

2006 UCD Russell Ranch Corn Variety Trial

Cooperator: UC Davis LTRAS
Experimentors: Kent Brittan, Mark Kochi
Soil Type: Yolo silt loam, Class I
Planting Date: May 11, 2006
Planter: John Deer 71 plate planter
Planting Depth: 2 inches
Rows Per Plot: 4
Fertilizer: 250 lbs N preplant broadcast and disked
Irrigation: By furrow
Location: UCD Russell Ranch South 0.2mi of Russel Rd. 0.5mi west Co.Rd. 95
Special Note: Heavy wind 9/22/06 caused some stalk breakage and lodging impacting yields of some varieties.

Harvest Date: October 26, 2006
Seed drop: 7 inches
Length of Plots: ~218 feet
Row Width: 30 inches
Replications: 2
Previous Crop: None
Herbicide: 1.5 oz Dual/ac PPL
Insecticide: None

Company		Entry	Stand	Days to	ear rot	Smut	Plants	Height	at Harv.	Moisture	Bushel	Yield ¹	Duncan's
Name	Initials	Name/NO.	(Plants/A)	Bloom	(%)	(%)	(%)	(in)	(%)	(%)	Weight	(lbs/A)	Multiple
													Range
													Test (5%)
Garst	GA	8288	34848	67	13	1	1	63	13.5	61.9	11845	A	
NorthrupKing	NK	N83-V3	32234	69	3	0	15	83	12.9	62.3	11667	AB	
Asgrow	AS	RX754RR2	34848	60	41	2	1	66	12.3	60.0	11339	AB	
Dekalb	DK	DKC64-27 RR2	29621	63	32	4	1	59	11.9	60.4	11162	ABC	
NC+ Hybrids	NC	5221RP	32234	61	45	2	4	66	12.0	60.3	10882	ABCD	
Eureka Seeds	ES	ST7539RR	30492	63	11	3	27	54	12.3	59.3	10772	ABCD	
Eureka Seeds	ES	7570RR LTRAS	33977	62	37	5	5	51	12.4	57.7	10654	ABCD	
Golden Harvest	GH	H-9205HX	33977	64	7	0	3	64	12.8	59.7	10533	ABCD	
Golden Harvest	GH	H-9323HX	29621	60	3	1	5	62	12.1	58.2	10405	ABCD	
Harvest Bounty	HB	HB9671R	33977	70	1	0	16	82	13.4	62.7	10349	ABCD	
NC+ Hybrids	NC	5991B	38333	62	62	3	1	65	13.1	57.2	9902	ABCD	
Harvest Bounty	HB	HB9673R	31363	67	39	2	30	63	12.9	60.4	9679	ABCDE	
Croplan	CP	818RR2	31363	60	2	0	38	67	12.5	60.1	9665	ABCDE	
Eureka Seeds	ES	X6033RRYGCB	35719	67	6	2	9	73	12.5	60.6	9548	BCDE	
Dekalb	DK	DKC63-80 RR2	37462	60	30	0	18	66	12.2	60.9	9009	CDE	
Asgrow	AS	RX752RR2/YGPL	33977	63	35	0	15	55	12.0	59.8	8844	DE	
Eureka Seeds	ES	7570 LTRAS	33977	61	48	9	2	52	11.7	57.8	8763	DE	
NorthrupKing	NK	N85-F3	39204	75	5	0	38	81	13.6	61.7	8676	DE	
Garst	GA	8285	35719	67	8	1	27	78	12.4	59.6	7489	EF	
Dyna-Gro	DG	53K98	33977	55	8	1	18	54	11.6	58.8	6036	F	
Average			33846	64	22	2	13	65	12.5	60.0	9861		
Coefficient of Variation			8	0	62	68	118	5	2.7	1.5	9		
LSD @ 5%			5909	0	28	2	33	8	0.7	1.8	1944		
Probability of Significance			NS	**	**	**	NS	**	**	**	**		
Non-additivity										*			

¹Yield adjusted to 15% moisture

2006 Mello Corn Variety Trial - Tyler Island

Cooperator: Steve Mello

Experimentors: Kent Brittan, Mark Kochi

Planting Date: June 8, 2006

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: 5 lbs/A Thimet 20G at planting

