

COOPERATIVE EXTENSION

University of California – Yolo, Solano & Sacramento Counties

South Sacramento Valley

Field Crops Report

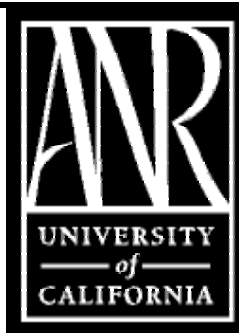
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AGRONOMIC CROPS FARM ADVISOR TRANSITION

With the final wheat and safflower harvests Tom Kearney's retirement is now complete. I am now trying to fill those big shoes. Larry Clement, UCCE County Director for both Solano and Yolo Counties, was able to make a quick shift in personnel and fill the Agronomic Crops Advisor position left vacant with Tom's retirement. He asked me, Kent Brittan, to shift over from Sacramento County Cooperative Extension office to fill Tom's spot. To make this work, most of the Advisors in the Woodland office had to add Sacramento County to their list of responsibilities. It turns out not to be a big increase in new growers and Ag professionals. Many Sacramento growers farm on both sides of the Sacramento River and are served by the Woodland office already. It does impact on the distances we will now have to travel, especially when we take the occasional call in Galt or on Sherman Island. However, Gene Miyao just got a new gold ¾ ton extended cab Ford pickup today, so *he* won't mind the drive. You would think he just had a baby; all he can do is walk around it with a big grin and peek under the hood. If you're looking for me, I'll be driving Tom's white Ford Courier pickup.

One of the main motivations behind rapidly shifting me over from Sacramento was to retain the crop responsibilities of Tom's old position within the UC system. Corn, small grains and oil seed crops are now my responsibilities, just as they were for Tom. I have added an economic component to the position description to help address what I consider the major problem facing agriculture today, economic sustainability. I'm not planning to go to Chicago to demand higher prices, but I am going to demand a higher economic return on the new ideas others and I introduce into our area. I also plan to reevaluate the current cropping systems to discover viable cost-saving methods we can use to tweak what we are currently doing. I consider some form of minimum tillage to be a major part of this process. I please fell free to call me and introduce yourself, look forward to getting to know you.

Here is **my contact information**:

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To contact me: Office phone number (530) 666-8733 Mobil number (530) 681-8807 no messages

A Comment: All of us here are shaken and sorrowed by the tragedy September 11th. As I reflect on what I have seen, heard and felt this past week, I recall that we are judged by our actions. In agriculture, our action is

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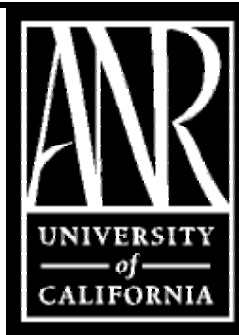
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to provide this great country with sustenance. Lets us come closer together as a community to continue, through our action, to support our community/nation.

2000 TO 2001 WHEAT TRIAL RESULTS

Tom Kearney, Daniel Scherer and myself planted five Wheat Variety trials this last fall. These trials were located within each of the three counties on soils that are representative of the wheat growing areas found in southern Sacramento Valley. We try to pick cooperators that are sensitive to the importance of these trials and who have good farming practices typical to the region. I feel that these cooperators more than live up to these needs and we are deeply in their debt for their support over the years. These trials cannot be conducted without this kind of support and I hope to see it continue. Thank you to Dan Best Jr., Frank Minney, Squires, Rominger, Roy Gill, Pete and Larry Hunn, and Steve Mello.

This wheat season our area received only 12.3 inches¹ of rain. That is 5 inches below the average rainfall for Yolo County² see Table 1. November (0.7") and December (0.4") had only a series of light rains giving us a slow and somewhat uneven start. For the later planted areas the January thru March rains were just right and they did a lot to even up the early areas.

Table 1. Rainfall in inches for UCD 2000 to 2001 season

<u>Month</u>			
July	0.0	February	4.8
August	0.0	March	2.3
September	0.1	April	0.1
October	2.1	May	0.0
November	0.7	June	0.4
December	0.4	Total rainfall	14.5inches
January	2.7		

¹14.5 – 2.2 (Sept & Oct no wheat planted) = 12.3 inches for the crop

²Yolo County's normal annual rainfall is 17.3 inches.

Frost during bloom had the greatest effect on the winter wheat yields this season. For the Sacramento Valley north of Courtland the frosts on the mornings of April 3rd and 8th significantly reduced yields. Table 2a and 2b describe the yield results for all five trial locations.

