

2012 UC Cooperavive Extension Davis Corn Variety Trial - UC Davis

Cooperator: Jim Jackson Plant Science UC Davis
Experimenters: Brittan, Kochi
Planting Date: May 2, 2012
Planter: John Deer Maxi Merg Air planter
Planting Depth: 2.5 inches
Rows Per Plot: 6 rows
Soil Type: Yolo silt loam
Irrigation: By furrow
Location: UCD Plant Sciences
Fertilizer: 16 lbs N Preplant 8-24-6 1%Zn + 250 lbs N Post emergence sidedressed
 Harvest Date: October 4, 2012
Seed drop: 7 inches
Length of Plots: 476 ft
Row Width: 2 rows on 60 inch beds
Replications: 2
Previous Crop: Tomatoes
Herbicide: Roundup Ultra Max
Insecticide: None

Company Initials	Entry Name/NO.	Company Name	Stand Plants/A	Days to Bloom	Fusarium ear rot (%)	Common Smut (%)	Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. lbs/bu	Grain Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
DK	DKC64-69	DeKalb	35719	68	14	0	65	12.9	64.7	15947	A
DK	DKC62-09	DeKalb	33977	69	3	0	65	12.1	63.9	15212	AB
G2	3F-515™	G2 Genetics	36590	75	6	0	72	14.2	64.6	15153	AB
G2	5X-915™	G2 Genetics	32234	75	3	1	71	12.5	62.4	14391	ABC
CP	6818VT3/P	Croplan	34848	75	18	0	64	13.7	63.9	14356	ABCD
CP	6960VT3/P	Croplan	33106	73	15	0	60	12.0	67.0	14324	BCD
DK	DKC64-82	DeKalb	34848	69	9	0	62	12.2	62.1	13966	BCDE
INT	INT9613VT3PRO	Integra	31363	70	5	0	57	12.7	62.9	13909	BCDE
NK	N82V-3111	Syngenta	33977	75	2	0	62	16.6	63.0	13888	BCDE
BAG	SX5512VT3P	Baglietto Seeds	33977	74	1	0	69	14.9	64.9	13716	BCDEF
NK	N74R-3000GT	Syngenta	33977	71	13	0	59	14.2	60.7	13698	BCDEF
ES	ES7443VT3P	Eureka Seeds	34848	70	22	0	62	13.0	64.6	13669	BCDEF
NK	N78W-3111	Syngenta	34848	72	15	1	59	15.9	58.0	13107	CDEFG
CP	6331VT3	Croplan	33977	71	4	0	67	14.7	59.8	13056	CDEFG
NK	N72Q-3111	Syngenta	35719	73	26	5	76	14.4	56.5	12840	CDEFGH
G2	5X-214™	G2 Genetics	33977	71	3	1	68	12.8	61.1	12704	DEFGH
ES	ES7513RR2	Eureka Seeds	35719	68	69	0	75	11.6	63.3	12372	EFGH
DK	DKC65-19	DeKalb	34848	67	6	0	58	11.0	66.3	12165	FGHI
INT	INT9630YT3PRO	Integra	33977	73	55	0	62	12.0	60.6	11801	GHI
TG	TG8574GTCBLL	TechAg	34848	71	0	0	69	15.4	62.2	11354	HI
ES	ES7428VT3P	Eureka Seeds	34848	68	10	0	65	11.0	62.8	10763	I
ES	ES7553VT3P	Eureka Seeds	34848	71	38	0	63	Plots lost to glyphosate application			
Average			34412	71	15	0	65	13.3	62.6	13447	
Coefficient of Variation			3.5	1.2	60.5	283.7	3.8	4.2	3.3	5.1	
LSD @ 5%			2513.8	1.8	17.7	1.7	5.2	1.2	4.4	1441.7	
Significant Variety effect			NS	**	**	**	**	**	**	**	
Rep effect				*			**	**			

