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2017 Corn Performance Trials in Texas



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Introduction

Texas A&M AgriLife Research conducts the corn performance tests each year to provide growers in Texas with accurate and unbiased information on hybrid performance at locations across the state. Selection of superior hybrids that are well adapted for a given region is essential for maximizing yield and profit.

This year, seven irrigated and five non-irrigated test sites were planted in the major production regions of Texas. Major corn production regions include the Western Gulf Coastal Plain, Southern Texas Plains, East Central Texas Plains, Texas Blackland Prairies and High Plains. Approximate locations of the 2017 test sites are shown in Figure 1. A total of 406 entries were evaluated across 12 locations representing 80 unique hybrids from 13 commercial seed companies. Commercial seed companies enter hybrids into each trial location at their own discretion.

Performance trials are conducted by personnel from the Crop Testing Program, Texas A&M AgriLife Research, and financed by fees collected from participating commercial seed companies. Test sites are on privately owned farms or at Texas A&M University AgriLife Research Centers. All entries are randomized and replicated four times at each location. All test sites are managed according to practices common to each production region. Field maps and planting plans can be found at the link below shortly after planting. Following harvest, results are statistically analyzed and made available at: <http://varietytesting.tamu.edu/corn/>.

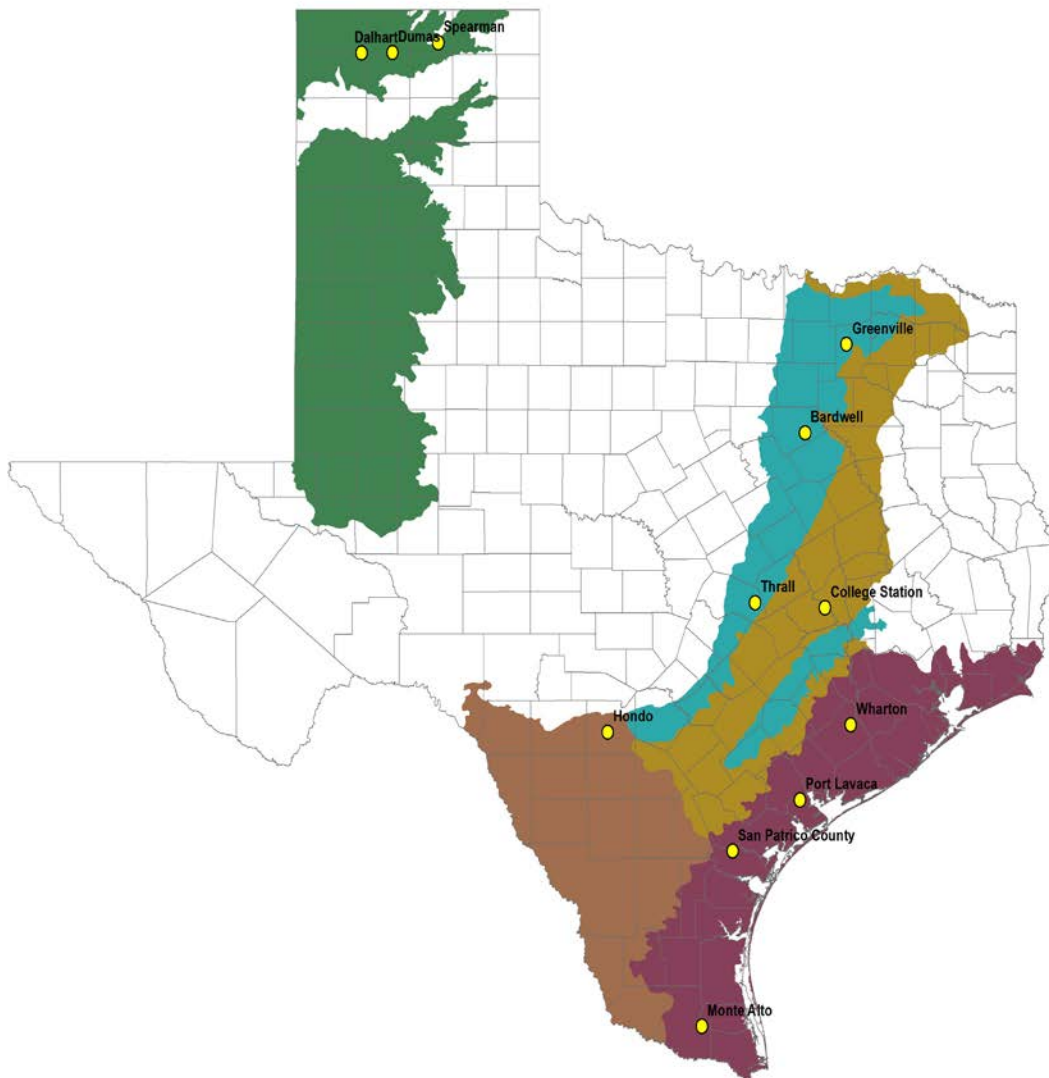
Suggestions for Selecting Hybrids and Varieties

Variety or hybrid selection is often the first decision a grower must make each crop year. The goal is to identify hybrids with superior performance (top yielding) for your environment. Many environments exist in Texas with significant variation within regions and across years, mostly due to variation in weather. Documented, consistent yield performance within a region is essential for selecting hybrids that will perform well on your farming operation. This means that evaluation of hybrids over multiple locations and years (when possible) is the best way to predict future performance. Exercise caution when using single location data to compare hybrid performance.

Following yield performance, other characteristics may be useful for selecting the best hybrid. Maturity or days to flowering may be important for selecting hybrids that are appropriate for your

growing season/conditions. Hybrids that possess insect or herbicide traits may be useful for managing various insect and weed pests found on your farm. While consistent yield will be the most important factor affecting hybrid selection, additional plant characteristics or traits could be used to select from hybrids with similar yield performance.

Figure 1. 2017 Corn Performance Trial Locations



Field-Plot Techniques

Performance trials are conducted at each location using a randomized complete block design with four replications of each entry (hybrid). Seeds for each hybrid are packaged to obtain a final plant population appropriate for each production region and cropping system. Plots are generally 2 rows wide with row spacing ranging from 30 to 40 inches depending on location. Seeds are packaged to deliver 30 feet of planted row per plot. Seed is planted using a belt cone planter with John Deere MaxEmerge XP planter units at all sites. Following emergence, two feet of row are trimmed on each side resulting in 26 ft plots and 4 ft alleys. Alleys are maintained free of weeds throughout the growing season through mechanical or chemical control measures.

Cultural and agronomic practices adapted for each region are used as determined by the cooperator. Field data such as plant stands, plant height, ear height, silk dates and lodging are recorded at the appropriate times. All locations are harvested with a John Deere 3300 plot combine equipped with the HarvestMaster Grain Gauge that measures plot weight, test weight, and grain moisture. Field and harvest notes are compiled for each location and results analyzed.

Data Analysis and Reporting

Data from each location is analyzed statistically using SAS. Mean values for yield and additional agronomic data are presented in tables for each location. Mean values are derived from the average of all replications for each entry in each trial. Least Significant Difference (LSD) is a statistical test used that determines the minimum difference between two entries required to be considered having different levels of performance. Differences between entries (yield, plant height, etc.) less than the LSD value represents variation measurements due to factors other than hybrid performance, such as variation in soil type, soil moisture, fertility, insect or disease pressure, planting or harvesting procedures. Although numeric differences in yield or other measurements may exist, if two entries are within the LSD value, they should be considered to have equal performance. The Coefficient of Variation (CV) is used to determine the amount of variability in the data set relative to the mean and can be used to determine if the results are reliable. Generally, CV's greater than 20% indicate that the data is unreliable and is not reported. However, each data set is evaluated individually to determine if results will be reported.

In the 2017 Corn Hybrid Characteristics table you will find agronomic data submitted by each company for their entries. Agronomic information provided by the companies about their hybrids are found in the list below and include items such as cob color, grain color and genetic traits. Agronomic data measured and collected by the Crop Testing program is described in the section below.

Agronomic Data as designated by each company:

Cob Color:	R = red	W = white	P = pink
Grain Color:	Y = yellow	W = white	

Type GE (Genetically Engineered Traits):

<u>Trait Family</u>	<u>Trait Name</u>	<u>Abbreviation</u>
Agrisure	Agrisure CB/LL	CB/LL
Agrisure	Agrisure 3010	GT/CB/LL
Agrisure	Agrisure RW	RW
Agrisure	Agrisure GT/RW	GT/RW
Agrisure	Agrisure CB/LL/RW	CB/LL/RW
Agrisure	Agrisure 3000GT	GT3K
Agrisure	Agrisure Artesian 3011A	3011A
Agrisure	Agrisure Viptera 3110	V3110
Agrisure	Agrisure Viptera 3111	V3111
Agrisure	Agrisure 3122 E-Z Refuge	3122EZ
Agrisure	Agrisure 3220 E-Z Refuge	3220EZ
Agrisure	Agrisure Duracade 5122 E-Z Refuge	5122EZ
Agrisure	Agrisure Duracade 5222 E-Z Refuge	5222EZ
Herculex	Herculex 1 (HX1)	HX1
Herculex	Herculex RW (HXRW)	HXRW
Herculex	Herculex Extra (HXX)	HXX
Optimum	Optimum AcreMax (AM-R)	AM-R
Optimum	Optimum AcreMax1 (AM1)	AM1
Optimum	Optimum AcreMax Rootworm (AMRW-R)	AMRW-R
Optimum	Optimum AcreMax Xtra (AMX-R)	AMX-R
Optimum	Optimum AcreMax Xtreme (AMXT-R)	AMXT-R
Optimum	Optimum Intrasect	INT
Optimum	Optimum Intrasect Xtra	INT-X
Optimum	Optimum Intrasect Xtreme	INT-XT
Optimum	Optimum TRIsect	TRI
YieldGard	YieldGard VT Triple	YG VT3
Genuity	Genuity VT Double PRO	GEN VT2P
Genuity	Genuity VT Triple PRO	GEN VT3P
Genuity	Genuity SmartStax	GEN SSX
Genuity	Genuity VT Double PRO RIB Complete (GENVT2P)	GEN VT2PRIB
Genuity	Genuity VT Triple PRO RIB Complete (GENVT3P)	GEN VT3PRIB
Genuity	Genuity SmartStax RIB Complete	GEN SSXRIB
Refuge Advanced	Refuge Advanced (SmartStax)	SSX
Mycogen	SmartStax	SSX
Generic	RR2	RR2
	Conventional	Conv
Genuity	Genuity DG VT Double PRO	GEN DGV2P
Genuity	Genuity DG VT Triple PRO	GEN DGV3P
Genuity	DroughtGard Roundup Ready Corn 2	GEN DG RR2
Optimum	Optimum AcreMax - AQUAmax (AM-R)	AM-AQUAmax
Optimum	Optimum Intrasect-AQUAmax	INT-AQUAmax
Agrisure	Agrisure GT Artesian	GT-Artesian

Mycogen	Powercore	Powercore
Optimum	Lepra	VYHR
Generic	BGTCBLL	BGTCBLL
Generic	GT	GT

Measured Agronomic Data:

Days to Silk: the average number of days from planting to the date when 50 percent of the plants within the plot are in some stage of silking (R1).

