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72/W/CS/66 Dazomet and Nitrogen - Maize

Rothamsted Research

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72/W/CS/66

DAZOMET AND NITROGEN

Object: To study the cumulative effects of dazomet and nitrogen on yield and pathogens of maize - Woburn Butt Furlong.

Sponsors: A.J. Barnard, D. Hornby.

The second year, maize.

For previous year see 71/W/CS/66(t).

Design: 4 blocks of 2 plots split into 4.

Whole plot dimensions: 2.13 x 16.5.

Treatments, cumulative in 1971:

Whole plots: 1. Dazomet: None, 450 kg.

Sub-plots: 2. Nitrogen: 50, 100, 150 kg N at planting, 100 kg N at planting plus 50 kg N at tasselling.

Basal applications: 7.5 tonnes magnesian limestone, 870 kg (0:14:28).

Seed: Pioneer 131 sown at 30 kg.

Cultivations, etc.: Magnesian limestone applied: 4 Nov, 1971. Ploughed: 5 Nov. Dazomet applied, all plots rotary cultivated twice: 17 Nov. Ploughed: 14 Feb, 1972. PK applied: 18 Apr. Power harrowed, seed drilled: 26 Apr. N applied: 3 May.

- NOTES: (1) The crop was severely damaged by birds and mice and the whole area was rotary cultivated. No yields were taken.
(2) Soil samples were taken in autumn before dazomet was applied, and in spring before sowing for counts of ectoparasitic nematodes.