Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1988



Full Table of Content

88/R/RA/4 Times and Methods of Harvest - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (1989) 88/R/RA/4 Times and Methods of Harvest - W. Oilseed Rape; Yields Of The Field Experiments 1988, pp 223 - 225 - DOI: https://doi.org/10.23637/ERADOC-1-43

88/R/RA/4

WINTER OILSEED RAPE

TIMES AND METHODS OF HARVEST

Object: To investigate the effects of fungicide and times and methods of harvest on the yield and glucosinolate content of the seed -Whittlocks.

Sponsors: C.J. Rawlinson, G.F.J. Milford.

Design: 4 blocks of 2 whole plots each split into 2 sub-plots each split

into 3 sub-sub-plots plus 24 extra sub-sub-plots.

Whole plot dimensions: 78.0 x 14.0.

Treatments: All combinations of:-

Whole plots

FUNGCIDE Fungicide at stem extension:

NONE None

PROCHLOR Prochloraz at 0.50 kg in 200 l on 11 Apr, 1988

Sub plots

2. HAR METH Method of harvest:

DESICATE Desiccated with diquat SWATHE Swathed before combining

Sub sub plots

3. HAR TIME Time of harvest:

EARLY 20 July, 1988 NORMAL 28 July LATE 2 Aug

plus eight extra sub plots, to test combining direct, without prior treatment, within FUNGCIDE, each divided into 3 sub sub plots for the intended test of HAR TIME. Conditions did not permit the sub sub plot test so this became:

FUNG DIR

No prochloraz, combined direct, no prior treatment,

harvested late (12 sub sub plots)

PROCHLOR Prochloraz at 0.50 kg in 200 1, combined direct, no

prior treatment, harvested late (12 sub sub

plots)

88/R/RA/4

- NOTES: (1) The HAR METH DESICATE plots were desiccated on 12 July, 1988
 19 July and 1 Aug respectively for early, normal and late
 HAR TIME using diquat at 0.60 kg ion with a wetting agent
 ('Enhance' at 0.50 1) in 520 1.
 - (2) The HAR METH SWATHE plots were swathed on the same dates on which desiccation was done.

Basal applications: Manures: 'Nitram' at 140 kg and later at 720 kg.
Weedkillers: Paraquat at 0.40 kg ion in 200 l. Metazachlor at 1.2 kg
in 200 l.

Seed: Ariana, dressed gamma HCH, thiram and fenpropimorph, sown at 8.0 kg.

Cultivations, etc.:- Paraquat applied: 8 Sept, 1987. First N applied, heavy spring-tine cultivated: 14 Sept. Rotary harrowed: 15 Sept. Seed sown: 16 Sept. Metazachlor applied: 1 Oct. Second N applied: 19 Feb, 1988. Previous crops: W. wheat 1986, w. barley 1987.

NOTE: Seed samples were taken frequently from early July until harvest for glucosinolate analysis. Disease assessments were made on several occasions during July and August.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

HAR METH	DESICATE	SWATHE	Mean	
FUNGCIDE				
NONE	2.23	1.90	2.07	
PROCHLOR	2.50	2.15	2.33	
Mean	2.36	2.03	2.20	
HAR TIME	EARLY	NORMAL	LATE	Mean
FUNGCIDE				
NONE	1.91	2.13	2.16	2.07
PROCHLOR	2.18	2.40	2.40	2.33
Mean	2.04	2.27	2.28	2.20
HAR TIME	EARLY	NORMAL	LATE	Mean
HAR METH				
DESICATE	2.13	2.47	2.49	2.36
SWATHE	1.95	2.06	2.07	2.03
Mean	2.04	2.27	2.28	2.20
FUNGCIDE HAR N	ETH HAR TIM	E EARLY	NORMAL	LATE
NONE DESIG	CATE	2.03	2.28	2.37
	ATHE	1.78	1.98	1.95
PROCHLOR DESIG	CATE	2.23	2.66	2.61
SWA	ATHE	2.13	2.15	2.18
FUNG DIR	0 PROCE		AN	
	2.39	2.55 2.4	47	
GRAND MEAN	2.29			

88/R/RA/4

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

	HAR METH	HAR TIME	FUNGCIDE* HAR METH
	0.053	0.105	0.075
	FUNGCIDE*	HAR METH	FUNGCIDE*
	HAR TIME	HAR TIME	HAR METH
			HAR TIME
	0.148	0.132	0.186
Except when compar HAR METH	ring means	with the same 0.148	level(s) of
FUNGCIDE.HAR METH	I		0.209

^{*} Within the same level of FUNGCIDE

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

Stratum	d.f.	s.e.	CV%
BLOCK.WP.SP	12	0.105	4.6
BLOCK.WP.SP.SSP	40	0.296	12.9

GRAIN MEAN DM% 69.1

SUB PLOT AREA HARVESTED **HAR METH** SWATHE 0.00518 OTHERS 0.00322