

*Agri*LIFE EXTENSION

Texas A&M System

Hill/McLennan Preliminary Report



Corn, Grain Sorghum and Wheat



2011



Preliminary Data
Compiled by
Marty Jungman, EA-IPM

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The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating

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Dear Producer:

This preliminary report contains information on grain plots that were conducted. I would like to thank all the producers that cooperated with Texas AgriLife Extension Service.

Cotton plots are currently being harvested. Cotton data will be sent out after trials have been harvested and the data has been compiled.

Sincerely,



Marty Jungman, EA-IPM
Hill/McLennan Counties

Demonstration: Hill/Navarro Wheat Variety Trial

Farmer's Name and Location: Watson Farms, Mertens

Dr. Robert Duncan, Extension Agronomist, cooperating

Daniel Hathcoat, Extension Program Specialist, cooperating

Results:

Variety	% Moisture	Total Weight lb/bu	Yield bu/A
Duster	12.05 cd	59.83 bc	58.5 a
Billings	12.5 ab	61.2 a	57.1 ab
Jackpot	1.74 de	59.11 d	54.9 abc
TAM 304	11.3 f	57.48 e	54.1 abc
Fannin	12.65 a	61.45 a	53.4 abc
Greer	11.5 ef	57.5 e	53.3abc
TAM 401	12.13 bc	57.28 e	52.1 bcd
Coronado	11.85 cde	59.93 b	50.4 cd
TAM 203	11.89 cd	59.28 cd	50.2 cd
Fuller	11.85 cde	59.73 bc	49.1 cd
Deliver	11.95 cd	60.98 a	47.1 d
Doans	12.16 bc	61.5 a	38.6 e
LSD (P=.05)	0.377	0.548	6.21
Standard Deviation	0.26	0.379	4.29
CV	2.18	0.64	8.31

Means followed by same letter do not significantly differ (P=.05, LSD)

Date planted: 11/12/10

Date harvested: 5/17/11

Demonstration: Hard Red Wheat Foliar Fungicide Treatments

Farmer's Name and Location: Kyle Miller, Bynum

Dr. Robert Duncan, Extension Agronomist, cooperating
Daniel Hathcoat, Extension Program Specialist, cooperating

Date Planted: 10/19/10

Fertilizer Used: 18-46-00 100 lbs
32-00-00 200 lbs

Last Crop: Corn

Date Harvested: 5/17/11

Wheat Variety: Jackpot

Seeding Rate/A: 100 lbs

Plot Size: 10'x 30'

Plot Design: RCBD

Results:

Treatment^{1/}	Rate	% Moisture	Test Weight lb/bu	Yield (bu/A)
Embrace	8 FL OZ/A	12.03 a	58.98 b	39.8 a
Quilt	14 FL OZ/A	12.03 a	59.78 a	39.7 a
Evito T	2 FL OZ/A	11.93 a	59.4 ab	38.7 a
Quilt Xcel	14 FL OZ/A	12.03 a	59.5 ab	37.9 a
Headline	3 FL OZ/A	11.98 a	59.38 ab	37.5 a
Evito	2 FL OZ/A	12.15 a	59.53 ab	37.4 a
Twinline	9 FL OZ/A	12.08 a	59.55 ab	36.5 a
Untreated		11.98 a	59.15 ab	35.5 a
LSD (P =.05)		0.316	0.626	5.11
Standard Deviation		0.215	0.426	3.47
CV		1.79	0.72	9.17

Means followed by same letter do not significantly differ LSD (P=.05)

^{1/}NIS = non-ionic surfactant at 0.125% v/v was added to each treatment

Timing of application: 3/23/11 Feekes Stage 8-9, ligule of last leaf just visible

Rust: 5-10% on lower leaves (F-3 and below)

Spray Volume: 15 gal/A psi: 38

Nozzle tip: 80-02 DG Tee jet tips-6 on 20" spacing; 10' boom

CO₂ was pressurizing agent

Table 2. Evaluation of Hard Red Winter Wheat Foliar Fungicide Treatments
 Kyle Miller Farm, Bynum

Treatment	Rate	4/6/11			4/20/11	
		F-1	F-2	Flag	F-1	Flag
Embrace	8 FL OZ/A	0.0 b	1.5 ab	0.0 a	0.0 b	0.0 a
Quilt	14 FL OZ/A	0.3 b	1.0 ab	0.0 a	7.5 ab	4.5 a
Evito T	2 FL OZ/A	0.0 b	0.5 b	0.0 a	0.0 b	0.0 a
Quilt Xcel	14 FL OZ/A	0.0 b	0.8 b	0.0 a	0.0 b	0.0 a
Headline	3 FL OZ/A	0.3 b	2.5 ab	0.0 a	1.5 ab	1.5 a
Evito	2 FL OZ/A	1.5 a	4.5 a	0.0 a	8.8 ab	7.0 a
Twinline	9 FL OZ/A	0.8 ab	3.5 ab	0.0 a	12.5 a	6.5 a
Untreated		0.5 b	3.3 ab	0.0 a	6.0 ab	2.5 a
LSD (P=.05)		0.96	3.63	0.0	11.79	9.02
StandardDeviation		0.65	2.47	0.0	8.01	6.13
CV		160.3	112.81	0.0	176.86	222.96

Means followed by same letter do not significantly differ (P =.05, LSD)

¹/_{NIS} = non-ionic surfactant at 0.125% v/v was added to each treatment

Spray Volume: 15 gal/A psi: 38

Nozzle tip: 80-02 DG Tee jet tips-6 on 20" spacing; 10' boom

CO₂ was pressurizing agent

Demonstration: Corn Variety Trial

Farmer's Name and Location: Phil Pustejovsky & Ronnie Marak, Brandon, TX

Soil Type: Houston Black Clay

Seeding Rate/A: 25,000

Date Planted: 3/10/11

Plot Size: .38A Machine

Fertilizer Used: 11-37-0-80 lbs.

