

2010 UCCooperavive Extension Davis Corn Variety Trial - UC Davis

Cooperator: Jim Jackson Plant Science UC Davis
Experimenters: Brittan, Kochi
Soil Type: Yolo silt loam
Planting Date: April 29, 2010
Planter: John Deer Maxi Merg Air planter
Planting Depth: 2.5 inches
Rows Per Plot: 6, 2 rows/bed
Fertilizer: 16 lbs N Preplant + 250 lbs N Post emergence sidedressed
Irrigation: By furrow

Location: UCD Plant Sciences
Harvest Date: October 21, 2009
Seed drop: 7 inches
Length of Plots: 476 ft
Row Width: 2 rows on 60 inch beds
Replications: 2
Previous Crop: Wheat
Insecticide: None
Herbicide: Roundup Ultra Max

Initials	Entry Name/NO.	Company Name	Stand Plants/A	Days to Bloom	Maize							Moisture at Harv. (%)	Wt. lbs/bu	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
					Mosaic (%)	ear rot (%)	Smut (%)	Smut (%)	Plants Lodged (%)	Ear Height (in)	Bushel				
G2	5H-919 RR/HX	G2 Genetics	30492	80	0	0	0	0	0	61	12.2	62.5	11030	A	
DK	64-82RR2	Dekalb	30492	71	0	0	0	0	0	51	11.5	61.7	10751	AB	
CP	6818VT3	Croplan	30492	75	0	1	0	0	0	55	12.7	61.3	10674	ABC	
ES	7590VT3P	Eureka Seeds	31363	75	0	1	0	0	0	47	12.2	61.7	10610	ABCD	
NT	3C-616 RR/YGCB	NuTech Seed	30492	76	0	0	0	0	0	53	11.9	59.0	10358	BCDE	
CP	6150VT3	Croplan	29621	73	0	1	0	0	0	47	11.3	61.1	10238	CDEF	
G2	5X-815 RR/HXT	G2 Genetics	29621	71	0	0	0	0	0	52	12.0	62.7	10195	DEFG	
ES	7532VT3	Eureka Seeds	32234	76	0	1	0	0	1	48	11.7	59.0	10098	EFGH	
CP	6331VT3	Croplan	29621	73	0	0	0	0	0	51	12.2	61.1	10058	EFGH	
DK	67-88GENVT3P	Dekalb	30492	78	0	0	0	0	0	66	12.2	61.3	9841	FGH	
MY	2T784	Mycogen	31363	78	0	0	0	0	0	60	12.8	59.3	9755	GHI	
INT	9676VT3PRO	Integra	30492	72	0	0	0	0	1	51	12.4	62.4	9630	HI	
INT	9650VT3PRO	Integra	29621	75	0	0	0	0	0	45	11.5	58.5	9366	I	
Average			30492	75	0	0	0	0	0	52	12.0	60.9	10200		
Coefficient of Variation			3.9	1.1	NA	NA	NA	NA	NA	5.4	1.7	0.6	1.9		
LSD @ 5%			2561	1.7						6.2	0.4	0.8	430		
Probability of Significance			NS	**						**	**	**	**		
Rep effect										*					
Non-additivity															

¹Yield adjusted to 15% moisture
 * 95% Significance
 ** 99% Significance
 NS= Not Significantly different, NA= Not Analyzed no difference

2010 Delta Corn Variety Trial - Tyler Island

Cooperator: Steve and Gary Mello
Experimentors: Kent Brittan, Mark Kochi
Planting Date: May 3, 2010
Planting Method: White air planter, 8 row
Planting Depth: 2 inches
Rows Per Plot: 4

Location: Tyler Island
Length of Plots: 1330 ft
Row Width: 30 inches
Previous Crop: Corn
Harvest Date: October 14, 2010

Fertilizer: 25 gallons per acre of 8-24-6 with 1/2% zinc banded 1.5 inches and 1.5 inches to the side of seed.

Insecticide: None

Herbicide: Accent and Shark

Seed drop: 6 inches, 35,000seed/acre

Irrigation: By spud ditch

Soil Type: Rindge mucky silt loam, 10-25% Organic matter, Storie index 57, Grade 3

