

COOPERATIVE EXTENSION

University of California – Yolo, Solano & Sacramento Counties

**South Sacramento Valley
Field Crops Report**

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**No-Till Corn Production Field Day
Wednesday, September 21, 2005
10:00 AM – NOON**

UC Davis

Department of Plant Sciences Vegetable Crops Field Facility
Hutchison Blvd (about a half mile west of HWY 113)

An informal viewing and discussion opportunity will be held on Wednesday, September 21, from 10 o'clock in the morning through noon, at the Vegetable Crops Field Facility about a half mile west of HWY 113 on Hutchison Blvd for anyone interested in viewing no-till corn prior to harvest as part of a campus study of various conservation tillage with and without winter cover crop systems. The study is now in its fourth year of continuous CT production through a tomato/corn rotation. Planting equipment will be on site for examination and UCD researchers will discuss implementation and initial findings from this study. Please respond to Jim Jackson at (530) 681-2279 for further information.

2005 Southern Sacramento Valley Small Grains Meeting Wheat, Barley and Oats

Date: Thursday, September 29, 2005

Location: Norton Hall, 70 Cottonwood Street, Woodland, CA 95695

Time: 8:20AM until Noon

Meeting is Free and Open to All Interested Parties

**2.5 Hr - California Department of Pesticide Regulations Continuing Education Hours Applied For-
Includes 0.5 hr Laws and Regulations**

Time	Title	Presenter/Topic
7:45 to 8:10	Registration	
8:30	Welcome	Kent Brittan - Describe CE requirements
8:35 to 9:00	Osprey Herbicide Use	Mick Canevari, Farm Advisor and County Director, San Joaquin County
9:05 to 9:25	Regional Wheat Variety Trials	Lee Jackson Variety Adaptation & Disease Resistance Small Grains Agronomist & Specialist, UC Davis
9:30 to 9:45	Local Wheat Variety Trials	Kent Brittan Variety Adaptation & Disease Resistance Farm Advisor, Yolo, Solano, & Sacramento
9:45 to 10:00	UCD Wheat Breeding Program	Oswaldo Chicaiza Breeding Disease Resistance UC Davis Research Assistant Small Grains Program
10:00 to 10:20	Break	
10:20 to 10:35	Economical Fungicide Use	Jerry Schmierer Fungicide Use Guidelines. Farm Advisor, Colusa, Sutter Counties
10:40 to 11:10	Laws and Regs Update	Rick Landon DPR Updates and water quality testing. Yolo County Agricultural Commissioner.
11:10 to 11:30	New Oat Varieties	Cal Quallsit New oat varieties disease resistance Breeder, UC Davis.
11:30 to Noon	Local Barley and Oat trials Resistance	Kent Brittan Variety Adaptation & Disease Farm Advisor, Yolo, Solano, & Sacramento Counties

Refreshments gratefully provided by the **California Wheat Commission**.

Conservation Tillage Demonstration Day

Date: Tuesday, October 13, 2005

Time: 9 a.m.– 3 p.m.

Location: RDC (DeCarlo) Farms

Roberts Island -10 miles west of Stockton (south of Highway 4, west of I-5)

Approx ½ mile west from the intersection of Mueller Rd. and Stark Rd. (follow oiled road) Stockton, CA

Watch the Equipment Work!

Conservation tillage practices are a growing interest statewide. At the field day, we are bringing conservation tillage equipment from around the state to demonstrate reduced tillage implements, one pass bed preparation, and no-till planting into tomato beds and harvested corn residue.

Conservation tillage equipment can save money by reducing the number of times a tractor passes through a field, cuts down fuel use and wear and tear expenses. Other benefits include conserving water and creating less dust to improve air quality.

Program

Welcome & Introduction - *Mick Canevari*, UCCE San Joaquin County Director & Farm Advisor, Stockton

Why Conservation Tillage - *Jeff Mitchell*, UCCE Vegetable Crops/Cons-Till Specialist, Parlier

