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Yields of the Field Experiments 1967

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67/R/EQ/C/16 Rate of Action of P Fertilisers 1965-67 - Ryegrass

Rothamsted Research

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67/C/16.1

RYEGRASS AFTER BARLEY

(EQ)

The rate of action of P fertilisers, Sawyers II 1967, the third year.

Design: 4 replicates of 7 x 2 x 2 plus 2 plots per block without P, in 8 blocks of 16 plots.

Area of each plot: 0.0018. Area harvested: 0.0009.

Treatments 1965 and 1966: No P (0) (2 plots per block) and all combinations of:-

1. Phosphatic fertilisers:
 - Triple superphosphate (S)
 - Potassium metaphosphate (K)
 - Triple superphosphate plus potassium metaphosphate* (SK)
 - Magnesium ammonium phosphate (M)
 - Triple superphosphate plus magnesium ammonium phosphate* (SM)
 - Potassium metaphosphate plus magnesium ammonium phosphate* (KM)
 - Triple superphosphate plus potassium metaphosphate plus magnesium ammonium phosphate* (SKM)

* Each material supplying half the P (one third in treatment SKM).

2. Levels of P: 12 lb (L1), 24 lb (L2) P to barley 1966 (double these rates to potatoes 1965).
3. Type of fertiliser: Powder, less than 1 mm (P), granular 1-4 mm (G).

All applied to barley 1966 with 'Nitro-Chalk', muriate of potash and kieserite in amounts adjusted to give a total of 60 lb N, 100 lb K and 25 lb Mg.

Basal applications: To ryegrass: 60 lb N and 50 lb K (16:0:16) for each cut.

Cultivations etc.: Basal NK applied: Feb 24, 1967. Cut once: May 17.

NOTE: For previous years' results see 'Results' 65/C/28 and 66/C/20.

Standard error per plot.

Dry matter: 2.84 or 5.8% (90 d.f.)

67/C/16.2

SUMMARY OF RESULTS

1ST AND ONLY CUT: DRY MATTER

	O	S	K	SK	M	SM	KM	SKM	Mean
Mean (± 0.71)	45.8	48.8	51.6	49.9	48.8	49.4	50.3	50.4	49.4
	(± 1.01)								(± 0.38)
I1		49.2	50.0	47.6	48.5	49.5	50.2	46.7	48.8
I2		48.4	53.1	52.2	49.0	49.3	50.4	54.2	50.9
P		48.0	49.6	50.4	48.5	48.7	51.2	48.5	49.3
G		49.6	53.6	49.3	49.0	50.2	49.4	52.4	50.5

Mean D.M. %: 18.4