Plant Height: the average height in inches from ground to top of tassel.

Ear Height: the average height in inches from ground to base of ear.

Grain Moisture: the average moisture at harvest as a percent (%).

Plant Population: the average number of plants per acre at harvest.

Test Weight: is a measure of bulk grain density and is determined by the seed weight per unit of volume. This is measured at harvest and expressed as pounds per bushel.

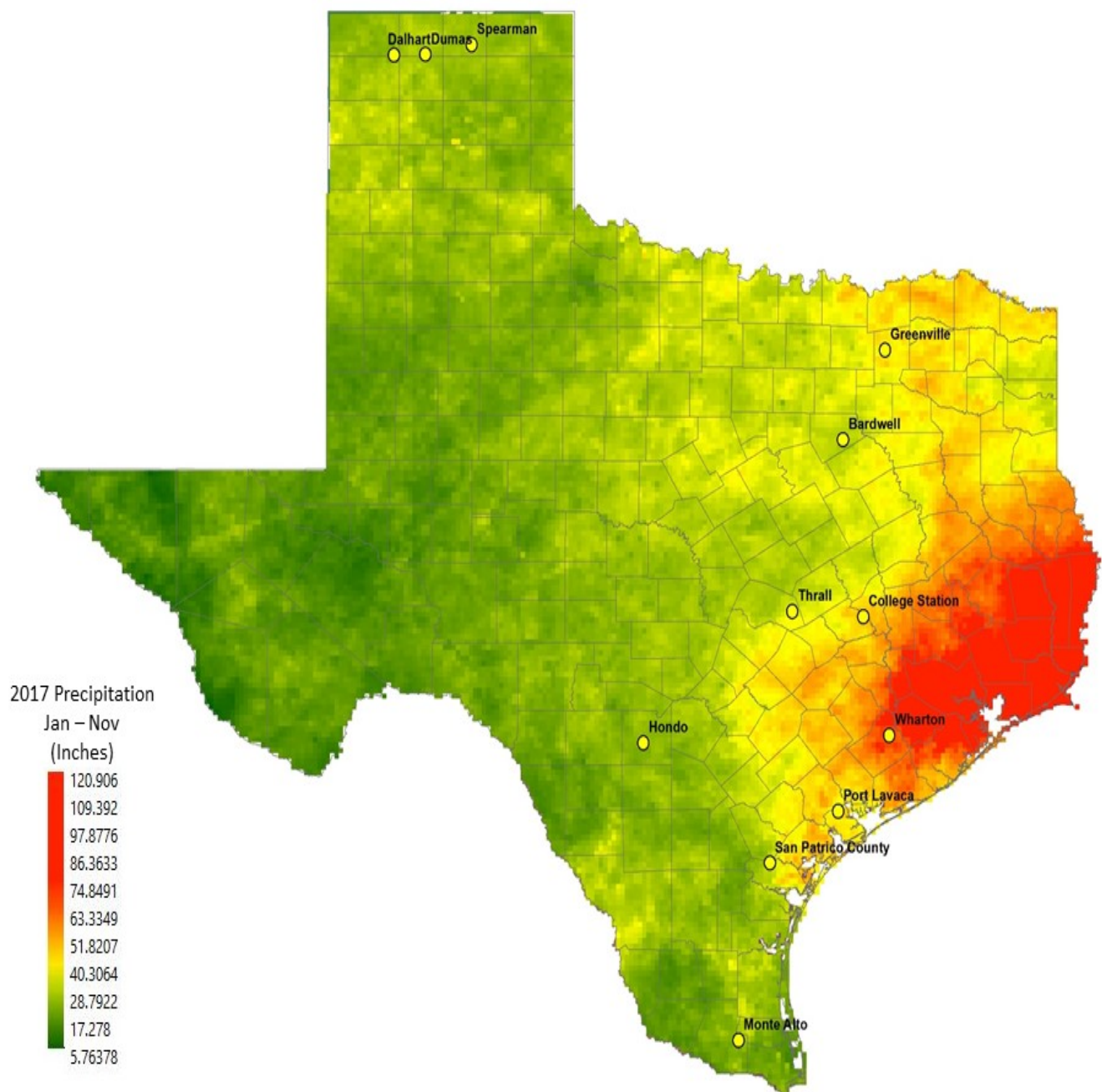
Yield – Standardized to 15.5% moisture: expressed in bushels per acre (bu/acre) and calculated using $(((100 - \text{moisture (\%)}) / 84.5) * \text{yield (lb/acre)}) / 56$.

In addition to individual site performance, information on multi-year performance for each site and regional performance is provided. Multi-year tables are presented as 2 and 3-year summaries of yield performance data. The entries are ranked according to hybrid performance based on the two year average.

Rainfall

Available soil moisture during the growing season is often a limiting factor for corn production in Texas. Variation in rainfall patterns can be substantial within a production region and from year to year. A significant gradient in annual rainfall exists in Texas moving east to west.

Figure 2. 2017 Precipitation in inches (January 1, 2017 – November 30, 2017)



2017 Corn Hybrid Characteristics



Company	Brand	Hybrid	Transgenic Traits	Grain Color	Cob Color	GDD to Maturity	Relative Maturity
Advanta Seeds	Phoenix	6948	Agrisure 3000GT	Yellow	Red	2630	114
Advanta Seeds	Phoenix	6342	Agrisure Viptera 3111	Yellow	White		113
Advanta Seeds	Phoenix	6542	Agrisure Viptera 3111	Yellow	Pink	2690	116
Agventure Pinnacle	Agventure	EXP1014AM	Optimum AcreMax (AM	Yellow			114
Agventure Pinnacle	Agventure	AV8714YHB	Optimum Intrasect	Yellow	Pink		114
Agventure Pinnacle	Agventure	AV7307YHB	Optimum Intrasect	Yellow	White		107
Agventure Pinnacle	Agventure	RL7844YHB	Optimum Intrasect	Yellow	Pink		110
Agventure Pinnacle	Agventure	EXP1013AM	Optimum AcreMax (AM	Yellow			113
Anzu Genetica Seed	Anzu Genetica	AG 9002	N/A				
Anzu Genetica Seed	Anzu Genetica	AG 2525	N/A				
Anzu Genetica Seed	Anzu Genetica	MA-9035	N/A	Yellow	White		128
Anzu Genetica Seed	Anzu Genetica	AG 1911	Conventional	White	White		118
CHS Inc	Allegiant	11697	N/A				
CHS Inc	Allegiant	11758	N/A				
Crop Production Services	Dyna-Gro	D58VC65	Genuity VT Double PRO	Yellow	Red	2820	118
Crop Production Services	Dyna-Gro	D56VP46	Genuity VT Triple PRO	Yellow	Red	2790	116
Crop Production Services	Dyna-Gro	58SS65	Genuity SmartStax	Yellow	Red	2840	118
Crop Production Services	Dyna-Gro	D54VC52	Genuity VT Double PRO	Yellow	Red	2800	114
Crop Production Services	Dyna-Gro	D55VP77	Genuity VT Triple PRO	Yellow	Red	2790	115
Crop Production Services	Dyna-Gro	D57VP51	Genuity VT Triple PRO	Yellow	Red	2810	117
Crop Production Services	Dyna-Gro	D58VC37	Genuity VT Double PRO	Yellow		2880	118

2017 Corn Hybrid Characteristics



Company	Brand	Hybrid	Transgenic Traits	Grain Color	Cob Color	GDD to Maturity	Relative Maturity
Dupont	Pioneer	P1395	Optimum Intrasect	Yellow		2730	113
Golden Acres Genetics	Golden Acres	G6832	SmartStax	Yellow	Red	1440	
Golden Acres Genetics	Golden Acres	G8828	Genuity VT Double PRO	Yellow	Red	1480	
Golden Acres Genetics	Golden Acres	G6792	SmartStax	Yellow	Red	1400	
Golden Acres Genetics	Golden Acres	G6708	Genuity VT Double PRO	Yellow	Red	1400	
Golden Acres Genetics	Golden Acres	5788	Genuity VT Double PRO	Yellow	Red	1380	
Golden Acres Genetics	Catalyst	7893	Agrisure Viptera 3111	Yellow	Red	2690	
Golden Acres Genetics	Golden Acres	G6611	Genuity VT Triple PRO	Yellow	Red	2700	
Golden Acres Genetics	Golden Acres	G7893	Agrisure Viptera 3111			1435	116
Hoegemeyer Hybrids	Hoegemeyer	HPT 8326	Optimum AcreMax (AM	Yellow	Pink	2730	113
Hoegemeyer Hybrids	Hoegemeyer	HPT 8414	Optimum AcreMax (AM	Yellow	Pink	2760	114
Hoegemeyer Hybrids	Hoegemeyer	HPT 8572	Optimum AcreMax (AM	Yellow	Red	2790	115
LG Seeds	LG Seeds	5650	SmartStax	Yellow	Red	2760	115
LG Seeds	LG Seeds	5663	Genuity VT Double PRO	Yellow	Red	2770	115
LG Seeds	LG Seeds	5643	SmartStax	Yellow	Red	2750	114
LG Seeds	LG Seeds	5618	SmartStax	Yellow	Red	2630	112
LG Seeds	LG Seeds	5606	SmartStax	Yellow	Red	2620	111
Monsanto	DEKALB	DKC 62-08	Genuity SmartStax			2800	112
Monsanto	DEKALB	DKC 64-69	Genuity VT Triple PRO			2850	114
NuTech Seed, LLC	NuTech	5F113	Optimum AcreMax (AM	Yellow	Red	2730	113
NuTech Seed, LLC	NuTech	5F713	Optimum AcreMax (AM	Yellow	Pink	2730	113