* 95% Significance

** 99% Significance

¹ Yield adjusted to 15% moisture

NS= Not Significant, NA= Not Analyzed

No lodged plants, no head smut or Maize Dwarf Mosaic

2012 Mello Corn Variety Trial - Tyler Island

Cooperator: Steve and Gary Mello
Experimentors: Kent Brittan, Mark Kochi
Planting Date: May 10, 2012
Planter: White air planter, 8 row
Planting Depth: 2 inches
Rows Per Plot: 4

Soil Type: Rindge mucky silt loam, 10-25% Organic matter, Storie index 57, Grade 3
Fertilizer: 25 gallons per acre of 8-24-6 with 1/2% zinc banded 1.5 inches and to the side of seed.
Irrigation: By spud ditch

Harvest Date: October 11, 2012
Seed drop: 6 inches, 35,000seed/ac
Length of Plots: 1225
Row Width: 30 inches
Replications: 2
Previous Crop: Corn
Herbicide: Glyphosate
Location: Tyler Island, CA
Insecticide: None Duncan's

Initials	Entry Name/NO.	Company Name	Maize Dwarf Fusarium Head Common Plants Ear Moisture Bushel											Multiple Range Test (5%)
			Stand Plants/A	Days to Bloom	Mosaic No./100	ear rot (%)	Smut (%)	Smut (%)	Lodged (%)	Height (in)	at Harv. (%)	Wt. lbs/bu	Yield ¹ (lbs/A)	
ES	ES7443VT3P	Eureka Seeds	32234	76	0	2	2	0	0	54	15.9	64.7	12908	A
BAG	SX5409VT3P	Baglietto Seeds	33977	70	0	2	11	0	0	51	16.5	59.8	12738	A
DK	DKC64-82	DeKalb	36590	71	0	1	1	1	0	55	16.3	63.9	12680	AB
BAG	SX5350VT3P	Baglietto Seeds	36590	76	0	12	2	0	0	49	15.2	62.0	12218	ABC
DK	DKC64-69	DeKalb	36590	75	0	0	11	0	0	55	16.7	61.5	12138	ABC
INT	INT9613VT3PRO	Integra	34848	73	0	1	6	0	0	54	16.3	59.6	12124	ABC
DK	DKC63-07	DeKalb	36590	75	0	10	2	0	0	49	15.9	62.7	12108	ABC
CP	6818VT3/P	Croplan	36590	75	0	1	2	0	0	57	16.7	61.4	11844	BCD
G2	3F-515TM	G2 Genetics	37462	75	0	2	5	0	0	64	17.6	65.3	11791	CDE
DK	DKC62-09	DeKalb	37462	75	0	0	2	0	0	61	14.9	57.3	11469	CDEF
CP	6960VT3/P	Croplan	34848	75	0	1	8	0	0	56	14.8	66.1	11250	DEF
CP	6640VT3P	Croplan	39204	75	0	16	9	0	0	53	13.7	61.9	10993	EFG
NK	N78W-3111	Syngenta	34848	75	0	3	6	0	0	61	19.6	55.7	10873	FGH
NK	N82V-3111	Syngenta	36590	75	0	13	15	0	0	75	18.2	59.7	10864	FGH
G2	5X-915TM	G2 Genetics	36590	75	0	0	5	0	0	63	16.1	62.0	10793	FGH
INT	INT96-64	Grower	33106	71	0	0	3	0	0	54	16.0	65.2	10791	FGH
PI	PI32T82	Grower	33106	73	0	1	1	0	0	51	15.2	65.2	10698	FGHI
ES	ES7553VT3P	Eureka Seeds	36590	75	0	0	5	0	0	51	15.5	66.4	10384	GHIJ
NK	N74R-3000GT	Syngenta	35719	73	0	1	15	0	0	65	19.5	55.7	10259	GHIJ
NK	N72Q-3111	Syngenta	35719	75	0	5	19	0	0	67	18.0	55.8	10201	GHIJK
G2	5H-716TM	G2 Genetics	33106	76	0	5	17	0	0	63	17.4	64.9	10049	HIJK
DK	DKC65-19	DeKalb	35719	70	0	2	2	0	0	50	12.6	63.7	10040	HIJK
ES	ES7428VT3P	Eureka Seeds	31363	71	0	6	3	0	0	50	12.8	62.7	9881	IJK
INT	INT9630YT3PRO	Integra	33106	74	0	18	3	0	0	52	13.7	61.1	9748	JK
ES	ES7513RR2	Eureka Seeds	36590	74	0	4	5	0	0	60	13.4	65.0	9373	KL
TG	TG8574GTCBLL	TechAg	33977	70	0	1	12	1	0	68	17.9	59.4	8957	L

