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# Yields of the Field Experiments 1985



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# 85/R/MA/2 Dazomet, Sowing Dates and Polythene Covers - Maize

**Rothamsted Research** 

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#### 85/R/MA/2

#### MAIZE

### DAZOMET, SOWING DATES AND POLYTHENE COVERS

Object: To study the effects of dazomet, two sowing dates and polythene covers on the growth, pathogens and yield of maize grown for forage -Long Hoos IV 4.

Sponsors: A.J. Barnard, D. Hornby.

Design: 3 randomised blocks of 16 plots.

Whole plot dimensions: 1.6 x 5.49.

Treatments: All combinations, duplicated, of:-

STERILNT Soil sterilant:

NONE None DAZOMET Dazomet at 450 kg

2. SOW DATE Dates of sowing:

15 APR 15 April, 1985 10 MAY 10 May

3. COVERS Covers to seedbed after sowing:

NONE None POLYTHNE Polythene sheet

- NOTE: The covers were photo-degradable and were laid by hand within 10 days of sowing and then perforated at about 10 cm intervals over the drill rows to allow seedling emergence.
- Basal applications: Manures: Muriate of potash at 520 kg. 'Nitro-Chalk' (27.5% N) at 550 kg. Weedkillers: Glyphosate at 1.4 kg in 220 l. Atrazine at 2.8 kg in 220 l. Insecticide: Pirimicarb at 0.14 kg in 220 l.

Seed: Bastille, sown at 100,000 seeds per hectare.

- Cultivations, etc.:- Glyphosate applied: 26 Sept, 1984. Muriate of potash applied: 11 Dec. Ploughed: 13 Dec. Dazomet applied and worked in by hand-controlled spiked cultivator: 12 Mar, 1985. N applied: 10 Apr. Early-sown plots spring-tine cultivated and seed sown: 15 Apr. Atrazine and polythene treatments applied to earlysown plots: 16 Apr. Late-sown plots power harrowed and sown: 10 May. Atrazine applied to late-sown plots: 15 May. Polythene treatments applied to late-sown plots: 20 May. Insecticide applied: 24 July. Harvested by hand: 16 Oct. Previous crops: Fenugreek 1983, potatoes 1984.
- NOTE: Plant counts were made at establishment, mid-season and preharvest. Growth rates, plant heights and length of selected leaves were measured. The crop was inspected for disease on four occasions throughout the season.

## 85/R/MA/2

FORAGE DRY MATTER TONNES/HECTARE

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

SOW DATE STERILNT	15 APR	10 MAY	MEAN
NONE	14.54	15.73	15.13
DAZOMET	15.58		15.90
MEAN	15.06	15.98	15.52
COVERS	NONE	POLYTHNE	MEAN
NONE	15.24	15.03	15.13
DAZOMET	15.33	16.48	15.90
MEAN	15.28	15.75	15.52
COVERS SOW DATE	NONE	POLYTHNE	MEAN
15 APR	14.88	15.23	15.06
10 MAY	15.69	16.28	
MEAN	15.28	15.75	15.52
SOW DATE	15 APR		10 MAY
COVERS		POLYTHNE	NONE POLYTHNE
	14,60	14.47	15.88 15.59
	15.17		15.50 16.96
DITEOTIE	10.11	10.55	10.00 10.00

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

TABLE	STER	ILNT	SOW	DATE	CO	VERS	S STERIL SOW DA	
SED	0	0.468		0.468	0.468 STERILNT SOW DATE COVERS		0.661	
TABLE	STER CO	ILNT VERS	SOW DATE COVERS					
SED	0	.661		0.661	0	.935	5	
**** STRATUM	STANDARD	ERRORS	AND	COEFF	ICIENTS	0F	VARIATION	****
STRATUM		DF			SE		CV%	
BLOCK .WP		37		1	.620		10.4	
FORAGE MEAN DA	1% 24.4							

PLOT AREA HARVESTED 0.00029