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73/W/RN/14 - Long Term Phosphate - Ley

Rothamsted Research

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73/W/RN/14

LONG TERM PHOSPHATE

Object: To study direct and residual effects of superphosphate on a clover/grass ley - Woburn Stackyard III.

Sponsor: G.E.G. Mattingly.

The sixth year, clover/grass ley.

For previous years see 68/B/8(t), 69/W/RN/14, 70/W/RN/14(t), 71/W/RN/14(t) and 72/W/RN/14(t).

Design: 6 blocks of 6 plots, split into 2.

Whole plot dimensions: 8.53 x 15.8.

Treatments:- P205, applied as superphosphate, cumulatively to dressings in 1967: 0, 170, 340, 690, 1030 kg.

Basal applications: 30 kg N as 'Nitro-Chalk'. Weedkiller: Benazolin, 2,4-DB and MCPA ('Legumex Extra' at 7.0 l in 280 l).

Seed: Ley mixture sown at 56 kg except plots 01-06 at 25 kg. Seed composition: 38% S215 Meadow Fescue, 25% Comtessa Meadow Fescue, 25% S48 Timothy, 9% Huia White Clover, 3% Wild White Clover.

Cultivations, etc.: - Deep-tine cultivated: 30 Sept, 1972. Ploughed: 20 Dec. N applied: 23 Mar, 1973. P treatments applied, rotary harrowed: 27 Mar. Seeds sown: 28 Mar. Weedkiller applied: 31 May. Topped: 12 June. Cut: 2 Aug.

NOTE: No yields were taken.