

DYNA-GRO 2285 B2RF: A NEW EARLY MATURITY VARIETY

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Abstract

DG 2285 B2RF is considered an early maturity upland variety that has shown very good seedling vigor. It is a semi-smooth leaf cotton that has an open architecture with an associated bushy plant growth. Plant growth regulators should be considered for vigorous in-season plant growth patterns. Plant height is determined medium which averages about 36 inches. This variety produces medium sized bolls averaging about 4.5 grams. DG 2285 has shown very good 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 slight determinant behavior to production practices and environmental conditions. Often fruit set is early and rapid, thus typical late season stressors affect extended boll development. Overall in all trials lint fraction has ranged from 38-42%, fiber uniformity index has ranged from 82-85%, Micronaire has ranged from 4.2 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 adaptable to all of the cotton growing regions and especially on sand to silt loam soils under well managed production systems. However, limited yield data indicates very good adaptability for specific clay soil series. It is preferred to keep this variety within its maturity growing zones. 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 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 2285 additionally responds very well to irrigation for enhanced yields in most cotton growing regions.

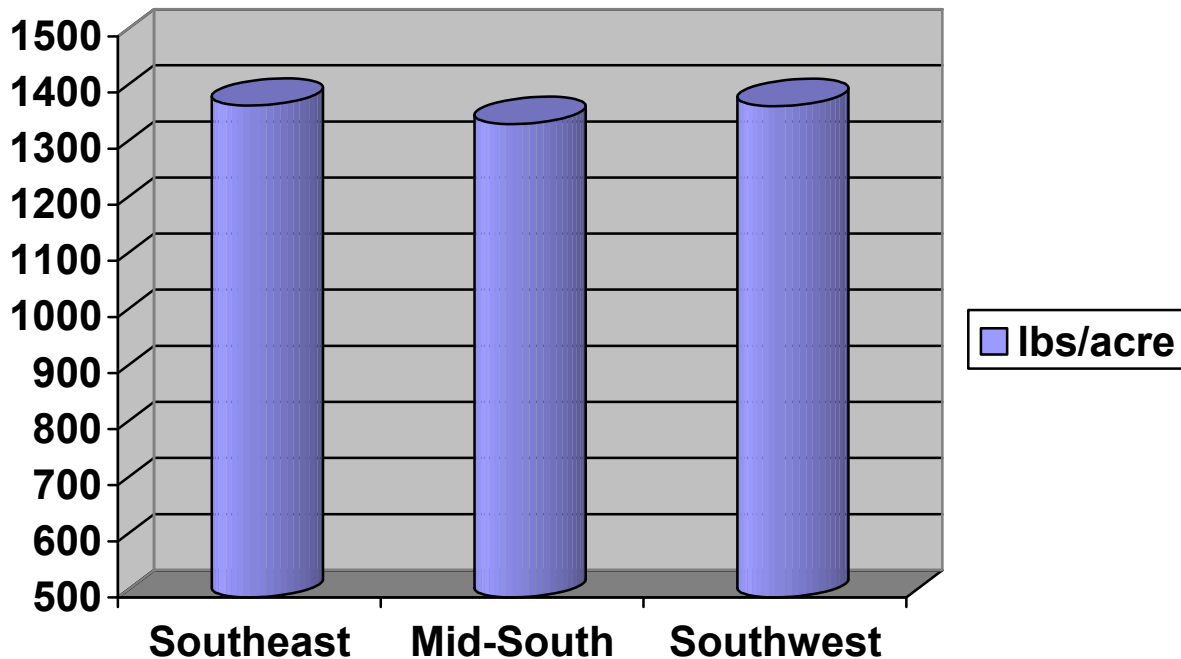


Figure 1. Dyna-Gro 2285 B2RF average cotton lint yields per acre by geographic regions of USA.

