

South Sacramento Valley Field Crops Report



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Selecting the Right Wheat Variety Just Got Easier

By Kent Brittan, Agronomic Crops Advisor Yolo, Solano and Sacramento

We started out the last wheat season with eight hard red (HR) wheat varieties to choose from for Southern Sacramento Valley. With the new strains of wheat stripe rust, we are now down to one variety, I feel comfortable in recommending Summit. Two other HR varieties are possibilities, Express and Stander. Express is considered moderately susceptible to stripe rust and Stander is moderately resistant.

As you view the results from my trials and look at your costs including a possible fungicide spray, these two do not appear to be valid options. This is unfortunate because Express is our high quality bread wheat and the mills like it. It is also usually $\frac{3}{4}$ to higher in protein than Summit and has higher bread quality scores. Stander is similar to Summit in bread making quality. We are fortunate that Summit has shown to be so universally adapted to our region.

The table below compares the yields, from highest to lowest. These are the 14 varieties common to the five wheat variety trials I conducted in the Southern Sacramento Valley. I also included both hard red (HR) and hard white (HW) varieties. The disease scores are shown as percentage infection of just the flag leaf. I have omitted shatter; loose smut, frost, and leaf rust because they were nominal this season. Leaf rust would have been much worse if there had been any chlorophyll left after the stripe rust. Stripe rust caused severe infection in the other cereals also. Only Summit and Plata developed low levels of >5% leaf rust. All the locations were non-irrigated and treated late with a fungicide for stripe rust. Each location had plots 100ft long and 10ft wide, which were replicated 4 times

2003 Wheat Variety Trials - Over Five Locations

Cooperators: Dan Best, Roy Gill, Larry Hunn, Steve Mello and Charlie Rominger

1000ft²/plot 4 reps/location

Variety	Days to Heading	Plant Height (in)	Lodging (%)	% Stripe Rust	% BYDV	% Septoria Blotch	Yield (lbs/acre)	Duncan's Multiple Range Test
Summit	141	34	0	4	3	11	6632	A
Plata	140	36	0	5	2	3	6079	B
Trical 96	130	34	0	57	0	2	5976	B
Blanca Grande	137	36	1	6	3	3	5902	B
BZ998-256W	137	31	0	32	10	2	5796	B
Stander	140	32	0	25	2	3	5786	B
DA998-12	141	39	12	18	2	3	5192	C
Anza	146	36	13	61	1	2	4626	D
Winanza	146	37	12	43	3	3	4515	D
Express	141	35	2	59	1	1	4383	D
Kern	140	30	1	82	0	2	4321	D
Yolo	143	35	3	84	0	0	3965	E
Klasic	137	29	6	97	0	8	3890	E
Bonus	138	29	2	98	0	0	2497	F
Average	140	34	4	48	2	3	4969	
C.V.%	1	3	138	12	101	93	11	
L.S.D @5%	1	1	3	3	1	2	327	
	**	**		**			**	

** = significant 99% of the time

* = significant 95% of the time

Choices for white wheat varieties have been narrowed down to two, Blanca Grande and Plata. I saw no problems with the first year for Blanca Grande in my trials. Plata however has shattered in commercial locations and has had a problem with falling numbers in of the Dryland Hills. Both wheat varieties tend to have similar high quality characteristics. I will know more when I get my quality analysis results back from the California Wheat Commission. The CA Wheat Commission conducts these analyses for gratis every year and I really appreciate their support. Their website has additional variety and industry information at: www.californiawheat.org/. Annual Agronomy research Progress Reports are posted at: <http://agronomy.ucdavis.edu/agronomy/prgrpt.htm> this includes the results of the statewide small grains trials conducted by Lee Jackson, Small Grains Specialist UCD.



2003 CALIFORNIA ALFALFA & FORAGE SYMPOSIUM

DECEMBER 17-19, 2003 MONTEREY, CALIFORNIA

REGISTRATION FORM

See <http://alfalfa.ucdavis.edu> for registration and other information—PCA, CCA Credits offered

HOTEL INFORMATION – Doubletree Hotel, Two Portola Plaza, Monterey, CA 93940

For reservations, call the hotel directly at (831) 649-4511 or toll free at 1-800-222-8733. Be sure to mention you are with the California Alfalfa & Forage Symposium to obtain the group rate of \$99 for Single/Double occupancy.

2003 Southern Sacramento Valley Wheat Meeting

Date: October 10, 2003, Friday

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

Time: 8:00am until 12:00pm.

