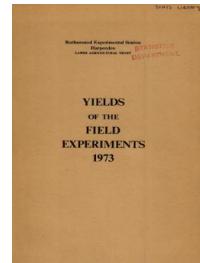


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Yields of the Field Experiments 1973

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73/R/CS/107 - Varieties & Pathogens - Ryegrass

Rothamsted Research

Rothamsted Research (1974) 73/R/CS/107 - *Varieties & Pathogens - Ryegrass* ; Yields Of The Field Experiments 1973, pp 266 - 268 - DOI: <https://doi.org/10.23637/ERADOC-1-98>

73/R/CS/107

RYEGRASS, 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 first year, Italian and perennial ryegrass.

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

Whole plot dimensions: 2.13 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

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. 'Nitro-Chalk' at 150 kg before sowing. (25:0:16) at 300 kg in spring and after each cut except the last.

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Seed: Sown at 45 kg.

Cultivations, etc.: Basal N and PK applied, rotary cultivated: 3 Oct, 1972.
Seed sown (except Asso and RVP(S)): 12 Oct. NK applied to all sown plots:
9 Apr, 1973. Power harrowed, Asso(S) and RVP(S) sown: 27 Apr. Autumn
sown plots cut: 7 June. NK applied to all plots: 18 June, 25 July.
All plots cut: 18 July, 12 Sept, 23 Oct. Previous crops: Winter wheat
1971 and 1972.

NOTES: (1) Scores for Ryegrass Mosaic Virus and Crown Rust (*Puccinia coronata*) were made between third and fourth cuts.
(2) Asso(S) and RVP(S) were not ready to cut until 18 July.
(3) Spring sown plots did not receive basal N in seedbed or NK
in spring.

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

1st cut:	0.331 or 7.0% (9 d.f.)
2nd cut:	0.324 or 9.2% (9 d.f.)
3rd cut:	0.210 or 8.5% (9 d.f.)
4th cut:	0.070 or 4.8% (9 d.f.)
Total of 4 cuts:	0.493 or 4.1% (9 d.f.)

T3/R/C5/107

TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

TYPE VARIETY	ASO(S)	ITALIAN			PERENNIAL			MEAN
		MANGAWA	RVP	RVP(S)	ENDURA	GLASNEVI	GRENIE	
1ST CUT 7/6/73								
0.00	6.26	6.25	0.00	6.57	4.53	5.84	5.96	5.69
4.23	4.36	4.61	3.92	3.99	3.37	2.59	2.86	3.09
2.86	3.01	2.67	2.77	2.37	2.54	2.39	2.26	2.16
1.23	1.26	1.44	1.52	1.30	1.62	1.38	1.49	1.50
TOTAL OF 4 CUTS								
8.33	14.90	14.97	8.21	14.22	12.05	12.20	12.58	12.45
STANDARD ERRORS OF DIFFERENCES. For use only in comparison within the same TYPE								
1st cut	0.331							14.1
2nd cut	0.324							15.3
3rd cut	0.210							36.7
4th cut	0.070							16.1
Total of 4 cuts	0.493							20.6

	MEAN D.M. %
1st cut	14.1
2nd cut	15.3
3rd cut	36.7
4th cut	16.1
Total of 4 cuts	20.6