

## COOPERATIVE EXTENSION

University of California – Yolo, Solano & Sacramento Counties

# South Sacramento Valley Field Crops Report

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### In This Issue:

☆ - Corn Growers Meeting 2004

☆ - UCD Corn Variety Trial 2003

☆ - Mello Corn Variety Trial – Tyler Island 2003

☆ - Safflower Variety Trial 2003

## 2004 Triennial California Corn Growers Meeting

**February 13, 2004**

Jean Harvey Auditorium,  
14273 River Road, Walnut Grove, CA

4 Hours of Continuing  
Education Credits  
Applied For

### Agenda

8:00 - 8:30	Regional Field Corn Variety Trials Kent Brittan, UCCE Farm Advisor, Yolo, Solano & Sacramento Counties	10:30-10:50	Corn Insect Pests & Corn Stunt Charley Summers, PhD, UC Entomologist, Kearney Ag Center
8:30- 8:50	Corn Herbicide Update Mick Canevari, UCCE Farm Advisor & County Director, San Joaquin County	10:50-11:10	Corn Stunt Dan Opgenorth, PhD, Plant Pathologist, CDFA Plant Pest Diagnostics
8:50-9:10	Manure Management Marsha, Campbell-Mathews, UCCE Farm Advisor, Stanislaus County	11:10-11:20	Golden harvest corn seed varieties Tim Haight, Simplot
9:10-9:30	No-till corn Planting, DK & AS Wayne Edwards, Monsanto Technical Development Manager	11:20-11:30	Seiben corn seed varieties Bill Kellogg, Kellogg Seeds
9:30-9:40	Cropland corn varieties Mike Reed, Stanislaus Farm Supply	11:30-11:40	NC+ Hybrid corn seed varieties Manny, Mendes, Lockwood Seed and Grain
9:40-9:50	SeedTec corn varieties Craig Sharp, Eureka Seeds, Inc.	11:40-12:00	Safflower Variety Trials Kent, Brittan, UCCE Farm Advisor, Yolo, Solano & Sacramento Counties
9:50-10:10	<b>Break</b>	<b>12:00</b>	<b>Adjourned</b>
10:10-10:20	Variety Selection Jason Root, Pioneer Hybrids	<b>Lunch arranged by CAPCA Woodland Chapter, cost to be announced.</b>	
10:20-10:30	Northrup King Corn varieties Ed Wentzel, Western Ag Services	<b>Continuing Education meeting to follow lunch, fee for non-CAPCA members TBA.</b>	

# 2003 UCD Corn Variety Trial

Cooperator: UC Davis LTRAS  
Experimentors: Brittan, Bryant, Kochi  
Soil Type: Yolo silt loam, Class I  
Planting Date: April 10, 2003  
Planter: John Deer 71 plate planter  
Planting Depth: 2.5 inches  
Rows Per Plot: 4  
Fertilizer: 250 lbs N preplant broadcast and disked  
Irrigation: By furrow  
Insecticide: None

Location: UCD LTRAS  
Seed drop: 7 inches  
Length of Plots: 60 feet  
Row Width: 30 inches  
Replications: 2  
Previous Crop:  
Herbicide: None  
Harvest Date: October 16, 2003