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

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

Harvest Date: October 13, 2006

Location: Tyler Island

Length of Plots: 570 feet

Row Width: 30 inches

Previous Crop: Wheat

Herbicide: Accent and Shark

Irrigation: By spud ditch

Duncan's
Multiple

Company	Entry	Stand	Days to	Height	Ear	Fusarium	Head	Common	Plants	Moisture	Bushel	Yield ¹	Duncan's
Initials	Name/NO.	Plants/A	Bloom	(in)	rot	rot	Smut	Smut	Lodged	at Harv.	Wt.	(lbs/A)	Range
					(%)	(%)	(%)	(%)	(%)	(%)	lbs/bu		Test (5%)
Asgrow	AS	RX752RR2/YGPL	33977	64	57	5	1	5	4	17.8	57.1	11153	A
Harvest Bounty	HB	HB9671R	33106	71	61	0	1	0	68	25.9	56.5	11152	A
Asgrow	AS	RX754RR2	36590	65	54	22	2	5	6	17.9	58.9	11013	A
Croplan	CP	818TS (YGRR2)	35719	69	64	5	1	2	47	22.6	56.3	10908	AB
Dekalb	DK	DKC60-18 RR2	37462	63	52	14	0	0	3	18.3	57.3	10798	AB
NC+ Hybrids	NC	6122RB	35719	67	63	1	0	0	39	23.9	54.7	10559	ABC
Garst	GA	8270RR	33106	69	66	0	0	1	48	23.3	55.9	10523	ABC
Dyna-Gro	DG	53K98	33977	58	53	2	2	4	3	14.5	57.6	10084	ABCD
Pioneer ²	PI	33N56	33106	68	59	9	4	0	1	18.1	60.2	10071	ABCD
Grower	DK	DK60-17	33977	62	43	18	2	5	0	18.3	56.3	10058	ABCD
Lazer (GH)	LA	L-9H22RR	31363	69	74	1	1	0	35	27.2	55.9	9987	ABCD
Pioneer ²	PI	33H25	34848	66	52	3	12	0	1	19.5	57.9	9925	ABCD
NC+ Hybrids	NC	5222RBD	33977	65	40	43	4	6	0	16.8	58.3	9877	ABCD
NC+ Hybrids	NC	2194RBD	33977	60	57	6	2	1	3	15.2	59.4	9847	ABCD
Eureka Seeds	ES	X6033RRYGCB	32234	68	69	4	0	1	3	21.2	57.3	9817	ABCD
Garst	GA	8287RR	33977	70	70	3	10	1	1	21.8	57.3	9653	BCD
Eureka Seeds	ES	ST7539RR	37462	68	60	40	2	8	5	17.8	55.7	9604	BCD
Harvest Bounty	HB	HB9673R	35719	71	60	7	1	1	22	22.7	55.1	9404	CD
Dekalb	DK	DKC64-27 RR2	36590	64	46	63	1	6	1	17.8	57.8	8989	D
Golden Harvest	GH	H-8845GT	37462	68	56	10	1	10	16	20.2	56.0	8844	D
Average			34717	66	58	13	2	3	15	20	57	10113	
Coefficient of Variation(%)			5	1	5	41	140	106	105	3.8	1.6	5	
LSD @ 5%			3692	1	6	11	7	6	33	1.6	1.9	1149	
Probability of Significance			NS	**	**	**	*	*	**	**	**	**	
Non-additivity					*				**				

¹ Yield adjusted to 15% moisture

² Grower requested

2006 Solano RR Field Corn Trial - UCD Plant Pathology

Cooperator: Tom Kominek
Experimentors: Kent Brittan, Mark Kochi
Soil Type: Yolo silt loam
Planting Date: May 15, 2006
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: UC Davis Plant Pathology, Solano County

Harvest Date: October 5, 2006
Seed drop: 7 inches
Length of Plots: 200 feet
Row Width: 30 inches
Replications: 2
Previous Crop: Tomatoes
Herbicide: Roundup
Insecticide: None

Company		Entry	Stand	Days to	Maize					Ear	Moisture	Bushel Wt.	Yield ¹	Duncan's
Name	Initials	Name/NO.	Plants/A	Bloom	Mosaic	ear rot	Smut	Smut	Plants	Height	at Harv.	Calculated	(lbs/A)	Multiple
					(%)	(%)	(%)	(%)	(%)	(in)	(%)	lbs/bu		Range
														Test (5%)
Asgrow	AS	RX754RR2	35719	70	0	19	0	13	1	52	17.4	60.0	11493	A
Dekalb	DK	DKC63-62 RR2	34848	70	0	21	0	12	6	59	18.3	60.6	11286	AB
Garst	GA	8287RR	42689	72	0	3	0	3	26	63	19.1	59.9	11158	ABC
Eureka Seeds	ES	ST7539RR	33106	70	0	21	0	6	9	52	19.4	58.0	11127	ABC
Asgrow	AS	RX752RR2/YGP	34848	70	0	23	0	1	5	50	17.6	60.0	10776	ABC
Croplan	CP	818TS (YGRR2)	34848	70	0	2	0	2	31	56	19.9	58.7	10765	ABC
NC+ Hybrids	NC	3610R	35719	67	0	5	0	4	11	56	16.1	61.9	10244	BCD
Dekalb	DK	DKC64-27 RR2	33106	67	0	45	0	21	4	50	16.2	59.4	10125	CD
Harvest Bounty	HB	HB9671R	34848	78	0	0	0	0	43	67	23.9	61.7	9619	DE
Croplan	CP	E56X5082	35719	70	0	28	0	7	68	55	17.5	56.5	9556	DE
NC+ Hybrids	NC	2194RBD	35719	64	0	32	0	4	3	47	13.6	58.9	9356	DEF
Eureka Seeds	ES	X6033RRYGCB	32234	70	0	11	0	9	18	57	19.9	61.0	9317	DEF
Golden Harvest	GH	H-8845GT	41818	69	0	41	0	24	16	55	18.3	57.9	9276	DEF
Lazer (GH)	LA	L-9H22RR	30492	72	0	3	0	0	36	67	21.8	62.0	8937	EF
Harvest Bounty	HB	HB9673R	33106	74	0	19	0	2	36	52	20.5	59.0	8927	EF
Dyna-Gro	DG	53K98	36590	63	0	6	0	9	3	46	12.9	59.2	8246	FG
Garst	GA	8270RR	56628	77	0	6	0	0	67	63	20.2	59.0	7663	G
Average			36590	70.1	0.0	17	0.0	7	22	55	18.4	59.6	9875	
Coefficient of Variation			6	0.2		31		77	52	5	10.7	1.5	5	
LSD @ 5%			4622	0		11		11	25	5.7	4.156	1.897	1027	
Probability of Significance			**	**		**		**	**	**	**	**	**	
Non-additivity											**			

¹ Yield adjusted to 15% moisture