

# ST 4575BR & ST 4686R, EARLY-MID MATURING VARIETIES WITH HIGH YIELD POTENTIAL AND FIBER QUALITY

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## Abstract

ST 4575BR is a new Bollgard® plus Roundup Ready® variety while ST 4686R is a new Roundup Ready® variety available from Stoneville for 2005. Both varieties are considered early-mid maturity.

ST 4575BR (Table 1) was evaluated throughout the Midsouth and Southeast in replicated University Official Variety Trials (OVT's). Yield data analysis from 35 Midsouth OVT's and 20 Southeast OVT's indicate that ST 4575BR provided lint yields that were not statistically different from those of DPL 444BG/RR. Fiber length (staple), strength and uniformity were not significantly different for ST 4575BR and DPL 444BG/RR. DPL 444BG/RR had significantly lower mic and significantly higher lint percent than ST 4575BR across 17 OVT's where fiber data were reported.

ST 4686R (Table 2.) was evaluated throughout the Midsouth and Southeast in replicated University Official Variety Trials. Yield data analysis from 34 Midsouth OVT's and 20 Southeast OVT's indicate that ST 4686R provided lint yields that were not statistically different from those of DPL 432RR. Fiber length (staple) was significantly longer than DPL 432RR while lint percent, strength, mic and uniformity were not statistically different. DPL 434RR had significantly greater lint percent, longer fiber (staple) and uniformity than ST 4686R. ST 4686R had significantly greater strength than DPL 434RR while there was not a significant difference in mic.

Table 1. Performance of ST 4575BR compared to DPL 444BG/RR in Official University Variety Trials in 2004.

Variety	MS <sup>1</sup> Lbs/acre	SE <sup>1</sup> Lbs/acre	Lint%	Mic	Staple	Strength G/tex	Unif.
ST 4575BR	1421	1280	39.62	4.5	36.8	30.4	84.7
DPL 444BG/RR	1392	1258	40.81	4.1	37.1	30.3	85.0
LSD (0.05)	NS	NS	0.7	0.2	NS	NS	NS
Observations	35	20	17	17	17	17	17

<sup>1</sup>MS = Mid-South US, SE = Southeastern US.

Table 2. Performance of ST 4686R compared to DPL 432RR and DPL 434RR in Official University Variety Trials in 2004.

Variety	MS <sup>1</sup> Lbs/acre	SE <sup>1</sup> Lbs/acre	Lint%	Mic	Staple	Strength G/tex	Unif.
ST 4686R	1379	1264	39.72	4.5	37.4	29.6	84.32
DPL 432RR	1380	1282	39.87	4.6	36.5	30.5	84.60
DPL 434RR	--	--	41.08	4.3	38.4	28.1	85.06
LSD (0.05)	NS	NS	1.04	0.2	0.5	0.9	0.6
Observations	34	20	18	18	18	18	18

<sup>1</sup>MS = Mid-South US, SE = Southeastern US.