

2008 UCD Corn Variety Trial

Cooperator: Jim Jackson, UCD Plant Sciences
Experimenters: Brittan, Jackson, Kochi
Soil Type: Yolo silt loam, Class I
Planting Date: April 15, 2008
Planter: John Deer 71 plate planter, 6 rows
Planting Depth: 2 inches
Rows Per Plot: 6
Fertilizer: 250 lbs N preplant broadcast and disked
Irrigation: By furrow
Location: UCD Vegetable Crops Field facility, Hutchison Rd. 0.5mi west of HWY 113

Harvest Date: September 23, 2008
Seed drop: 7 inches
Length of Plots: 225 feet
Row Width: 2-30" per 60" bed
Replications: 2
Previous Crop: Wheat
Herbicide: 1.5 oz Dual/ac PPL
Insecticide: None
²Days above 95°F between June thru July 9

Initials	Entry Name/NO.	Company Name	Stand	Days to	Maize Dwarf	Fusarium	Common	Lodged	Ear	Moisture	Bushel	Yield at	Duncan's
			Plants/A	Bloom	Mosaic (%)	ear rot (%)	Smut (%)	Plants (%)	Height (in)	at Harv. (%)	Wt. lbs/bu	15% Moisture (lbs/A)	Multiple Range Test (5%)
GA	82K79GT	Garst	37462	82	0	9	1	0	60	11.9	60.90	14794	A
ES	ES-7548RR	Eureka Seeds	35719	79	0	1	2	1	52	10.5	58.10	14196	AB
HT	HT68-06RR	Hyttest Seeds	36590	87	0	0	2	15	53	11.4	59.05	13449	ABC
PI	33H23	Grower	36590	78	0	5	0	2	43	11.4	60.50	13165	ABC
GA	82R45GT	Garst	36590	81	0	2	0	40	69	11.2	59.25	13117	ABC
CP	7505RB	Croplan	35719	85	0	0	1	10	45	11.3	61.25	13001	ABC
CP	6818RR	Croplan	38333	80	0	1	1	1	47	11.3	59.75	12949	ABC
PI	33T55	Grower	38333	76	0	2	0	0	48	10.5	59.50	12908	ABC
INT	9662RB	Integra	38333	77	0	0	0	1	56	10.4	58.20	12377	BCD
HT	HT68-68RB	Hyttest Seeds	36590	79	0	1	0	2	58	11.0	60.25	12287	BCD
DK	DKC69-43	Dekalb	36590	85	0	1	0	19	60	12.2	62.05	12209	CD
DK	DKC67-86	Dekalb	39204	81	0	2	0	6	56	11.4	60.30	12165	CD
CP	591RR2/BT	Croplan	35719	80	0	0	0	2	52	10.8	61.45	12133	CD
DG	57K58	Dyna-Gro	36590	85	0	2	1	8	64	10.9	57.05	12000	CD
ES	ES-7590RR	Eureka Seeds	38333	82	0	0	0	43	62	10.7	59.60	10896	DE
DG	CX6517	Dyna-Gro	39204	84	0	2	1	5	63	11.0	59.65	10534	DEF
INT	9673R	Integra	36590	84	0	1	2	44	53	11.0	59.15	10020	EF
MY	TMF2N804	Mycogen	64469	90	0	2	0	26	58	10.8	58.65	8810	FG
MY	TMF2L844	Mycogen	38333	80	0	1	2	87	66	11.7	58.25	8116	G

Average	38700	82	0	1	1	16	56	11.1	59.63	12059
Coefficient of Variation	1.7	0.4	NA	157	NA	103	1.1	3.2	0.8	7
LSD @ 5%	1385	0.6		4.6		34.8	1.3	0.8	1.1	1723
Probability of Significance	**	**		NS		**	**	**	**	**
Rep effect		*					**	*		**
Non-additivity		*								

¹Yield adjusted to 15% moisture

NS= Not Significant, NA= Not Analyzed

No significant problems for: Maize Dwarf Mosaic, or Common Smut.

