

Dyna-Gro 2595 B2RF: A New Mid Maturity Variety with Bollgard II and Roundup Ready Flex Traits for Southwestern USA

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Abstract

DG 2595 B2RF is considered a mid-maturity upland variety that has shown excellent seedling vigor. It is semi-smooth leaf cotton that has an open architecture with an associated robust bushy plant growth. Plant growth regulators should be considered for in-season plant growth patterns. It is a medium-tall variety averaging about 40 inches in height. This variety produces small to medium sized bolls averaging about 4.5 grams. DG 2595 has shown very good storm resistance. It has also shown good tolerance to *Verticillium* wilt and *Fusarium* wilt diseases. Overall in all trials gin turnout has ranged from 38-42%, fiber uniformity has ranged from 82-85%, Micronaire has ranged from 4.4 to 4.7, fiber length has ranged from 1.13 to 1.17 inches, and fiber strength has ranged from 30 to 32 g/tex. Seed turnout percentages typically range from 48 to 50%.

Overall plant performance of this variety was determined to be primarily adaptable to the Southwestern cotton growing regions and especially on sand to silt loam soils under well managed production systems. The best lint yield responses occur in the Southwest regions of USA. Lint yield analysis has shown that the variety is most stable when grown in irrigated environments. This variety has performed well with drip tape and pivot irrigation systems. Dryland production is discouraged. Limited data has show favorable yield responses on specific clay soil series. No-till production practices also compliment this variety. Best performance is achieved if planted early and avoid late plantings or double cropped production systems. DG 2595 additionally responds very well to irrigation for enhanced yields in other cotton growing regions.