

2007 UCD Grain Corn Variety Trial

Cooperator: UC Davis Campbell Tract

Experimentors: Brittan, Jackson, Kochi

Soil Type: Yolo silt loam, Class I

Planting Date: April 26, 2007

Planter: John Deer 71 plate planter, 4 rows

Planting Depth: 2 inches

Rows Per Plot: 4

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

Special Note: No lodged plants or head smut.

Harvest Date: October 8, 2007

Seed drop: 7 inches

Length of Plots: 225 feet

Row Width: 30 inches

Replications: 2

Previous Crop: Tomatoes

Herbicide: 1.5 oz Dual/ac PPL

Insecticide: None

Days above 95°F 22 Mild season

Initials	Entry Name/NO.	Company	Stand (Plants/A)	Days to Bloom	Mosaic (%)	Dwarf	Fusarium Common (%)	Smut (%)	Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. Calculated lbs/bu	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
DK	RX752RR2/YGPL	Dekalb	39204	77	0		8	1	61	14.2	60.5	14504	A
GA	8287RR	Garst	38333	82	0		1	0	70	15.2	60.2	14393	AB
NC	NC+5451RB	NC+ Hybrids	39204	75	0		1	1	66	13.9	60.2	14322	ABC
HT	HT7806BT/RR2	Hystest Seeds	39204	71	0		3	1	71	15.9	59.1	14157	ABCD
CP	6818RR	Croplan	37462	73	0		9	3	61	14.2	59.7	14055	ABCD
INT	9673R	Integra	39204	83	0		3	0	63	14.4	59.4	13964	ABCD
INT	9601R	Integra	38333	71	1		3	1	61	13.7	59.0	13762	ABCD
DK	RX754RR2/YGPL	Dekalb	36590	70	0		16	0	59	13.9	61.0	13645	ABCD
ES	ES7539RR	Eureka Seeds	37462	77	2		2	3	59	15.1	58.7	13502	ABCD
DK	DKC69-43RR2	Dekalb	39204	72	1		12	0	66	15.6	62.1	13418	ABCD
NK	N85-F3	NorthrupKing	40075	82	0		0	0	77	17.2	61.5	13140	ABCDE
HT	HT68-06RR	Hystest Seeds	40946	74	0		3	1	62	15.0	59.9	13121	ABCDE
NK	N77-P5	NorthrupKing	39204	70	2		1	5	59	14.4	57.8	13053	ABCDE
ES	ES7595RR	Eureka Seeds	40075	77	0		3	0	63	15.1	60.7	13022	ABCDEF
ES	ES7539RRYGP	Eureka Seeds	35719	72	0		2	1	59	14.1	58.8	12883	ABCDEF
LA	L-9H48RR	Laser	36590	75	1		3	2	60	14.6	60.0	12717	ABCDEF
DG	57N96	Dyna-Gro	36590	73	1		6	1	64	15.2	58.3	12549	BCDEF
GA	8285	Garst	38333	82	0		1	0	80	14.5	59.1	12530	CDEF
GH	9190Hx/LL	Golden Harvest	36590	77	0		6	1	60	14.3	58.8	12524	CDEF
DK	DKC65-47RR2	Dekalb	41818	73	0		21	3	63	14.1	61.1	12423	DEF
GH	H9359	Golden Harvest	40946	70	1		5	3	66	14.6	59.1	12422	DEF
CP	5905RR	Croplan	36590	71	0		1	0	57	13.6	62.3	11529	EF
DG	58K22	Dyna-Gro	38333	81	0		10	3	70	13.8	58.5	11206	F

Average 38522 75 0 5 1 64 15 60 13167

Coefficient of Variation 7 1 206 76 113 3 2.6 0.8 6

LSD @ 5% 5323 1 1 8 3 3 0.8 0.9 1575

Probability of Significance NS ** NS ** * ** ** ** *

Rep effect

Non-additivity **

¹Yield adjusted to 15% moisture

NS= Not Significant, NA= Not Analyzed

No significant lodging

2007 Solano Grain Corn Trial - Glyphosate tolerant varieties

Cooperator: Eric Freese
Experimenters: Brittan, Kochi
Soil Type: Yolo silt loam
Planting Date: May 11, 2007
Planter: John Deer Maxi Merg Air planter
Planting Depth: 2.5 inches
Rows Per Plot: 4
Fertilizer: 250 lbs N preplant broadcast and disked
Irrigation: By furrow
Location: 2 mi south of Weber Rd on the west side of Pitt School Rd Dixon, CA

