

**DYNA-GRO 2450 B2RF: A NEW EARLY-MID MATURITY VARIETY WITH BOLLGARD II AND
ROUNDUP READY FLEX TRAITS**

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Abstract

DG 2450 B2RF is considered an early mid-maturity upland variety that has shown excellent seedling vigor. It is 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 has small to medium sized bolls averaging about 4.5 grams. DG 2450 has shown very good storm resistance. It has also shown good tolerance to Verticillium wilt and Fusarium wilt. Overall in all trials gin turnout has ranged from 37-39%, fiber uniformity has ranged from 82-84%, Micronaire has ranged from 4.3 to 4.5, fiber length has ranged from 1.13 to 1.15 inches, and fiber strength has ranged from 28 to 30 g/tex.

Overall plant performance of this variety was determined to be very adaptable throughout most of the cotton growing regions and especially well on lighter soils under heat stress and droughty conditions. The best lint yield responses occur in the Southwest regions of USA. Lint yield analysis has shown that the variety is stable when grown in diverse environments throughout most of the cotton growing areas. Limited data has show favorable yield responses on clay soils. No-till production practices also compliment this variety. DG 2450 additionally responds very well to irrigation for enhanced yields; however the variety is intended for stressful conditions.