

## 2004 UCD Russell Ranch Corn Variety Trial

Cooperator: UC Davis LTRAS

Experimentors: Brittan, Bryant, Kochi

Soil Type: Yolo silt loam, Class I

Planting Date: April 15, 2004

Planter: John Deer 71 plate planter

Planting Depth: 2.5 inches

Rows Per Plot: 4

Fertilizer: 45 lbs. N,P,K/acre preplant, 165 lbs. N/acre sidedress (urea)

Irrigation: By furrow

Location: UCD Russell Ranch South 0.2mi of Russell Rd. 0.5mi west Co.Rd. 95

Seed drop: 7 inches

Length of Plots: 210 feet

Row Width: 30 inches

Replications: 2

Previous Crop: Tomotes

Herbicide: None

Harvest Date: 9/30/2004

Insecticide: None

Maize													Duncan's	
Dwarf Fusarium Head Common Lodged													Multiple	
Company	Company	Entry	Stand	Days to	Mosaic	ear rot	Smut	Smut	Plants	Ear	Moisture	Bushel Wt.	Yield**	Range
Name	Initials	Name/NO.	(Plants/A)	Bloom	(%)	(%)	(%)	(%)	(%)	Height	at Harv.	Calculated	(lbs/A)	Test (5%)
					(%)	(%)	(%)	(%)	(%)	(in)	(%)	lbs/bu		
Asgrow	AS	RX752RR/YG	30579	77	0	8	0	0	0	60	13.0	63	16357	A
Croplan	CP	818RR/BT	29708	78	0	0	0	0	0	66	13.9	61	15444	AB
Mycogen	MY	2T780	30318	78	0	27	0	0	0	70	12.9	60	15314	ABC
SeedTec	ST	7570RR	27530	73	0	7	0	1	0	59	12.2	60	14923	ABCD
Tuleburg	TB	SX5447RR	31102	72	0	0	0	0	0	58	12.6	60	14664	BCDE
DEKALB	DK	DKC61-42	38246	76	0	12	0	7	0	60	13.6	61	14229	BCDEF
NC+ Hybrids	NC	5433RB	29621	74	0	3	0	0	0	64	12.1	60	14147	BCDEF
SeedTec	ST	7539RR	28053	72	0	5	0	1	0	61	13.1	60	13929	BCDEF
Sieben	SI	7743	31973	73	0	1	0	4	0	65	13.1	61	13907	BCDEFG
Pioneer	PI	3162	28750	74	0	2	0	2	0	58	13.6	63	13767	BCDEFG
Asgrow	AS	RX940RR2	30666	81	0	4	0	0	0	82	13.5	62	13718	BCDEFG
Mycogen	MY	2D835	31102	77	0	1	0	0	0	75	13.7	61	13634	CDEFG
NC+ Hybrids	NC	7101	28837	77	0	0	0	1	0	60	13.9	61	13454	DEFG
Sieben	SI	7730	30928	77	0	4	0	0	0	64	12.6	62	13405	DEFG
DEKALB	DK	DKC61-43	32844	78	0	19	0	1	0	58	12.0	60	13177	DEFG
Golden Harvest	GH	H-9407	29534	75	0	0	0	0	0	58	13.5	60	13026	EFGH
Tuleburg	TB	SX5400RR	35806	75	0	7	0	1	0	68	12.2	61	12970	EFGH
NorthrupKing	NK	NX8582	29969	83	0	1	0	0	0	80	13.7	63	12499	FGH
DEKALB	DK	DKC64-10 RR	31189	78	0	2	0	0	0	67	12.2	61	12159	GH
NC+ Hybrids	NC	4616	27356	78	0	3	0	0	0	63	12.8	60	11361	H
Average			30705	76	0	5	0	1	0	65	13.0	61	13804	
<b>Coefficient of Variation</b>			7.13%	1.39%		77%					5.5%	2%	5%	
<b>LSD @ 5%</b>			4584.59	2.215		8.2					1.5	2	1520	
Probability of Significance			99%	99%							NS	NS	99%	

\*\* Yield adjusted to 15% moisture

## 2004 Freese Roundup Ready Corn Variety Trial

Cooperator: Erik Freese  
Experimentors: Brittan, Kochi  
Soil Type: Capay silty clay loam  
Planting Date: April 8, 2004  
Planter: Case IH 1200 No-till planter  
Planting Depth: 2.5 inches  
Rows Per Plot: 4  
Fertilizer: 32gal/ac N + water run  
Irrigation: By furrow  
Location: First field east of Pitt School Rd. and Weber Rd.