Harvest Date: Nov. 6 -7, 2007
Seed drop: 7 inches
Length of Plots: 1240 feet
Row Width: 30 inches
Replications: 2
Previous Crop: Rye grass
Herbicide: Roundup
Insecticide: None

Initials	Entry Name/NO.	Company	Stand Plants/A	Fusarium Head Common Lodged Ear					Earworm		Moisture at Harv. (%)	Bushel Wt. Calculated (lbs/bu)	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
				ear rot (%)	Smut (%)	Smut (%)	Plants (%)	Height (in)	ears (%)	Damaged (%)				
GA	8287RR	Garst	32234	12	0	0	0	100	39	17.2	58.2	15077	A	
DK	DKC69-43RR2	DEKLB	32234	4	0	1	0	50	45	18.0	59.4	14784	AB	
HT	HT78-06RR	Hytest Seeds	30492	20	0	0	0	99	37	16.8	56.9	13982	ABC	
CP	7505RR	Crop Plan	32234	10	0	0	0	100	37	17.0	57.4	13826	ABCD	
HT	HT75-85RB	Hytest Seeds	28750	17	0	1	0	57	42	17.7	57.2	13646	ABCD	
ES	ST7539RR	Eureka Seed	29621	35	0	1	56	100	38	16.7	55.8	13624	ABCD	
DK	RX752RR2/YGPL	DEKLB	32234	59	0	0	0	100	45	15.9	58.1	13546	ABCD	
CP	6818RR	Crop Plan	30492	14	0	0	0	100	36	17.1	58.3	13211	ABCDE	
ES	ES7539RRYGP	Eureka Seed	29621	34	0	0	84	93	38	18.1	54.3	12918	BCDE	
GA	8270RR	Garst	27878	4	0	1	1	98	42	18.6	56.1	12849	BCDE	
DK	DKC65-47RR2	DEKLB	29621	20	0	1	0	100	38	17.2	59.2	12721	BCDE	
DG	58K40	Dyna-Gro	31363	7	0	0	0	100	39	20.1	56.7	12538	CDEF	
DK	RX754RR2/YGPL	DEKLB	32234	22	0	1	0	80	41	16.2	60.2	12478	CDEF	
DG	58K22	Dyna-Gro	27007	5	0	2	19	100	38	19.8	52.8	12286	CDEF	
LA	L-9H48RR	Laser	32234	29	0	0	78	100	50	16.7	55.9	12115	CDEF	
LA	L-8H21RR	Laser	30492	66	0	0	0	100	38	15.9	57.3	11873	CDEF	
ES	ES7595RR	Eureka Seed	28750	14	0	0	57	100	49	16.8	58.1	11710	DEF	
ES	ES7539RR	Eureka Seed	31363	34	0	1	83	100	39	15.5	57.0	11697	DEF	
IN	9601R	Integra	28750	63	0	9	15	100	40	16.0	55.1	11252	EF	
IN	9673R	Integra	26136	19	0	0	0	100	44	19.0	54.6	10503	F	
Average			30187	24	0	1	20	94	40	17.3	56.9	12832		
Coefficient of Variation			4	33	NA	132	89	20	8	5.3	2.3	7		
LSD @ 5%			2810	17		3	36	40	7	1.9	2.7	1856		
Probability of Significance			**	**		NS	**	NS	*	**	**	**		
Replication effect			**							**				
Non-additivity														

¹ Yield adjusted to 15% moisture

NS= Not Significant, NA= Not Analyzed

2007 Mello Grain Corn Variety Trial

Cooperator: Steve Mello
Experimentors: Brittan, Kochi
Planting Date: April 20, 2007
Planting Method: White air planter, 8 row
Planting Depth: 2 inches
Rows Per Plot: 4

Location: Tyler Island, CA
Length of Plots: 1270 feet
Row Width: 30 inches
Previous Crop: Wheat
Harvest Date: October 11, 2007

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.

