



UC
CE

University of California Cooperative Extension • Tulare County

Field Crop Notes



Volume II, Issue 5

July 05

Annual Southern San Joaquin Valley Dry Bean Field Day

UC SHAFTER FIELD STATION – 17053 N. Shafter Ave. Shafter, CA 93263

Wednesday August 10, 2005

9:00 – 1:00

Lunch provided by Cal Bean & Grain (Pixley)

Gather with UC advisors, processors and growers on the 10th to discuss these issues and the latest research projects on dry bean management in the SJV.

IMPORTANT NOTE: BLACKEYE COUNCIL MEETING AFTER LUNCH, W. Conference Rm

9:00 – 10:15 Irrigation & Field Plot Observation

- Introductions – UC personnel and dry bean projects around the state
- Irrigation scheduling with furrow irrigation, checking soil moisture
- Varietal and breeding line nurseries for yield, seed size, disease/insect resistance, CB 27 replacement, strip plots of promising advance lines

What's in
your
rootzone?

10:15 – 10:30 BREAK: REFRESHMENTS COURTESY OF PETE REIMER

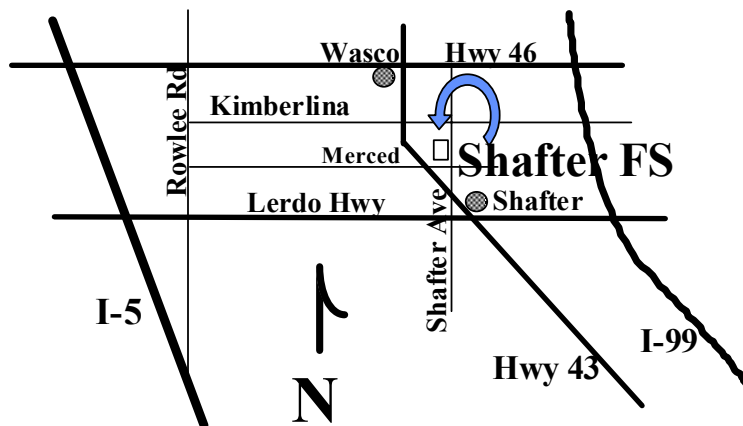
10:30 – 11:10 Seed, Warehouse and Market Concerns

- Changes in the seed/warehouse industries (Open discussion: Paul Paulin, UC and others available.)
- Methyl bromide, Market, Warehouse update (Paul Paulin, Cal Bean Pixley, Jim Melban, Bean Board)

11:10 – 12:00 Cultural Management: Weeds, Insects, Rotation

- Insect pest discussion (Open discussion: Vern Crawford, Wilbur-Ellis, UC and others as available)
- Benefits of blackeyes as rotation crop, nematode control (Speaker to be announced)
- Weed control, herbicide phytotoxicity in garbanzos (Kurt Hembree, Fresno County UCCE)
- Research update on controlling nutsedge, nightshade, and morningglory in blackeyes (Carol Frate, Tulare County, UCCE and Kurt Hembree, Fresno County UCCE)

12:00 – 1:00 LUNCH IN THE SHADE -- Tri-tip, chicken barbeque, blackeyes and all the fixin's!!



Blackeye Irrigation Management

Spring 2005 was the opposite of last year – cold and rainy through the first week of May. If you waited till the second week of May (when the soil was finally nice and warm) to plant, instead of the last 10 days in April. The difference in planting date and cooler May temps means the 2005 blackeyes will be 6 to 7 inches behind the “normal year” water use by 8/1 – about 16 inches compared to 23 inches.

A 1993 furrow irrigation/variety trial at the Shafter Field Station gave maximum yields of more than 60 sacks/acre for a long-season 150 day crop. But bean grades can suffer if lygus populations cause sting damage to susceptible second flush beans. Once the canopy closes over it becomes nearly impossible to control lygus. Thus, growers have been tending to cut crops around 110 days. In a late year like 2005 even this earlier cutoff will be going into September in order to mature the first flush of pods and a final season ET of about 26 to 28 inches.

