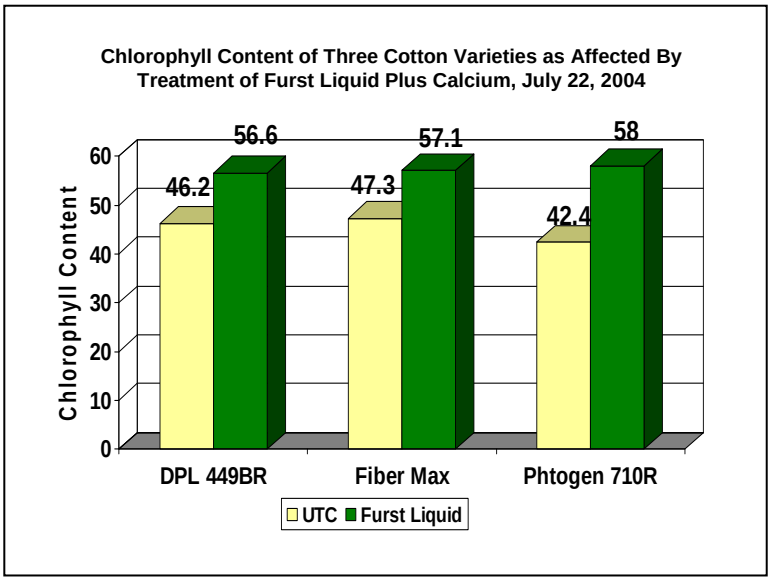
Palo Verde/Coolidge Cotton Updates
2002, 2004 & 2007

COMPARISON OF COTTON VARIETAL RESPONSES TO FURST LIQUID, 2004

M. D. Rethwisch, UCCES – Riverside County, Blythe, CA

Furst Liquid was applied at the rate of 1.0 pt/acre in combination of one qt/acre of a calcium based foliar fertilizer containing 11% calcium. Three cotton varieties common in the Palo Verde Valley were treated at early boll development. Data documented a very highly significant ($p<0.0001$) increase in leaf chlorophyll of 25-33% at 2.5 weeks after application. The applications of Furst resulted in three additional nodes of growth with yield increases in both DPL 449BR and Phytogen 710R.



Key Points:

- **Furst Liquid increased chlorophyll content for 2.5 weeks after 1 application**
- **Furst Liquid was applied at 1.0 pt/ac with a calcium foliar fertilizer at early boll development**
- **Furst Liquid produced 3 additional nodes of growth across varieties**
- **Furst Liquid increased yields in 2 of the 3 varieties.**

Effects of Furst Liquid on Upland Cotton in the Palo Verde Valley, CA – 2002

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A field experiment was conducted to obtain data from upland cotton grown under low desert conditions to document the effects of Furst Liquid on yield and quality. Furst Liquid was applied with a calcium based foliar fertilizer to DPL 655BR cotton that was in the bloom stage. Yields and quality data were obtained and the economics calculated. Furst Liquid (1.0 pt/ac) with calcium (1 qt/ac) produced the highest yields and the highest crop value of nearly $200/acre more than the untreated check.

Treatment	Lint Yield lbs/Ac	Micronaire	Strength g/tex	Length 1/100"	$Value/ac vs Standard
Furst Liquid	1,660	5.2	33.7	114.0	$195.90
Standard	1,564	5.2	32.0	113.0	-----

Furst Liquid applied with a calcium foliar fertilizer containing 11% calcium.

Furst Liquid with Mepiquat Chloride on Upland Cotton, Coolidge, AZ – 2007

Sundance Farms, Coolidge, AZ

A large block experiment was conducted in a commercial cotton field of DPL 499BR near Coolidge, AZ. Treatments, rate/acre and timings for Furst Liquid are listed below.

Treatment	Rate	Timings
1. Furst Liquid (drip)	¼ pt/acre	Started July 1st & then every 10 days (5 apps)
2. Furst Liquid + MepC (foliar)	1.0 pt/acre	July 8th and August 1st
3. Grower Standard	-----	-----

Base assumption is that lint yield in all treatments was 3.1 bales/A. Fiber samples were evaluated by the USDA classing office in Phoenix, AZ. Fiber quality values were run through the Cotton Incorporated, Cotton Loan Valuation Spreadsheet (www.cottonin.com) to determine premium and discount loan values (cents/lb). Furst increased fiber length, uniformity and color grade which resulted in a higher net loan value than the untreated.

RESUITS:			Strength	Length	Color	Net Loan[1]
Treatment	Mic	Length	gm/tex	Uniformity	Grade	Cents/lb
Furst Liquid (drip)	5.5	1.11	32.9	82.6	31-2	54.80
Furst+MepC	5.4	1.16	31.9	81.3	31-2	54.50
Grower Standard	5.3	1.12	32.6	81.3	41-1	52.30

[1]Net Return: price based on premiums/discounts according to CCC loan evaluation spreadsheet.