Herbicide: Accent+ 0.33 oz/a Shark

Insecticide: None

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

Duncan's

Initials	Entry Name/NO.	Company	Stand Plants/A	Days to Bloom	Fusarium ear rot (%)	Head Smut (%)	Moisture Smut (%)	Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. lbs/bu	Yield 5% Mois (lbs/A)	Multiple Range Test (5%)
INT	9673R	Integra	35719	84	1	1	1	46	16.5	59.8	14365	A
HT	HT68-06RR	Hytest Seeds	36590	76	4	0	0	49	15.3	60.3	14298	AB
DK	DKC60-18RR2/YGPL	DEKALB	38333	73	2	2	0	44	15.0	60.4	14237	AB
NC	NC+6125RBD	NC+ Hybrids	35719	84	1	1	1	48	16.8	59.0	14211	AB
DK	RX754RR2/YGPL	DEKALB	39204	77	5	7	0	46	15.0	63.0	14088	ABC
DK	RX752RR2/YGPL	DEKALB	38333	77	8	0	1	39	14.7	61.0	14077	ABCD
CP	6818RR	Croplan	34848	86	5	0	0	46	15.2	60.4	14067	ABCD
GH	9190Hx/LL	Golden Harvest	36590	78	16	1	0	50	15.0	59.5	13941	ABCDE
CP	818TS	Croplan	36590	81	0	0	0	49	16.5	59.8	13875	ABCDE
NK	N77-P5	NorthrupKing	35719	83	1	1	0	51	16.4	60.1	13847	ABCDE
PI	PI33H25	Grower	35719	79	0	1	0	50	14.5	61.7	13587	ABCDEF
ES	ES7539RR	Eureka Seeds	36590	80	1	2	1	49	14.9	61.3	13186	BCDEFG
ES	ES7595RR	Eureka Seeds	36590	81	1	2	0	56	16.4	61.2	13167	BCDEFG
DG	57F37	Dyna-Gro	33977	81	0	2	1	49	15.7	60.3	13148	BCDEFG
ES	ES7539RRYGP	Eureka Seeds	34848	84	3	1	1	48	15.1	60.8	13014	CDEFG
LA	L-9H48RR	Laser	34848	84	4	0	1	48	14.9	61.0	13010	CDEFG
HT	HT7550RR	Hytest Seeds	40075	79	1	1	1	55	16.1	59.9	12927	DEFGH
INT	9601R	Integra	34848	77	27	3	1	46	14.5	60.5	12843	EFGH
GH	H9359	Golden Harvest	35719	86	10	0	1	52	15.2	59.2	12657	FGHI
GA	8270RR	Garst	39204	78	0	0	0	53	15.6	60.5	12458	FGHI
DK	DKC61-22RR2	DEKALB	36590	81	0	7	0	48	14.6	60.7	12234	GHIJ
DG	58K22	Dyna-Gro	35719	79	0	4	2	61	14.9	59.3	11856	HIJ
GA	8287RR	Garst	36590	84	1	38	1	53	17.0	60.9	11836	HIJ
PI	PI33N55	Grower	35719	81	1	1	0	47	15.1	62.3	11694	IJ
NK	N75-B1	NorthrupKing	36590	84	11	8	0	46	15.5	59.1	11217	J

Average 36451 80 4 3 0 49 15.4 60.5 13194

Coefficient of Variation(%) 5 1 192 102 181 4 2.2 1.88 4

LSD @ 5% 3814 1 15 6 1 4 0.7 2.345 987

Probability of Significance NS ** NS ** NS ** ** NS **

Rep effect

Non-additivity **

¹ Yield adjusted to 15% moisture

NS= Not Significant

No significant lodging or Maize Dwarf Mosaic