2017 Corn

Hybrid Characteristics



Company	Brand	Hybrid	Transgenic Traits	Grain Color	Cob Color	GDD to Maturity	Relative Maturity
NuTech Seed, LLC	NuTech	5F709	Optimum AcreMax (AM	Yellow	Red	2640	109
NuTech Seed, LLC	NuTech	5V217	Agrisure Viptera 3111	Yellow	White	2800	117
NuTech Seed, LLC	NuTech	5H216	Herculex 1 (HX1)	Yellow	Pink	2780	116
NuTech Seed, LLC	NuTech	5FB9016	Optimum AcreMax (AM	Yellow	Red		112
NuTech Seed, LLC	NuTech	XFN1305	Optimum AcreMax (AM	Yellow	Red		113
NuTech Seed, LLC	NuTech	5F015	Optimum AcreMax (AM	Yellow	Red	2800	115
Progeny Ag Products	Progeny	PGY4114	Genuity VT Double PRO	Yellow	Red	2606	114
Progeny Ag Products	Progeny	EXP1716	Genuity VT Double PRO	Yellow	Red	2760	116
Progeny Ag Products	Progeny	EXP1715	Genuity SmartStax	Yellow	Red	2790	115
Progeny Ag Products	Progeny	EXP1714	Genuity VT Double PRO	Yellow	Red	2620	114
Progeny Ag Products	Progeny	EXP1712	Genuity VT Double PRO	Yellow	Red	2580	112
Progeny Ag Products	Progeny	PGY6119	Genuity VT Double PRO	Yellow	Red	2722	119
Progeny Ag Products	Progeny	PGY6116	Genuity VT Double PRO	Yellow	Red	2840	116
Progeny Ag Products	Progeny	PGY5115	Genuity VT Double PRO	Yellow	Red	2828	115
Progeny Ag Products	Progeny	EXP1726	Genuity VT Double PRO	Yellow	Red	2810	116
Progeny Ag Products	Progeny	PGY7111	Genuity VT Double PRO	Yellow	Red	2561	111
Progeny Ag Products	Progeny	PGY6110	Genuity VT Double PRO	Yellow	Red	2585	110
Progeny Ag Products	Progeny	PGY7215	Genuity VT Double PRO	Yellow	Red	2575	115
Syngenta	NK	NK1405-3220	Agrisure Viptera 3111	Yellow	Red	2640	114
Syngenta	NK	N76A	Agrisure 3000GT	Yellow	Red	2660	114
Syngenta	NK	N83D	Agrisure 3000GT	Yellow		2700	

2017 Corn Hybrid Characteristics



Company	Brand	Hybrid	Transgenic Traits	Grain Color	Cob Color	GDD to Maturity	Relative Maturity
Syngenta	NK	N78S	Agrisure Viptera 3111	Yellow	Pink	2690	116
Terral Seed, Inc.	REV	25BHR26	Optimum Intrasect	Yellow	Red		115
Terral Seed, Inc.	REV	23LPR55	Leptra	Yellow	Pink		113
Terral Seed, Inc.	REV	25LPR26	Leptra	Yellow	Red		115
Terral Seed, Inc.	REV	26LPR50	Leptra	Yellow	Red		116
Terral Seed, Inc.	REV	28BHR18	Optimum Intrasect	Yellow	Red		118
Texas A&M AgriLife	Texas A&M AgriLife Research	TST1/TX779	BGTCBLL	Yellow			
Texas A&M AgriLife	Texas A&M AgriLife Research	TST4/TX777	RR2	Yellow			
Texas A&M AgriLife	Texas A&M AgriLife Research	TST2/TX779	RR2	Yellow			
Texas A&M AgriLife	Texas A&M AgriLife Research	TST2/TX777	RR2	Orange	White		
Texas A&M AgriLife	Texas A&M AgriLife Research	TST2/TX780	RR2	Yellow			
Wilbur-Ellis Company	Integra	6647	N/A		Pink	2870	116
Wilbur-Ellis Company	Integra	9678	Genuity VT Triple PRO	Yellow	Red	2814	117
Wilbur-Ellis Company	Integra	6474	Genuity VT Double PRO	Yellow	Red	2825	114
Wilbur-Ellis Company	Integra	6273	N/A		Red	2780	112
Wilbur-Ellis Company	Integra	6400	Genuity SmartStax		Red	2880	114
Wilbur-Ellis Company	Integra	6533	N/A		Red	2775	115

Hybrid characteristics are provided by representatives of each company.
For additional information contact your local seed dealer or:
Katrina Horn
khorn@tamu.edu
979-845-8505

Corn

Company Contacts



Company	Brand	Contact Information	Phone	Email
Advanta Seeds	Phoenix	Rusty Bevel 201 E. John Carpenter Fwy, Suite 660 Irving, TX 75062	806-654-4500	rusty.bevel@advantaseeds.com
Agventure Pinnacle	Agventure	Nick Vos 2545 Road J Hugoton, KS 67951	620-629-1164	nick@prairie.cc
Anzu Genetica Seed	Anzu Genetica	Jose Anzaldua 9404 Oak Hill Dr Waco, TX 76712	254-548-7447	betoanzaldua@anzugenetica.com
CHS Inc	Allegiant	Mark Morris 2209 CR 60 Plainview, TX 79072	806-293-5341	mark.morris@chsinc.com
Crop Production Services	Dyna-Gro	Cord Willms 1024 Willms Road Columbus, TX 78934	361-960-4399	james.willms@cpsagu.com
Crop Production Services	Dyna-Gro	Shawn Carter 3492 Long Prairie Rd, Suite 200 Flower Mound, TX 75028		shawn.carter@cpsagu.com
Golden Acres Genetics	Golden Acres	James Allison P.O. Box 579 Buchanan Dam, TX 78609	512-793-5205	aggie.allison@gmail.com
Hoegemeyer Hybrids	Hoegemeyer	Jeremy Horvatich 1755 Hoegemeyer Road Hooper, NE 68031	402-654-3399	j.horvatich@hoegemeyer.com
LG Seeds	LG Seeds	Matt Teply 74172 330 Ave Imperial, NE 69033	308-883-0515	matt.teply@lgseeds.com
NuTech Seed, LLC	NuTech	Jim Bueltel 2321 N. Loop Drive, Suite 120 Ames, IA 50010	515-520-4457	jim.bueltel@nutechseed.com
Progeny Ag Products	Progeny	John Rocconi 1529 Hwy 193 Wynne, AR 72396	979-587-9968	johnr@progenyag.com

Corn

Company Contacts



Company	Brand	Contact Information	Phone	Email
Syngenta	NK	Mark Mattingly 4013 Fairmount Pike Signal Mountain, TN 37377	717-951-2730	mark.mattingly@syngenta.com
Terral Seed, Inc.	REV	Marty Hale 117 Ellington Dr Rayville, LA 71269	318-231-8814	mhale@terralseed.com
Wilbur-Ellis Company	Integra	Ramon Medrano 2305 Winthrop Hill Rd Argyle, TX 76226	214-608-5305	rmedrano@wilburellis.com
Wilbur-Ellis Company	Integra	Bracken Finney 2305 Winthrop Hill Rd Argyle, TX 76226	512-517-5456	rfinney@wilburellis.com

Monte Alto

2017 Corn

Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Golden Acres	G8828	Genuity VT Double PRO	N/A	80	29	27,644	14.2	60.7	195
Golden Acres	G7893	Agrisure Viptera 3111	N/A	81	29	25,550	13.1	56.7	189
Dyna-Gro	D57VP51	Genuity VT Triple PRO	N/A	80	28	27,644	13.7	59.2	186
REV	25BHR26	Optimum Intrasect	N/A	82	28	28,900	13.6	59.1	184
Integra	9678	Genuity VT Triple PRO	N/A	77	27	28,063	13.3	59.0	182
Progeny	PGY6119	Genuity VT Double PRO	N/A	79	30	27,141	14.0	60.8	181
REV	26LPR50	Leptra	N/A	84	28	27,057	13.9	61.3	181
Pioneer	P1395	Optimum Intrasect	N/A	81	28	27,560	13.7	59.1	180
DEKALB	DKC 64-69	Genuity VT Triple PRO	N/A	80	32	26,974	13.7	58.9	180
Dyna-Gro	D56VP46	Genuity VT Triple PRO	N/A	77	29	26,974	13.9	58.6	179
REV	23LPR55	Leptra	N/A	84	30	27,225	13.1	56.3	179
Golden Acres	G6708	Genuity VT Double PRO	N/A	78	28	28,230	13.6	59.2	178
Integra	6647	N/A	N/A	78	27	28,482	13.9	58.0	178
Progeny	PGY6116	Genuity VT Double PRO	N/A	79	28	26,471	13.3	57.9	177
Progeny	EXP1715	Genuity SmartStax	N/A	79	31	28,146	14.2	59.1	173
Progeny	EXP1716	Genuity VT Double PRO	N/A	81	28	26,806	14.3	61.1	173
Golden Acres	G6792	SmartStax	N/A	82	35	27,057	13.1	60.1	171
Integra	6533	N/A	N/A	78	29	27,560	13.6	59.5	171
Texas A&M AgriLife Research	TST1/TX779	BGTCBLL	N/A	83	31	22,618	14.1	58.2	169
Texas A&M AgriLife Research	TST2/TX777	RR2	N/A	89	36	24,963	14.1	59.1	168
Progeny	EXP1726	Genuity VT Double PRO	N/A	77	26	27,560	13.2	59.0	166

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

Monte Alto 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
NK	N78S	Agrisure Viptera 3111	N/A	80	28	26,387	13.3	56.7	165
Integra	6400	Genuity SmartStax	N/A	75	26	28,733	13.4	56.9	162
Progeny	PGY7215	Genuity VT Double PRO	N/A	79	28	23,037	14.0	59.1	158
Texas A&M AgriLife Research	TST2/TX779	RR2	N/A	87	38	21,780	14.0	61.4	157
Dyna-Gro	D54VC52	Genuity VT Double PRO	N/A	79	29	25,717	13.7	59.1	156
Dyna-Gro	58SS65	Genuity SmartStax	N/A	75	26	26,555	14.1	59.7	153
Anzu Genetica	AG 1911	Conventional	N/A	85	32	24,963	14.2	58.0	141
Anzu Genetica	AG 2525	N/A	N/A	83	33	25,633	15.7	58.2	138
NK	N76A	Agrisure 3000GT	N/A	80	26	25,298	13.3	54.4	132
Anzu Genetica	MA-9035	N/A	N/A	82	31	20,188	15.1	59.3	121
Progeny	PGY5115	Genuity VT Double PRO	N/A	73	23	26,890	13.6	57.7	119
Anzu Genetica	AG 9002	N/A	N/A	85	34	18,429	15.4	59.2	116
Integra	6273	N/A	N/A	72	22	26,806	13.3	56.8	102

