TEXAS A&M AGRILIFE EXTENSION

SCS-2018-22

2018 Texas A&M AgriLife Extension Corn Hybrid Trial

Department of Soil and Crop Science
Texas A&M AgriLife Extension

soilcrop.tamu.edu

2018 Texas A&M AgriLife Extension Corn Hybrid Trial

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County Extension Agents

Anthony Netardus
Bob McCool
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Cooperators

Alan and Lisa Stasney
Allen Gabrysch
Buddy Johnson
Chad & Fred Hahn
Leopold Grain
Ring Brothers Farm
Stephen Biles
Stiles Farm Foundation
TDCJ Darrington
Terry Marek
Tyroch

Introduction

Corn Hybrid Trial Texas AM AgriLife Extension conducts the uniform corn hybrid trials each year to provide growers in the region with accurate and unbiased information on hybrid performance. Selection of superior hybrids that are well adapted for a given region is essential for maximizing yield and profit.

Performance trials are conducted by cooperative arrangements between growers, company representatives and Texas AM AgriLife Extension personnel. Commercial farm equipment is typically used to plant and harvest. Test sites are on privately owned farms or at Texas A&M University AgriLife Research Centers. All entries are randomized and replicated three times at each location. All test sites are managed according to practices common to each production region. If replications are not available, statistical analysis cannot be performed and hybrid performance should be considered equal across hybrids for that

Suggestions for Hybrid Selection

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

Field-Plot Techniques

Hybrid performance trials are conducted at each location using a randomized complete block design with three replications of each entry (hybrid). Seeds for each hybrid are delivered to centralized distribution points in each sub-region. Plots are generally between 4 and 12 rows wide with row spacing ranging from 30 to 40 inches depending on location. All plots are planted using commercial farm equipment provided by growers or cooperators at each location.

Cultural and agronomic practices adapted for each region are used as determined by the cooperator. Most locations are harvested using commercial farm equipment and yield measured by weighing each plot using “weigh wagons”. Some locations may use hand harvesting of predetermined row lengths followed by mechanical threshing and weighing. Grain moisture and test weight are determined from grab samples and measured using instruments such as the Mini GAC plus or similar

Data Analysis and Reporting

Data from each location is analyzed statistically using SAS 9.4. 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, moisture, etc.) less than the LSD value represents variation in 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.

DeWitt County Corn Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION
Department of Soil and Crop Sciences

Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
LG Seeds	LG	5701	GEN VT2P	12.7	55.3	58.1
Mycogen Seeds	Mycogen	MY18D58	SSX	12.2	56.3	57.7
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	13.0	54.5	55.5
Monsanto	Dekalb	DKC 67-14	GEN VT2P	12.0	55.3	51.8
Mean				12.48	55.38	55.8
C.V. (%)				8.000	1.000	11.0
L.S.D.					1.15	
Pr>F (hybrid)				0.644	0.044	0.606

Agronomic information

Plant Date	3/6/2018
Harvest Date	7/23/2018
Irrigated	No
Row Spacing (in)	30
Number of Rows	6
Seeds per Acre	20,000
Nitrogen (lb N/ac)	122
Phosphorus (lb P2O5/ac)	48
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	24 oz. Roundup and 1.5 pts. Atrazine postemergence, before 5 leaf stage. Seed Treatment Only.

Cooperator: Chad & Fred Hahn

Agent: Anthony Netardus

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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San Patricio County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
LG Seeds	LG	5701	GEN VT2P			
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P			
Monsanto	Dekalb	DKC 67-14	GEN VT2P			
Mycogen Seeds	Mycogen	MY18D58	SSX			
Mean						
C.V. (%)						
L.S.D.						
Pr>F (hybrid)						

Agronomic information

Plant Date	
Harvest Date	
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator: Ring Brothers Farm

Agent: Bob McCool

Other Agronomic Info

Drought and high temeratures resulted in insufficient grain to harvest. Data not reported.

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Brazoria County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Terral Seed	REV	25LPR26				
LG Seeds	LG	5701	GEN VT2P			
B-H Genetics	B-H Genetics	BH 8660	GEN VT2P			
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P			
Monsanto	Dekalb	DKC 67-14	GEN VT2P			
Mycogen Seeds	Mycogen	MY16M16	Powercore			

Mean			
C.V. (%)			
L.S.D.			
Pr>F (hybrid)			

Agronomic information

Plant Date	
Harvest Date	
Irrigated	No
Row Spacing (in)	38
Number of Rows	6
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator: TDCJ Darrington

Agent: Jessica Chase

Other Agronomic Info

Excessive hog damage destroyed the test. Data not reported.