Seed drop: 7 inches  
Length of Plots: 1257 feet  
Row Width: 2 row 60 inch beds  
Replications: 2  
Previous Crop: Corn  
Herbicide: Roundup Ultra, 2 applications  
Harvest Date: September 29, 2004  
Insecticide: None

Company Initials	Entry Name/NO.	Stand (Plants/A)	Days to Bloom	Maize						Ear Height (in)	Moisture at Harv. (%)	Bushel Wt. lbs/bu	Yield*** (lbs/A)	Duncan's Multiple Range Test (5%)
				Dwarf Mosaic (%)	Fusarium ear rot (%)	Head Smut (%)	Common Smut (%)	Lodged Plants (%)						
Mycogen	MY 2T801	25613	80	2	10	0	1	0	47	15	58.9	9617	A	
SeedTec	ST 7539RR	25439	83	0	11	0	1	0	47	14	58.0	9614	A	
Golden Harvest	GH H-9248 RR	23784	80	0	8	0	0	0	49	14	58.2	9308	A	
Croplan	CP 818RR/BT	24655	87	0	1	0	0	0	45	16	58.7	9251	A	
Asgrow	AS RX752RR/YG	26180	83	0	9	0	1	0	47	14	59.5	8893	AB	
Asgrow	AS RX940RR2	25875	93	0	4	0	0	0	60	15	59.2	8750	AB	
Pioneer	PI 31G97	26267	93	0	2	0	1	0	59	14	59.9	8702	AB	
SeedTec	ST 7570RR	27138	81	0	13	0	0	0	42	13	58.8	8641	AB	
Pioneer	PI 31N26	24437	91	0	2	0	0	0	48	15	61.4	8634	AB	
Tuleburg	TB SX5447RR	24263	82	0	2	0	3	0	41	13	56.4	8586	AB	
DEKALB	DK DKC63-24 RR:	25483	90	0	21	0	2	0	56	14	60.1	8299	AB	
NorthrupKing	NK L78-U7	26092	89	0	3	0	3	0	49	14	58.3	8032	AB	
NC+ Hybrids	NC 5413R	24089	84	0	10	0	0	0	48	14	57.9	8022	AB	
DEKALB	DK DKC64-10 RR:	25962	89	0	1	0	1	0	47	14	58.8	7554	BC	
NC+ Hybrids	NC 4825R	23348	85	0	11	0	2	0	46	13	58.8	7361	BC	
Tuleburg	TB SX5400RR	20822	85	0	10	0	0	0	49	13	58.5	6210	C	
Average		24965	86	0	7	0	1	0	49	14	58.9	8467		
<b>Coefficient of Variation</b>		4.0%	1.2%		61.2%		82.4%		6.9%	3.8%	1.2%	8%		
<b>LSD @ 5%</b>		2147	2		9		1		7	1	1.6	1396		
Probability of Significance		99%	99%		NS		NS		99%	99%	99%	99%		

\*\*\* Yield adjusted to 15% moisture

## 2004 Mello Corn Variety Trial - Tyler Island

Cooperator: Steve Mello

Experimentors: Brittan, Kochi

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

Planting Date: April 9, 2004

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 Thimet 20G at planting

Herbicide: Accent

Location: Tyler Island

Length of Plots: ~1300 feet

Row Width: 30 inches

Previous Crop: 2003-Wheat

Harvest Date: 09/16/04

Irrigation: By spud ditch

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

	Company	Entry	Stand	Days to	Plants	Fusarium	Head	Common	Ear	Moisture	Bushel	Yield**	Duncan's
	Initials	Name/NO.	(Plants/A)	Bloom	Lodged	Ear Rot	Smut	Smut	Height	at Harv.	Wt.	(lbs/A)	Multiple
					(%)	(%)	(%)	(%)	(in)	(%)	lbs/bu		Range
	Croplan	CP 818RR/BT	29660	81	0	0	1	0	61	17	57.6	15715	A
	Golden Harvest	GH H-9359	30215	82	0	1	6	0	60	14	59.4	15648	A
	NorthrupKing	NK N72-J5	32314	84	0	0	1	1	53	13	57.9	14975	AB
	DEKALB	DK DKC61-42	31601	81	0	2	8	0	58	13	59.0	14944	ABC
	Asgrow	AS RX752RR/	29146	85	0	0	8	0	57	13	60.3	14901	ABC
	NC+ Hybrids	NC 5433RB	29423	83	0	1	1	0	54	14	60.1	14899	ABC
	Mycogen	MY 2T780	31442	83	0	5	2	0	62	15	58.9	14769	ABC
	DEKALB	DK DKC60-17I	35284	84	0	1	3	0	50	13	60.2	14324	ABCD
	SeedTec	ST 7539RR	28750	84	0	0	1	1	50	14	59.6	14207	BCD
	Pioneer	PI 31G98	29700	88	0	0	4	0	67	14	60.0	13852	BCD
	NC+ Hybrids	NC 4822	31918	86	0	0	11	0	57	13	59.4	13541	CDE
	Asgrow	AS RX940RR2	29423	91	0	2	7	0	78	15	60.8	13536	CDE
	SeedTec	ST 7570RR	32987	82	0	0	5	0	54	13	59.9	13295	DE
	Mycogen	MY 2D835	32512	80	0	0	3	0	68	14	58.1	13079	DE
	Pioneer	PI 32B33	29344	83	0	0	14	0	62	14	59.5	12186	E
	Average		30914	84	0	1	5	0	59	14	59.4	14258	
	<b>Coefficient of Variation</b>		2.2%	1.1%			82%		8.2%	4.7%	1.0%	4.1%	
	<b>LSD @ 5%</b>		1454	2.0			8.2		10.4	1.4	1.3	1248	
	Probability of Significance		99%	99%		NS	NS	NS	99%	99%	99%	99%	

\*\* Yield adjusted to 15% moisture