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Yields of the Field Experiments 1966

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66/R/BZ/C/26 Lucerne Virus Control - Lucerne and Lucerne/COCKSFOOT

Rothamsted Research

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66/C/26.1

LUCERNE

(BZ)

Virus control - Long Hoos, 1966.

Design: 4 x 4 Latin square.

Area of each plot: 0.0661. Area harvested: 0.0046.

Treatments: All combinations of:-

1. Cropping: Lucerne (L), lucerne and cocksfoot in alternate rows (M).
2. Insecticide spray: None (O), sprayed with demeton-s-methyl (Metasystox at 12 fluid oz in 80 gals) one week after each cut (S).

The M plots received 0.6 cwt N as 'Nitro-Chalk' in the seedbed, and 0.5 cwt N, 0.5 cwt K₂O as (16:0:16) as top-dressing after each cut except the last. The L plots received 0.5 cwt K₂O as muriate of potash as top-dressing after each cut except the last.

Basal applications: 0.6 cwt P₂O₅, 1.2 cwt K₂O as (0:14:28) in seedbed.

Weedkiller: Dinoseb at 2.1 lb in 40 gals.

Cultivations, etc.: Ploughed: Oct 28, 1965. Rotary cultivated: Mar 30, 1966. Basal PK compound applied: Apr 28. 'Nitro-Chalk' applied to M plots: Apr 29. Rotary cultivated: Apr 30. Seed drilled - at 20 lb to L plots and 10 lb lucerne and 4 lb cocksfoot to M plots: May 2. Weedkiller applied: June 16. Cut to clear weeds (no yields): July 14. Cut: Oct 25. Variety: Du Puits. Previous crops: Oats 1964, spring wheat 1965.

NOTE: Aphid counts were made and the incidences of lucerne mosaic virus and of bean leaf roll virus were estimated.

Standard error per plot.

Dry matter: 1.89 or 7.9% (6 d.f.)

66/c/26.2

SUMMARY OF RESULTS

DRY MATTER (cut on Oct 25)

	Q	S	Mean
	(±0.94)		(±0.67)
L	21.7	23.4	22.5
M	25.2	25.3	25.2
Mean (±0.67)	23.4	24.3	23.9

Mean D.M. %: 19.9