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

Monte Alto

2017 Corn

Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Agronomic information									
Plant Date	2/14/2017	Mean		80	29	26,148	13.8	58.7	164
Harvest Date	7/11/2017	C.V. %		3.3	10.2	5.4	4.8	1.6	11.1
Irrigated	Yes	P>f (hybrid)		0.000	0.000	0.000	0.000	0.000	0.000
Row Spacing (in)	30	L.S.D.		3.7	4.2	1,994.7	1.0	1.4	26.4
Number of Rows	2	Trial Notes							
Seeds per Acre	30,000	*Appreciation is expressed to Andy Scott and Juan Garza for their assistance in monitoring and maintaing the test block.							
N (lb/ac)		Cooperator Rio Farms Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505							
P2O5 (lb/ac)									
K2O (lb/ac)									
Precipitation (in)	11.61								
Irrigation (in)		Soil Type Tillage Previous Crop							
Herbicide									

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

Monte Alto

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Crop Production Services	Dyna-Gro	D57VP51	179	179
Terral Seed, Inc.	REV	25BHR26	171	168
Wilbur-Ellis Company	Integra	9678	170	
Syngenta	NK	N78S	168	
Crop Production Services	Dyna-Gro	D54VC52	163	
Anzu Genetica Seed	Anzu Genetica	AG 1911	144	133
Syngenta	NK	N76A	142	
Anzu Genetica Seed	Anzu Genetica	MA-9035	133	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

San Patricio County (Irrigated)

2017 Corn

Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Progeny	PGY6119	Genuity VT Double PRO	63	81	32	26,401	14.2	59.8	173
Golden Acres	G6708	Genuity VT Double PRO	63	81	31	25,975	14.1	58.8	170
Golden Acres	G6611	Genuity VT Triple PRO	63	78	30	25,801	13.6	56.8	165
REV	25LPR26	Leptra	65	87	36	25,054	13.9	58.4	164
Dyna-Gro	D57VP51	Genuity VT Triple PRO	63	80	29	25,633	14.0	58.2	162
Progeny	PGY6116	Genuity VT Double PRO	62	80	32	25,410	13.8	56.7	159
REV	23LPR55	Leptra	63	82	32	26,338	13.6	57.4	159
Dyna-Gro	D56VP46	Genuity VT Triple PRO	61	77	28	25,550	13.7	57.3	156
REV	26LPR50	Leptra	66	84	29	26,555	14.3	60.6	155
Dyna-Gro	58SS65	Genuity SmartStax	63	79	30	24,461	13.8	59.7	153
Dyna-Gro	D54VC52	Genuity VT Double PRO	62	79	28	23,325	13.9	58.1	147
DEKALB	DKC 64-69	Genuity VT Triple PRO	62	76	28	25,124	13.9	57.3	145
Pioneer	P1395	Optimum Intrasect	63	78	27	26,841	14.2	57.2	143
Progeny	PGY7215	Genuity VT Double PRO	61	80	31	24,014	14.0	57.5	141
REV	28BHR18	Optimum Intrasect	64	81	30	22,129	14.0	59.3	141
Dyna-Gro	D55VP77	Genuity VT Triple PRO	61	74	25	25,801	13.7	57.6	136
Progeny	PGY5115	Genuity VT Double PRO	62	77	26	25,801	13.6	57.9	130

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

San Patricio County (Irrigated)

2017 Corn

Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Agronomic information									
Plant Date	2/24/2017	Mean	63	80	30	25,307	13.9	58.2	153
Harvest Date	7/21/2017	C.V. %	1.1	4.1	9.2	5.1	1.2	0.7	8.8
Irrigated	Yes	P>f (hybrid)	0.000	0.001	0.001	0.001	0.000	0.000	0.001
Row Spacing (in)	30	L.S.D.	1.0	4.8	4.0	1,893.6	0.3	0.6	19.7
Number of Rows	2	Trial Notes							
Seeds per Acre	26,000	*Special thanks to Bob McCool, San Patricio CEA, for assisting with planting, note taking, and monitoring test block.							
N (lb/ac)	119	Cooperator Ring Brothers Farms Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505							
P2O5 (lb/ac)	43								
K2O (lb/ac)	1								
Precipitation (in)	16.22								
Irrigation (in)	1.5								
Herbicide	16 oz/A Glystar Original + 2.4 pt/A Atrazine + 14.4 oz/A Brimstone applied 2/28/17	Soil Type							
		Tillage	Disked, chiseled, field cultivated						
		Previous Crop							

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

Port Lavaca 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Integra	6474	Genuity VT Double PRO	62	85	32	22,353	13.9	56.1	157
Golden Acres	G6611	Genuity VT Triple PRO	61	81	28	22,419	13.9	57.1	154
REV	25LPR26	Leptra	64	88	30	22,882	13.1	57.1	151
REV	23LPR55	Leptra	63	84	30	22,816	13.1	56.0	151
Dyna-Gro	D56VP46	Genuity VT Triple PRO	61	79	29	21,229	13.7	56.8	148
Progeny	PGY6116	Genuity VT Double PRO	60	79	29	21,692	13.9	56.8	147
Integra	6647	N/A	61	78	28	21,824	13.9	57.1	147
Progeny	PGY6119	Genuity VT Double PRO	63	79	29	21,890	14.1	58.8	147
Dyna-Gro	D57VP51	Genuity VT Triple PRO	62	79	27	20,634	13.7	57.3	146
DEKALB	DKC 62-08	Genuity SmartStax	62	80	35	21,692	13.2	56.4	144
Golden Acres	G8828	Genuity VT Double PRO	63	81	29	21,493	13.8	59.3	144
Golden Acres	G7893	Agrisure Viptera 3111	63	83	30	20,105	13.6	55.9	141
Integra	6533	N/A	59	82	30	20,964	13.6	57.8	141
Integra	9678	Genuity VT Triple PRO	60	78	32	21,890	13.8	57.2	140
Pioneer	P1395	Optimum Intrasect	63	83	27	22,684	13.5	57.5	140
REV	26LPR50	Leptra	65	85	30	22,155	14.9	59.9	140
NK	N83D	Agrisure 3000GT	64	85	28	22,684	13.9	55.4	138
NK	NK1405-3220	Agrisure Viptera 3111	63	85	34	22,221	13.2	55.7	136
Dyna-Gro	D54VC52	Genuity VT Double PRO	60	82	30	18,782	13.7	57.8	134
Dyna-Gro	58SS65	Genuity SmartStax	63	74	26	21,758	13.5	58.2	133
NK	N76A	Agrisure 3000GT	61	85	28	20,766	13.3	52.8	132

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

Port Lavaca 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Golden Acres	G6708	Genuity VT Double PRO	63	78	28	20,105	13.6	57.3	132
Progeny	PGY7215	Genuity VT Double PRO	59	81	29	18,782	13.7	57.8	127
Integra	6273	N/A	57	74	23	22,485	13.0	55.8	126
NK	N78S	Agrisure Viptera 3111	63	83	30	19,509	13.6	55.8	125
Progeny	PGY5115	Genuity VT Double PRO	60	77	24	21,560	13.1	57.5	123
Integra	6400	Genuity SmartStax	62	78	29	21,163	13.2	55.9	123
REV	28BHR18	Optimum Intrasect	64	84	28	15,938	13.9	58.9	121

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

Port Lavaca 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Agronomic information			Mean	62	81	29	21,231	13.6	57.0	139
Plant Date	3/9/2017	C.V. %	1.7	3.1	10.0	5.0	1.4	0.6	7.9	
Harvest Date	7/26/2017	P>f (hybrid)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Irrigated	No	L.S.D.	1.5	3.5	4.1	1,500.2	0.3	0.5	15.4	
Trial Notes										
Row Spacing (in)	38	*Fertilizer applied pre-plant in January								
Number of Rows	2									
Seeds per Acre	24,000									
N (lb/ac)	120									
P2O5 (lb/ac)	40									
K2O (lb/ac)	20									
Precipitation (in)	22.84									
Irrigation (in)										
Herbicide										
1 qt/A Roundup + 1 oz/A Sharpen applied in February. 13 oz/A Outlook + 1 qt/A Roundup + 1 lb/A Atrazine applied in March			Soil Type							
			Tillage	Conventional						
			Previous Crop	Corn						

Cooperator

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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:
Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

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

Port Lavaca

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Wilbur-Ellis Company	Integra	6474	154	
Golden Acres Genetics	Golden Acres	G6611	153	
Crop Production Services	Dyna-Gro	D57VP51	152	
Wilbur-Ellis Company	Integra	9678	144	
Crop Production Services	Dyna-Gro	D54VC52	142	
Syngenta	NK	N76A	135	
Syngenta	NK	N78S	134	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Medina County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Golden Acres	G6708	Genuity VT Double PRO	65	88	36	26,457	11.8	58.0	169
REV	23LPR55	Leptra	65	93	42	26,597	11.5	57.1	165
DEKALB	DKC 62-08	Genuity SmartStax	64	88	42	26,876	12.0	56.2	165
Integra	9678	Genuity VT Triple PRO	64	85	40	27,434	12.6	57.7	161
Integra	6400	Genuity SmartStax	64	91	40	26,876	11.9	55.6	160
REV	25LPR26	Leptra	66	94	43	26,597	11.6	58.4	160
NK	NK1405-3220	Agrisure Viptera 3111	67	94	43	27,295	12.1	56.7	159
REV	28BHR18	Optimum Intrasect	66	95	40	23,316	12.5	58.6	158
Golden Acres	G7893	Agrisure Viptera 3111	66	92	40	26,527	12.8	56.6	158
Integra	6647	N/A	64	92	40	26,457	12.1	57.4	157
Integra	6533	N/A	63	88	41	28,272	13.1	57.8	156
Pioneer	P1395	Optimum Intrasect	66	90	41	25,201	11.9	58.2	156
Integra	6474	Genuity VT Double PRO	65	91	45	27,085	12.0	53.1	153
NK	N78S	Agrisure Viptera 3111	67	91	40	25,061	13.0	56.5	151
Integra	6273	N/A	62	85	34	26,457	11.5	57.7	140
REV	26LPR50	Leptra	68	93	39	25,899	12.3	59.0	140
NK	N83D	Agrisure 3000GT	67	93	39	24,852	11.7	58.0	136
NK	N76A	Agrisure 3000GT	65	90	37	24,433	11.9	55.1	128

