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## Yields of the Field Experiments 1991

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

#### Rothamsted Research

Rothamsted Research (1992) *91/R/RAW/10 Dwarf Strains - W. Oilseed Rape* ; Yields Of The Field Experiments 1991, pp 151 - 152 - DOI: <https://doi.org/10.23637/ERADOC-1-46>

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 ISO TYPE	1	2	3	4	Mean
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		