

DYNA-GRO 2610 B2RF: A NEW FULL SEASON MATURITY VARIETY

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Abstract

DG 2610 B2RF is considered a mid-full season 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 vigorous in-season plant growth patterns. Plant height is determined tall which averages more than 40 inches. This variety produces medium sized bolls averaging about 4.1 grams. DG 2610 has shown excellent storm resistance. It has also shown good tolerance to *Verticillium* wilt and *Fusarium* wilt diseases. Observations of plant growth responses in various trials have concluded typical indeterminate behavior to production practices and environmental conditions. Overall in all trials lint fraction has ranged from 39-43%, fiber uniformity index has ranged from 82-86%, Micronaire has ranged from 4.4 to 4.6, fiber length has ranged from 1.14 to 1.18 inches, and fiber strength has ranged from 28 to 32 g/tex. Estimated seed turnout percentages typically range from 50 to 52%.

Overall yield performance of this variety was determined to be primarily adaptable to the Southeastern cotton growing regions and especially on sand to silt loam soils under well managed production systems. However, limited data has shown favorable yield responses on specific clay soil series. The best lint yield responses occur in the Southeastern and Deep South 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 has provided very acceptable yield results. No-till production practices also compliment this variety. Best performance is achieved if planted early. Limited data indicates late plantings or double cropped production systems could achieve satisfactory yields. DG 2610 additionally responds very well to irrigation for enhanced yields in other cotton growing regions.

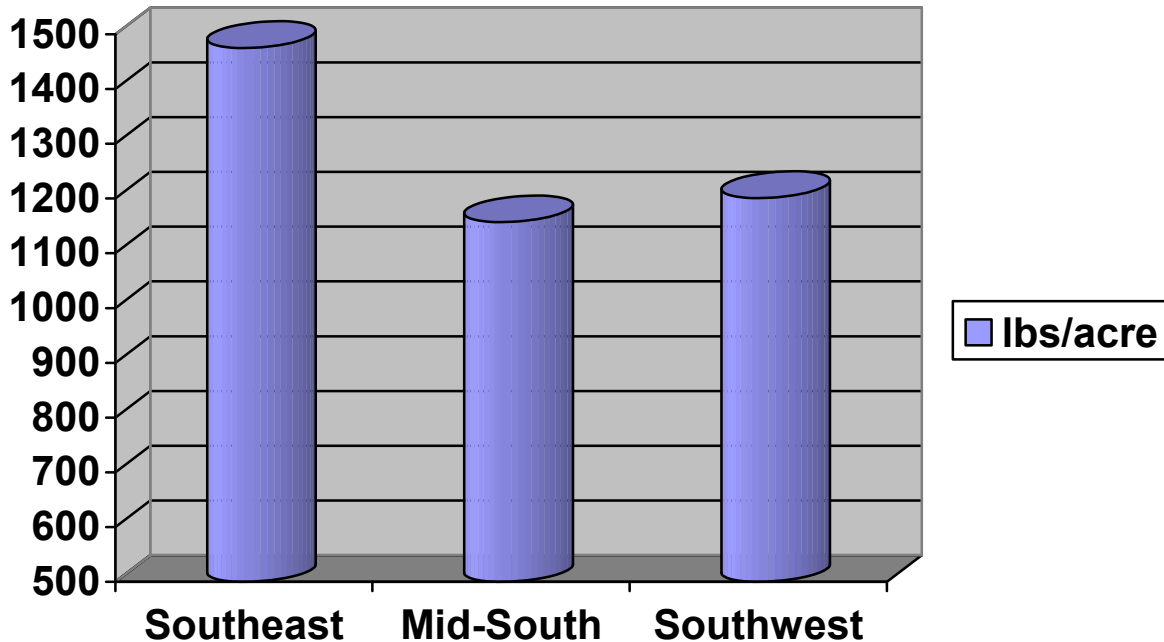


Figure 1. Dyna-Gro 2610 B2RF average cotton lint yields per acre by geographic regions of USA.