Average	35351	74	0	4	6	0	0	57	16.0	61.8	11045
Coefficient of Variation(%)	5	1	NA	34	23	NA	NA	5	3.8	1.9	3
LSD @ 5%	3768	2		3	3			5	1.2	2.4	745
Probability of Significance	*	**		**	**			**	**	**	**
Rep effect								**		**	**

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** 99% Significance

2012 UCCE Solano County Field Corn Trial

Cooperator: Mark Boyd, Hastings Island Land Company
Experimentors: Brittan, Kochi
Soil Type: Egbert silty clay loam
Planting Date: May 15, 2012
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
Problems: Very uneven moisture at harvest led to a vey uneven stand and ear size. **Custom harvest took out plot. No yield measurements.**

Harvest Date: October 27, 2012
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

Company Initials	Entry Name/NO.	Company Name	Stand Plants/A	Days to Bloom	Maize					Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. Calculated lbs/bu	Grain Yield ¹ (lbs/A)	Duncan's
					Mosaic (%)	Ear Rot (%)	Head Smut (%)	Common Smut (%)	Lodged Plants (%)					Multiple Range Test (5%)
ES	ES7443VT	Eureka Seeds	33106	73	0	3	0	1	5	53				
ES	ES7513RR	Eureka Seeds	32234	71	0	8	0	0	0	60				
ES	ES7553VT	Eureka Seeds	32234	73	0	9	0	0	0	53				
ES	ES7428VT	Eureka Seeds	33106	72	0	0	0	0	1	52				
G2	5H-716™	G2 Genetics	32234	74	0	11	0	0	0	63				
PI	PI31G97	Grower	33977	76	0	0	0	0	0	62				
G2	5N-517™	G2 Genetics	33977	75	0	0	0	0	1	60				
DK	DKC62-09	DeKalb	33977	76	0	1	0	0	0	60				
DK	DKC64-69	DeKalb	31363	77	0	0	0	0	0	53				
DK	DKC64-82	DeKalb	33977	73	0	3	0	0	0	58				
DK	DKC63-07	DeKalb	32234	75	0	1	0	0	1	51				
CP	6331VT3	Croplan	34848	72	0	2	0	0	1	52				
CP	6818VT3/F	Croplan	33106	75	0	2	0	0	0	59				
CP	6640VT3P	Croplan	34848	72	0	0	0	0	0	55				
INT	INT9642	Integra	31363	76	0	1	0	0	1	55				
INT	INT9678V	Integra	32234	75	0	0	0	0	0	52				
NK	N78W-311	Syngenta	33977	72	0	3	0	0	0	55				
NK	N82V-3111	Syngenta	34848	72	0	1	0	0	1	63				
NK	N74R-3000	Syngenta	33977	75	0	4	0	0	0	60				
NK	N72Q-3111	Syngenta	33106	76	0	14	0	2	6	59				
TG	TG8574GT	TechAg	32234	73	0	0	0	0	0	58				
BAG	SX5350VT	Baglietto Seed	31363	76	0	0	0	0	0	57				
BAG	SX5409VT	Baglietto Seed	30492	72	0	1	0	0	0	56				
Average			32992	74	0	3	0	0	1	57				
Coefficient of Variation			4.3	2.5	NA	32.7	NA	NA	87.8	8.3				
LSD @ 5%			2931	NS		1.8			1.2	9.7				
Probability of Significance			NS			**			**	NS				
Rep effect						**				*				

¹ Yield adjusted to 15% moisture

NS= Not Significant, NA= Not Analyzed