Meeting is Free and Open to All Interested Parties

3.0 - California Department of Pesticide Regulations Continuing Education Hours Approved



Time	Title	Presenter	Topic
7:45 to 8:10	Registration	Doors open	
8:10	Welcome	Kent Brittan, Agronomic Crop Advisor, Yolo, Solano, & Sacramento	
8:15 to 8:35	Wheat Industry Update	Bonnie Fernandez Wheat Industry Info, & Impact of Disease Commissioner, California Wheat Commission	
8:40 to 9:00	Regional Wheat Variety Trials	Lee Jackson Small Grains Agronomist & Specialist, UC Davis	Variety Adaptation & Disease Resistance
9:05 to 9:25	Local Wheat Variety Trials	Kent Brittan Agronomic Crop Advisor, Yolo, Solano, & Sacramento	Variety Adaptation & Disease Resistance
9:30 to 9:45	Grass Herbicides for Wheat	Jerry Schmierer Farm Advisor, Colusa, Sutter Counties	Grass Herbicide Use Guidelines
9:45 to 10:00	Stripe Rust Breeding Program	Oswaldo Ochoa UC Davis Research Assistant Small Grains Program	Breeding Disease Resistance
10:00 to 10:20	Break		
10:20 to 10:35	Stripe Rust Disease Update	Lee Jackson Small Grains Agronomist & Specialist, UC Davis	Stripe Rust Disease Physiology
10:40 to 11:00	Seed Availability	Mark Mezger Farmer's Grain. – Seed Handler	Commercial Summit Seed Availability
11:05 to 11:20	Quadris & Tilt Fungicides	Marty Wiglesworth Syngenta Crop Protection Corp.	Fungicide Use Guidelines & Label Info.
11:20 to 11:35	Fungicide Rate Research	Doug Munier Farm Advisor, Glenn, Butte, Tehama	Quadris Fungicide Rate Use in Wheat
11:35 to 12:00	Fungicide Result Discussion	Mick Canevari Farm Advisor, San Joaquin County	Fungicide Trial Results & Use Discussion



CONSERVATION TILLAGE 2003

THE CALIFORNIA EXPERIENCE

Tuesday, October 7, 2003

Tulare, CA

University of California
Cooperative Extension
4437 S. Laspina Street
(Across from Tulare Farm Show grounds)

Contacts:

Steve Wright 559-685-3309 Ext. 215
Carol Frate 559-685-3309 Ext. 214

Wednesday, October 8, 2003 Five Points, CA

University of California
West Side Research and Extension Center
17353 W. Oakland
(Corner of Oakland and Lassen Avenues)

Contact:

Jeff Mitchell 559-646-6565

Thursday, October 9, 2003

Davis, CA

University of California, Davis
LTRAS (Long-Term Research on Agricultural
Systems) Field Headquarters
(about 5 miles west of the town of Davis on
Russell Blvd.)

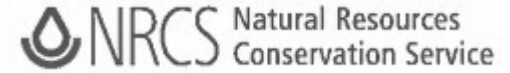
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UC Cooperative Extension, Yolo
70 Cottonwood Street
Woodland, CA 95695-2557



Cooperative Extension, University of California



THE CALIFORNIA EXPERIENCE
Three Half-Day Conferences

Tues • Oct. 7, 2003	<i>All sessions</i> 8:30 a.m. to 12:30 p.m. (Noon)
Tulare, CA	
Wed. • Oct. 8, 2003	
Five Points, CA	
Thurs. • Oct. 9, 2003	
Davis, CA	

Highlighting

Recent experiences with reduced tillage cotton,
corn, bean, and tomato production systems in
California.

PCA and CCA credit applied for.





CONSERVATION
TILLAGE 2003



THE CALIFORNIA EXPERIENCE

October 7, 2003 in Tulare, CA
October 8, 2003 in Five Points, CA
and
October 9, 2003 in Davis, CA

This year's Conservation Tillage 2003 Conferences will be held at three Central Valley locations: Tulare, Five Points and Davis. The focus of each of these sessions will be on recent developments related to reduced tillage production systems that are being evaluated at a number of sites throughout the Valley.

The format of CT2003 will highlight case study panels of farmers, researchers, NRCS conservationists, PCA's and private industry partners who are working together to evaluate and develop reduced tillage production system alternatives for a variety of crops including corn, cotton, tomatoes, beans, and small grains.

Each panel will describe the basic production system they are working on, give information on the equipment they are using, and provide insights on specific issues they have had to address in their search for sustainable systems. Opportunities will be provided for questions following each case study panel presentation.

An important feature of CT2003 will be the direct involvement of local farmers, researchers and PCA's who will talk about the range of management issues that they have faced as the move toward fewer tillage passes in their crop production systems

A Conference Proceedings summarizing the case studies will be provided to all participants.



CONSERVATION
TILLAGE 2003



THE CALIFORNIA EXPERIENCE

What types of reduced tillage systems are currently being evaluated?

What sort of crops rotations is being tried?

What equipment is being used?

What have been the results?

What future innovations are needed?

These are some of the questions that will be addressed in this year's CT2003 conferences.



