

2005 UCD Russell Ranch Corn Variety Trial

Cooperator: UC Davis LTRAS
Experimentors: Brittan, Bryant, Kochi
Soil Type: Yolo silt loam, Class I
Planting Date: May 17, 2005
Planter: John Deer 71 plate planter
Planting Depth: 2.5 inches
Rows Per Plot: 4

Seed drop: 7 inches
Length of Plots: 210 feet
Row Width: 30 inches
Replications: 2
Previous Crop: Tomatoes
Herbicide:
Harvest Date: October 8, 2005
Insecticide: None

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 8/30/05 caused extensive stalk breakage and lodging severely impacting yields

Company Initials	Entry Name/NO.	Company Name	Stand (Plants/A)	Days to Bloom	ear rot (%)	Fusarium Smut (%)	Head Common Smut (%)	Lodged Plants (%)	Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. Calculated lbs/bu	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
PI	31N27	Pioneer ²	31537	68	1	0	0	21	54	15.0	62.0	12291	A
CP	818	Croplan	32234	70	2	0	1	19	59	14.8	57.8	10335	AB
NF	NF246	Garst	31712	71	6	0	1	20	57	14.0	60.3	10220	ABC
NC+	5991BP	NC+ Hybrids	31189	69	6	0	3	49	55	13.5	57.6	9773	ABC
DK	DKC63-80RR2	Dekalb	32409	68	9	0	1	33	56	13.4	61.9	9751	ABC
MY	2T780HXLL	Mycogen	31712	69	20	0	0	23	59	13.8	58.9	9741	ABC
AS	RX715RR2	Asgrow	32234	67	6	0	1	19	61	14.0	60.8	9720	ABC
ST	ST7570RR	LTRAS	32060	66	13	0	0	26	53	12.2	60.2	9693	ABC
GA	8222	Garst	32060	71	3	0	0	10	63	14.9	62.3	9470	ABCD
AS	RX752RR2	Asgrow	30840	70	23	0	0	53	52	12.7	60.7	9215	ABCD
TB	SX5465	Tuleburg	31712	71	9	0	0	22	59	13.1	58.9	9144	ABCD
DK	DKC63-62RR2	Dekalb	31712	68	7	0	1	24	58	14.1	60.5	8954	BCD
ST	ST7570	LTRAS	31886	66	13	0	1	19	54	12.4	59.6	8350	BCD
ST	ST7595	SeedTec	32060	67	4	0	1	54	56	13.1	62.3	8228	BCD
GH	H-9445	Golden Harvest	33454	68	7	0	2	78	56	12.1	58.9	8117	BCD
GH	H-9359	Golden Harvest	31712	68	1	0	0	40	60	13.3	58.5	7989	BCD
MY	X25806	Mycogen	31537	68	2	0	0	73	64	13.9	57.9	7256	BCD
ST	ST7539RR	SeedTec	31537	65	6	0	1	46	56	12.6	60.4	7173	BCD
DS	Stealth 1615	Dairyland Seed	31712	71	1	0	0	94	59	13.6	57.7	7078	CD
NC+	4502B	NC+ Hybrids	33280	69	5	0	0	75	57	12.9	57.7	6379	D

Average	31929	68	7	0	1	40	57	13	59.8	8944
Coefficient of Variation	1.7	1.8	64.7		168.9	59.9	4.3	3.71	1.6	14.8
LSD @ 5%	1126.0	2.6	9.4		1.9	49.7	5.2	1.44	2.0	2766.3
Probability of Significance	*	**	**		NS	*	**	**	**	*
Non-additivity			*							

¹Yield adjusted to 15% moisture

²Entered at the request of SeedTec

2005 Freese Roundup Ready Corn Variety Trial

Cooperator: Erik Freese
Experimentors: Brittan, Bryant, Kochi
Soil Type: Yolo silt loam
Planting Date: May 2, 2005
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
Insecticide: None

Seed drop: 7 inches
Length of Plots: 1400 feet
Row Width: 2 row 60 inches
Replications: 2
Previous Crop: Corn
Herbicide: Roundup
Harvest Date: Oct. 10, 2005
Insecticide: None

