Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1983



Full Table of Content

83/R/CS/280 Rhizobium Strains - Lucerne and Melilotus alba

Rothamsted Research

Rothamsted Research (1984) 83/R/CS/280 Rhizobium Strains - Lucerne and Melilotus alba; Yields Of The Field Experiments 1983, pp 174 - 175 - DOI: https://doi.org/10.23637/ERADOC-1-44

83/R/CS/280

RHIZOBIUM STRAINS

Object: To compare the effectiveness of five strains of Rhizobium meliloti in fixing nitrogen with lucerne and Melilotus alba - Claycroft.

Sponsor: A. Fyson.

The second year, lucerne and Melilotus alba.

For first year see 82/R/CS/280.

Design: 4 randomised blocks of 2 plots split into 6.

Whole plot area: 7.0×39.0 .

Treatments: All combinations of:-

Whole plots

SPECIES Species:

LUCERNE Lucerne, Vertus MEL ALBA Melilotus alba

Sub plots

RM STRN Strain of Rhizobium meliloti inoculum used in 1982:

RCR 2001 RCR 2001
MEL 5 MEL 5
MEL 10 MEL 10
MEL 16 MEL 16
MEL 17 MEL 17

MIXTURE Mixture of all above strains

Basal applications: Manures: (0:18:36) at 690 kg.

Seed: Both species sown at 10 kg, in 1982.

Cultivations, etc.:- PK applied: 11 Jan, 1983. Cut: 9 June.

NOTES: (1) Melilotus alba failed after cutting and the experiment ceased.

(2) N content of produce was measured.

83/R/CS/280

1ST CUT (9/6/83) DRY MATTER TONNES/HECTARE

**** TABLES OF MEANS ****

SPECIES	LUCERNE	MEL ALBA	MEAN
RM STRN			
RCR 2001	4.48	5.81	5.15
MEL 5	4.21	5.47	4.84
MEL 10	4.33	5.45	4.89
MEL 16	4.58	5.14	4.86
MEL 17	4.42	5.69	5.06
MIXTURE	4.32	5.60	4.96
MEAN	4.39	5.53	4.96

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

TABLE	SPECIES	RM STRN	SPECIES RM STRN
SED	0.139 COMPARING MEANS		0.336
SPECIES	CUMPAKING MEANS	WITH SAME LE	0.336

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

STRATUM DF SE CV%

BLOCK.WP.SP 30 0.475 9.6

1ST CUT MEAN DM% 18.4

SUB PLOT AREA HARVESTED 0.00070