If Coefficient of Variation is greater than 15% note the trend but doubt the significance.

²July 6 to 10th hot spell plus wood smoke cloud cover

2008 Mello Corn Variety Trial - Tyler Island

Cooperator: Steve and Gary Mello

Experimenters: Kent Brittan, Mark Kochi

Planting Date: April 14, 2008

Planting Method: White air planter, 8 row

Planting Depth: 2 inches

Rows Per Plot: 4

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

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

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

Location: Tyler Island

Length of Plots: 1200 feet

Row Width: 30 inches

Previous Crop: Corn

Harvest Date: October 7, 2008

Herbicide: Accent and Shark

Irrigation: By spud ditch

Company	Initial	Entry Name/NO.	Stand Plants/A	Days to Bloom	Fusarium	Head	Common	Plants	Ear	Moisture	Bushel	Yield at	Duncan's Multiple Range Test (5%)
					ear rot (%)	Smut (%)	Smut (%)	Lodged (%)	Height (in)	at Harv. (%)	Wt. lbs/bu	15% Moisture (lbs/A)	
Croplan	CP	6818RR	40075	84	0	0	0	0	48	13.0	61.1	15393	A
Dekalb	DK	DKC61-22	41818	84	0	8	0	0	47	12.6	61.2	14799	AB
Eureka Seeds	ES	ES-7590RR	35719	85	0	10	0	0	52	13.1	61.0	14749	AB
Croplan	CP	7505RB	33106	82	0	5	0	0	46	13.0	61.5	14665	AB
Laser	LA	L-9H48RR	38333	85	1	0	0	0	52	12.9	60.3	14663	AB
Dekalb	DK	DKC64-82	35719	84	0	4	0	0	42	13.2	62.3	14521	ABC
Grower	PI	33T55	39204	83	0	7	0	0	49	12.9	60.7	14455	ABC
Hyttest Seeds	HT	HT63-13RR	40075	85	1	2	0	0	46	13.1	59.0	14295	ABCD
Integra	INT	9673R	35719	85	0	8	0	0	54	13.9	59.4	14237	ABCD
Eureka Seeds	ES	ES-7548RR	38333	82	0	0	0	0	51	12.7	59.2	14149	BCDE
Golden Harvest	GH	H-9190HX/LL	36590	87	0	5	1	0	43	13.1	59.5	13959	BCDE
Grower	PI	33H23	35719	80	0	2	0	0	44	13.3	62.2	13429	CDEF
Croplan	CP	591RR2/BT	39204	85	0	9	1	0	48	12.4	62.3	13126	DEF
Golden Harvest	GH	H-9180	40075	82	0	4	0	0	50	12.8	59.7	12972	EF
Integra	INT	9602RB	38333	85	1	11	1	0	64	12.4	59.9	12721	FG
Hyttest Seeds	HT	HT62-62VT3	37462	79	0	3	1	0	45	12.9	62.1	12687	FG
Garst	GA	82K79GT	36590	80	0	30	0	0	56	13.5	61.7	11696	GH
Mycogen	MY	TMF2N804	37462	89	0	7	3	5	50	12.5	59.1	11033	H
NorthrupKing	NK	N78N-GT	33106	82	1	32	1	0	62	13.4	61.2	10775	HI
Mycogen	MY	TMF2L844	40075	89	0	30	1	0	60	14.3	58.1	9797	I
Average			37636	84	0	9	0	0	50	13.0	60.5	13406	
Coefficient of Variation(%)			10	0.6	NA	34	63	NA	2	1.9	0.8	4	
LSD @ 5%			7844	1.0		6.4	0.7		2.5	0.5	1.0	1068	
Probability of Significance			NS	**		**	**		**	**	**	**	
Rep effect											**	*	
Non-additivity						**							

¹ Yield adjusted to 15% moisture No significant Maize Dwarf Mosaic

No significant problems for: Maize Dwarf Mosaic, Common Smut or Lodged plants.

