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71/R/SC/1 Seed Spacing and N - Sweet Corn

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71/R/SC/1

SWEET CORN

SEED SPACING AND N

Object: To study the effects of seed spacing and levels of nitrogen on yield of sweet corn - Long Hoos V 1.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 2.44 x 5.18.

Treatments: All combinations of:

1. Seed spacing: Seed 7.6 cm (3 inches), 15.2 cm (6 inches) 30.5 cm (12 inches) apart in rows 61.0 cm (2 feet) apart.
2. Nitrogen: None, 63, 126, 188 kg N as 'Nitro-Chalk'.

Basal applications: 1255 kg (0:14:28). Weedkiller: Atrazine at 1.68 kg in 337 l. Insecticide: Phorate granules at 1.8 kg a.i. applied by hand-blower.

Cultivations, etc.: Basal PK applied: 27 Oct, 1970. Ploughed: 29 Oct. Rotary cultivated: 4 May, 1971. Seed precision drilled: 5 May. N applied: 18 May. Weedkiller and insecticide applied: 21 May. Harvested: 16-28 Sept. Variety: Early King. Previous crops: Potatoes 1969, barley 1970.

NOTE: Because phorate granules were irregularly applied a subsequent attack of frit fly (*Oscinella frit*) was only controlled on parts of plots. Yields were therefore not taken.