Credit Requested
PCA and CCA credits applied for



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TILLAGE 2003



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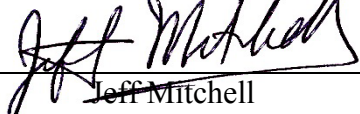
CALIFORNIA ASSOCIATION OF RESOURCE
CONSERVATION DISTRICTS

Additional information about these conferences and the ongoing work of the UC Division of Agriculture and Natural Resources and USDA Natural Resources Conservation Service Conservation Tillage Workgroup is available at our website:

<http://groups.ucanr.org/ucct>

or

FOR INFORMATION CONTACT:


Jeff Mitchell
Vegetable Crops Specialist

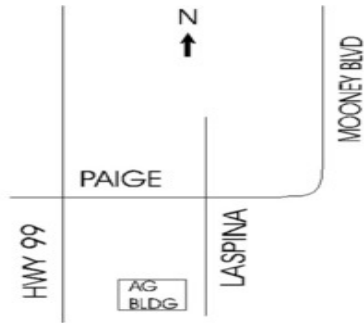
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CT2003: The California Experience
October 7, 2003

UCCE Tulare County
4437 S. Laspina St., Ste. B, Tulare, CA
559-685-3303



Traveling north on Highway 99 take the Paige Avenue exit. At stop sign go right. The next stop sign is Laspina, go right. We are about 1 mile on the right.

Traveling south on Highway 99 take the Paige Avenue exit. At stop sign go left. Take another left and go over overpass to stop sign which is Laspina and go right. We are approximately 1 mile on the right.

Conservation Tillage Cotton Planting and Postharvest Management Systems at Borba Farms, Riverdale, CA

Session Convener: Jeff Mitchell

Bob Prys, *Grower, Borba Farms, Riverdale, CA*
Karen Klonsky, *UCCE Specialist Agricultural and Resource Economics, UC Davis*
Jeff Mitchell, *UCCE Specialist Vegetable Crops, UC Davis*

Reduced Tillage Cotton and Corn Systems at Replogle Farms, Visalia, CA

Session Conveners: Steve Wright and Carol Frate

Gil Replogle, *Grower, Replogle Farms, Visalia, CA*
Steve Wright, *UCCE Farm Advisor Cotton and Field Crops, Tulare County*

Carol Frate, *UCCE Farm Advisor Corn and Field Crops, Tulare County*
Bob Hutmacher, *UCCE Specialist Cotton, UC Davis*

Conservation Tillage Corn Production Systems in the San Joaquin Valley

Session Convener: Barbara Kutzner

Tom Barcellos, *Grower*
Brian Feria, *Grower, Tipton, CA*
Dominic Patino, *Pest Control Adviser, Bakersfield, CA*
Larry Becksted, *Pest Control Adviser, Merced, CA*
Barbara Kutzner, *Technical Development Manager, Monsanto Company*

Conservation Tillage Cotton and Tomato Production Systems

Session Convener: Jeff Mitchell

Willi Horwath, *Soil Scientist, UC Davis*
Karen Klonsky, *UCCE Specialist Agricultural and Resource Economics, UC Davis*
Jeff Mitchell, *UCCE Specialist Vegetable Crops, UC Davis*

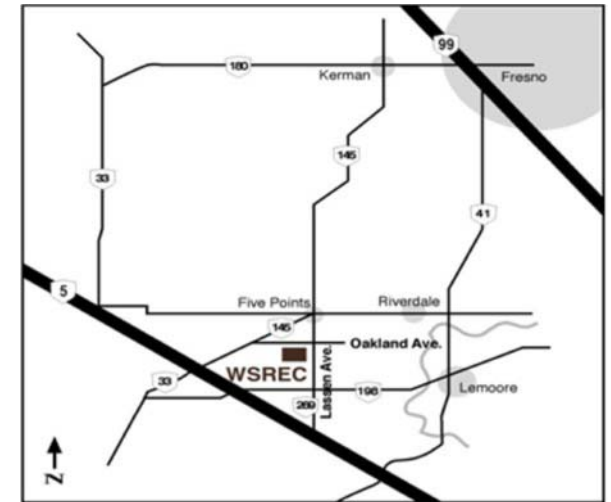
Cotton Postharvest Stalk Management Update

Session Convener: Bob Hutmacher

Jim Rudig, *CDFG Pink Bollworm Management Committee, Fresno, CA*
Bob Hutmacher, *UCCE Specialist Cotton, UC Davis*

CT2003: The California Experience
October 8, 2003

West Side Research and Extension Center
17353 W. Oakland Ave., Five Points, CA



Conservation Tillage Cotton Planting and Postharvest Management Systems at Borba Farms, Riverdale, CA

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Submitted by,

Kent Brittan

Agronomic Crops Advisor Yolo, Solano and Sacramento

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

University of California
Agriculture & Natural Resources
Cooperative Extension
70 Cottonwood Street
Woodland, CA 95695

September 26, 2003

South Sacramento Valley Field Crop Report

