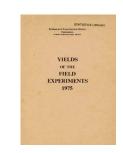
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Yields of the Field Experiments 1975



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Rothamsted Research

Rothamsted Research (1976) 75/ R/CS/13 - N Levels to Old Grass - Old Grass ; Yields Of The Field Experiments 1975, pp 150 - 152 - DOI: https://doi.org/10.23637/ERADOC-1-141

75/R/CS/13

N LEVELS TO OLD GRASS

Object: To study the effects of a range of nitrogen rates on yield and botanical composition of very old permanent pasture given a single dressing of P and K annually. N fixed by legumes is estimated and the effect of treatments on nutrients available in the soil is also studied - Park Grass Old Plot 6.

Sponsor: A.E. Johnston.

The eleventh year, old grass.

For previous years see 65/C/33(t), 66/C/14, 67/C/10(t), 68/C/8(t), 69/R/CS/13(t), 70/R/CS/13(t), 71/R/CS/13, 72/R/CS/13(t) and 73-74/R/CS/13.

Design: 4 randomised blocks of 10 plots.

Whole plot dimensions: 1.83 x 10.1.

Treatments: Fertiliser nitrogen (kg N-total per annum applied in four equal dressings as 'Nitro-Chalk'):

TOTAL N

None (sprayed with mecoprotwo plots per block)	op to control legumes,	o(s)
None (two plots per block))	0(5)
75	,	75
17		17
150		150
225		225
300		300
375		375
450		450

NOTE: Mecoprop applied as 'Clovotox' at 8.4 1 in 280 1 on 18 Apr.

Basal applications: 34 kg P as superphosphate, 224 kg K as potassium sulphate, 11 kg Mg as magnesium sulphate.

Cultivations, etc.:- Basal P, K and Mg applied: 9 Dec, 1974. N applied: 18 Mar, 1975, 6 June and 8 Aug. Cut: 5 June, 7 Aug and 20 Oct.

75/R/CS/13

1ST CUT (20/5/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

TOTAL N 0(S) 0 75 150 225 300 375 450 MEAN 0.58 2.27 2.39 2.93 3.78 4.55 5.12 5.31 2.98

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

TABLE TOTAL N

SED 0.154 (1)
0.188 (2)
0.218 (3)

(1) O(S) V O

(2) O(S) OR O AGAINST ANY ONE OF THE REMAINDER

(3) ANY OF REMAINDER

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

 STRATUM
 DF
 SE
 CV%

 BLCK.WP
 29
 0.308
 10.3

1ST CUT MEAN DM% 20.9

2ND CUT (8/7/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

TOTAL N 0(5) 75 150 225 300 375 450 MEAN 0.53 1.47 1.31 1.58 2.06 2.20 2.41 2.39 1.60

*** S TANDARD ERRORS OF DIFFERENCES OF MEANS ***

TABLE TOTAL N

SED 0.145 (1)
0.177 (2)
0.205 (3)

(1) O(S) V O

(2) O(S) OR O AGAINST ANY ONE OF THE REMAINDER

(3) ANY OF REMAINDER

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

 STRATUM
 DF
 SE
 CV%

 BLCCK.WP
 29
 0.289
 18.1

2ND CUT MEAN DM% 20.9

75 /R/CS/13

3RD CUT (20/10/75) DRY MATTER TONNES/HECTARE

TABLES OF MEANS

TOTAL N 0(S) 0 75 150 225 300 375 450 MEAN 0.33 0.59 0.84 1.12 1.58 1.77 1.96 1.99 1.11

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

TABLE TOTAL N

SED 0.066 (1)
0.081 (2)
0.094 (3)

(1) O(S) V O

(2) O(S) OR O AGAINST ANY ONE OF THE REMAINDER

(3) ANY OF REMAINDER

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

STRATUM DF SE CV%
BLCCK.WP 29 0.132 12.0

3RD CUT MEAN DM% 23.6

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

TOTAL N 0(S) 0 75 150 225 300 375 450 MEAN 1.44 4.33 4.55 5.63 7.42 8.52 9.49 9.68 5.68

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

TABLE TOTAL N

SED 0.186 (1)
0.227 (2)
0.263 (3)

(1) O(S) V O

(2) O(S) OR O AGAINST ANY ONE OF THE REMAINDER

(3) ANY OF REMAINDER

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

 STRATUM
 DF
 SE
 CV%

 BLCCK.WP
 29
 0.371
 6.5

TOTAL OF 3 CUTS MEAN DM% 21.8

PLOT AREA HARVESTED 0.00086

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