Weed Control Issues - *Anil Shrestha*, UCCE IPM Weed Ecologist, Parlier

Air Quality Update - *Rick McVay*, Regional Air Quality Control Board, Fresno

Grower Perspective Panel Ideas using Con-Till Equipment and Practices

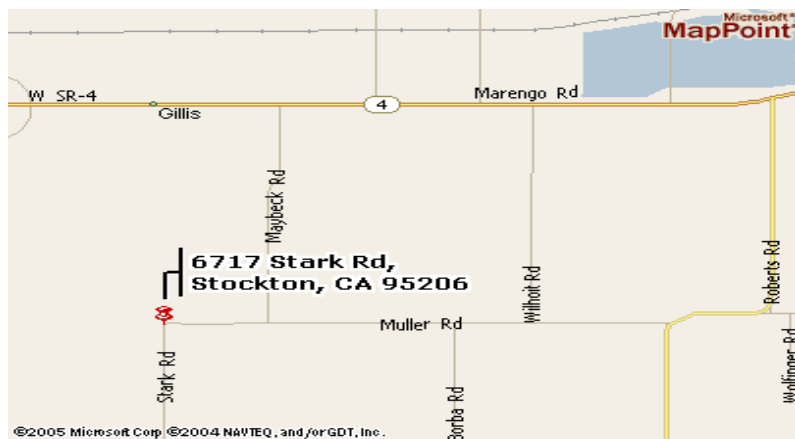
Some equipment that will be on display and field demonstrated include:

Eliminator	No-till planter	Strip till planter
Para Till	Corn Harvester /stalk shredder	Strip till ripper
Hann Disc	Buffalo cultivator	Sundance cultivator
Mulch tiller ripper		

Continuing Education Units will be offered.

The field day is hosted by Natural Resources Conservation Service, UC Cooperative Extension and San Joaquin Farm Bureau. For more information contact David Simpson, NRCS (209) 472-7127,

Mick Canevari, UCCE (209) 468-2085 or Kent Brittan, UCCE (530) 666-8143.



Lunch will be provided.

Must RSVP at (209) 472-7127 ext. 3.

If no answer, leave voice mail with name, phone number, number of lunches.

Sponsored By: UC Cooperative Extension, USDA/NRCS, San Joaquin Co. RCD

2005 Southern Sacramento Valley Wheat Variety Trials Over-Location Analysis

Kent Brittan - Farm Advisor Yolo, Solano and Sacramento Counties

4 Trial Locations: Dan Best Ranches; Craig Gnos; Hunn, Merwin & Merwin and Rominger Brothers

Planting Dates: Nov. 09, 2004; Nov. 22, 2004; Dec. 1, 2004; Nov. 23, 2004 respectively.

Varieties arranged by highest to lowest yield.

Variety	Days to Heading	Plant Height (in)	Lodging (%)	^Rating 1 to 8			Protein (%)	Bushel Weight (lbs/bu)	Yield (lbs/acre)	Duncan's Mean Separation
				Stripe Rust	BYDV	Septoria Blotch				
T 97TY38011	134	37	18	2	1	1	10.6	59.1	8075	A
T 00TV60147	125	34	23	2	1	2	10.6	55.3	7093	B
T 98TV46506	134	34	10	3	1	5	11.3	54.7	6459	C
Trical 1-105	134	41	11	1	2	2	11.3	57.7	6197	C
80404	135	32	2	1	1	3	11.9	59.7	6146	C
UC1419	142	33	1	1	2	5	12.4	58.8	5262	D
Summit (S)	137	33	7	3	2	6	12.1	57.7	5076	DE
BR6000W	143	40	22	1	3	3	11.5	60.4	5033	DE
63520D	139	34	0	6	1	7	12.1	57.1	4910	DEF
UC1296	137	37	25	2	2	6	11.6	60.6	4852	DEF
52303A	136	34	15	2	2	6	12.0	60.4	4802	EF
Blanca Grande	134	34	23	1	2	6	12.5	59.6	4787	EF
Clear White	134	35	2	1	1	6	12.0	59.3	4731	EFG
DA998-12	141	37	12	1	2	5	11.8	59.7	4683	EFG
UC1418	137	30	0	1	1	6	12.6	58.3	4525	FGH
DA900-229	136	33	21	3	1	6	12.7	58.6	4348	GH
UC1417	139	26	0	4	1	5	13.1	56.8	4343	GH
BZ998-256W	132	30	15	5	1	7	12.2	56.6	4335	GH
PR1404	143	38	16	1	2	4	11.3	57.9	4297	GH
Express	136	35	16	2	2	6	12.6	58.7	4295	GH
BRO318W	137	37	59	1	2	4	11.9	57.2	4187	HI
Trical01T60042	160	55	45	1	1	2	12.4	52.7	3798	I
Average	138	35	16	2	2	5	11.9	58.0	5102	
C.V. (%)	0.5	4.6	78.7	26.1	30.1	16.0	3.4	2.2	11	
L.S.D @5%	0.5	1.1	8.5	0.4	0.3	0.5	0.3	0.9	389	
Significance by:										
Location	**	**	**	**	**	**	**	**	**	**
Variety	**	**	**	**	**	**	**	**	**	**
Interaction	**	**	**	**	**	**	**	**	**	**

**= Significance at the 1% level, NS=Not Significant

¹Flag leaf Disease Rating: 1 to 8:1=0-3%, 2=4-14%, 3=15-29%, 4=30-49%, 5=50-69%, 6=70-84%, 7=85-95%, 8=96-100%

Loose Smut, Leaf Rust, Shatter and Frost were effectively zero.