Last Crop: Corn

NH3-15 lbs.

Herbicides: Power Max 22 oz.

32-0-0-100 lbs. (Side dress)

Date Harvested: 7/18/11

Variety	Test Weight (lbs/bu)	% Moisture at Harvest	Yield^{1/} (lb/A)
DeKalb 64-69 VT3	49	9.3	65.4
DynaGro D51VP40	50	8.3	63.7
Syngenta NK N77P-3111	52	8.7	63.0
Cropland 6926VT3/Pro	53	8.2	60.5
Integra 9676VT3 Pro	50	9.1	57.7
B-H Genetics 8570VTTP	49	7.9	57.1
Triumph 1825V	49	10.6	49.7
Pioneer P2023HR	52	8.6	48.5
Golden Acres	51	12.5	48.0
AVERAGE			57.1

*Yields adjusted to 15% moisture.

Demonstration: Grain Sorghum Variety Trial

Farmer's Name and Location: Aaron Walters, Bynum, TX

Soil Type: Houston Black Clay

Date Planted: 3/18/11

Fertilizer Used: 32-0-0-97 units of N
6-20-0 w/Zn+Mg-1qt.-2gal.

Herbicides: Dual 1 pt., Atrazine 1 pt.

Seeding Rate/A: 80,000

Plot Size: .12A Machine

Rows Per Variety: 4

Last Crop: Corn

Date Harvested: 7/18/11

Variety	Test Weight (lbs/bu)	% Moisture at Harvest	% Lodging	Yield^{1/} (lb/A)
Sorghum Partners NK7633	58.0	13.7	0	3511
Syngenta NK 5515	59.0	11.9	7	3454
Pioneer 84G62	58.0	13.1	2	3397
B-H Genetics BH5350	54.0	12.7	1	3343
DynaGro DG764B	58.0	10.7	3	3306
DeKalb DKS44-20	57.0	12.0	1	3213
Pioneer 84P74	59.0	14.3	5	3199
Triumph TRX03473	57.0	13.7	2	3176
Gayland Ward GW1160	57.0	12.4	2	3116
Golden Acres 3325	58.0	12.3	1	3068
AVERAGE				3278

*Yields adjusted to 14% moisture.

Aflatoxin Study in Corn

Farmer Name and Location: Edwin Hejl, Hillsboro

Date Planted: 3/19/11

Variety: DK 69-43 or
DK 69-40

Fertilizer: NH_3 -120 lbs
11-37-0-7 gals

Seeding Rate: 22,900
Date Harvested: 7/20/11

Herbicide: Roundup
Previous Crop: Milo
Row Spacing: 30 inch

Harvest: Machine

Treatment	Sample 1 Aflatoxin Ppb	Sample 2 Aflatoxin Ppb	Sample 3 Aflatoxin ppb	Sample 4 Aflatoxin ppb	Average Aflatoxin ppb
Treatment #1 Aflaguard @ V5-V6	39	52	7	140	60
Treatment # 2 Aflaguard @V9- V10	120	6	32	110	67
Treatment #3 AF 36 @ V9-V10	57	34	96	38	56
Treatment #4 Control	110	270	64	200	161

Field Average: 30 bushels

Aflaguard Study in Corn

Farmer Name and Location: Ronnie Radke
Malone, TX

Date Planted: 3/6/11
Fertilizer: NH₃- 120 lbs
11-35-6- 125 lbs

Variety: NK N78N-GTF2
Seeding Rate: 20,500
Date Harvested: 7/9/11

Herbicide: Glystar + Status
Previous Crop: Grain Sorghum

Harvest: Machine

Treatment	Sample 1 Aflatoxin Ppb	Sample 2 Aflatoxin Ppb	Sample 3 Aflatoxin ppb	Sample 4 Aflatoxin ppb	Average Aflatoxin ppb
Treatment #1 Untreated Check	51	19	106	38	53.5
Treatment # 2 Aflaguard, 10 lbs @ V-10	24	12	3	21	15.0
Treatment #3 Aflaguard, 10 lbs @ Early Tassell	5	27	37	29	24.5

Field Average: 55 bushels

Aflaguard Study in Corn

Farmer Name and Location: Jr. Schronk
Bynum, TX

Date Planted: 3/7/11
Fertilizer: NH₃- 120 lbs
18-46-0- 100 lbs
Herbicide: Roundup
Previous Crop: Corn

Variety: BH8882VT
Seeding Rate: 20,200
Date Harvested: 7/13/11
Harvest: Machine

Treatment	Sample 1	Sample 2	Sample 3	Sample 4	Average
	Aflatoxin Ppb	Aflatoxin Ppb	Aflatoxin ppb	Aflatoxin ppb	Aflatoxin ppb
Treatment #1 Untreated Check	173	330	108	109	180.0
Treatment #2 Aflaguard, 10 lbs @ V-10	37	0	0	25	15.5
Treatment #3 Aflaguard, 10 lbs @ Early Tassell	8	0	25	64	24.3

Field Average: 71 bushels