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

Medina County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Agronomic information			Mean	65	90	40	26,205	12.1	57.1	154
Plant Date	3/14/2017		C.V. %	1.0	3.3	7.1	6.1	2.3	0.7	7.3
Harvest Date	7/25/2017		P>f (hybrid)	0.000	0.000	0.001	0.011	0.000	0.000	0.000
Irrigated	Yes		L.S.D.	0.9	4.2	4.1	2,257.3	0.4	0.6	16.0
Row Spacing (in)	36	Trial Notes								
Number of Rows	2									
Seeds per Acre	30,000	*Appreciation is expressed to Mr. Derrick Drury, Medina CEA & Mr. Wayne Scholtz, retired CEA for assisting with data collection & monitoring test block. *Applied Afla-Guard aerially at suggested rate for Aflatoxin (A. flavus) 5/28								
N (lb/ac)	222									
P2O5 (lb/ac)	75	*Zinc applied pre-plant								
K2O (lb/ac)	6									
Precipitation (in)	12.7	Soil Type Knippa Clay								
Irrigation (in)	12									
Herbicide		Tillage Conventional, planted on raised beds								
Roundup applied pre-plant. Roundup + Atrazine applied mid-April										
		Previous Crop Corn								
		Cooperator Paul Aelvoet								
		Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505								

Cooperator Paul Aelvoet

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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:
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ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

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

Medina County

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Wilbur-Ellis Company	Integra	9678	176	169
Wilbur-Ellis Company	Integra	6474	169	156
Syngenta	NK	N78S	160	156
Syngenta	NK	N76A	139	133

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

College Station 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Dyna-Gro	D57VP51	Genuity VT Triple PRO	68	89	30	27,381	12.4	59.0	250
REV	25LPR26	Leptra	68	87	26	27,899	10.3	59.7	249
Golden Acres	G6832	SmartStax	69	86	27	27,277	10.5	60.1	243
Dyna-Gro	D56VP46	Genuity VT Triple PRO	66	86	28	25,721	12.8	58.7	241
REV	26LPR50	Leptra	70	87	26	27,795	11.3	61.1	237
Dyna-Gro	58SS65	Genuity SmartStax	68	88	29	26,551	10.7	61.0	232
Progeny	EXP1715	Genuity SmartStax	69	82	22	27,795	10.7	60.4	232
Golden Acres	G6708	Genuity VT Double PRO	67	86	27	26,032	12.1	59.0	231
Integra	6533	N/A	66	86	26	27,484	11.6	59.8	231
DEKALB	DKC 64-69	Genuity VT Triple PRO	66	85	28	25,099	11.4	59.6	230
REV	23LPR55	Leptra	68	81	25	27,277	10.0	57.9	230
Progeny	PGY6119	Genuity VT Double PRO	67	83	24	28,210	11.6	60.6	230
Progeny	PGY6116	Genuity VT Double PRO	66	81	27	27,069	11.1	58.7	226
Pioneer	P1395	Optimum Intrasect	69	87	28	27,899	10.5	59.6	225
Integra	9678	Genuity VT Triple PRO	66	87	31	26,966	12.6	59.0	225
Integra	6474	Genuity VT Double PRO	66	88	29	26,862	10.5	57.2	224
Texas A&M AgriLife Research	TST2/TX780	RR2	73	90	28	26,655	16.2	58.3	223
Progeny	EXP1714	Genuity VT Double PRO	65	86	27	27,381	10.7	59.7	221
Progeny	EXP1726	Genuity VT Double PRO	66	83	24	26,032	10.7	59.3	220
Progeny	EXP1716	Genuity VT Double PRO	69	89	30	27,795	11.9	60.3	219
Progeny	EXP1712	Genuity VT Double PRO	67	84	27	26,655	10.9	58.8	217

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

College Station 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Integra	6400	Genuity SmartStax	66	84	24	26,343	10.6	58.3	216
Integra	6647	N/A	66	83	25	24,165	11.4	58.8	213
REV	28BHR18	Optimum Intrasect	68	87	27	21,676	10.6	60.1	213
Dyna-Gro	D54VC52	Genuity VT Double PRO	66	91	30	25,203	11.8	59.7	209
Texas A&M AgriLife Research	TST2/TX777	RR2	71	85	28	24,269	12.7	59.9	208
Golden Acres	G6611	Genuity VT Triple PRO	66	85	26	26,136	11.5	58.7	208
Progeny	PGY7215	Genuity VT Double PRO	65	83	26	24,684	11.5	59.6	206
Progeny	PGY5115	Genuity VT Double PRO	66	81	26	25,617	10.4	59.3	205
Progeny	PGY7111	Genuity VT Double PRO	65	85	27	26,136	9.8	57.2	204
Golden Acres	G6792	SmartStax	68	87	28	27,588	11.4	59.0	203
Catalyst	7893	Agrisure Viptera 3111	66	83	25	24,477	10.7	57.0	189
Progeny	PGY4114	Genuity VT Double PRO	65	83	25	26,862	10.1	59.3	188
Texas A&M AgriLife Research	TST2/TX779	RR2	70	87	30	21,884	12.1	61.5	188
Integra	6273	N/A	63	83	26	26,551	10.1	58.1	184
Progeny	PGY6110	Genuity VT Double PRO	65	84	27	21,158	10.2	58.5	165

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

College Station 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Agronomic information			Mean	67	85	27	26,127	11.3	59.3	218
Plant Date	3/3/2017	C.V. %	0.9	6.6	15.5	6.6	3.0	0.6	5.6	
Harvest Date	7/28/2017	P>f (hybrid)	0.000	0.691	0.634	0.000	0.000	0.000	0.000	
Irrigated	Yes	L.S.D.	0.9			2,425.5	0.5	0.5	17.1	
Trial Notes										
Row Spacing (in)	30	*Pre-plant fertilizer applied 2/28/17 (150lb 11-37-0) *Fertilized 4/7/17 (70 gal 32-0-0) *Test cultivated 4/17/17 *Special thanks to Jacob Pekar and crew for monitoring and maintaining test block								
Number of Rows	2									
Seeds per Acre	30,000									
N (lb/ac)	263									
P2O5 (lb/ac)	56									
K2O (lb/ac)	0									
Precipitation (in)	26.08									
Irrigation (in)										
Herbicide										
3/3/17 pre-emerge 1.5 lb Atrazine + 1.6 pt S-Metachlor applied. 4/17/17 1 qt Atrazine+ 1 qt Prowl H2O applied w/ drop nozzles		Soil Type	Ships clay loam							
		Tillage	Conventional							
		Previous Crop	Corn							

Cooperator Texas A&M AgriLife Research

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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:
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ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

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

College Station

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Crop Production Services	Dyna-Gro	D57VP51	214	209
Wilbur-Ellis Company	Integra	6474	199	196
Wilbur-Ellis Company	Integra	9678	193	195
Golden Acres Genetics	Golden Acres	G6611	184	
Crop Production Services	Dyna-Gro	D54VC52	174	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Thrall 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
DEKALB	DKC 62-08	Genuity SmartStax	N/A	65	22	21,696	13.0	54.6	99
Dyna-Gro	58SS65	Genuity SmartStax	N/A	69	19	21,529	13.7	56.6	93
REV	26LPR50	Leptra	N/A	76	19	23,707	13.9	57.5	89
REV	28BHR18	Optimum Intrasect	N/A	78	22	17,173	13.5	57.3	89
Integra	6474	Genuity VT Double PRO	N/A	67	21	21,529	12.9	53.6	89
Integra	6400	Genuity SmartStax	N/A	67	20	22,953	12.7	53.9	87
Golden Acres	5788	Genuity VT Double PRO	N/A	68	22	23,120	13.5	55.5	86
REV	25LPR26	Leptra	N/A	77	21	22,450	13.0	55.0	85
Dyna-Gro	D56VP46	Genuity VT Triple PRO	N/A	70	24	20,942	13.2	54.2	84
NuTech	5F113	Optimum AcreMax (AM-R)	N/A	77	20	22,450	13.5	56.2	83
Integra	6533	N/A	N/A	66	20	21,864	13.0	54.5	83
Integra	9678	Genuity VT Triple PRO	N/A	65	18	21,194	13.2	54.3	81
Dyna-Gro	D57VP51	Genuity VT Triple PRO	N/A	70	21	21,529	12.6	53.2	78
Dyna-Gro	D54VC52	Genuity VT Double PRO	N/A	70	23	18,932	13.1	54.5	76
NK	N76A	Agrisure 3000GT	N/A	75	22	20,942	11.8	48.3	72
REV	23LPR55	Leptra	N/A	74	20	23,288	12.3	52.5	72
Integra	6273	N/A	N/A	64	17	21,445	11.9	52.6	71
NuTech	5V217	Agrisure Viptera 3111	N/A	75	20	22,366	13.1	54.4	70
NK	N78S	Agrisure Viptera 3111	N/A	72	22	21,445	12.5	53.6	67
Pioneer	P1395	Optimum Intrasect	N/A	70	18	21,864	13.7	55.7	66
Integra	6647	N/A	N/A	68	20	20,440	12.7	53.5	65

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

Thrall

2017 Corn

Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
NK	NK1405-3220	Agrisure Viptera 3111	N/A	78	26	21,612	12.7	51.9	65
Texas A&M AgriLife Research	TST2/TX777	RR2	N/A	83	28	20,188	12.5	53.6	64
Golden Acres	G6708	Genuity VT Double PRO	N/A	71	19	20,607	12.8	53.7	64
NuTech	5F713	Optimum AcreMax (AM-R)	N/A	73	19	22,534	12.3	52.6	64
NuTech	5F015	Optimum AcreMax (AM-R)	N/A	71	17	23,120	13.1	55.0	62
Golden Acres	G6611	Genuity VT Triple PRO	N/A	65	21	20,775	12.7	52.6	61
Golden Acres	G7893	Agrisure Viptera 3111	N/A	75	23	20,188	13.4	53.6	60
Texas A&M AgriLife Research	TST2/TX779	RR2	N/A	82	31	14,576	14.0	57.1	59
NK	N83D	Agrisure 3000GT	N/A	77	24	21,696	11.7	51.3	56
NuTech	5F709	Optimum AcreMax (AM-R)	N/A	69	18	21,612	12.1	52.5	55
Texas A&M AgriLife Research	TST4/TX777	RR2	N/A	75	27	18,094	11.9	52.2	54
NuTech	5H216	Herculex 1 (HX1)	N/A	78	23	20,607	12.8	53.8	53

