

Flax Nitrogen by Seeding Rate Trial

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The primary objective of this trial was to examine flax response to different combinations of soil nitrogen (N) levels and flax seeding rates. This trial was initiated in 2000 at the Carrington Research Extension Center and expanded to three NDSU Research Extension Centers at Carrington, Langdon, and Minot in 2001. The trial was established on low-N soils and fertilizer N was applied to reach soil levels of 60, 90, and 120 lb N/acre for seed yield goals of 20, 30, and 40 bushels/acre, respectively. Seeding rates of 20, 32, and 44 lb/acre were used.

Preliminary results based on two-year averages at Carrington with 'Cathay' flax indicate similar yield (25.4 to 27.1 bu/acre) and test weight (53.7 to 54.1 lb/bu) among soil N levels or seeding rates. Plant lodging was very low among all soil N level and seeding rate combinations. Plant stands 3-4 weeks after seeding averaged 1.4, 2.0, and 2.7 million plants/acre with seeding rates of 20, 32, and 44 lb/acre, respectively.

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