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Yields of the Field Experiments 1967

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67/R/BZ/C/20 Lucerne Virus Control - Lucerne and Lucerne/COCKSFOOT 3rd Year

Rothamsted Research

Rothamsted Research (1968) *67/R/BZ/C/20 Lucerne Virus Control - Lucerne and
Lucerne/COCKSFOOT 3rd Year* ; Yields Of The Field Experiments 1967, pp 185 - 187 - DOI:
<https://doi.org/10.23637/ERADOC-1-157>

67/c/20.1

LUCERNE

(BZ)

Virus control - Long Hoos 1967, the second year. For treatments etc. and the previous years' results see 'Results' 66/c/26.

Area harvested: 0.0046.

The initial nitrogen dressing to M plots is now 0.8 cwt N.

Basal application: 0.9 cwt P₂O₅, 1.8 cwt K₂O as (0:14:28) in winter.

Cultivations, etc.: Basal PK compound applied: Feb 7, 1967.

'Nitro-Chalk' applied to M plots: Mar 16. S plots sprayed with demeton-s-methyl: Apr 26, June 27, Aug 3, Oct 12.

Irrigated 2 ins: July 31 - Aug 3. Cut three times: June 1, July 18, Sept 5. Muriate of potash applied to L plots and NK compound to M plots after each cut.

- NOTES: (1) Aphid counts were made and the incidence of lucerne mosaic virus and of bean leaf roll virus were estimated.
(2) All plots were affected by drift during aerial spraying of field beans with demeton-s-methyl on July 11.
(3) In order to avoid removing the eggs of over-wintering aphids, no fourth cut was taken.

Standard errors per plot. Grass, dry matter:

1st cut:	3.70 or 8.0% (6 d.f.)
2nd cut:	2.71 or 6.6% (6 d.f.)
3rd cut:	2.78 or 10.1% (6 d.f.)
Total of 3 cuts:	3.88 or 3.4% (6 d.f.)

67/C/20.2

SUMMARY OF RESULTS

	DRY MATTER		
	O	S	Mean
	1ST CUT		
	(±1.85)		(±1.31)
L	41.0	39.8	40.4
M	54.4	48.5	51.5
Mean (±1.31)	47.7	44.2	46.0
	2ND CUT		
	(±1.35)		(±0.96)
L	45.1	42.2	43.6
M	36.7	39.3	38.0
Mean (±0.96)	40.9	40.7	40.8

Mean D.M. %: 1st cut: 16.6
 2nd cut: 18.0

67/C/20.3

DRY MATTER			
	O	S	Mean
3RD CUT			
(±1.39)			(±0.98)
L	26.0	25.3	25.7
M	29.1	29.0	29.0
Mean (±0.98)	27.6	27.1	27.4
TOTAL OF 3 CUTS			
(±1.94)			(±1.37)
L	112.2	107.3	109.8
M	120.2	116.7	118.5
Mean (±1.37)	116.2	112.0	114.1

Mean D.M. %: 3rd cut: 17.7
 Total of 3 cuts: 17.4