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88/R/SU/2 Seed Rates - Sunflowers

Rothamsted Research

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88/R/SU/2

SUNFLOWERS

SEED RATES

Object: To test the effects of five seed rates on plant growth, disease and yield - Fosters Corner.

Sponsors: C.J. Rawlinson, V.J. Church, R.A. Gutteridge.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 2.5 x 8.0.

Treatments:

SEEDRATE Seed rate (no. seeds sown per square metre):

6
8
10
12
14

Basal applications: Manures: (10:10:15+4.5 Mg) at 600 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. Desiccant: Diquat at 0.40 kg ion in 220 l on two occasions.

Seed: HA 701.

Cultivations, etc.:- Glyphosate applied: 17 Nov, 1987. Ploughed: 8 Dec. Manures applied: 11 Mar, 1988. Trifluralin applied, spring-tine cultivated, rotary harrowed, seed sown: 6 Apr. Rolled: 7 Apr. Linuron applied: 11 Apr. Desiccant applied twice: 14 Sept. Combine harvested: 22 Sept. Previous crops: S. oats 1986, w. wheat 1987.

NOTE: The plots were covered by a bird-proof net from mid-April to maturity. Crop heights were measured at anthesis and maturity. Flower head angles and diameters were measured at maturity. Botrytis was assessed on three occasions.

88/R/SU/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SEEDRATE	6	8	10	12	14	Mean
	1.99	1.99	2.30	2.16	2.39	2.16

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

SEEDRATE
0.121

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.171	7.9

GRAIN MEAN DM% 64.6

PLOT AREA HARVESTED 0.00120