

2018 Texas A&M AgriLife Extension Corn Hybrid Trial



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

2018 Texas A&M AgriLife Extension Corn Hybrid Trial

Dr. Ronnie Schnell Dr. Josh McGinty Stephen Biles

County Extension Agents

Anthony Netardus
Bob McCool
Cooper Terril
Corrie Bowen
Floyd Ingram
Geri Kline - Stephen Biles
Jessica Chase
John Gordy
Lyle Zoeller
Mike Hiller
Stephen Janak
Zach Davis

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

Herbicde

Insecticides

Corn Hybrid Trial 2018

24 oz. Roundup and 1.5 pts.

Seed Treatment Only.

leaf stage.

Atrazine postemergence, before 5



orn Hybrid T	rial 2018		ı	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 information		C.V. (%)	8.000	1.000	11.0
Plant Date		3/6/2018	L.S.D.		1.15	
Harvest Date		7/23/2018	Pr>F (hybrid)	0.644	0.044	0.606
Irrigated		No				
Row Spacing (in)		30	Cooperator:	Chad & Fred I	Hahn	
Number of Rows		6	Agent:	Anthony Neta	ardus	
Seeds per Acre		20,000		Other Ag	ronomic Info	
Nitrogen (lb N/ac)		122				
Phosphorus (lb P2O5/	ac)	48				
Potassium (lb K2O/ac) 0			Model : vield =	hvbrid + blk	. LSD provided wl	nen hvbrid
Precipitation (inches)			significant at p	< 0.05 (SAS 9.	4). Yields highligh	ted in yellow
Soil Type				,	from the top rank ct your local coun	,

agent or:

Dr. Ronnie Schnell

979-845-2935

ronschnell@tamu.edu

San Patricio County Corn Hybrid Trial 2018



			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				
CPS Dyna-Gro	Dyna-Gro	D57VC51	GEN VT2P				
Monsanto	Dekalb	DKC 67-14	GEN VT2P				
Mycogen Seeds	Mycogen	MY18D58	SSX				
Agronom Plant Date Harvest Date Irrigated Row Spacing (in) Number of Rows Seeds per Acre Nitrogen (lb N/ac) Phosphorus (lb P2O5	nic information	No 30 12	Agent:	h temeratures r	Farm ronomic Info esulted in insufficie	ent grain to	
Potassium (lb K2O/ac Precipitation (inches) Soil Type Herbicde Insecticides			significant at p are not statisti	< 0.05 (SAS 9. cally different rmation containell	. LSD provided w 4). Yields highligh from the top rank ct your local coun	ted in yellow ked hybrid. Fo	

Brazoria County Corn Hybrid Trial 2018



orn Hybrid I	riai ZU18		Department of Soil and Crop Scien				
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				
Agronomi	c information		Mean C.V. (%)				
Plant Date			L.S.D.				
Harvest Date			Pr>F (hybrid)				
Irrigated		No	_				
Row Spacing (in)		38		TDCJ Darring			
Number of Rows		6	Agent:	Jessica Chase	2		
Seeds per Acre				Other Ag	gronomic Info		
Nitrogen (lb N/ac)			Excessive hog da	mage destroye	d the test. Data not	reported.	
Phosphorus (lb P2O5/	ac)						
Potassium (lb K2O/ac)			Model : yield =	hybrid + blk	. LSD provided w	hen hybrid	
Precipitation (inches)				*	.4). Yields highligh from the top rank	,	
Soil Type			additional info		ict your local coun		
Herbicde Insecticides	agent or: Dr. Ronnie Schnell ronschnell@tamu.edu 979-845-2935						

Calhoun County Corn Hybrid Trial 2018



	-			·	bepartment.	or son and crop	Sciences
	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			
	Agronomic i Plant Date Harvest Date Irrigated Row Spacing (in) Number of Rows Seeds per Acre Nitrogen (lb N/ac) Phosphorus (lb P2O5/ac)		No 38 2	Agent:			a not reported.
Potassium (lb K2O/ac) Precipitation (inches) Soil Type Herbicde Insecticides				significant at p	< 0.05 (SAS 9. cally different rmation containell	. LSD provided widel. Yields highligh from the top rank ct your local coun	ted in yellow ked hybrid. For

