

Performance Of New Cotton Varieties In The North Delta

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natural refuge with Roundup Ready Flex and two gene Bt traits has producers looking towards these new varieties for time savings and reductions in input costs. In this presentation we investigate the performance of recently released cotton varieties in the North Delta states of Arkansas, Missouri, and Tennessee.

While yields for these new cotton varieties have lacked stability, fiber quality is typically equal to or better than the first generation biotech cotton varieties. To better under-

The release of cotton varieties with the latest biotechnology traits has researchers and producers scrambling to find varieties that

Table 1. Top ten varieties in Arkansas and Tennessee DVT's for 2005, 2006, and 2007.

Rank	Arkansas			Tennessee			
	2005	2006	2007	2005	2006	2007 A'	2007 B'
1	PHY 310R	OP 11782RF	PHY 370VR	OP 432RR	ST 5599R	OP 4449G/RR	OP 4449G/RR
2	OP 393	ST 4064RF	OP 4549G/RR	ST 5599R	ST 5242R	PHY 375VRF	ST 5599R
3	OP 432RR	ST 5599R	OP 5159G/RR	ST 4575R	PHY 370VR	OP 4449G/RR	PHY 370VR
4	OP 4459G/RR	OP 147RF	PHY 310R	ST 5242R	OP 432RR	ST 44982RF	ST 532782RF
5	OP 434RR	PHY 425RF	FM 1000L	ST 455482RF	ST 442782RF	ST 5599R	OP 432 RR
6	ST 4892R	OP 14382RF	ST 5242R	ST 4088R	FM 900R	ST 5242R	CG 322082RF
7	OX 25105N	OP 4449G/RR	OP 4459G/RR	OP 4449G/RR	PHY 425RF	ST 442782RF	AMX 155082RF
8	OP 4559G/RR	OG 252082RF	PHY 485VRF	ST 4064RF	ST 532782RF	PHY 310R	OP 10182RF
9	ST 4575R	OG 352082RF	ST 5599R	99V 403082RF	OP 4449G/RR	PHY 370VR	ST 459082RF
10	ST 4088R	OP 10482RF	OP 11782RF	STX 41082RF	OP 147RF	ST 455482RF	OP 5159G/RR

Table 2. Top ten varieties in Missouri DVT's for 2005, 2006, and 2007.

Rank	Missouri					
	2005	2006	2007 Senath	2007 Sikeston	2007 Delta RR	2007 Delta Clay
1	OX 25105N	OP 4459G/RR	ST 44982RF	OP 4559G/RR	PHY 315RF	ST 44982RF
2	OP 4459G/RR	PHY 370VR	OP 174RF	FM 9058F	ST 5242R	OP 11782RF
3	ST 455482RF	OP 11782RF	ST 4064RF	ST 545882RF	PHY 375VRF	ST 5242R
4	ST 4575R	ST 5242R	PHY 315RF	ST 5242R	ST 5283RF	ST 442782RF
5	X9CG1404	OP 434RR	AMX 155082RF	ST 4064RF	ST 4064RF	OP 174RF
6	ST 4064RF	ST 5599R	ST 545882RF	FM 9060F	PHY 370VR	ST 545882RF
7	ST 5599R	PHY 310R	ST 5283RF	FM 174082F	PHY 310R	FM 174082RF
8	CX021	OP 4449G/RR	OG 238382RF	ST 44982RF	CG 322082RF	PHY 310R
9	PHY 310R	FM 9060L	ST 442782RF	FM 958LL	CG 303582RF	ST 407882RF
10	ST 4088R	OG 249082RF	ST 435782RF	OP 10482RF	OP 432RR	CG 303582RF

perform as well as first generation biotechnology trait varieties. Beyond obvious yield goal, intangible benefits of these new technologies are driving their adoption. The increased flexibility for weed management and the ability to use a

stand performance of these new varieties the presentation will focus on yield stability models and fiber quality evaluations for several of the more popular cotton varieties grown in the North Delta region. Δ