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Yields of the Field Experiments 1976

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

Rothamsted Research

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76/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 ninth 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 73-75/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	0
376	376

Basal applications: Manures: K2O at 110 kg as muriate of potash. MgO at 30 kg as Epsom salts. K2O at 50 kg as muriate of potash.

Cultivations, etc.: - Mg applied: 15 Dec, 1975. Chain harrowed: 27 Feb, 1976. First K applied: 19 Mar. Cut once: 11 June. Second K applied: 25 June.

76/W/RN/14

1ST AND ONLY CUT (10/6/76) DRY MATTER TONNES/HECTARE

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

P205RES(73)	0	360	720	1440	2160	MEAN
P205RES(72)						
0	1.31	1.77	2.04	1.85	1.59	1.64
376	1.78	1.67	2.08	1.83	1.71	1.81
MEAN	1.54	1.72	2.06	1.84	1.65	1.73

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

TABLE	P205RES(72)	P205RES(73)	P205RES(72) P205RES(73)	
SED		0.215	0.232	MIN REP
	0.051	0.186	0.201	MAX-MIN
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
P205RES(73)			0.124	MIN REP
			0.108	MAX-MIN
			0.088	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	0.372	21.6
BLOCK.WP.SP	31	0.215	12.5

MEAN DM% 40.3

SUB PLOT AREA HARVESTED 0.00145