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Yields of the Field Experiments 1974

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74/R/CS/107 Varieties and Pathogens - Ryegrass

74/R/CS/107 Varieties and Pathogens - Ryegrass, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 222 - 224 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/R/CS/107

VARIETIES AND PATHOGENS

Object: To compare the yields and susceptibilities to diseases of a range of Italian and Perennial Ryegrass varieties - Long Hoos IV.

Sponsors: R.T. Plumb, J.F. Jenkyn.

The second year, Italian and perennial ryegrass.

For previous year see 73/R/CS/107.

Design: 2 blocks of 2 whole plots split into 5 (Italian), 6 (Perennial) sub plots.

Whole plot dimensions: Italian - 13.1 x 6.10, perennial - 15.8 x 6.10.
Sub plot area harvested: 0.00056.

Treatments:-

Whole plots: 1. Ryegrass type:

Italian
Perennial

TYPE

Italian
Perennial

Sub plots: 2. Varieties and sowing time:

VARIETY

Italian varieties (sown autumn 1972 except where stated):

Asso, sown spring 1973
Grasslands Manawa
R.V.P.
R.V.P., sown spring 1973
S.22

Asso(S)
Manawa
RVP
RVP(S)
S.22

Perennial varieties (all sown autumn 1972):

Endura
Glasnevin Leafy
Gremie
Monta C.I.V.
Reveille
S.24

Endura
Glasnevi
Gremie
Monta
Reveille
S.24

Basal applications: Manures: (0:14:28) at 900 kg. (25:0:16) at 300 kg in spring and after each cut except the last.

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Cultivations, etc.:— PK applied: 7 Mar, 1974. NK applied: 7 Mar, 7 June, 5 Aug. Cuts: 5 June, 31 July and 10 Jan, 1975.

- NOTES: (1) Counts of mites (*Abacarus hystrix*) were made on 19 July, 16 Sept, 21 Oct.
(2) Assessments of infection by Ryegrass Mosaic Virus were made on 21 May, 4 June, 25 July.
(3) Observations were made on foliar diseases.

Standard errors per sub plot. Dry matter: tonnes/hectare.

1st cut:	0.334	or	4.2%	(9 d.f.)
2nd cut:	0.304	or	8.5%	(9 d.f.)
3rd cut:	0.159	or	7.3%	(9 d.f.)
Total of 3 cuts:	0.436	or	3.2%	(9 d.f.)

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TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

TYPE VARIETY	Italian		RVP(S)	S22	Perennial				Mean		
	Manawa	RVP			Endura	Glassevi	Gremie	Monta		Reveille	S24
					1ST CUT (5/6/74)						
8.50	8.70	8.34	8.11	8.55	6.32	6.94	8.41	8.36	6.70	9.43	8.03
					2ND CUT (31/7/74)						
3.78	4.17	4.13	3.86	4.19	3.98	2.86	2.70	3.49	2.64	3.65	3.59
					3RD CUT (10/1/75)						
2.54	2.34	2.40	2.54	1.90	2.62	2.11	1.54	1.98	1.45	2.62	2.18
					TOTAL OF 3 CUTS						
14.83	15.21	14.88	14.51	14.63	12.91	11.90	12.65	13.83	10.78	15.70	13.80

STANDARD ERRORS OF DIFFERENCES. For use only in comparisons within the same TYPE

1st cut:	0.334	Mean D.M. %	29.7
2nd cut:	0.304		29.8
3rd cut:	0.159		29.1
Total of 3 cuts:	0.436		29.5