

**ST 5242BR: A NEW MID-FULL SEASON BOLLGARD® +
ROUNDUP READY® VARIETY FROM STONEVILLE**

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Abstract

ST 5242BR is a new stacked-transgene product from Stoneville for 2004. ST 5242BR was derived from a backcross population that used a Stoneville experimental line as the recurrent parent. ST 5242BR contains Monsanto's Bollgard® and Roundup Ready® technologies, is a mid-full season maturing variety, and demonstrates belt-wide adaptation with high yield potential.

Stoneville evaluated ST 5242BR in replicated yield trials from 2001 through 2003. ST 5242BR was also included in university variety trials in 2003 under the experimental designation STX5242BR. Eighteen beltwide trials conducted by Stoneville in 2003 demonstrate no statistical differences in yield between ST 5242BR and DP 555BG/RR. However, ST 5242BR did have a statistically higher yield than FM 989BR in the Southeast (across 7 locations), Mid-South (across 6 locations), Arizona (across 3 locations) and in the combined regions analysis across all eighteen locations (Table 1). Fiber length of ST 5242BR is statistically equal to DP 555BG/RR. Fiber strength of ST 5242BR was statistically lower than DP 555BG/RR and FM 989BR. No statistical differences were detected in micronaire values among the three varieties.

Table 1. Performance of ST 5242BR compared to DP 555BG/RR and FM 989BR.

Variety	SE¹	MS¹	THP¹	AZ¹	OV¹	Length²	Strength²	Micro²
	-----lbs./A-----					--UHM--	--g/tex--	
ST 5242BR	1380	1613	1550	1379	1474	1.10	25.2	4.2
DP 555BG/RR	1380	1729	1472	1361	1493	1.11	27.1	4.2
FM 989BR	1252	1514	1753	1137	1371	1.13	28.1	4.2
Diff.	**	**	**	**	**	**	**	NS

¹SE = Southeastern US, MS = Mid-South, THP = Texas High Plains, AZ = Arizona, OV = Overall combined locations analysis.

²Results from 2003 combined locations analysis.