Table 2a. Yields for 3 Wheat Trial Locations in Southern Sacramento Valley (lbs/acre)

Best	Yield	Analysis		Gill	Yield	Analysis		Squires	Yield	Analysis
Variety	(Lbs/Acre)	@5%		Variety	(Lbs/Acre)	@5%		Variety	(Lbs/Acre)	@5%
Kama	6833	A		Bonus	7277	A		Summit	5870	A
UC 1113	6824	A		Brim	6782	AB		UC 1037	5848	A
Bonus	6797	A		Summit	6732	AB		Kern	5772	A
Brim	6761	A		TriTicale 105	6653	ABC		Brim	5739	A
Summit	6661	AB		Dariel	6633	ABC		Bonus	5674	AB
TriTicale 105	6625	AB		Yolo	6584	ABC		Stander	5532	ABC
Yolo	6570	AB		UC 1113	6485	BC		TriTicale 105	5489	ABCD
Dariel	6298	BC		Anza	6445	BC		UC 1113	5227	BCDE
UC 1037	6271	BC		Winanza	6415	BC		Dariel	5205	BCDE
Anza	6035	C		UC 1037	6277	BCD		Winanza	5107	CDEF
Stander	6008	C		Express	6168	BCD		Kama	5009	DEF
Winanza	5899	C		Kama	6128	BCD		Express	4988	EF
Kern	5853	C		Kern	5900	CD		Anza	4955	EF
Express	5835	C		Stander	5653	D		Yolo	4683	F
Average	6376			Average	6438			Average	5364	
C.V.%	4.5			C.V.%	7.3			C.V.%	5.8	
L.S.D @5%	414.2			L.S.D @5%	668.1			L.S.D @5%	443.9	

*Nonirrigated

Table 2b. Yields for 2 Wheat Trial Locations in Southern Sacramento Valley (lbs/acre) – Delta area

Hunn	Yield	Analysis		Mello	Yield	Analysis
Variety	(Lbs/Acre)	@5%		Variety	(Lbs/Acre)	@5%
Bonus	4785	A		Summit	6336	A
Stander	4620	AB		Anza	6138	AB
Summit	4389	ABC		Bonus	6102	AB
Kern	4356	ABC		Dariel	6084	AB
UC 1113	4290	ABCD		Kama	6066	AB
UC 1037	4125	ABCD		Kern	6030	AB
Kama	3993	BCD		Yolo	5994	ABC
TriTicale 105	3927	BCD		Brim	5778	ABCD
Yolo	3861	BCD		Stander	5724	ABCDE
Brim	3828	BCD		TriTicale 105	5652	BCDEF
Dariel	3828	BCD		Winanza	5580	BCDEF
Express	3729	CD		UC 1037	5400	CDEF
Anza	3630	CD		UC 1113	5202	DEF
Serra	3630	CD		Express	5130	EF
Winanza	3498	D		Serra	5076	F
Average	4033			Average	5753	
C.V.%	11.9			C.V.%	6.6	
L.S.D @5%	687.0			L.S.D @5%	542.5	

Disease pressures were light this year with a slight amount of strip rust on Express at the Gill trial location. The only variety to lodge this year, and that was only slightly and at one location, was the TriTicale 105 at Dan Best's.

UC 1113 and UC 1037 are advanced lines from Dr. Jorge Dubcovsky's, UCD Plant Geneticist, breeding program and neither will be released as varieties. UC 1037, however, is being used as the background genotype into which genes for disease resistance (leaf rust, stripe rust) and end-use quality (specific glutenin alleles) are being incorporated. Once that is accomplished, a new variety (an improved UC 1037) may be released. TriTicale 105 is from Resource Seeds, Inc.

One of the points to note for all you delta area growers is how well Summit (new RSI variety), Bonus and Stander did compared to Anza in the two delta region trials. Over the past couple of years some delta growers have been trying small acreages of higher quality wheat like Express and Bonus with varying degrees of success. Whether Summit will prove to have the potential for higher protein remains to be seen. I have not yet gotten the protein test results back for this year's trials. Having some new higher quality varieties will be welcome news to the delta grain producers and buyers who are tired of trying to find a market for Anza.

You can get all the details of each location and the over-location analysis in this year's 2001 South Sacramento Valley Wheat & Barley Production publication handed out at the annual wheat meeting this October 18th.