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

Thrall 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Agronomic information									
Plant Date	3/22/2017	Mean		72	21	21,166	12.9	54.0	73
Harvest Date	8/9/2017	C.V. %		6.0	13.8	7.7	4.2	1.7	13.4
Irrigated	No	P>f (hybrid)		0.000	0.000	0.000	0.000	0.000	0.000
Row Spacing (in)	30	L.S.D.		6.1	4.2	2,295.4	0.8	1.3	13.7
Number of Rows	2	Trial Notes							
Seeds per Acre	24,000	*Fertilizer application at planting of 11-37-0 *One fertilizer application of 32-0-0 during growing season							
N (lb/ac)	150	Cooperator Stiles Farm Foundation Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505							
P2O5 (lb/ac)	35								
K2O (lb/ac)	0								
Precipitation (in)	23.21								
Irrigation (in)									
Herbicide	1.1 lb/A Atrazine + 1.3 pt/A Medal + 1 qt/A Powermax, AMS & CoC applied pre-emerge	Soil Type							
		Tillage	No-till						
		Previous Crop	Grain Sorghum						

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

Thrall

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Syngenta	NK	N76A	70	93
Wilbur-Ellis Company	Integra	6474	68	87
Wilbur-Ellis Company	Integra	9678	67	91
Syngenta	NK	N78S	62	81
Crop Production Services	Dyna-Gro	D54VC52	62	
Crop Production Services	Dyna-Gro	D57VP51	61	87
NuTech Seed, LLC	NuTech	5F113	60	
Texas A&M AgriLife	Texas A&M AgriLife Research	TST2/TX777	58	80
Golden Acres Genetics	Golden Acres	G6611	54	
NuTech Seed, LLC	NuTech	5F709	50	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Bardwell

2017 Corn

Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
REV	23LPR55	Leptra	68	88	33	23,623	12.7	58.6	189
Dyna-Gro	D57VP51	Genuity VT Triple PRO	68	81	30	22,701	14.3	59.7	189
Golden Acres	G6708	Genuity VT Double PRO	60	78	30	22,562	15.1	59.8	184
Integra	6647	N/A	66	82	33	23,344	13.9	59.1	183
Dyna-Gro	58SS65	Genuity SmartStax	68	79	30	22,785	14.7	61.4	183
Golden Acres	G6611	Genuity VT Triple PRO	67	83	34	21,864	13.5	59.0	181
NuTech	5F713	Optimum AcreMax (AM-R)	68	85	31	21,948	12.8	58.7	181
NK	N83D	Agrisure 3000GT	69	89	34	22,115	14.2	60.2	180
Integra	6474	Genuity VT Double PRO	67	84	35	22,869	13.7	59.2	177
REV	28BHR18	Optimum Intrasect	68	90	37	19,434	14.5	60.8	177
Dyna-Gro	D56VP46	Genuity VT Triple PRO	66	81	32	21,948	14.5	60.2	177
Integra	6533	N/A	67	84	33	23,120	15.0	61.3	177
NK	N76A	Agrisure 3000GT	67	92	33	22,701	13.0	58.1	177
REV	26LPR50	Leptra	69	91	31	22,953	15.1	62.6	176
NK	NK1405-3220	Agrisure Viptera 3111	69	93	34	23,623	13.2	58.1	176
Integra	9678	Genuity VT Triple PRO	67	77	31	21,864	14.5	59.8	176
Dyna-Gro	D55VP77	Genuity VT Triple PRO	67	77	28	22,450	14.5	60.0	175
NuTech	5V217	Agrisure Viptera 3111	69	91	32	21,892	14.4	61.0	175
DEKALB	DKC 62-08	Genuity SmartStax	67	75	33	23,120	13.8	59.9	174
Dyna-Gro	D54VC52	Genuity VT Double PRO	67	83	33	20,691	14.6	60.7	173
Integra	6400	Genuity SmartStax	67	81	32	22,701	13.3	58.8	171

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

Bardwell 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
REV	25LPR26	Leptra	69	84	31	23,120	13.3	59.3	169
NK	N78S	Agrisure Viptera 3111	68	87	33	20,942	13.8	58.6	168
NuTech	5F015	Optimum AcreMax (AM-R)	69	85	32	22,701	13.8	60.9	167
NuTech	5F113	Optimum AcreMax (AM-R)	67	93	33	22,953	14.1	61.0	167
Pioneer	P1395	Optimum Intrasect	68	82	31	22,115	13.9	60.5	167
Golden Acres	5788	Genuity VT Double PRO	67	82	32	22,534	14.7	61.0	167
Golden Acres	G7893	Agrisure Viptera 3111	69	83	32	22,199	13.7	58.3	165
Texas A&M AgriLife Research	TST2/TX777	RR2	71	93	38	21,668	15.2	60.8	163
NuTech	5H216	Herculex 1 (HX1)	68	89	33	21,696	14.2	61.2	159
Integra	6273	N/A	N/A	79	30	22,897	13.4	59.3	154
NuTech	5F709	Optimum AcreMax (AM-R)	67	88	31	22,701	12.8	58.2	152
Texas A&M AgriLife Research	TST2/TX779	RR2	73	88	37	19,267	15.3	63.1	150

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

Bardwell 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Agronomic information			Mean	68	85	32	22,276	14.0	60.0	173
Plant Date	3/16/2017	C.V. %	3.0	2.7	5.4	4.9	3.2	1.0	8.3	
Harvest Date	8/17/2017	P>f (hybrid)	0.000	0.000	0.000	0.000	0.000	0.000	0.038	
Irrigated	No	L.S.D.	3.4	3.3	2.6	1,579.0	0.7	0.9	21.3	
Row Spacing (in)	30	Trial Notes								
Number of Rows	2	Cooperator Bob & Steve Beakley Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505								
Seeds per Acre	24,000									
N (lb/ac)	92									
P2O5 (lb/ac)	18									
K2O (lb/ac)	38									
Precipitation (in)	24.22	Soil Type								
Irrigation (in)		Tillage	Minimum							
Herbicide	1.5 oz/A Zidua applied at planting	Previous Crop	Cotton							

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

Bardwell

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Syngenta	NK	N76A	151	146
Golden Acres Genetics	Golden Acres	G6611	144	134
Crop Production Services	Dyna-Gro	D57VP51	144	140
Syngenta	NK	N78S	144	
Golden Acres Genetics	Golden Acres	5788	143	
Wilbur-Ellis Company	Integra	9678	141	138
Wilbur-Ellis Company	Integra	6474	138	132
Crop Production Services	Dyna-Gro	D54VC52	133	
Texas A&M AgriLife	Texas A&M AgriLife Research	TST2/TX777	119	119
NuTech Seed, LLC	NuTech	5F709	112	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Hunt County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Dyna-Gro	D56VP46	Genuity VT Triple PRO	71	90	34	23,784	13.5	57.3	206
Dyna-Gro	D57VP51	Genuity VT Triple PRO	72	88	32	23,174	14.2	58.3	201
REV	25LPR26	Leptra	72	93	35	23,697	13.6	58.5	198
DEKALB	DKC 62-08	Genuity SmartStax	71	87	35	23,784	14.1	58.7	198
REV	23LPR55	Leptra	73	94	33	23,261	13.8	56.7	198
Integra	6533	N/A	70	89	34	22,913	14.3	59.1	195
REV	26LPR50	Leptra	73	94	30	23,435	15.2	60.9	193
Golden Acres	G6708	Genuity VT Double PRO	72	91	32	22,825	15.0	58.4	190
REV	28BHR18	Optimum Intrasect	73	96	35	20,735	15.1	58.5	187
NuTech	5F015	Optimum AcreMax (AM-R)	73	94	30	23,697	14.3	59.7	184
Pioneer	P1395	Optimum Intrasect	71	92	32	23,958	14.4	58.8	183
Integra	6647	N/A	71	89	35	22,825	13.9	58.4	182
Integra	9678	Genuity VT Triple PRO	70	86	31	23,784	14.7	58.5	181
Golden Acres	5788	Genuity VT Double PRO	70	88	32	22,216	15.1	60.5	181
Golden Acres	G6611	Genuity VT Triple PRO	71	87	30	22,738	14.2	58.2	180
NuTech	5H216	Herculex 1 (HX1)	73	95	33	22,128	15.7	59.0	177
Golden Acres	G7893	Agrisure Viptera 3111	70	90	33	21,606	13.9	57.3	174
NuTech	5V217	Agrisure Viptera 3111	70	95	29	23,522	14.8	59.3	172
NuTech	5F113	Optimum AcreMax (AM-R)	70	93	33	23,784	14.4	60.0	171
NuTech	5F713	Optimum AcreMax (AM-R)	72	95	33	23,348	13.4	57.0	171
Integra	6400	Genuity SmartStax	71	91	34	23,348	14.6	57.3	171

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

Hunt County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Integra	6474	Genuity VT Double PRO	69	91	33	23,348	13.9	57.6	170
Dyna-Gro	58SS65	Genuity SmartStax	72	87	29	21,344	14.3	59.5	170
Dyna-Gro	D54VC52	Genuity VT Double PRO	70	91	30	21,606	14.3	59.6	165
NuTech	5F709	Optimum AcreMax (AM-R)	70	89	30	23,871	14.1	57.3	158
Texas A&M AgriLife Research	TST2/TX777	RR2	74	99	41	18,382	14.5	59.5	150
Texas A&M AgriLife Research	TST2/TX779	RR2	77	95	38	18,557	15.4	61.3	144
Texas A&M AgriLife Research	TST4/TX777	RR2	74	94	37	17,947	14.7	59.0	140
Integra	6273	N/A	68	87	29	23,087	13.9	58.3	130

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

Hunt County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Agronomic information			Mean	71	91	33	22,507	14.4	58.7	177
Plant Date	3/23/2017	C.V. %	2.0	3.2	7.9	5.7	6.8	1.2	8.2	
Harvest Date	9/4/2017	P>f (hybrid)	0.000	0.000	0.000	0.000	0.146	0.000	0.000	
Irrigated	No	L.S.D.	2.0	4.1	3.6	1,822.3		1.0	20.4	
Row Spacing (in)	30	Trial Notes								
Number of Rows	2	*Special thanks to Mr. Russell Sutton for maintaining, monitoring, and note taking in the test block.								
Seeds per Acre	24,000									
N (lb/ac)	150									
P2O5 (lb/ac)										
K2O (lb/ac)										
Precipitation (in)	41.7									
Irrigation (in)										
Herbicide	1 qt/A of Atrazine + 1 qt/A Roundup applied early December. 1 qt Atrazine applied after planting.									
Soil Type										
Tillage	Disked twice, field cultivated in fall									
Previous Crop	Wheat									