If Coefficient of Variation is greater than 15% note the trend but doubt the significance.

2008 Solano RR Field Corn Trial

Cooperator: Mark Boyd, Hastings Island Land Company

Experimenters: Brittan, Kochi

Soil Type: Egbert silty clay loam

Planting Date: April 17, 2008

Planter: Monosim Air planter

Planting Depth: 2.5 inches

Rows Per Plot: 6

Fertilizer: 50gal/A 3-8-11+0.25%Zn planting, sidedressed 50gal/A UN32

Irrigation: By furrow

Location: South end Hastings Island 1st field north of bridge on east side behind houses

Harvest Date: October 16, 2008

Seed drop: 7 inches

Length of Plots: 1000 feet

Row Width: 2 rows on 60 inch beds

Replications: 2

Previous Crop: Safflower

Herbicide: Roundup

Insecticide: None

Initials	Entry Name/NO.	Company Name	Stand Plants/A	Days to Bloom	Maize					Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. lbs/bu	Yield at 15% Moisture (lbs/A)	Duncan's Multiple Range Test (5%)
					Dwarf Mosaic (%)	Fusarium Ear Rot (%)	Head Smut (%)	Common Smut (%)	Lodged Plants (%)					
DK	DKC69-43	Dekalb	32234	88	0	2	1	0	0	37	13.7	62.6	12128	A
ES	ES-7548RR	Eureka Seeds	33106	85	0	1	1	0	0	40	12.6	58.3	11686	B
GA	82R45GT	Garst	33106	91	0	4	0	1	0	41	12.3	60.4	11618	B
INT	9674R	Integra	33106	90	0	2	2	0	0	33	13.4	58.7	11616	B
ES	ES-7590RR	Eureka Seeds	33106	87	0	1	0	0	0	38	12.1	60.5	11487	B
CP	6818RR	Croplan	32234	89	0	1	0	0	0	37	12.8	61.0	11374	BC
DG	58P59	Dyna-Gro	32234	93	0	1	0	0	0	29	13.1	58.1	11360	BC
DG	58K02	Dyna-Gro	33106	90	0	1	0	0	0	42	14.1	58.2	11138	CD
DK	DKC67-86	Dekalb	30492	89	0	3	3	0	0	42	13.1	61.6	11053	CDE
PI	33D47	Grower	32234	91	0	3	0	0	0	37	12.9	62.1	10951	DE
CP	7505RB	Croplan	33106	83	0	1	0	0	0	31	12.9	62.6	10949	DE
INT	9641R	Integra	33977	86	0	9	0	2	0	30	13.0	59.5	10831	DEF
HT	HT6105VT3	Hystest	33106	87	0	1	0	0	0	30	11.4	60.9	10795	DEF
GA	82K79GT	Garst	32234	92	0	7	2	0	0	37	12.8	61.6	10779	EF
CP	591RR2/BT	Croplan	33106	90	0	1	0	0	0	36	11.8	63.1	10604	F
MY	TMF2N804	Mycogen	33977	93	0	17	0	0	0	38	12.0	59.2	9239	G
MY	TMF2L844	Mycogen	31363	95	0	1	12	0	0	40	14.6	58.9	8578	H
Average			32696	89	0	3	1	0	0	36	12.8	60.4	10952	
Coefficient of Variation			3	1	NA	122	101	NA	NA	2	1.8	0.8	1	
LSD @ 5%			1847	3		8	3			1	0.5	1.0	311	
Probability of Significance			NS	**		*	**			**	**	**	**	
Replication effect										**	*		**	
Non-additivity			*							**				

¹ Yield adjusted to 15% moisture

No significant problems for: Maize Dwarf Mosaic, Common Smut or Lodged plants.

If Coefficient of Variation is greater than 15% note the trend but doubt the significance.