Grain moisture at harvest averaged 10%.

T or Trical is a triticale produced by RSI for forage.

Please come to the Small Grains meeting to receive an in-depth report.

CHAMBERLAIN OAT VARIETY TRIAL - HARVEST YEAR 2005

Cooperators: D. Chamberlain
Experimenters: Brittan, Qualset, Vogt, Kochi

Irrigations: None

Soil Type: Reiff very fine sandy loam, Class I
Planting Date: 11/10/04
Planting Method: Drilled with 8" single disk grain drill on 5 ft. beds
Planting Rate: 120 Lbs/Acre
Length of Plots: 120 feet
Plot Width: 10 feet (14 rows)
Fertilizer: 400 lbs. N as NH₄ SO₄ post-plant broadcast 80unitsN/ac
Herbicides: 1.5 pts/acre MCPA (1/23/04)
Previous Crop: 2004 – Alfalfa

Grain Harvest Date: 6/29/05
Replications: 4

Fungicide: None

2005 Chamberlain Oat Variety Trial Forage and Grain Summary Sorted by Yield

Variety	Days to Heading	Height (in)	Lodging (%)	Shatter (seed/ft ²)	Crown	Stem	Powdery		% Frost	Stand Counts (plants/ac)	Bushel Weight (lbs/bu)	Grain Yield (lbs/ac)	Duncan's
					Rust	Rust	BYDV	Mildew					Means
					Disease Rating (1-8)								Separation
UC 128	180	44	0	0	1	1	1	1	0	743243	33.6	3269	A
UC 129	183	46	0	0	1	1	1	1	0	784080	34.5	2906	AB
UC 148	177	41	0	0	1	1	1	1	0	805860	37.7	2875	ABC
UC 125	171	35	0	0	1	1	1	1	0	729630	38.0	2438	BCD
UC 113	177	35	0	0	1	1	1	1	0	669735	37.8	2395	BCD
UC 142	166	32	0	0	1	1	1	1	0	786803	36.4	2374	BCD
UC 130	178	29	0	0	1	1	1	1	0	751410	32.7	2244	CD
UC 132	171	27	0	0	1	1	1	1	0	773190	33.1	2172	D
Bates 89	177	42	0	0	1	1	1	1	0	982823	37.9	2044	D
Montezuma	156	33	54	0	3	3	1	1	0	786803	35.0	1377	E
California Red	179	42	2	0	4	1	1	1	0	852143	31.3	1154	E
Average	174	37	5	0	1	1	1	1	0	787793	35.3	2295	
C.V.	2.4	6.4	NA	NA	14.4	0.0	NA	NA	NA	5.7	1.7	17.72	
L.S.D @5%	6.1	3.4			0.3	0.0				64374	0.9	587.5	
Statistical Significance	**	**			**	**	NS			**	**	**	

*=95% of the time

**=99% of the time

Oat Forage Quality & Yield

Sub-plot harvested for forage quality
& yield

Forage Harvest

Date: 5/27/05

Variety	N (Total) (%)	Protein (%)	Ash (%)	NDF Ash Free (%)	NDF - Reflux (%)	Moisture (%)	3 Reps Yield (tons/ac)	Duncan's Means Separation
UC 128	0.6	3.8	7.3	62.4	63.3	59.8	11.4	A
UC 148	0.8	5.3	6.5	50.2	51.4	58.5	10.8	A
Bates 89	0.7	4.1	6.4	57.9	59.1	55.7	10.8	A
UC 129	0.7	4.6	6.5	56.1	56.9	59.2	10.0	AB
UC 125	0.7	4.6	6.7	49.4	50.5	56.2	9.2	AB
UC 113	0.9	5.6	6.7	46.8	48.2	59.2	8.8	AB
California Red	0.7	4.4	6.9	59.5	60.7	53.7	7.8	BC
UC 132	To mature					51.4	7.6	BC
Montezuma	0.9	5.5	6.5	54.9	55.8	67.7	7.3	BC
UC 130	0.9	5.6	7.3	53.3	54.7	57.7	5.4	C
UC 142	Not Harvested to mature							
Average	0.8	4.8	6.8	54.5	55.6	0.6	8.4	
C.V.	17.5	17.6	9.4	10.0	9.9	3.9	16.7	
L.S.D @5%	0.2	1.2	0.9	8.0	8.7	33.0	2.5	
Statistical Significance	*	*	NS	**	**	**	**	**
*=95% of the time			**=99% of the time					

Submitted by,

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September 15, 2005

South Sacramento Valley Field Crop Report



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University of California and U.S. Department of Agriculture cooperating.