Colorado County **Corn Hybrid Trial 2018**



Jili ilyo	ilu IIIai Zi		Department of Soil and Crop Sciences				
Company	Brand	l	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	Dekall	o	DKC 67-14	GEN VT2P	12.2	56.5	93.7
B-H Genetics	B-H G	B-H Genetics		GEN VT2P	12.4	57.2	87.2
Mycogen See	ds Mycog	gen	MY16M16	Powercore	12.2	57.4	84.2
				Mean	12.28	57.14	92.2
Agronomic information		C.V. (%)	2.000	1.000	1.5		
Plant Date			22/2018	L.S.D.		0.65	2.4
Harvest Date		8	3/1/2018	Pr>F (hybrid)	0.661	0.016	0.000
Irrigated			No				
Row Spacing	(in)		40	Cooperator: Leopold Grain			
Number of Ro	DWS		4	Agent:	nt: Stephen Janak		
Seeds per Acr	е		23,000	Other Agronomic Info			
Nitrogen (lb N	l/ac)		152				
Phosphorus (b P2O5/ac)		59				
Potassium (lb	K2O/ac)		0	Model : vield =	hvbrid + blk.	LSD provided w	hen hvbrid
Precipitation	(inches)		56.67	significant at p	< 0.05 (SAS 9.4	4). Yields highligh	ted in yellow
Soil Type		Laev	vest clay		,	from the top rank ct your local coun	,
Herbicde Insecticides	glyphosate+atrazine+paraquat at planting, 1 qt glyphosate/ac on 4/15/17, Mustang Max 2oz /ac in furrow			agent or: Dr. Ronnie Schr ronschnell@tar 979-845-2935			

Fort Bend County Corn Hybrid Trial 2018



Department of Soil and Crop Sciences

				Department of Soil and Crop Sciences					
Company	Bran	d	Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)		
Terral Seed	REV		25LPR26		12.6	58.0	199.0		
Monsanto	Deka	lb	DKC 67-14	GEN VT2P	1 2.7	58.5	186.0		
Mycogen See	ds Myco	gen	MY16M16	Powercore	1 2.9	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	Syng	enta	1444	V3111	12.7	57.3	172.5		
				Mean	12.75	58.33	183.9		
	ronomic inform			C.V. (%)	1.000	3.000	3.2		
Plant Date			3/3/2018	L.S.D.			10.6		
Harvest Date			8/6/2018	Pr>F (hybrid)	0.225	0.551	0.005		
Irrigated			No						
Row Spacing (in)		36	Cooperator: Alan and Lisa Stasney					
Number of Ro	WS		6	Agent: John Gordy					
Seeds per Acr	e		26,000	Other Agronomic Info					
Nitrogen (lb N Phosphorus (l	•			Aflaguard; irrigate observed	ed around polli	nation; silk dates ϵ	estimated, not		
Potassium (lb K2O/ac) Precipitation (inches)				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					
Soil Type Herbicde Insecticides	Two applications	of Acuro	n	additional information contact your local county extension agent or: Dr. Ronnie Schnell ronschnell@tamu.edu 979-845-2935					

Jackson County





orii nybriu iriai 2016				Department of Soil and Crop Sciences				
Company	Bran	d	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	Deka	ılb	DKC 67-14	GEN VT2P	16.2	56.0	113.3	
LG Seeds	LG		5701	GEN VT2P	17.0	56.1	110.5	
Mycogen See	ds Myco	ogen	MY16M16	Powercore	16.3	55.7	103.4	
Agronomic information				Mean	16.76	56.03	110.5	
	ronomic inform			C.V. (%)	1.000	0.000	3.2	
Plant Date			3/2/2018	L.S.D.	0.40		7.0	
Harvest Date		7,	/12/2018	Pr>F (hybrid)	0.001	0.093	0.028	
Irrigated			No					
Row Spacing ((in)		38	Cooperator:	Allen Gabrysch			
Number of Ro	ows		6	Agent:	Agent: Mike Hiller			
Seeds per Acr	е		25,200	Other Agronomic Info				
Nitrogen (lb N	I/ac)		125					
Phosphorus (I	b P2O5/ac)		33					
Potassium (lb	K2O/ac)		11	Model : vield =	hvbrid + blk	. LSD provided w	hen hybrid	
Precipitation	(inches)			significant at p	< 0.05 (SAS 9.	4). Yields highligh	ted in yellow	
Soil Type					,	from the top ranl ct your local cour	,	
Herbicde Insecticides 3 pints Atrazine, 3 pints Sequence, 20 oz Roundup, 20 oz Roundup			agent or: Dr. Ronnie Schr ronschnell@tar					

