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Yields of the Field Experiments 1975

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75/ W/RN/14 - Long Term Phosphate - Ley

Rothamsted Research

Rothamsted Research (1976) 75/ W/RN/14 - Long Term Phosphate - Ley ; Yields Of The Field Experiments 1975, pp 118 - 119 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/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 eighth 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 73-74/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. Residues of superphosphate applied autumn 1967 and spring 1973 (kg P₂O₅):

1967	1973	Total	P ₂ O ₅ RES(73)
None	None	None (Duplicate plots)	0
188	172	360	360
376	344	720	720
753	687	1440	1440
1130	1036	2160	2160

Sub plots: 2. Residues of superphosphate applied in three equal dressings 1970-72 (kg P₂O₅, total):

	P ₂ O ₅ RES(72)
None	0
376	376

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

Cultivations, etc.: K and Mg applied: 13 Feb, 1975. Cut once: 9-10 June.

75/W/RN/14

1ST AND ONLY CUT (9/6/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

P205RES(73)	0	360	720	1440	2160	MEAN
P205RES(72)						
0	2.20	4.06	4.19	4.65	4.69	3.67
376	3.27	4.30	4.54	4.61	4.97	4.16
MEAN	2.74	4.18	4.36	4.63	4.83	3.91

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

TABLE	P205RES(72)	P205RES(73)	P205RES(72) P205RES(73)
SED	0.121	0.359(1) 0.415(2)	0.402(1) 0.465(2)

EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:
P205RES(73)

0.209(3)
0.296(2)

- (1) 0 V ANY OF REMAINDER
- (2) ANY OF REMAINDER
- (3) 0

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

STRATUM	DF	SE	CV%
BLOCK.WP	26	0.719	18.4
BLOCK.WP.SP	31	0.512	13.1

MEAN DM% 32.2

PLOT AREA HARVESTED 0.00145