Cooperator Texas A&M AgriLife Research

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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:
Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

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

Hunt County
Corn
Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Golden Acres Genetics	Golden Acres	5788	138	
NuTech Seed, LLC	NuTech	5F113	129	
NuTech Seed, LLC	NuTech	5F709	118	
Texas A&M AgriLife	Texas A&M AgriLife Research	TST2/TX777	110	90

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Moore County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
REV	23LPR55	Leptra	79	103	44	28,691	18.1	54.9	270
Integra	9678	Genuity VT Triple PRO	79	96	40	29,738	19.7	56.0	268
LG Seeds	5618	SmartStax	80	97	36	29,654	19.4	54.7	267
Dyna-Gro	D55VP77	Genuity VT Triple PRO	78	95	42	28,817	19.7	55.2	267
Agventure	EXP1014AM	Optimum AcreMax (AM-R)	82	103	41	29,906	21.2	54.0	267
Progeny	PGY6119	Genuity VT Double PRO	82	100	44	29,996	22.8	55.8	266
Integra	6647	N/A	79	102	39	29,822	20.7	54.6	264
DEKALB	DKC 62-08	Genuity SmartStax	81	97	44	30,743	20.0	55.8	263
Integra	6533	N/A	79	101	41	27,728	20.0	57.1	263
NuTech	5V217	Agrisure Viptera 3111	79	107	43	29,068	20.6	55.7	262
Golden Acres	G8828	Genuity VT Double PRO	82	98	45	28,854	21.2	56.1	261
Phoenix	6542	Agrisure Viptera 3111	81	102	43	30,324	20.5	55.2	259
LG Seeds	5663	Genuity VT Double PRO	79	102	45	26,639	21.9	57.3	259
Hoegemeyer	HPT 8572	Optimum AcreMax (AM-R)	80	101	42	29,425	21.7	56.6	259
Golden Acres	G6832	SmartStax	82	98	40	29,277	20.9	56.8	259
Dyna-Gro	D58VC37	Genuity VT Double PRO	80	99	38	28,817	21.6	54.1	258
Integra	6400	Genuity SmartStax	80	99	40	30,734	18.6	55.1	258
Progeny	PGY6116	Genuity VT Double PRO	78	98	38	29,403	22.2	55.8	258
Golden Acres	G7893	Agrisure Viptera 3111	81	103	44	27,177	21.5	53.1	258
Progeny	PGY7215	Genuity VT Double PRO	78	98	41	26,555	20.0	55.8	258
Phoenix	6342	Agrisure Viptera 3111	80	101	39	29,026	18.8	51.2	258

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

Moore County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
NuTech	5F015	Optimum AcreMax (AM-R)	79	103	38	29,654	20.5	56.1	257
LG Seeds	5643	SmartStax	81	100	42	30,953	19.9	54.5	257
Progeny	EXP1715	Genuity SmartStax	81	100	44	30,408	20.5	55.8	257
NuTech	5F713	Optimum AcreMax (AM-R)	79	101	43	30,785	19.1	55.6	256
Allegiant	11758	N/A	81	99	43	30,492	18.6	52.8	255
Progeny	EXP1726	Genuity VT Double PRO	78	93	35	29,487	18.8	55.2	255
REV	25LPR26	Leptra	81	103	41	29,403	19.9	56.0	255
Progeny	EXP1714	Genuity VT Double PRO	77	97	39	30,115	20.3	57.3	255
Hoegemeyer	HPT 8414	Optimum AcreMax (AM-R)	80	99	41	29,403	18.3	55.3	254
Golden Acres	5788	Genuity VT Double PRO	79	103	45	29,682	19.1	57.0	254
LG Seeds	5650	SmartStax	80	98	41	30,672	19.3	56.9	253
Progeny	EXP1716	Genuity VT Double PRO	82	99	42	28,733	21.5	55.9	253
Agventure	EXP1013AM	Optimum AcreMax (AM-R)	81	98	37	29,531	17.7	53.5	253
Progeny	PGY5115	Genuity VT Double PRO	81	97	36	29,143	19.1	55.9	253
Integra	6474	Genuity VT Double PRO	81	102	42	29,201	19.4	54.2	252
Allegiant	11697	N/A	78	99	42	30,027	19.5	53.9	250
Integra	6273	N/A	79	99	39	31,101	19.0	55.4	249
NuTech	5FB9016	Optimum AcreMax (AM-R)	80	104	38	28,358	20.2	56.0	249
Pioneer	P1395	Optimum Intrasect	80	100	37	28,146	20.6	57.7	248
NuTech	XFN1305	Optimum AcreMax (AM-R)	78	103	44	29,035	19.3	54.5	247
Progeny	EXP1712	Genuity VT Double PRO	81	100	40	29,277	19.1	56.4	245

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

Moore County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
REV	28BHR18	Optimum Intrasect	81	103	45	22,407	20.8	55.9	239
Hoegemeyer	HPT 8326	Optimum AcreMax (AM-R)	79	104	38	30,701	19.1	54.9	238
Progeny	PGY4114	Genuity VT Double PRO	79	102	40	27,811	20.2	55.9	234
LG Seeds	5606	SmartStax	78	98	43	29,864	19.6	54.4	233
Agventure	RL7844YHB	Optimum Intrasect	78	98	39	27,979	18.4	55.2	232
Progeny	PGY7111	Genuity VT Double PRO	78	98	35	29,403	19.1	54.9	230
Progeny	PGY6110	Genuity VT Double PRO	78	98	37	24,126	18.9	55.0	205

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

Moore County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Agronomic information									
Plant Date	4/27/2017	Mean	80	100	41	29,108	19.9	55.4	253
Harvest Date	10/13/2017	C.V. %	1.6	2.8	7.4	6.8	7.1	2.8	4.6
Irrigated	Yes	P>f (hybrid)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Row Spacing (in)	30	L.S.D.	1.8	4.0	4.2	2,760.8	2.0	2.3	16.4
Number of Rows	2	Trial Notes							
Seeds per Acre	32,000	*Comite 2 applied pre-tassel *Prevathon applied at silking for earworm & SWCB *Prevathon applied at dough stage for SWCB *Phosphorous levels high in field							
N (lb/ac)	192	*Special appreciation expressed to Marcel Fischbacher, Moore Co. CEA, for assisting with planting, silk notes, and harvest notes.							
P2O5 (lb/ac)	0	Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505							
K2O (lb/ac)	0								
Precipitation (in)	30.87								
Irrigation (in)	18								
Herbicide	Basis Blend + Brash + Atrazine applied 3/17. Cinch ATZ + Sharpen + Roundup applied at planting. Status + IronClad + Atrazine applied post emergence		Soil Type						
			Tillage	Strip-till					
			Previous Crop	Wheat					

Cooperator Justin Crownover;Lonestar Family Farms

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

Moore County

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Crop Production Services	Dyna-Gro	D58VC37	280	
Crop Production Services	Dyna-Gro	D55VP77	276	284
NuTech Seed, LLC	NuTech	5F015	272	
Wilbur-Ellis Company	Integra	9678	271	275
NuTech Seed, LLC	NuTech	5F713	271	
Advanta Seeds	Phoenix	6542	269	270
Golden Acres Genetics	Golden Acres	5788	267	
Wilbur-Ellis Company	Integra	6273	259	
Agventure Pinnacle	Agventure	RL7844YHB	258	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Hansford County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Integra	6533	N/A	76	106	39	28,587	14.5	61.0	283
LG Seeds	5663	Genuity VT Double PRO	76	108	40	28,984	16.1	61.9	279
Progeny	PGY6119	Genuity VT Double PRO	76	110	40	29,822	16.3	62.0	277
Allegiant	11758	N/A	77	110	44	30,532	14.6	61.7	275
Agventure	EXP1014AM	Optimum AcreMax (AM-R)	78	115	41	32,084	14.3	59.8	275
Golden Acres	G8828	Genuity VT Double PRO	78	111	41	30,195	15.6	61.3	270
Golden Acres	G6832	SmartStax	77	109	40	28,984	14.7	61.5	270
Dyna-Gro	D58VC65	Genuity VT Double PRO	76	105	39	29,822	14.9	61.4	269
LG Seeds	5643	SmartStax	76	109	41	30,743	13.5	59.2	268
Progeny	EXP1716	Genuity VT Double PRO	77	107	42	29,822	16.0	62.2	266
LG Seeds	5650	SmartStax	76	109	43	29,403	14.9	61.8	265
DEKALB	DKC 64-69	Genuity VT Triple PRO	76	107	41	29,164	15.0	60.9	264
Dyna-Gro	D58VC37	Genuity VT Double PRO	75	104	39	28,316	15.0	61.2	264
REV	28BHR18	Optimum Intrasect	77	115	44	22,953	15.4	61.1	263
Integra	6400	Genuity SmartStax	76	108	41	31,162	13.7	59.2	263
REV	23LPR55	Leptra	76	112	42	31,581	13.6	59.1	262
Dyna-Gro	D55VP77	Genuity VT Triple PRO	75	103	38	30,405	14.5	60.4	261
NuTech	XFN1305	Optimum AcreMax (AM-R)	76	113	43	29,261	13.2	58.4	259
Progeny	PGY6116	Genuity VT Double PRO	75	106	37	28,032	14.7	59.0	258
Agventure	AV8714YHB	Optimum Intrasect	76	111	42	29,403	14.3	61.4	257
NuTech	5F015	Optimum AcreMax (AM-R)	77	113	43	29,907	14.4	61.2	257

