g
University of Arkansas / R18-14502	4.9	7.3	8.5 a	8.3 a
Asgrow / AG42XF2	4.2	7.3	6.5 a-g	2.0 fg
GDM Seeds / DM 49F62	4.9	7.3	4.8 gh	5.8 a-e
Dyna-Gro / S45ES10	4.5	7.0	7.3 a-e	3.0 efg
Dyna-Gro / S46ES91	4.6	7.0	6.3 b-g	3.8 c-g
Dyna-Gro / S49XT70	4.9	7.0	5.0 fgh	6.3 a-d
Pioneer / P48T22E	4.8	7.0	5.5 d-h	2.8 fg
Axis / 4811-XFS	4.8	7.0	6.0 c-g	2.8 fg
Asgrow / AG45XF0	4.5	7.0	7.3 a-e	2.4 fg
Dyna-Gro / S48EN02	4.8	6.8	5.3 e-h	4.0 b-g
Dyna-Gro / S48XT90	4.8	6.8	7.3 a-e	6.0 a-d
Pioneer / P45T88E	4.5	6.8	7.3 a-e	1.5 g
Pioneer / P46T27SE	4.6	6.8	7.0 a-f	4.8 b-f
Dyna-Gro / S45XF02	4.5	6.5	5.3 e-h	6.5 abc
Axis / 4641XFS	4.6	5.3	8.3 ab	6.8 ab
Axis / 5016NRXS	5.0	5.0	7.5 a-d	6.8 ab
	LSD (P = .05)	NS	2.15	2.90
	CV (%)	16.74	24.28	46.52
	GRAND MEAN	7.0	6.3	4.4

Numbers in a column with the same letter are not statistically different. NS = not statistically different

Date Planted: April 29, 2022

Planting Rate: 165,000 seeds/Ac

Row Width (in): 30

Row Length (ft): 25

Not harvested due to drought conditions in 2022

†Ranked according to Vigor

¹Emergence/Seedling Vigor Scale: 1 – poor emergence, 10 – best

²Pod Set Scale (observed green, healthy plants): 1 – no pods set, 10 – 100% pod set

³Maturity Scale: 1 – shattering dry pods, 10 – green Evaluated Sept 15, 2022

Weed Management: May 23, 2022 applied Typhoon @ 1.6 qt/ac

SAVE THE DATE!

JUNE 2ND, 2023

**Northeast Texas Small Acreage &
New Landowner Conference**

Friday, June 2, 2023

**Collin College, 501 S Collin Pkwy,
Farmersville, TX 75442**

**Pre-registration will be required through
Event Bright. Registration will open by
April 1, 2023**

**Conference will be held from
8:00 a.m. to 4:30 p.m.**

Multiple tracks for beginning landowners,
Pesticide applicators, land management,
livestock and specialty crops will be included.
Participants will enjoy speakers, trade show,
lunch and door prizes.

Cost: Individual Session \$40 per person.
Includes session materials & meal. \$75 for two
tickets

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Calendar

Wheat Field Day - Fairlie TBA May 2023

Wheat Meeting—Muenster May 11, 2023

Small Land Owner Conference—Farmersville June 2, 2023



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