979-845-2935

Wharton County **Corn Hybrid Trial 2018**



orii riyoria ri	iai 2010		l	Department of Soil and Crop Sciences			
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		
	information		C.V. (%)	2.000	1.000	3.1	
Plant Date	3	3/13/2018	L.S.D.	0.59	0.96	6.8	
Harvest Date	7	//20/2018	Pr>F (hybrid)	0.000	0.001	0.000	
Irrigated		No					
Row Spacing (in)		38	Cooperator: Terry Marek				
Number of Rows		6	Agent:	Corrie Bowen			
Seeds per Acre		24,500	Other Agronomic Info				
Nitrogen (lb N/ac)							
Phosphorus (lb P2O5/a	c)						
Potassium (lb K2O/ac)			Model : vield =	hvbrid + blk.	LSD provided w	hen hybrid	
Precipitation (inches)			significant at p	< 0.05 (SAS 9.4	1). Yields highligh	ted in yellow	
Soil Type			additional info	•	from the top ranl at your local cour		
Herbicde Insecticides			agent or: Dr. Ronnie Schnell ronschnell@tamu.edu				

979-845-2935

Bell County

Corn Hybrid Trial 2018



Department of Soil and Crop Sciences

<u>-</u> _			<u> </u>	bepar tillelit	oi soii ailu crop	Jeienees	
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	
A = u = u = u =	is information		Mean	11.25	54.80	48.1	
	ic information	100 100 10	C.V. (%)	2.000	2.000	5.0	
Plant Date	3	3/23/2018	L.S.D.		1.59	4.5	
Harvest Date			Pr>F (hybrid)	0.228	0.016	0.001	
Irrigated		No					
Row Spacing (in)		30	Cooperator:	erator: Tyroch			
Number of Rows		6	Agent: Lyle Zoeller				
Seeds per Acre			Other Agronomic Info				
Nitrogen (lb N/ac)		130	1 qt Zn, N as Anhydrous				
Phosphorus (lb P2O5	/ac)	45					
Potassium (lb K2O/ac	:)	0	Model : vield =	hvbrid + blk	. LSD provided w	hen hybrid	
Precipitation (inches)			significant at p	< 0.05 (SAS 9.	4). Yields highligh	ted in yellow	
Soil Type Herbicde Insecticides				,	from the top rank ct your local coun	,	
			agent or: Dr. Ronnie Sch ronschnell@ta 979-845-2935				

Hill County

Corn Hybrid Trial 2018



Department of Soil and Crop Sciences

Moisture Tost Weight Viold

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	
A			Mean	8.49	53.46	77.7	
	information		C.V. (%)	1.000	1.000	3.8	
Plant Date			L.S.D.	0.20	1.19	5.4	
Harvest Date			Pr>F (hybrid)	0.001	0.005	0.000	
Irrigated		No					
Row Spacing (in)		30	Cooperator:				
Number of Rows		12	Agent:	Zach Davis			
Seeds per Acre			Other Agronomic Info				
Nitrogen (lb N/ac)		132	150 lb/A 82-0-0 preplant, 7 gallon/A 11-37-0 in furrow at planting				
Phosphorus (lb P2O5/a	ac)	31	previous crop cot	tton			
Potassium (lb K2O/ac)		0	Model : viold =	hybrid + blk	. LSD provided w	han hybrid	
Precipitation (inches)			· · · · · · · · · · · · · · · · · · ·	,	4). Yields highligh	· ·	
, , ,				•	from the top ran		
Soil Type			additional infor agent or:	mation conta	ct your local cour	nty extension	
Herbicde Insecticides			Dr. Ronnie Schr				
			ronschnell@tar 979-845-2935	nu.edu			
			3/3-045-2935				