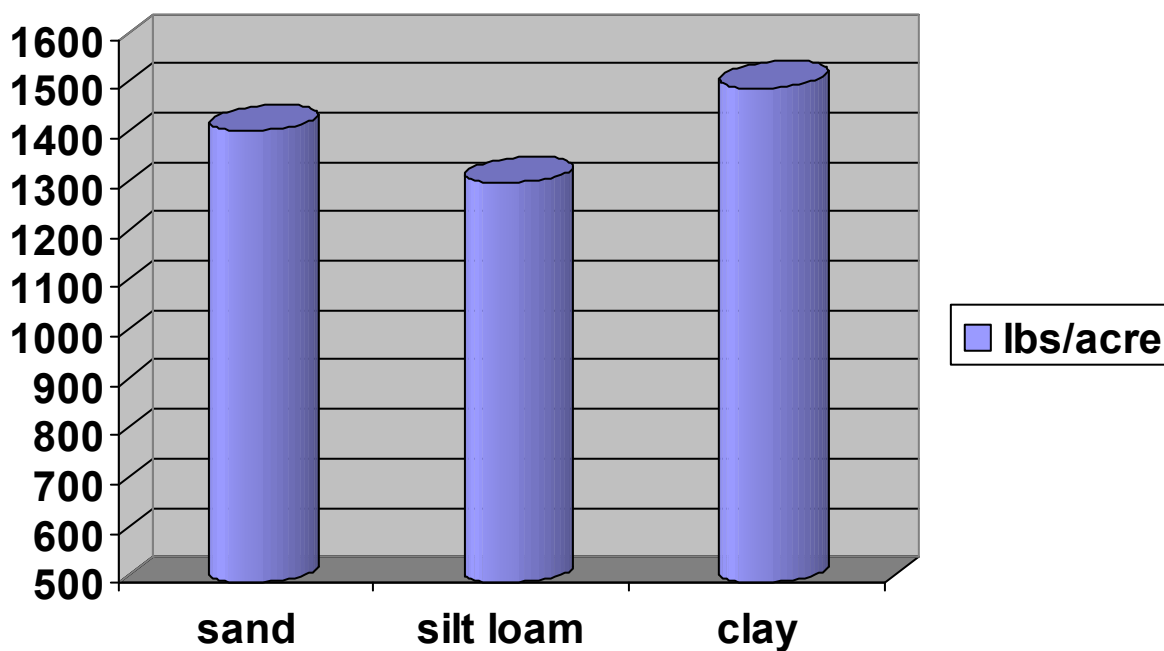


Figure 2. Dyna-Gro 2285 B2RF average cotton lint yields per acre by soil texture.

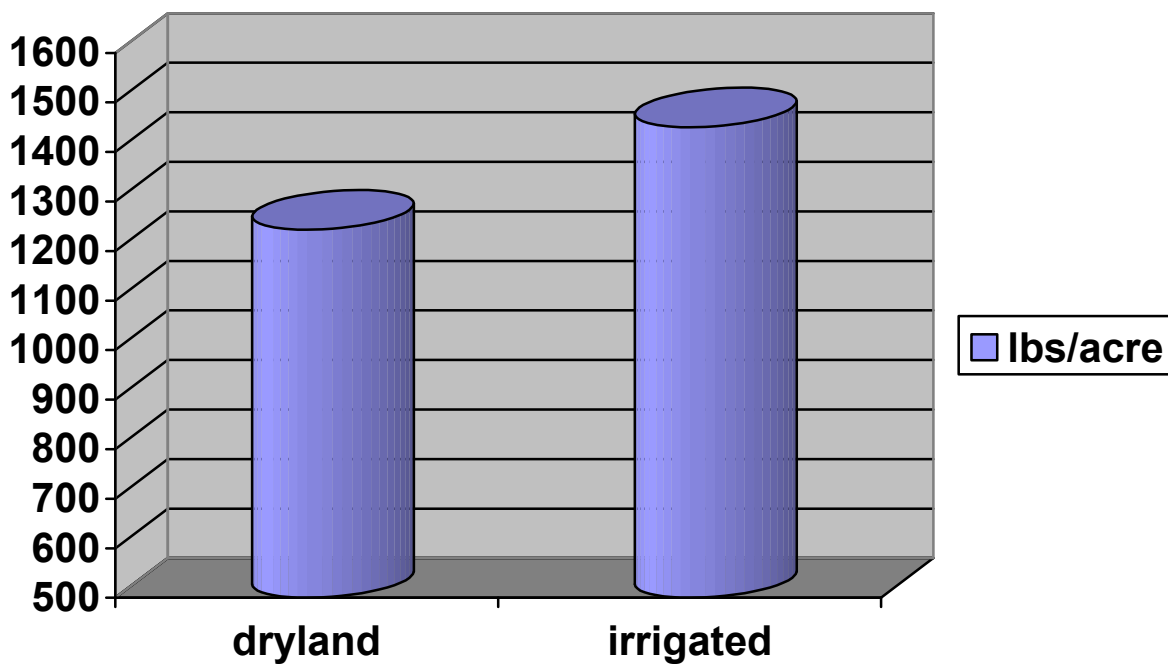


Figure 3. Dyna-Gro 2285 B2RF average cotton lint yields per acre based on water management.