The normal July temps have finally kicked in and full cover fields will use 2 to 2.3 inches of water/week. Most growers have saved one or two irrigations this year, but now is the time start up a more frequent irrigation schedule – especially for Wasco Sandy Loam soils that tend to seal over this time of year. Growers with field infiltration problems need to check reserve soil moisture in the 2 to 5 foot depth. A full profile should carry you about two weeks before cutting without significant stress. BUT if you’ve lost your moisture below 2 feet you can cutout too quickly and not size beans in the last podset.

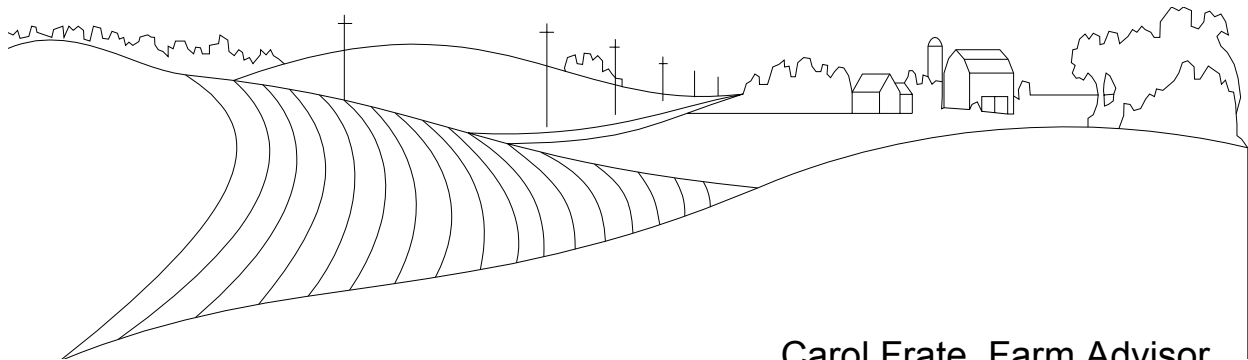
Week	Avg ET	2005 ET by plant date			
		4/20	4/30	5/10	5/20
4/25	0.12	0.10			
5/2	0.23	0.14			
5/9	0.49	0.19	0.11		
5/16	0.77	0.45	0.22	0.15	
5/23	1.05	0.80	0.48	0.32	0.16
5/30	1.63	1.48	0.83	0.83	0.37
6/6	2.00	1.65	1.10	1.10	0.82
6/13	2.14	1.67	1.50	1.50	1.00
6/20	2.17	1.99	1.90	1.90	1.56
6/27	2.17	2.06	2.06	2.06	1.97
7/4	2.17	2.21	2.21	2.21	2.21
7/11	2.17	2.07	2.07	2.07	2.07
7/18	2.09	2.09	2.09	2.09	2.09
7/25	2.09	2.09	2.09	2.09	2.09
8/1	2.01	2.01	2.01	2.01	2.01
8/8	1.98	1.98	1.98	1.98	1.98
8/15	1.83	1.83	1.91	1.91	1.91
8/15	1.75	1.75	1.83	1.83	1.83
8/22	1.60	1.60	1.67	1.75	1.75
	30.5	28.1			
8/29	1.44		26.1	1.58	1.66
9/5	1.23			27.4	1.51
9/12	0.90				27.0
9/19	0.47	112 day estimated ET			
9/26	0.32				
Total	34.83	(for 150 day crop)			

University of California
Cooperative Extension
Tulare County
4437B S Laspina St
Tulare, CA 93274

Nonprofit Org
US Postage Paid
Visalia, CA 93277
Permit No. 240

Field Crop Notes

July 05



Carol Frate, Farm Advisor

The University of California prohibits discrimination or harassment of any person on the basis of race, color, national origin, religion, sex, gender identity, pregnancy (including childbirth, and medical conditions related to pregnancy or childbirth), physical or mental disability, medical condition (cancer-related or genetic characteristics), ancestry, marital status, age, sexual orientation, citizenship, or status as a covered veteran (covered veterans are special disabled veterans, recently separated veterans, Vietnam era veterans, or any other veterans who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized) in any of its programs or activities. University policy is intended to be consistent with the provisions of applicable State and Federal laws. Inquiries regarding the University's nondiscrimination policies may be directed to the Affirmative Action/Staff Personnel Services Director, University of California, Agriculture and Natural Resources, 1111 Franklin Dr, 6th Floor, Oakland, CA 94607, (510) 987-0096.