Milam County

Corn Hybrid Trial 2018



Department of Soil and Crop Sciences

			Department of Soil and Crop Sciences				
Company	Brand	d Hybrid	Trait(s)	Moisture %	Test Weight (lb/bu)	Yield (bu/acre)	
Monsanto	Dekal	b DKC 67	'-14 GEN VT2P	9.2	55.3	76.0	
Mycogen See	ds Myco	gen MY16N	И16 Powercore	9.1	57.0	75.0	
LG Seeds	LG	5701	GEN VT2P	9.3	56.0	71.1	
CPS Dyna-Gro	Dyna-	-Gro D57VC	51 GEN VT2P	9.5	56.3	70.1	
Terral Seed	REV	25LPR2	26	9.5	57.3	58.7	
			Mean	9.35	56.40	70.2	
	ronomic inform		C.V. (%)	3.000	1.000	5.5	
Plant Date		3/21/2018	L.S.D.		0.84	7.2	
Harvest Date		7/27/2018	Pr>F (hybrid)	0.452	0.004	0.004	
Irrigated No							
Row Spacing	(in)	30	Cooperator:	Buddy Johnso	n		
Number of Ro	ows	8	Agent:	Agent: Floyd Ingram			
Seeds per Acr	e	25,500		Other Agronomic Info			
Nitrogen (lb N	I/ac)	26					
Phosphorus (b P2O5/ac)	6					
Potassium (lb	K2O/ac)	0	Model : vield :	= hvhrid + hlk	. LSD provided w	hen hyhrid	
Precipitation	(inches)		significant at p	o < 0.05 (SAS 9.4	4). Yields highligh	ted in yellow	
Soil Type			,	from the top ranl ct your local cour	,		
Herbicde Roundup Power-Max 1 qt/A Insecticides Atrazine 1 qt/A Laudis 3 oz/A			agent or: Dr. Ronnie Sch ronschnell@ta	additional information contact your local county extension agent or: Dr. Ronnie Schnell ronschnell@tamu.edu 979-845-2935			

Williamson County Corn Hybrid Trial 2018



Department of Soil and Crop Sciences Moisture **Test Weight** Yield Company **Hybrid** Trait(s) **Brand** (lb/bu) (bu/acre) % 12.3 88.88 **B-H Genetics** BH 8475 **GEN SSX B-H Genetics** 12.5 68.8 Dekalb DKC 67-14 **GEN VT2P** Monsanto 12.5 66.3 Terral Seed **REV** 25LPR26 **1**2.7 60.2 LG Seeds LG 5701 **GEN VT2P** 12.6 57.5 Mycogen Seeds Mycogen MY16M16 Powercore CPS Dyna-Gro Dyna-Gro D57VC51 **GEN VT2P 1**2.7 49.5 65.2 Mean 12.54 **Agronomic information** C.V. (%) 2.000 18.3 Plant Date 3/13/2018 L.S.D. 21.6 Harvest Date 8/30/2018 Pr>F (hybrid) 0.034 0.471 Irrigated No **Cooperator:** Stiles Farm Foundation 30 Row Spacing (in) **Agent:** Cooper Terril Number of Rows 6 Other Agronomic Info Seeds per Acre 25,000 Atrazine and S-Metolachlor pre-emerge Nitrogen (lb N/ac) 120 Glyphosate post-emerge Phosphorus (lb P2O5/ac) 35 Potassium (lb K2O/ac) 0 Model: yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow Precipitation (inches) are not statistically different from the top ranked hybrid. For Soil Type additional information contact your local county extension agent or: Herbicde Dr. Ronnie Schnell Insecticides ronschnell@tamu.edu 979-845-2935

	Produced by the Department of Soil and Crop Sciences
	soilcrop.tamu.edu
The	e information given herein is for educational purposes only. Reference to commercial products or trade names is made with the derstanding that no discrimination is intended and no endorsement by the Texas A&M AgriLife Extension Service is implied.
	TEXAS A&M AgriLife Extension Service
	AgriLifeExtension.tamu.edu
	Texas A&M AgriLife Extension is an equal opportunity employers and program providers. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating