

## COOPERATIVE EXTENSION

University of California – Yolo, Solano & Sacramento Counties

# South Sacramento Valley

## Field Crops Report

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### 2007 to 2008 Small Grains Research Results

This past season I looked at 19 small grain cultivars in 4 trials located throughout the southern Sacramento Valley. Over all the trials were good; however the lack of rain hurt overall production and reduced the disease pressures. UD Davis received a total 12.72 inches this last grain season (November to June) with the last significant rain (>0.05in) falling February 24<sup>th</sup>. We had frost in late November (26<sup>th</sup> & 30<sup>th</sup>) and 12 times in December which promoted good tillering. Interestingly, we did not have any temperatures below 33°F at UCD during February or March and only one day in April. The April 20<sup>th</sup> frost did lightly affect grain production in the northwestern part of Yolo County, but was not evident at any of my trial locations. Harvest of the Best trial was 2 weeks prior to optimum do to the tractor show reducing quality and yield. In the over locations analysis presented here yield is reduced by that trial. Low protein analysis in the Mello samples also lowers the over locations protein summary.

To see the individual location analysis, come to my Small Grains Meeting 8 AM, September 23 at Norton Hall, Woodland, or view all this and past years small grains research on my web page:

[http://ceyolo.ucdavis.edu/Custom\\_Program724/](http://ceyolo.ucdavis.edu/Custom_Program724/) and click on the Small Grain Trial Studies link on the left.

**Stripe Rust (SR)** still continues to cause problems now even during dry years. Unfortunately, we found heavy SR sporulation in Cal Rojo in 2 fields just north of the Yolo county line this April and later just lightly on down the Valley into the Delta. I also found light formation of uredia pustules in PR1404 during May at my plot and in surrounding commercial fields only in the Delta. This is the first time I have seen this in PR1404 so I still recommend this variety, but with a caution. Please refer to the disease rating results for the individual varieties. This year was not a good year to evaluate small grain foliar diseases, not enough rain or fog. I know all of you are crying over that. Jerry Schmierer, UCCE Colusa County, and I tried to look at early Septoria control but did not get enough disease and had to scrap the trial, we'll try again.

Grain loss from wind **Shatter** was a significant problem during the harvest this season. Cal Rojo has a problem with shatter in dry years and some growers lost 5 to 20% in some fields. As long as we have this variety, try to get in and harvest as soon as you can in windy areas. I do not recommend this variety for the Montezuma Hills, along I-505 in western Solano -Yolo and similar areas.

## 2008 Southern Sacramento Valley Wheat Variety Trial Summary - Over 4 Locations

Locations: Best, Guos, Humn, Mello

Disease Rating (1-8) Test <sup>4</sup>Duncan's

Variety	Days to Heading (Plants/ac)	Stand	Plant Height (in)	Lodging (%)	Shatter (%)	Frost (%)	Disease Rating (1-8)			Moisture (%)	Protein (%)	Yield (lbs/ac)	Multiple Range
							Stripe	Rust	Septoria				
Trical 01T40207	141	46	40	0	0	0	1	1	1	10.3	9.25	58.0	A
Trical Brand 118	140	48	40	6	0	0	1	1	1	9.6	9.95	59.2	B
Trical Brand 98	135	47	37	10	0	0	2	1	1	9.6	10.36	57.0	C
Trical Cannelot	143	49	42	8	0	0	1	1	1	10.3	10.98	55.8	CD
Blanca Fuerte -HW	148	45	36	0	0	0	1	1	1	10.2	11.04	64.4	D
Redwing - HR	148	50	35	0	0	0	1	1	1	9.5	11.01	62.0	E
RSI 00WE80722 - HR	146	50	39	1	1	0	1	1	1	10.1	11.26	63.8	F
PR1404 - MR Forage	156	47	40	11	1	0	1.2	1	1	10.9	10.60	59.8	F
Clear White HW	143	47	38	0	0	0	3	1	1	9.8	11.19	62.7	FG
Cal Rojo -HR	143	45	36	0	4	0	1	1	1	9.9	11.21	61.7	GH
Lassak-HR	148	47	37	1	0	0	1	1	1	9.8	10.97	61.8	H
Parwin UC1419 HW	152	51	35	0	0	0	1	1	1	9.4	11.79	61.7	H
Blanca Royal - HW	142	48	36	0	0	0	1	1	1	9.7	11.41	63.0	H
Dash 12	148	48	41	0	1	0	2	1	1	9.8	11.17	62.4	I
Summit -HR	146	49	36	0	0	0	7	1	1	10.0	11.41	60.7	J
Espresso	146	49	40	0	1	0	1	1	1	9.7	12.32	62.9	J
Blanca Grande -HW	141	46	39	16	0	0	6	1	1	9.9	11.41	63.1	J
Lariat -HR	147	49	37	0	7	0	1	1	1	10.2	10.91	61.7	J
Solano	153	46	36	0	1	0	6	1	1	9.9	11.77	62.8	K
Average	146	48	38	3	1	0	2	1	1	9.9	11.05	61.3	6908
C.V.%	4	NA	3	NA	187	NA	12	NA	NA	NA	2.98	1.5	4
L.S.D @5%	5	1	1.509	0.19							0.27	0.8	207
Location effect	**	**	**	**	**	**	**	**	**	**	**	**	**
Variety effect	**	**	**	**	**	**	**	**	**	**	**	**	**
Interaction Loc x Variety	**	**	**	**	**	**	**	**	**	**	**	**	**

\*\* = significant 99% of the time      \* = significant 95% of the time      NA = Not Analyzed do to lack of difference  
 Grain color:      HR= Hard Red      Trical= triticales      HW= Hard White      MR= Medium hard Red

<sup>1</sup>Disease Rating (1-8): 1=0-3%, 2=4-14%, 3=15-29%, 4=30-49%, 5=50-69%, 6=70-84%, 7=85-95%, 8=96-100%  
<sup>2</sup>Duncan's Multiple Range Test - Means Separation at 5%

## What I Liked

- Blanca Fuerte, RSI's hard white, continues to impress me. Good yields, 3.8 tons/A overall, with 11% protein and no other problems to date.
- Clear White, UCD's specialty hard white, is being more consistent this year at 3.5 tons/A, 11.2% protein.
- Cal Rojo, RSI's hard red, even with its shatter and SR potential is still the best in that category.
- Lassik and Patwin are still OK with good resistance to SR.
- Espresso is king of the quality area with consistently high protein and bread making quality, good SR resistance, but low yields. It is only for the area north of Woodland up into the Sutter Basin high production areas. With high input costs it is getting hard to recommend this variety.
- PR1404, Forage Genetics' awnless medium hard forage wheat, very good yields in the Delta temperature influenced areas. This wheat is not to be sold into the flour market the millers have serious problems with this wheat.
- Triticale cultivars consistently out produce all the wheats in grain production. Grain price is the only drawback. I recommend dryland growers trying some to see the difference in the plants ability to better utilize soil moisture and nutrients from greater depths.

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## South Sacramento Valley Small Grains Meeting

**Date: Tuesday September 23, 2008**

**Time: 8:00 AM to Noon**

**Place: Norton Hall, Woodland, CA**

**3.5 Hours DPR Continuing Education hours credited including 0.5hr Laws & Regs**

- |               |                                                                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:45 – 8:10   | Registration                                                                                                                                                                 |
| 8:10 – 8:45   | <b>Kent Brittan</b> , UCCE Farm Advisor Yolo, Solano and Sacramento, Results of this Year's Small Grains Trials                                                              |
| 8:45 – 9:20   | <b>Lee Jackson</b> , Small Grains Specialist UC Davis, Current status of wheat stripe rust: Disease epidemiology, pathogen variability, and wheat cultivar disease reactions |
| 9:20 - 9:45   | <b>George Dubcovsky</b> , Wheat Breeder UC Davis, Wheat CAP Program, Variety Development and New Disease Resistance Genes                                                    |
| 9:45 – 10:00  | <b>Doug Munier</b> , UCCE Farm Advisor, Adding Nitrogen to Fungicide Sprays                                                                                                  |
| 10:00 – 10:15 | Break                                                                                                                                                                        |
| 10:15 - 10:30 | <b>Kent Brittan</b> , UCCE Farm Advisor Yolo, Solano and Sacramento, Safflower Variety and Disease Trial Results                                                             |
| 10:30 – 11:05 | <b>Dan Putman</b> , Forage Specialist UC Davis, Dual Use Forage and Biofuel Feed Stock Development                                                                           |
| 11:05 – 11:20 | <b>Gene Aksland</b> , Agronomist Resource Seeds Inc., Triticale for Forage and Grain Production                                                                              |
| 11:20 – 11:45 | <b>Dennis Chambers</b> , Yolo County Deputy Agricultural Commissioner, Organic Certification and Pesticide Regulation Update                                                 |
| 11:45 – Noon  | <b>Kent Brittan and Lynn Gallaher</b> - Barley – Varieties and Disease Resistance                                                                                            |

*For more information regarding the Small Grains Meeting, please contact the UCCE office at 530-666-8143.*

To simplify information, when trade names have been used, no endorsement of products named is intended, nor is criticism implied of products which are not mentioned.

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

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*September 15, 2008*

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