Company	Entry	Stand	Days	Ear	Head	Common	Lodged	Ear	Moisture	Bushel	Yield**	Duncan's
Initials	Name/NO.	(Plants/A)	to	Rot	Smut	Smut	Plants	Height	at Harv.	Wt.	(lbs/A)	Multiple
			Bloom	(%)	(%)	(%)	(%)	(in)	(%)	(lbs/bu)	(lbs/A)	Range
ST	7539	33106	82	0	0	0	2	60	12	59.5	15959	A
PI	31G66	32815	88	0	0	0	8	70	12	60.7	15617	AB
ST	7570RR	33396	77	1	0	1	19	64	12	59.2	14910	ABC
SI	7690	34412	83	0	0	1	14	65	12	59.6	14699	ABCD
ST	7570	36155	83	1	0	0	5	60	11	59.2	14559	ABCD
PI	3162	33541	87	0	0	0	0	69	12	61.7	14213	BCDE
GH	H-9403G	32234	88	1	0	0	24	61	11	58.9	14194	BCDE
CP	818	33686	88	0	0	0	13	62	12	59.6	14056	BCDEF
NC	7101	34122	87	0	0	0	3	56	12	60.6	13992	CDEFG
CP	691BT	38478	86	0	0	1	7	60	12	59.3	13969	CDEFG
PI	34N43	32670	77	4	0	0	0	53	12	60.9	13378	CDEFG
TB	5420	36445	77	0	0	1	12	54	11	58.8	13350	CDEFGH
NC	5411	34122	85	1	0	0	7	64	11	59.5	13312	CDEFGH
DK	DKC61-24	33686	87	3	0	0	1	49	11	61.2	13132	DEFGH
CP	691	38623	84	1	0	2	5	60	11	59.4	13099	DEFGH
GH	H-2547	41818	87	5	0	3	5	58	11	59.5	12828	EFGH
NK	N8214	35284	90	0	0	0	13	68	12	60.3	12447	FGHI
AS	RX752YG	38914	83	1	0	0	16	51	11	59.4	12400	GHI
SI	7730	35574	86	0	0	0	2	62	11	60.7	12370	GHI
AS	RX741RR	31508	86	0	0	0	36	49	11	61.8	11755	HI
NC+	4616	34848	85	0	0	0	5	69	11	59.2	11730	HI
TB	5426	34993	75	0	0	0	6	53	11	58.8	11061	I
NK	N83N5	36736	90	0	0	0	26	70	12	61.0	10953	I
DK	DKC64-10RR	40946	89	0	0	0	80	48	11	59.3	10934	I
	Average	35338	84	1	0	0	13	59	11	59.9	13288	
<b>Coefficient</b>	<b>of Variation</b>	3%	1%					2%	3%	1.0%	5%	
	<b>LSD @ 5%</b>	2384	2					2	1	1.3	1398	
Probability	Significant	100%	100%	NS	NS	NS	NS	100%	NS	100%	100%	

\*\* Yield adjusted to 15% moisture

## 2003 Mello Corn Variety Trial - Tyler Island

Cooperator: Steve Mello  
Experimentors: Brittan, Kochi  
Planting Date: April 29, 2003  
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  
Insecticide: 5 lbs Thimet 20G at planting  
Herbicide: Accent  
Irrigation: By spud ditch  
Seed drop: 6 inches, 35,000seed/acre  
Soil Type: Rindge mucky silt loam, 10-25% Organic matter

Location: Tyler Island  
Length of Plots: ~2200 feet  
Row Width: 30 inches  
Previous Crop: 2002-Wheat  
Harvest Date: October 13, 2003

Company	Entry	Stand	Days to	Plants	Ear	Head	Common	Ear	Moisture	Bushel	Yield**	Duncan's
Initials	Name/NO.	(Plants/A)	Bloom	Lodged	Rot	Smut	Smut	Height	at Harv.	Wt.	(lbs/A)	Multiple
				(%)	(%)	(%)	(%)	(in)	(%)	lbs/bu		Range
AS	RX752YG	34347	72	1	1	0	0	52	13	61	13160	A
GH	EX-9445	30642	75	0	4	0	0	58	13	61	13051	A
DK	DKC60-17	33246	70	0	1	0	0	57	15	61	12994	AB
CP	705	31243	72	0	1	0	0	61	13	61	12836	ABC
NK	N72J5	34548	75	1	1	0	0	59	14	60	12776	ABC
TB	5447RR	33146	71	0	0	0	0	53	14	59	12723	ABC
ST	7570	33746	76	0	6	0	0	58	14	61	12548	ABCD
ST	7539	24033	75	0	1	0	0	56	13	60	12333	ABCD
NC+	5411	32044	78	0	1	0	0	63	13	60	12231	ABCD
CP	691	30242	74	0	0	1	0	60	14	59	11929	ABCDE
NC+	7101	32445	75	0	1	0	0	57	13	60	11929	ABCDE
CP	818	32445	78	17	0	0	0	63	14	60	11862	ABCDE
TB	5400RR	30142	78	1	0	1	0	59	14	61	11706	BCDE
PI	31G66	32545	78	1	2	1	0	71	14	61	11691	BCDE
NK	N83N5	32445	82	27	2	0	1	72	13	61	11527	CDE
DK	DKC66-50	32244	74	4	5	0	0	59	14	60	11378	DE
AS	RX741RR	33046	77	1	2	0	0	57	12	63	11368	DE
SI	7722	27438	79	0	18	0	0	63	13	61	11258	DE
PI	34N43	30642	72	0	0	0	0	53	14	61	10839	E
GH	H-9599RR	27338	81	6	0	0	0	63	13	60	10688	E
	Average	31398	75	3	2	0	0	60	13	61	12041	
Coefficient	of Variation	5.44%	1%					8%	5%	1%	5%	
	LSD @ 5%	3572	2					10	1	1	1142	
Probability	Significant	99.9%	100%	NS	NS	NS	NS	96%	NS	100%	100%	