Var. No.	Company Initials	Entry Name/NO.	Stand (Plants/A)	Days to Bloom	Maize					Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. Calculated lbs/bu	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
					Mosaic (%)	Fusarium ear rot (%)	Head Smut (%)	Common Smut (%)	Lodged Plants (%)					
Golden Harvest		GH H-9248RR	31189	80	0	2	0	1	1	48	16	58.5	12017	A
SeedTec		ST ST7539RR	29272	82	0	4	0	2	0	47	16	58.6	11976	AB
Grower		ST ST7539RR	30840	81	0	8	0	4	0	48	16	59.4	11955	AB
Asgrow		AS RX715RR2	32583	81	0	2	0	0	0	48	14	61.3	11915	ABC
Dekalb		DK DKC63-62RR2	31189	81	0	5	0	0	0	46	16	61.5	11617	ABC
Mycogen		MY 2P782RR2HXLI	32409	80	0	4	0	0	0	50	16	59.1	11406	ABCD
Pioneer ²		PI 31N26	29621	83	0	1	0	0	0	46	17	62.4	11318	ABCDE
Asgrow		AS RX752RR2	31712	81	0	1	0	0	0	44	15	59.1	11274	ABCDE
Tuleburg		TB SX5447RR	31015	80	0	1	0	0	0	47	15	58.5	11206	ABCDE
Golden Harvest		GH H-9622RR	30840	85	0	1	0	1	0	50	18	59.4	11015	ABCDE
Garst		GA 8270RR	31537	84	0	2	0	0	0	51	18	57.8	10851	ABCDE
Croplan		CP 818RR	30144	81	0	3	0	0	0	44	19	58.6	10805	BCDE
Dekalb		DK DKC63-80RR2	29969	82	0	6	0	0	0	46	14	62.2	10737	CDE
SeedTec		ST ST7566RR	31886	79	0	5	0	1	0	48	16	58.2	10718	CDE
NC+ Hybrids		NC+ 5413R	29621	79	0	10	0	3	0	45	16	58.5	10283	DE
NC+ Hybrids		NC+ 4574RB	31712	81	0	0	0	0	0	48	14	60.3	10176	E
Average			30971	81	0	3	0	1	0	47	16	59.6	11204	
Coefficient of Variation			6.3	2.0		63.7		261.6		5.5	3.2	1.1	4.4	
LSD @ 5%			4176	3.4		4.3		3.7		5.5	1.7	1.4	1044.0	
Probability of Significance			NS	NS		**		NS		NS	**	**	*	
Non-additivity				0.017				0						
*	95% Significance				**	99% Significance								

¹ Yield adjusted to 15% moisture

² Entered at the request of SeedTec

2005 Mello Corn Variety Trial - Tyler Island

Cooperator: Steve Mello
Experimentors: Brittan, Kochi
Planting Date: April 25, 2005
Planting Method: White air planter, 8 row
Planting Depth: 2 inches
Rows Per Plot: 4

Location: Tyler Island
Length of Plots: ~670 feet
Row Width: 30 inches
Previous Crop: Wheat
Harvest Date: October 7, 2005
Irrigation: By spud ditch
Seed drop: 6 inches, 35,000seed/a

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

Company Initials	Entry Name/NO.	Stand Plants/A	Days to Bloom	Ear Height (in)	Fusarium ear rot (%)	Head Smut (%)	Common Smut (%)	Moisture at Harv. (%)	Bushel Wt. lbs/bu	Yield ¹ (lbs/A)	Duncan's Multiple Range Test (5%)
Croplan	CP 818	34848	75	58	0	0	0	15.9	59.2	13960	A
Asgrow	AS RX715RR2	38333	79	57	1	0	0	13.8	60.5	13770	AB
Golden Harvest	GH H-9359	37462	80	48	1	3	1	14.2	60.0	13670	ABC
Tuleburg	TB SX5465	37462	83	51	0	0	1	14.6	59.4	13540	ABCD
High Test ²	HT HT7727	34848	80	52	0	1	1	14.3	59.6	13510	BCD
Pioneer ²	PI 33N56	37462	80	55	0	1	0	14.0	61.7	13310	CDE
NorthrupKing	NK N72-J5	38333	77	47	1	0	0	14.3	58.9	13300	CDE
Golden Harvest	GH H-9445	37462	81	53	0	0	1	13.8	60.8	13250	CDEF
Pioneer ²	PI 31G98	36590	77	65	0	1	0	14.2	59.2	13240	CDEF
Dekalb	DK DKC63-62	37462	77	53	0	0	0	13.7	61.2	13130	DEF
Tuleburg	TB SX5447RR	38333	80	50	0	0	0	14.3	59.1	13120	DEF
Asgrow	AS RX752RR2	38333	80	48	2	0	0	14.4	59.9	13090	DEF
Dekalb ²	DK DK60-15	35719	81	45	0	1	0	14.3	59.9	13090	DEF
Pioneer ²	PI 31G98G	37462	77	64	0	1	0	14.4	61.3	13090	DEF
Dairyland Seed	DS Stealth 161	33977	80	54	0	3	0	15.5	59.4	12930	EFG
Mycogen	MY 2J787	38333	75	56	1	0	1	15.3	60.5	12930	EFG
SeedTec	ST ST7539RR	37462	74	48	1	1	0	14.2	60.1	12890	EFG
Dekalb	DK DKC61-50	38333	79	55	0	0	0	13.7	60.0	12880	EFG
NorthrupKing	NK NX8582	36590	80	62	0	0	0	15.7	61.5	12800	FGH
NC+ Hybrids	NC+ 5411	34848	78	54	1	0	0	13.6	59.1	12590	GHI
Mycogen	MY X25806	32234	77	57	4	0	0	15.4	58.4	12390	HI
NC+ Hybrids	NC+ 4502BP	33977	75	54	0	2	0	14.6	59.6	12260	I
SeedTec	ST ST7566RR	37462	79	44	2	0	1	14.0	58.9	11710	J

Average 36666 78 53 1 0 0 14.4 59.9 12911
Coefficient of Variation(%) 7.7 0.5 5.8 171.7 182.9 8.2% 3.9 1.2 1.5
LSD @ 5% 5832.5 0.8 6.4 1.9 1.8 61.8% 1.2 1.5 406.4
 Probability of Significance NS ** ** NS NS ** ** **

1 Yield adjusted to 15% moisture
 2 Grower requested