

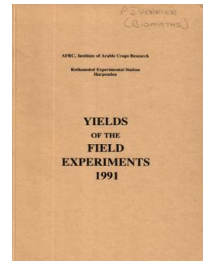
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91/R/RAW/10 Dwarf Strains - W. Oilseed Rape

Rothamsted Research

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91/R/RAW/10

WINTER OILSEED RAPE

DWARF STRAINS

Object: To compare the growth and yield of w. oilseed rape strains containing a dwarfing gene with standard strains - Long Hoos IV 5.

Sponsors: T. Scott, J.E. Leach.

Design: 2 randomised blocks of 13 plots.

Whole plot dimensions: 2.0 x 10.0.

Treatments: All combinations of:-

1. **ISO LINE** Isogenic lines:

1
2
3
4

2. **ISO TYPE** Types within lines:

DWARF	Dwarf
INTER	Intermediate
TALL	Tall

plus one extra treatment:

LIBRAVO Standard tall variety Libravo

Basal applications: Manures: (0:16:36) at 1.1 t. Magnesian limestone at 2.9 t. 'Nitram' at 640 kg. Weedkiller: Metazachlor at 0.75 kg in 200 l. Insecticide: Alpha-cypermethrin at 20 g in 220 l. Irrigation: 25 mm on two occasions.

Seed: Various, sown at 8.0 kg.

Cultivations, etc.:- P and K applied: 3 Sept, 1990. Magnesian limestone applied, ploughed: 4 Sept. Rolled: 5 Sept. Rotary harrowed: 7 Sept. Cultivated with rotary grubber and rotary harrowed, seed sown, rolled, weedkiller applied: 10 Sept. Irrigated: 18 and 26 Sept. N applied: 14 Mar, 1991. Insecticide applied: 7 May. Hand harvested: 1 Aug.

NOTES: (1) The plots were netted against birds from late autumn to summer.
(2) Measurements were made of light penetration, total dry matter and nitrogen content at 50% flowering, maximum crop size and at harvest. After harvest components of yield were assessed.

91/R/RAW/10

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

ISO LINE	1	2	3	4	Mean
ISO TYPE					
DWARF	1.31	0.84	1.01	0.89	1.01
INTER	1.26	2.86	2.01	2.57	2.18
TALL	3.14	2.25	3.45	3.52	3.09
Mean	1.90	1.99	2.16	2.33	2.09

LIBRAVO 4.82

GRAND MEAN 2.30

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

ISO TYPE	ISO LINE	ISO TYPE ISO LINE & LIBRAVO
0.602	0.696	1.205

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	1.204	52.4

MEAN DM% 94.4

PLOT AREA HARVESTED 0.00010