## 2003 Safflower Variety Trial

<u>Cooperators:</u>	Arthur Hill, SaffTech; Art Weisker, SeedTec; Kent Brittan, UCCE; Mark Kochi, Yolo County	<u>Harvest Date:</u>	9/9/2003
<u>Planting Date:</u>	4/9/03	<u>Rows Harvested:</u>	2 Rows
<u>Location:</u>	UCD Agronomy Farm Field 4B	<u>Rows Per Plot:</u>	4 Rows
<u>Soil Type:</u>	Yolo silt loam, Class I	<u>Plot Length:</u>	90 feet
<u>Planting Seed Depth:</u>	2 inches into moisture	<u>Replications:</u>	4
<u>Seeding Rate:</u>	Hybrids-10lbs/ac, Nonhybrids-25lbs/ac	<u>Row Spacing:</u>	30 inches
<u>Previous Crop:</u>	2002 UC Wheat Variety Trials	<u>Herbicide:</u>	Treflan
<u>Fertilizer:</u>	60 lbs of N/acre as NH <sub>4</sub> NO <sub>3</sub> , 3-29-2, Broadcast	<u>Irrigations:</u>	None
<u>Remarks:</u>	Guards on west side not planted		

Brand Name	Variety Name	Moisture (%)	Bushel	Dry wt. Basis		Plant		Yield (lbs/A)	
			Weight (lbs/bu)	Oil (%)	Oil Yield (lbs/A)	Population (plnts/ac)			
SaffTech	9048	5.6	44.1	35.8	1250	64469	3702	A	
SeedTec	O148	5.2	40.2	42.3	1389	133729	3468	AB	
SeedTec	8140	5.3	40.0	42.5	1328	114998	3294	ABC	
SaffTech	9022	5.6	42.4	34.3	1063	62291	3285	ABC	
SeedTec	S-719	5.3	41.8	41.8	1291	111949	3262	ABC	
SeedTec	8150	5.3	41.9	42.8	1308	131551	3234	BC	
Cal/West	CW 99-OL	5.2	39.9	42.8	1299	118919	3201	BC	
SeedTec	S-345	5.0	38.8	43.3	1302	93218	3164	BC	
SeedTec	S-518	5.3	39.7	42.3	1203	111514	3006	BCD	
Cal/West	CW 88-OL	5.1	39.4	42.4	1159	119790	2883	CD	
SeedTec	S-555	5.0	39.7	43.0	1090	75794	2670	D	
Average		5.3	40.7	41.2	1244	103475	3197		
Coefficient of Variation (%)		3.5	1.3	1.3	8.6	11.1	8.9		
Least Significant Difference at 5%		0.3	0.8	0.8	155.0	16538.0	410		
**Probability of significance at 1%		**	**	**	**	**	**		

### Wheat Crop Progress To Date:

We have had good soil moisture and cold moist weather this season. In general, wheat stands are growing well and a lot slower than last year at this time. I asked Lee Jackson, UCD Small Grain Specialist, on Jan. 14<sup>th</sup> if he had seen any Stripe Rust yet, and he said he had not. I have not seen any stripe rust yet in our three counties as of that date either. But as the weather warms and we head into February we all need to keep a lookout. At this stage, stripe rust is harder to see than leaf rust. It develops slower than leaf rust and will not show up in the upper leaves until later. It will often appear on the bottom leaf, possibly a leaf laying on the soil surface, and will appear as necrotic blotches surrounded by a few small pustules. If the moist weather holds, start watching for Septoria. Prices for wheat and corn are up and should hold (I hope). Good luck and I hope to see you at the corn meeting.

Submitted by,

Kent Brittan  
Farm Advisor, Yolo, Solano and Sacramento Counties

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*January 15, 2004*

## **South Sacramento Valley Field Crop Report**