Entry		Company Name	Maize		Dwarf Fusarium Head Common Plants						Ear Moisture	Bushel	Duncan's Multiple	
Initials	Name/NO.		Stand Plants/A	Days to Bloom	Mosaic (%)	ear rot (%)	Smut (%)	Smut (%)	Lodged (%)	Height (in)				at Harv. (%)
DKC	64-82RR2	Dekalb	37462	73	0	2	4	0	0	55	16.5	61.4	15431	A
CP	6331VT3	Croplan	34848	74	0	2	4	0	0	52	17.0	58.8	14981	AB
CP	6818VT3	Croplan	36590	76	0	3	2	0	0	56	17.8	58.5	14464	ABC
ES	7532VT3	Eureka Seeds	35719	75	0	2	4	0	0	64	17.8	57.3	14463	ABC
INT	9673	Grower	36590	77	0	3	10	0	1	55	19.6	56.3	14443	ABC
DK	61-22	Grower	36590	76	0	4	9	0	0	56	16.1	59.2	14361	ABCD
DKC	62-63GENVT3P	Dekalb	36590	74	0	11	10	0	0	52	15.1	60.1	14317	ABCD
ES	7590VT3P	Eureka Seeds	35719	77	0	2	6	0	0	56	18.7	58.9	14313	ABCD
GH	H-9377GT/CB/L	Golden Harvest	36590	76	0	24	1	0	0	62	17.9	56.1	14259	BCD
BG	MX5565RR	Baglietto	36590	77	0	7	4	0	0	57	16.2	58.8	14213	BCD
INT	9650VT3PRO	Integra	33977	78	0	10	2	1	0	59	16.6	57.7	14193	BCD
MY	2T784	Mycogen	34848	77	0	0	10	1	0	61	18.0	56.7	14069	BCD
PI	33T55	Grower	33977	74	0	0	5	0	0	56	15.8	60.1	13575	CD
INT	9640VT3	Integra	34848	76	0	2	2	0	0	55	16.4	59.8	13253	DE
GH	H-9084GT/CB/L	Golden Harvest	35719	77	0	11	16	0	0	57	16.9	57.3	12394	EF
BG	SX5409RR	Baglietto	34848	74	0	2	9	0	0	46	15.9	59.4	12046	F
CP	5976GT	Croplan	34848	74	0	17	6	0	0	60	13.6	57.8	12004	F
Average			35668	76	0	6	6	0	0	56	16.8	58.5	13928	
Coefficient of Variation(%)			6.3	0.2	NA	23.0	48.0	NA	NA	1.2	2.0	0.8	3.5	
LSD @ 5%			4756.0	0.4		3.4	6.0			1.4	0.7	1.0	1018.2	
Probability of Significance				**		**	**			**	**	**	**	
Rep effect														
Non-additivity						*								

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* 95% Significance

** 99% Significance

2010 Solano RR Field Corn Trial

Cooperator: Mark Boyd, Hastings Island Land Company

Experimentors: Brittan, Kochi

Soil Type: Egbert silty clay loam

Planting Date: May 11 & 13, 2010

Planter: NGplus Monosim Air planter

Planting Depth: 2.5 inches

Rows Per Plot: 6

Fertilizer: 3-8-11 plus 0.25Zn at 50gal/ac, layby 50gal/ac UN32

Irrigation: By furrow

Location: Southwest end Hastings Island 1/4mi SW of grain tanks

Harvest Date: November 16, 2010

Seed drop: 7 inches

Length of Plots: 1250 feet

Row Width: 6 rows 2/60 inch beds

Replications: 2

Previous Crop: Safflower

Herbicide: Roundup Ultramax

Insecticide: Oboron for mites

Entry Initials	Company Name/NO.	Stand Plants/A	Days to Bloom	Maize					Plants (%)	Height (in)	Moisture at Harv. (%)	Bushel Wt. Calculated lbs/bu	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
				Mosaic (%)	Ear Rot (%)	Smut (%)	Smut (%)	Lodged (%)						
INT	9613VT3	29621	88	0	0	0	0	0	39	16.4	58.4	12037	A	
CP	6818VT3	27007	85	0	0	0	0	1	40	18.6	58.2	11388	B	
PI	33T55	31363	85	0	1	1	0	0	36	16.7	59.5	11351	B	
DKC	64-82RR2	30492	86	0	0	0	0	1	35	16.4	60.1	11220	BC	
ES	7532VT3	29621	90	0	0	0	0	0	46	16.9	56.5	11139	BC	
BG	SX5409RR	29621	86	0	0	0	0	0	33	16.2	57.7	11114	BC	
CP	818RR2	30492	90	0	0	0	0	0	43	19.0	57.5	11111	BC	
CP	5891VT3	28750	83	0	3	0	0	0	39	15.5	59.7	11084	BCD	
DKC	61-22	27878	89	0	1	0	0	0	41	16.2	59.2	10954	CD	
ES	7548VT3	31363	85	0	0	0	0	0	38	16.1	56.0	10931	CD	
DKC	62-63GENVT3P	30492	86	0	0	0	0	0	39	15.0	59.6	10883	CDE	
INT	9664VTPRO	29621	83	0	0	0	0	0	38	18.7	59.6	10862	CDE	
CP	6331VT3	31363	86	0	0	0	0	0	36	16.3	58.5	10742	DEF	
ES	7539VT3	29621	86	0	0	0	0	0	41	17.1	56.8	10549	EF	
BG	MX5565RR	25265	88	0	0	0	0	0	37	16.9	57.2	10458	F	
MY	2T784	31363	86	0	0	0	0	0	44	17.1	56.9	10457	F	
PI	31G97	29621	92	0	0	0	0	0	45	17.1	60.0	10425	F	
ES	7590VT3P	29621	89	0	0	0	0	0	36	16.0	58.6	10068	G	
Average		29621	87	0	0	0	0	0	39	16.8	58.3	10932		
Coefficient of Variation		5.8	0.3	NS	NS	NS	NS	NS	5.0	2.2	0.8	1.4		
LSD @ 5%		3628	0.6						4.1	0.8	1.0	322		
Probability of Significance		NS	**						**	**	**	**		
Rep effect									*	**				
Non-additivity										*				

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