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Calhoun County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Terral Seed	REV	25LPR26				
LG Seeds	LG	5701	GEN VT2P			
B-H Genetics	B-H Genetics	BH 8660	GEN VT2P			
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P			
Monsanto	Dekalb	DKC 67-14	GEN VT2P			
Mycogen Seeds	Mycogen	MY16M16	Powercore			

Mean			
C.V. (%)			
L.S.D.			
Pr>F (hybrid)			

Agronomic information

Plant Date	
Harvest Date	
Irrigated	No
Row Spacing (in)	38
Number of Rows	2
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator: Stephen Biles

Agent: Geri Kline - Stephen Biles

Other Agronomic Info

Weigh system error resulted in unreliable data. Data not reported.

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Colorado County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Terral Seed	REV	25LPR26		12.2	57.8	99.5
LG Seeds	LG	5701	GEN VT2P	12.3	57.1	94.6
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	12.5	56.8	93.9
Monsanto	Dekalb	DKC 67-14	GEN VT2P	12.2	56.5	93.7
B-H Genetics	B-H Genetics	BH 8660	GEN VT2P	12.4	57.2	87.2
Mycogen Seeds	Mycogen	MY16M16	Powercore	12.2	57.4	84.2
Mean				12.28	57.14	92.2
C.V. (%)				2.000	1.000	1.5
L.S.D.					0.65	2.4
Pr>F (hybrid)				0.661	0.016	0.000

Agronomic information

Plant Date	3/22/2018
Harvest Date	8/1/2018
Irrigated	No
Row Spacing (in)	40
Number of Rows	4
Seeds per Acre	23,000
Nitrogen (lb N/ac)	152
Phosphorus (lb P2O5/ac)	59
Potassium (lb K2O/ac)	0
Precipitation (inches)	56.67
Soil Type	Laewest clay
Herbicde Insecticides	glyphosate+atrazine+paraquat at planting, 1 qt glyphosate/ac on 4/15/17, Mustang Max 2oz /ac in furrow

Cooperator: Leopold Grain

Agent: Stephen Janak

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Fort Bend County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Terral Seed	REV	25LPR26		12.6	58.0	199.0
Monsanto	Dekalb	DKC 67-14	GEN VT2P	12.7	58.5	186.0
Mycogen Seeds	Mycogen	MY16M16	Powercore	12.9	59.5	185.9
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	12.8	58.8	180.6
LG Seeds	LG	5701	GEN VT2P	12.8	57.8	179.7
Syngenta	Syngenta	1444	V3111	12.7	57.3	172.5
Mean				12.75	58.33	183.9
C.V. (%)				1.000	3.000	3.2
L.S.D.						10.6
Pr>F (hybrid)				0.225	0.551	0.005

Agronomic information

Plant Date	3/3/2018
Harvest Date	8/6/2018
Irrigated	No
Row Spacing (in)	36
Number of Rows	6
Seeds per Acre	26,000
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	Two applications of Acuron

Cooperator: Alan and Lisa Stasney

Agent: John Gordy

Other Agronomic Info

Aflaguard; irrigated around pollination; silk dates estimated, not observed

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Jackson County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	17.5	56.3	114.7
Monsanto	Dekalb	DKC 67-14	GEN VT2P	16.2	56.0	113.3
LG Seeds	LG	5701	GEN VT2P	17.0	56.1	110.5
Mycogen Seeds	Mycogen	MY16M16	Powercore	16.3	55.7	103.4
Mean				16.76	56.03	110.5
C.V. (%)				1.000	0.000	3.2
L.S.D.				0.40		7.0
Pr>F (hybrid)				0.001	0.093	0.028

Agronomic information

Plant Date	3/2/2018
Harvest Date	7/12/2018
Irrigated	No
Row Spacing (in)	38
Number of Rows	6
Seeds per Acre	25,200
Nitrogen (lb N/ac)	125
Phosphorus (lb P2O5/ac)	33
Potassium (lb K2O/ac)	11
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	3 pints Atrazine, 3 pints Sequence, 20 oz Roundup, 20 oz Roundup

Cooperator: Allen Gabrysch

Agent: Mike Hiller

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Wharton County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Progeny Ag Products	Progeny	PGY 7215		18.1	57.3	133.6
CPS Dyna-Gro	Dyna-Gro	D58SS65	SSX	18.5	57.7	133.0
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	19.8	55.8	126.8
CPS Dyna-Gro	Dyna-Gro	D56VP46	GEN VT3P	19.3	56.0	126.1
Monsanto	Dekalb	DKC 67-14	GEN VT2P	18.0	56.3	124.3
Terral Seed	REV	25LPR26		17.9	57.5	121.9
LG Seeds	LG	5701	GEN VT2P	19.5	56.5	121.3
Mycogen Seeds	Mycogen	MY16M16	Powercore	16.4	58.2	109.1
Mean				18.45	56.92	124.5
C.V. (%)				2.000	1.000	3.1
L.S.D.				0.59	0.96	6.8
Pr>F (hybrid)				0.000	0.001	0.000

