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Yields of the Field Experiments 1967

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67/S/SAX/LU/1/C/46 Phosphate and Potash - Lucerne

Rothamsted Research

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67/C/46.1

LUCERNE

(SAX/Lu/1)

Phosphate and potash, Saxmundham, Victor's Plot, 1967, the first year.

Design: 4 randomised blocks of 4 plots.

Area of each plot: 0.0018. Area harvested: 1st cut - 0.0014,
2nd cut - 0.0012.

Treatments: All combinations of:-

1. Phosphate: 0.5 cwt (P1), 2.0 cwt (P4) P2O5 as triple superphosphate.
2. Potash: None (K0), 2.0 cwt (K1) K2O as muriate of potash.

Basal applications: None.

Cultivations, etc.: Ploughed: Sept 22, 1966. Fertilisers applied: Mar 8, 1967. Seed sown at 24 lb: Mar 22. Cut twice: July 13 and Sept 7. Variety: Europe (inoculated). Previous crops: Barley 1965, winter wheat 1966.

NOTE: One plot (P1 K2) was damaged by animals. An estimated value was used in the analysis.

Standard errors per plot. Dry matter:

1st cut:	1.76 or 6.3% (8 d.f.)*
2nd cut:	1.35 or 5.9% (8 d.f.)*
Total of 2 cuts:	2.52 or 5.0% (8 d.f.)*

* 1 estimated value

67/C/46.2

SUMMARY OF RESULTS

DRY MATTER

	KO	KI	Mean
	1ST CUT		
	(±0.88)		(±0.62)
P1	25.2	27.3	26.3
P4	28.2	30.5	29.3
Mean (±0.62)	26.7	28.9	27.8
	2ND CUT		
	(±0.67)		(±0.48)
P1	21.6	23.3	22.5
P4	22.2	24.3	23.2
Mean (±0.48)	21.9	23.8	22.9
	TOTAL OF 2 CUTS		
	(±1.26)		(±0.89)
P1	46.8	50.7	48.7
P4	50.4	54.8	52.6
Mean (±0.89)	48.6	52.7	50.7

Mean D.M. %: 1st cut: 33.2
 2nd cut: 28.6
 Total of 2 cuts: 30.9