2001 UC REGIONAL COMMON WHEAT TRIAL

Every year Lee Jackson, Agronomist UCD, and small grains specialist plants one of his statewide regional trials here in Yolo County. These trials contain a larger collection of potentially new wheat varieties than the trials Tom and I plant. This year the trial was located in a dryland wheat area west of Zamora at the corner of Co. Rd.10 and Co. Rd. 85 on the edge Dunnigan Hills. I want to thank Diego Olagary for cooperating with us

an allowing Lee to use some of his field for this trial. The trial was planted November 28, 2000 and Table 3 contains the results. Low yields and shorter plant height show the effect of the lower than average rainfall.

Table 3. UC Regional Common Wheat Trial – Lee Jackson

Name	Yield (lbs/ac)		Bushel Wt. (lbs/bu)	Plant Height (in)
BRIM	1920	(1)	61.1	33
BROOKS	1840	(2)	61.5	28
CUYAMA	1810	(3)	60.5	33
SUMMIT	1810	(4)	60.6	28
UC 1296	1770	(5)	60.7	35
WWW BR 9118	1740	(6)	58.9	32
EXPRESS	1730	(7)	61.2	33
CAVALIER	1680	(8)	58.4	28
STANDER	1650	(9)	58.2	31
KERN	1640	(10)	60.5	28
GM 40027	1630	(11)	58.8	35
WWW COI957-3	1590	(12)	60.9	33
SUNSTAR KING	1590	(13)	60.8	36
KLASIC	1520	(14)	60.4	27
YOLO	1500	(15)	61.2	33
APB W98-231	1430	(16)	59.2	26
BONUS	1390	(17)	57.4	27
SERRA	1370	(18)	61.0	35
GM 40002	1300	(19)	61.9	35
DA 995-127	1290	(20)	62.1	34
YECORA ROJO	1280	(21)	60.4	28
ANZA	1260	(22)	62.4	33
UC 1268	1200	(23)	63.1	33
RSI 5	1170	(24)	59.4	33
WWW BR 5144	1050	(25)	62.3	32
ELDON	990	(26)	61.7	32
GM 40001	940	(27)	59.6	32
GM 40003	790	(28)	61.8	35
Mean	1460		60.6	31
C.V.	28.4		1.1	4.7
LSD @5%	580		1.4	3

MEETING ANOUNCEMENT: South Sacramento Valley Small Grains Meeting

DATE: October 18, 2001

TIME: 9:30 AM to noon

LOCATION: Norton Hall, 70 Cottonwood Street, Woodland, CA

Program Participants: Lee Jackson, UCD Agronomist, Small Grains Specialist

Bonnie Fernandez, California Wheat Commission

Jorge Dubcovsky, UCD Small Grains Geneticist

Kent Brittan, UCCE Farm Advisor

PCA Continuing Education Credit Applied For

IMPORTANT NEWS BITS

MEETINGS, TRAININGS, AND WORKSHOPS

WORKSHOP FOR TRAINERS OF PESTICIDE HANDLERS AND AGRICULTURAL FIELDWORKERS

In English – November 30, 2001 in Winters, CA

Hurry, it is filling up fast!

Cost - \$135

Register: By Mail – IPM Education and Publications, Univ. of California,
One Shields Avenue, Davis, CA 95616-8620

OR By Phone – (530) 752-5273 OR By FAX – (530) 752-9336

For more information please use the following web address:

<http://ucipm.ucdavis.edu/IPMPROJECT/workshops.html>

WEED SCIENCE SCHOOL

UCD Weed Research and Information Center (WRIC)

September 26-28, 2001 at the Heidrick Ag History Center, Woodland, CA

22 hours of DPR continuing education approved

Cost – \$500

For information and registration use the web: <http://wric.ucdavis.edu/education/weedschool01.htm>

OR Call (530) 752-7091

2001 CALIFORNIA ALFALFA AND FORAGE SYMPOSIUM

Important note: 2nd day to cover **corn silage, small grain forages** and **alternative forages**.

December 11-13 2001 in Modesto, CA

Registration \$85 before November 17, 2000, and \$125 after this date.

Rooms at Modesto Doubletree - (800) 222-8733

Registration information and materials at: <http://alfalfa.ucdavis.edu> (the UC California Alfalfa Workgroup) or contact Nikki Picanco, UCD Dept. Agronomy and Range Science (530) 752-0700.

Submitted by,

Kent Brittan

Farm Advisor, Yolo, Solano and Sacramento Counties

9/21/01

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