Agronomic information

Plant Date	3/13/2018
Harvest Date	7/20/2018
Irrigated	No
Row Spacing (in)	38
Number of Rows	6
Seeds per Acre	24,500
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator: Terry Marek

Agent: Corrie Bowen

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Bell
County
Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Monsanto	Dekalb	DKC 67-14	GEN VT2P	11.3	53.0	54.1
Mycogen Seeds	Mycogen	MY16M16	Powercore	11.3	54.7	52.4
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	11.0	55.0	47.8
LG Seeds	LG	5701	GEN VT2P	11.1	55.0	46.2
Terral Seed	REV	25LPR26		11.5	56.3	40.0
Mean				11.25	54.80	48.1
C.V. (%)				2.000	2.000	5.0
L.S.D.					1.59	4.5
Pr>F (hybrid)				0.228	0.016	0.001

Agronomic information

Plant Date	3/23/2018
Harvest Date	
Irrigated	No
Row Spacing (in)	30
Number of Rows	6
Seeds per Acre	
Nitrogen (lb N/ac)	130
Phosphorus (lb P2O5/ac)	45
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator: Tyroch

Agent: Lyle Zoeller

Other Agronomic Info

1 qt Zn, N as Anhydrous

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Hill County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Monsanto	Dekalb	DKC 67-14	GEN VT2P	8.7	53.0	85.0
Wilbur-Ellis	Integra	9678		8.7	53.8	83.7
Terral Seed	REV	25LPR26		8.1	55.1	77.9
LG Seeds	LG	5701	GEN VT2P	8.5	52.1	77.3
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	8.4	53.6	75.8
Mycogen Seeds	Mycogen	MY16M16	Powercore	8.5	53.2	66.7
Mean				8.49	53.46	77.7
C.V. (%)				1.000	1.000	3.8
L.S.D.				0.20	1.19	5.4
Pr>F (hybrid)				0.001	0.005	0.000

Agronomic information

Plant Date	
Harvest Date	
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	132
Phosphorus (lb P2O5/ac)	31
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator:

Agent: Zach Davis

Other Agronomic Info

150 lb/A 82-0-0 preplant, 7 gallon/A 11-37-0 in furrow at planting previous crop cotton

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Milam County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
Monsanto	Dekalb	DKC 67-14	GEN VT2P	9.2	55.3	76.0
Mycogen Seeds	Mycogen	MY16M16	Powercore	9.1	57.0	75.0
LG Seeds	LG	5701	GEN VT2P	9.3	56.0	71.1
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	9.5	56.3	70.1
Terral Seed	REV	25LPR26		9.5	57.3	58.7
Mean				9.35	56.40	70.2
C.V. (%)				3.000	1.000	5.5
L.S.D.					0.84	7.2
Pr>F (hybrid)				0.452	0.004	0.004

Agronomic information

Plant Date	3/21/2018
Harvest Date	7/27/2018
Irrigated	No
Row Spacing (in)	30
Number of Rows	8
Seeds per Acre	25,500
Nitrogen (lb N/ac)	26
Phosphorus (lb P2O5/ac)	6
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	Roundup Power-Max 1 qt/A Atrazine 1 qt/A Laudis 3 oz/A

Cooperator: Buddy Johnson

Agent: Floyd Ingram

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at $p < 0.05$ (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Williamson County Corn Hybrid Trial 2018

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Company	Brand	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)
B-H Genetics	B-H Genetics	BH 8475	GEN SSX	12.3		88.8
Monsanto	Dekalb	DKC 67-14	GEN VT2P	12.5		68.8
Terral Seed	REV	25LPR26		12.5		66.3
LG Seeds	LG	5701	GEN VT2P	12.7		60.2
Mycogen Seeds	Mycogen	MY16M16	Powercore	12.6		57.5
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P	12.7		49.5
Mean				12.54		65.2
C.V. (%)				2.000		18.3
L.S.D.						21.6
Pr>F (hybrid)				0.471		0.034

Agronomic information

Plant Date	3/13/2018
Harvest Date	8/30/2018
Irrigated	No
Row Spacing (in)	30
Number of Rows	6
Seeds per Acre	25,000
Nitrogen (lb N/ac)	120
Phosphorus (lb P2O5/ac)	35
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicde Insecticides	

Cooperator: Stiles Farm Foundation

Agent: Cooper Terril

Other Agronomic Info

Atrazine and S-Metolachlor pre-emerge
Glyphosate post-emerge

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TEXAS A&M AgriLife Extension Service

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