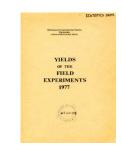
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Yields of the Field Experiments 1977



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Rothamsted Research

Rothamsted Research (1978) 77/W/RN/14 Long-term Phosphate - Ley; Yields Of The Field Experiments 1977, pp 89 - 90 - DOI: https://doi.org/10.23637/ERADOC-1-29

77/W/RN/14

LONG TERM PHOSPHATE

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

Sponsor: G.E.G. Mattingly.

The tenth 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), 72/W/RN/14(t) and 73-76/W/RN/14.

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

Whole plot dimensions: 8.53 x 15.8.

Treatments: All combinations of:-

Whole plots

1. P205RES(73) Residues of superphosphate applied autumn 1967 and spring 1973 (kg P205):

	1967	1973	Total	
0 360 720 1440 2160	None 188 376 753	None 172 344 687	None 360 720 1440 2160	(Duplicate plots)

Sub plots

2. P205RES(72) Residues of superphosphate applied in three equal dressings 1970-72 (kg P205, total):

0 376

Basal applications: Manures: Ground chalk at 2.5 tonnes. K20 at 110 kg as muriate of potash. MgO at 30 kg as Epsom Salts. K20 at 50 kg as muriate of potash.

Cultivations, etc.:- Ground chalk applied: 3 Sept, 1976. Mg and first K applied: 18 Jan, 1977. Cut once: 22-23 June. Second K applied: 19 July.

77/W/RN/14

1ST AND ONLY CUT (22/6/77) DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

P205RES(73)	0	360	720	1440	2160	MEAN
P205RES(72) 0 376	2.86 3.86	2.80	3.14 3.09	2.92	2.18 2.24	2.79 3.08
MEAN	3.36	2.82	3.11	2.76	2.21	2.94

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	P205RES(73) P209		05RES(73) 05RES(72)	
SED	0.384 0.332	0.132		MIN REP MAX-MIN
EXCEPT WHEN P205RES(7	COMPARING MEANS WI'			MIN REP MAX REP

P205RES(73)

MAX REP 0

MAX-MIN O V ANY OF REMAINDER

MIN REP ANY OF REMAINDER

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	26	0.665	22.6
BLOCK.WP.SP	31	0.559	19.0

1ST CUT MEAN DM% 32.8

SUE PLOT AREA HARVESTED 0.00145