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Yields of the Field Experiments 1974

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

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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:	TYPE
Italian	Italian
Perennial	Perennial

Sub plots: 2. Varieties and sowing time:	VARIETY
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Italian varieties (sown autumn 1972 except where stated):

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

Perennial varieties (all sown autumn 1972):

Endura	Endura
Glasnevin Leafy	Glasnevi
Gremie	Gremie
Monta C.I.V.	Monta
Reveille	Reveille
S.24	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	
	8.50	8.70	8.34	8.11	8.55	6.32	6.94	8.41	8.36	6.70	9.43	8.03
	3.78	4.17	4.13	3.86	2ND CUT (31/7/74)							
	2.54	2.34	2.40	2.54	4.19	3.98	2.86	2.70	3.49	2.64	3.65	3.59
					3RD CUT (10/1/75)							
					1.90	2.62	2.11	1.54	1.98	1.45	2.62	2.18
	14.83	15.21	14.88	14.51	14.63	12.91	11.90	12.65	13.83	10.78	15.70	13.80
	TOTAL OF 3 CUTS											

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