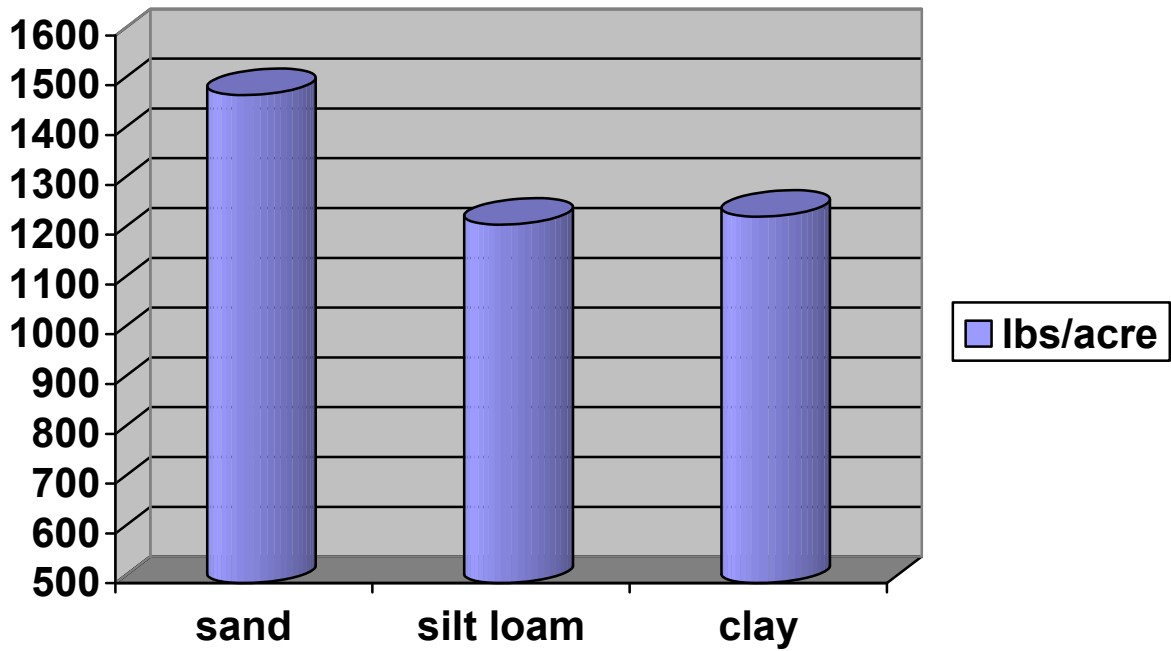


Figure 2. Dyna-Gro 2610 B2RF average cotton lint yields per acre by soil texture.

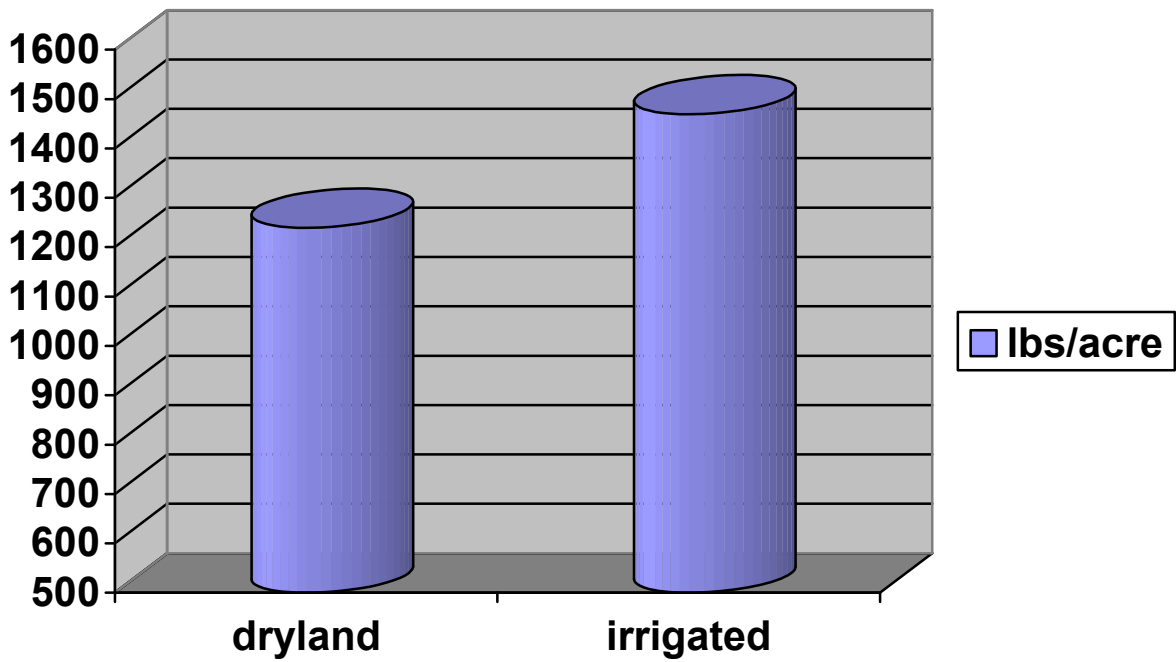


Figure 3. Dyna-Gro 2610 B2RF average cotton lint yields per acre based on water management.