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Yields of the Field Experiments 1977

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77/W/RN/14 Long-term Phosphate - Ley

Rothamsted Research

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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	None	None	None (Duplicate plots)
360	188	172	360
720	376	344	720
1440	753	687	1440
2160	1130	1030	2160

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	2.86	2.80	3.14	2.92	2.18	2.79
376	3.86	2.85	3.09	2.60	2.24	3.08
MEAN	3.36	2.82	3.11	2.76	2.21	2.94

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

TABLE	P205RES(73)	P205RES(72)	P205RES(73) P205RES(72)	
SED	0.384		0.447	MIN REP
	0.332	0.132	0.387	MAX-MIN
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
P205RES(73)			0.323	MIN REP
			0.228	MAX REP

P205RES(73)
 MAX REP 0
 MAX-MIN 0 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