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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.

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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		