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80/R/RA/2 Winter Oilseed Rape Stubble Treatment & Phoma

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80/R/RA/2

WINTER OILSEED RAPE

STUBBLE TREATMENT & PHOMA

Object: To study the effects of a range of weedkillers and fungicides applied to the stubble of a previous oilseed rape crop on the incidence of Phoma and on the yield of the current crop - Summerdells I.

Sponsor: C.J. Rawlinson.

Design: 2 randomised blocks of 10 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments:

TREATMNT Treatments applied to stubble of 1979 crop:

NONE None (duplicated)

Weedkillers:

W DINOS	Dinoseb amine + oil ('Desicoil' at 5.0 l)
W LINUR	Linuron at 0.5 kg
W PARAQ	Paraquat at 1 kg ion
W GLYPH	Glyphosate at 1.8 kg

Fungicides:

F BEN+TH	Benomyl at 1 kg + thiram at 1 kg
F TRIAD	Triadimefon at 1 kg
F THIAB	Thiabendazole at 1 kg
F IPROD	Iprodione at 1 kg

NOTE: Treatments were applied on 29 August, 1979 in 340 l.

Basal applications: Manures: (13:13:20) at 380 kg. 'Nitro-chalk' at 750 kg. Weedkillers: Dalapon at 0.95 kg with propyzamide at 0.70 kg in 220 l. 3, 6-Dichloropicolinic acid with benazolin ('Benazolox' at 1.0 kg) in 250 l. Desiccant: Diquat at 0.56 l in 220 l.

Seed: Primor, dressed with gamma HCH, benomyl and thiram, sown at 9 kg.

Cultivations, etc.: NPK applied, heavy spring-tine cultivated, twice: 10 Sept, 1979. Chisel ploughed, rotary harrowed, seed sown: 11 Sept. Dalapon and propyzamide applied: 2 Nov. N applied: 20 Feb, 1980. 'Benazolox' applied: 29 Feb. Desiccant applied: 25 July. Combine harvested: 23 July. Previous crops: Winter oilseed rape 1978 and 1979.

- NOTES: (1) The crop was damaged by sparrows shortly before maturity and despite hand harvesting the grain yields presented reflect considerable loss from this cause. Straw yields were not affected and are presented as better indicators of the effects of treatments on crop growth.
- (2) Diseases were assessed monthly from Nov to July. Growth analysis measurements were made on 23 Apr, 15 May and 23 July.

80/R/RA/2

GRAIN TONNES/HECTARE

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

TREATMNT	
NONE	0.91
W DINOS	1.28
W LINUR	0.84
W PARAQ	0.96
W GLYPH	1.03
F BEN+TH	1.26
F TRIAD	1.13
F THIAB	0.72
F IPROD	0.88
MEAN	0.99

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

TABLE	TREATMNT
SED	0.228 MIN REP 0.197 MAX-MIN

TREATMNT
MAX-MIN NONE V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.228	23.0

STRAW TONNES/HECTARE

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

TREATMNT	
NONE	4.85
W DINOS	5.89
W LINUR	4.47
W PARAQ	5.75
W GLYPH	4.84
F BEN+TH	6.28
F TRIAD	7.28
F THIAB	4.07
F IPROD	5.01
MEAN	5.33

PLOT AREA HARVESTED 0.000005