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89/R/SU/4 Varieties and Botrytis - Sunflowers

Rothamsted Research

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89/R/SU/4

SUNFLOWERS

VARIETIES AND BOTRYTIS

Object: To compare two varieties of sunflower for their yield and resistance to Botrytis - Long Hoos I/II.

Sponsors: V.J. Church, B.D.L. Fitt, C.J. Rawlinson.

Design: 3 blocks each of 2 replicates of 2 plots.

Whole plot dimensions: 2.5 x 10.0.

Treatments:

VARIETY	Varieties:
CRZ	CRz, susceptible to Botrytis
H4 PZ	H4 Pz, resistant to Botrytis

Basal applications: Manures: (0:18:36) at 925 kg. 'Nitram' at 150 kg. Weedkillers: Glyphosate at 1.4 kg in 200 l. Trifluralin at 1.1 kg in 220 l. Linuron at 0.50 kg in 220 l.

Seed: Varieties sown at 120,000 seeds per hectare.

Cultivations, etc.:- PK applied: 28 Sept, 1988. Glyphosate applied: 22 Oct. Ploughed: 16 Dec. N applied: 14 Apr, 1989. Trifluralin applied, rotary cultivated: 20 Apr. Seed sown: 21 Apr. Rolled, linuron applied: 24 Apr. Hand harvested CRZ: 13 Sept. Hand harvested H4 PZ: 21 Sept. Previous crops: W. wheat 1987, s. beans 1988.

NOTE: The plots were covered by a bird-proof net from late April to maturity. Growth stages were monitored fortnightly. Botrytis was assessed on four occasions towards maturity. Plants were counted before harvest.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

VARIETY	CRZ	H4 PZ	Mean
	3.78	3.82	3.80

*** Standard errors of differences of means ***

VARIETY
0.202

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.349	9.2
GRAIN MEAN DM%	59.8	PLOT AREA HARVESTED	0.00200