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

Hansford County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Progeny	PGY7215	Genuity VT Double PRO	75	110	39	27,811	14.7	60.6	257
Pioneer	P1395	Optimum Intrasect	77	112	39	29,789	15.6	62.0	257
Phoenix	6342	Agrisure Viptera 3111	77	112	41	30,749	12.9	57.0	256
Golden Acres	5788	Genuity VT Double PRO	77	111	43	30,377	14.3	61.0	254
Progeny	EXP1715	Genuity SmartStax	77	112	45	31,330	15.3	61.6	253
Integra	6647	N/A	75	107	42	28,733	14.6	60.2	253
Progeny	EXP1714	Genuity VT Double PRO	75	107	39	29,235	14.9	60.8	253
Integra	6474	Genuity VT Double PRO	76	111	45	28,598	12.8	58.6	251
Progeny	EXP1712	Genuity VT Double PRO	76	109	40	30,995	14.1	60.3	250
NuTech	5FB9016	Optimum AcreMax (AM-R)	77	116	42	26,097	14.4	59.2	250
Progeny	EXP1726	Genuity VT Double PRO	76	103	38	28,892	14.6	60.3	250
Agventure	EXP1013AM	Optimum AcreMax (AM-R)	76	111	37	28,367	13.6	59.3	250
LG Seeds	5618	SmartStax	76	102	37	30,562	14.6	60.7	249
Progeny	PGY4114	Genuity VT Double PRO	75	109	40	29,233	13.7	60.4	247
Allegiant	11697	N/A	76	107	42	27,507	13.5	58.3	247
NuTech	5V217	Agrisure Viptera 3111	77	119	42	28,148	14.9	59.9	246
Integra	9678	Genuity VT Triple PRO	75	103	37	27,560	15.1	59.9	243
LG Seeds	5606	SmartStax	76	108	43	31,422	13.2	59.9	242
Phoenix	6542	Agrisure Viptera 3111	77	114	45	28,063	14.6	58.3	239
NuTech	5F713	Optimum AcreMax (AM-R)	76	114	42	30,732	13.2	58.7	239
REV	25LPR26	Leptra	77	117	43	30,568	13.8	60.3	236

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

Hansford County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Progeny	PGY7111	Genuity VT Double PRO	75	106	38	28,398	12.3	58.4	232
Integra	6273	N/A	75	106	41	31,581	14.0	58.9	231
Progeny	PGY5115	Genuity VT Double PRO	76	106	38	29,310	13.9	59.6	229
Golden Acres	G7893	Agrisure Viptera 3111	76	115	45	24,293	14.8	57.6	228
Progeny	PGY6110	Genuity VT Double PRO	75	106	38	23,455	14.0	60.1	194

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

Hansford County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Agronomic information									
Plant Date	4/27/2017	Mean	76	109	41	29,169	14.4	60.2	254
Harvest Date	10/26/2017	C.V. %	1.3	2.8	5.9	6.5	5.2	1.5	7.5
Irrigated	Yes	P>f (hybrid)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Row Spacing (in)	30	L.S.D.	1.4	4.3	3.4	2,652.4	1.1	1.3	27.0
Number of Rows	2	Trial Notes							
Seeds per Acre	32,000	*Special appreciation expressed to Andrew Sprague, Hansford Co. CEA, for assisting with planting, silk notes, and harvest notes.							
N (lb/ac)		Cooperator Travis Patterson Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505							
P2O5 (lb/ac)									
K2O (lb/ac)									
Precipitation (in)	29.51								
Irrigation (in)									
Herbicide		Soil Type							
		Tillage							
		Previous Crop							

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

Hansford County

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
NuTech Seed, LLC	NuTech	5F015	278	
Golden Acres Genetics	Golden Acres	5788	275	
Crop Production Services	Dyna-Gro	D58VC37	272	
Crop Production Services	Dyna-Gro	D55VP77	270	
NuTech Seed, LLC	NuTech	5F713	267	
Advanta Seeds	Phoenix	6542	265	
Wilbur-Ellis Company	Integra	9678	252	
Wilbur-Ellis Company	Integra	6273	250	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

Dallam County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
DEKALB	DKC 62-08	Genuity SmartStax	67	89	36	29,319	21.1	58.8	201
Integra	9678	Genuity VT Triple PRO	67	85	32	28,482	20.6	57.7	189
Progeny	PGY6119	Genuity VT Double PRO	67	87	33	28,565	23.9	59.2	187
Dyna-Gro	D58VC65	Genuity VT Double PRO	68	91	33	28,817	22.7	58.8	187
Agventure	EXP1013AM	Optimum AcreMax (AM-R)	69	92	34	29,654	20.7	58.3	186
Integra	6647	N/A	68	91	33	28,398	20.1	58.3	186
Integra	6474	Genuity VT Double PRO	68	93	36	29,319	19.4	58.0	185
Progeny	EXP1726	Genuity VT Double PRO	68	89	32	27,476	20.3	58.7	182
Golden Acres	G6832	SmartStax	69	90	33	27,644	22.5	58.9	182
Agventure	EXP1014AM	Optimum AcreMax (AM-R)	68	94	32	29,235	21.1	58.4	181
Progeny	EXP1714	Genuity VT Double PRO	68	85	28	29,319	20.2	61.0	179
LG Seeds	5643	SmartStax	68	91	31	28,146	21.1	56.6	178
Phoenix	6342	Agrisure Viptera 3111	69	90	33	27,811	18.8	56.6	178
LG Seeds	5618	SmartStax	68	84	29	30,157	21.8	58.8	176
Dyna-Gro	D58VC37	Genuity VT Double PRO	68	87	29	27,811	21.4	57.6	176
Allegiant	11697	N/A	68	88	31	27,728	19.7	57.3	175
Integra	6273	N/A	68	86	30	29,319	18.1	59.8	174
Integra	6400	Genuity SmartStax	68	90	33	29,487	18.7	57.6	173
LG Seeds	5663	Genuity VT Double PRO	68	86	35	27,811	19.9	59.9	172
NuTech	5V217	Agrisure Viptera 3111	68	98	35	28,984	19.8	59.0	171
LG Seeds	5606	SmartStax	67	90	36	29,906	18.7	59.7	171

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

Dallam County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Allegiant	11758	N/A	69	93	34	28,984	20.0	59.2	171
NuTech	5F713	Optimum AcreMax (AM-R)	68	90	36	29,654	19.1	58.0	171
Integra	6533	N/A	68	86	32	27,309	20.5	59.4	169
Phoenix	6542	Agrisure Viptera 3111	68	95	34	29,068	20.8	56.1	169
Dyna-Gro	D55VP77	Genuity VT Triple PRO	68	84	30	27,895	20.8	60.1	168
Progeny	EXP1715	Genuity SmartStax	69	90	35	29,068	21.4	59.3	167
Agventure	AV7307YHB	Optimum Intrasect	68	87	33	28,482	18.7	59.1	167
Progeny	PGY6116	Genuity VT Double PRO	68	90	31	26,974	21.4	57.9	167
Golden Acres	5788	Genuity VT Double PRO	68	90	33	28,900	17.9	59.4	165
Progeny	EXP1716	Genuity VT Double PRO	69	92	33	27,225	21.7	58.7	164
NuTech	5FB9016	Optimum AcreMax (AM-R)	68	97	36	28,063	19.8	57.7	164
Progeny	EXP1712	Genuity VT Double PRO	68	89	30	29,152	18.7	58.5	163
Phoenix	6948	Agrisure 3000GT	68	92	32	28,900	20.7	58.0	163
Progeny	PGY4114	Genuity VT Double PRO	68	94	33	26,974	18.2	59.0	160
Golden Acres	G8828	Genuity VT Double PRO	68	95	36	26,387	21.9	58.0	159
LG Seeds	5650	SmartStax	68	90	36	29,906	20.8	59.8	158
Progeny	PGY5115	Genuity VT Double PRO	68	84	29	26,052	20.1	59.4	158
Golden Acres	G7893	Agrisure Viptera 3111	68	91	34	24,879	19.9	56.8	157
Progeny	PGY7215	Genuity VT Double PRO	68	88	33	26,052	20.3	58.9	156
NuTech	5F015	Optimum AcreMax (AM-R)	68	90	36	27,811	20.9	59.9	156
REV	25LPR26	Leptra	68	93	36	28,314	19.6	59.6	154

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

Dallam County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
REV	28BHR18	Optimum Intrasect	68	93	35	23,790	20.5	59.3	149
REV	23LPR55	Leptra	68	90	34	26,304	19.0	58.2	148
Progeny	PGY7111	Genuity VT Double PRO	68	93	31	26,136	17.8	58.5	147
Pioneer	P1395	Optimum Intrasect	69	88	33	27,895	21.6	59.9	142
NuTech	XFN1305	Optimum AcreMax (AM-R)	68	94	35	27,728	18.2	56.6	138
Progeny	PGY6110	Genuity VT Double PRO	67	87	31	21,948	18.2	59.5	128

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

Dallam County 2017 Corn Performance Trial

Brand	Hybrid	GE Trait(s)	Days to 50% Silk	Plant Height (in)	Ear Height (in)	Plants per Acre	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Agronomic information			Mean	68	90	33	27,984	20.2	58.6	168
Plant Date	5/30/2017	C.V. %	0.9	3.3	8.2	6.4	5.0	1.5	8.3	
Harvest Date	10/31/2017	P>f (hybrid)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Irrigated	Yes	L.S.D.	0.8	4.1	3.8	2,522.6	1.4	1.3	19.6	
Row Spacing (in)	30	Trial Notes								
Number of Rows	2	*Special appreciation expressed to Mike Bragg, Dallam Co. CEA, for assisting with planting, silk notes, and harvest notes.								
Seeds per Acre	32,000									
N (lb/ac)										
P2O5 (lb/ac)										
K2O (lb/ac)										
Precipitation (in)	26.84									
Irrigation (in)										
Herbicide										
		Soil Type								
		Tillage								
		Previous Crop								

Cooperator **Ronald Meyer**

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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 Almaco meter units on a JD Max-Emerge II 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.

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

Dallam County

Corn

Multi-Year Summary



Company	Brand	Hybrid	2 yr AVG Yield (bu/acre)	3 yr AVG Yield (bu/acre)
Advanta Seeds	Phoenix	6542	218	223
Agventure Pinnacle	Agventure	AV7307YHB	214	
NuTech Seed, LLC	NuTech	5F713	208	
Crop Production Services	Dyna-Gro	D55VP77	207	219
Advanta Seeds	Phoenix	6948	207	
NuTech Seed, LLC	NuTech	5F015	207	
Crop Production Services	Dyna-Gro	D58VC37	206	
Wilbur-Ellis Company	Integra	9678	204	226
Wilbur-Ellis Company	Integra	6273	203	
Golden Acres Genetics	Golden Acres	5788	195	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.

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LITERATURE CITED

1. National Weather Service, Advanced Hydrological Prediction Service
<http://water.weather.gov/precip/index.php>

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