

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 readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1977

[Full Table of Content](#)



77/R/CS/204 Clover Varieties in Grass/CLOVER Mixtures - Ryegrass, Clover

Rothamsted Research

Rothamsted Research (1978) *77/R/CS/204 Clover Varieties in Grass/CLOVER Mixtures - Ryegrass, Clover* ; Yields Of The Field Experiments 1977, pp 294 - 295 - DOI:

<https://doi.org/10.23637/ERADOC-1-29>

77/R/CS/204

CLOVER VARIETIES IN GRASS/CLOVER MIXTURES

Object: To study the effects of controlling pests and diseases on the persistence of different varieties of white clover in mixed grass/clover swards - Long Hoos IV 2.

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

The first year, white clover, ryegrass.

Design: 2 randomised blocks of 40 plots.

Whole plot dimensions: 1.83 x 6.10.

Treatments: All combinations of:-

- | | |
|-------------|---|
| 1. VARIETY | Varieties and species: |
| S23 | S.23 ryegrass |
| S23/BLAN | S.23 ryegrass + Blanca white clover |
| S23/KWW | S.23 ryegrass + Kent wild white clover |
| S23/LAD | S.23 ryegrass + Ladino white clover |
| S23/MIL | S.23 ryegrass + Milkanova white clover |
| 2. CHEMICAL | Chemicals for pest and disease control: |
| NONE | None |
| ALDICARB | Aldicarb at 5 kg |
| BENOMYL | Benomyl at 0.5 kg |
| PHOR+MET | Phorate at 5 kg + metaldehyde at 1.8 kg |

NOTES: (1) Aldicarb was applied on 20 May, 1977, 9 Sept.
(2) Benomyl was applied on 23 Sept.
(3) Phorate and metaldehyde were applied on 20 May, 4 Aug and 16 Sept.
(4) All treatment combinations were duplicated within blocks. Duplicates will be used for a test of nitrogen fertiliser in 1978.

Basal applications: Manures: (0:14:28) at 970 kg. 'Nitro-Chalk' at 100 kg.
Weedkillers: Paraquat at 0.56 kg ion in 340 l. 2,4-DB at 1.7 kg in 340 l.
Irrigation: 25 mm.

Seed: All varieties sown at 5 kg.

Cultivations, etc.: Deep-tine cultivated: 13 Sept, 1976. Ploughed: 13 Oct.
PK applied: 9 Nov. Paraquat applied: 2 May, 1977. Spring-tine cultivated: 10 May. Power harrowed: 11 May. Seed sown, hand raked, rolled: 20 May. 12.5 mm irrigation applied on two occasions: 24 May, 4 June. 2,4-DB applied: 15 July. Topped: 23 Aug. 'Nitro-Chalk' applied: 1 Sept. Cut: 14 Oct. Previous crops: Spring wheat, barley and oats, 1975, spring wheat 1976.

NOTES: (1) Tiller counts were made in September.
(2) The botanical composition of the first cut was examined.

77/R/CS/204

1ST AND ONLY CUT (14/10/77) DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

CHEMICAL VARIETY	NONE	ALDICARB	BENOMYL	PHOR+MET	MEAN
S23	1.31	0.87	0.93	1.34	1.12
S23/BLAN	2.31	2.18	2.34	2.12	2.24
S23/KWW	2.23	2.25	2.44	2.17	2.27
S23/LAD	1.74	1.97	1.77	2.12	1.90
S23/MIL	2.06	2.45	2.23	2.25	2.25
MEAN	1.93	1.94	1.94	2.00	1.95

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

TABLE	VARIETY	CHEMICAL	VARIETY CHEMICAL
SED	0.101	0.090	0.201

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

STRATUM	DF	SE	CV%
BLOCK.WP	59	0.285	14.6

MEAN DM% 15.4

PLOT AREA HARVESTED 0.00054