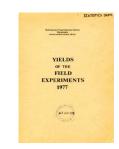
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Yields of the Field Experiments 1977



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77/R/CS/193 Effects of Pathogens - Oilseed Rape

Rothamsted Research

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EFFECTS OF PATHOGENS

Object: To study the effects and interactions of several factors on yield and pathogens of winter oilseed rape - Summerdells I.

Sponsor: C.J. Rawlinson.

The second year, winter oilseed rape.

For previous year see 76/R/RA/1.

Design: Two replicates of 3 x 2 x 2 x 2 fully randomised.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

WEEDKLLR Weedkillers:

PROPYZAM Propyzamide (none in 1976)
CARBETAM Carbetamide in 1976 & 1977
DALAPON Dalapon in 1976 & 1977

2. NEMACIDE Nematicide (cumulative):

NONE None

ALDICARB Aldicarb at 10 kg on 20 Sept, 1976

3. FUNGCIDE Fungicide (cumulative):

NONE None

BENOMYL Benomyl seed dressing and foliar sprays

4. VARIETY Varieties (cumulative):

EURORA Eurora (low erucic acid)
VICTOR Victor (high erucic acid)

NOTES: (1) Weedkillers were applied in 340 l. Propyzamide at 0.65 kg, carbetamide at 2.0 kg and dalapon at 3.0 kg on 10 Dec, 1976.

(2) Benomyl foliar sprays were applied at 1.12 kg in 340 1 on 7 Jan, 1977 and 15 Apr.

(3) Benomyl seed dressing was applied at 0.5 g per kg of seed.

Basal applications: Manures: (10:24:24) at 310 kg, 'Nitro-Chalk' at 800 kg. Haulm desiccant: Diquat at 0.59 kg ion plus 'Agral' (a wetting agent) at 0.3 l in 340 l.

Seed: Eurora, sown at 13 kg. Victor, sown at 16 kg.

Cultivations, etc.:- Deep-tine cultivated: 1 Sept, 1976. NPK applied: 3 Sept. Ploughed, rolled: 8 Sept. Harrowed: 21 Sept. Rolled and seed sown: 22 Sept. N applied: 7 Mar, 1977. Haulm desiccant applied: 4 Aug. Combine harvested: 12 Aug.

NOTES: (1) Seedling counts were made and foliar pathogens assessed on three occasions.

(2) Owing to combine failure, yields from two plots were lost, those with treatment combinations:-

WEEDKLLR NEMACIDE VARIETY FUNGCIDE

DALAPON NONE EURORA NONE
CARBETAM ALDICARB EURORA BENOMYL

Estimated values were used in the analysis.

(3) Nine plots were severely damaged by pigeon grazing in early spring. Examination of the grain yields from these plots suggested that yields were little affected, and estimated values were not used in the analysis.

GRAIN TONNES/HECTARE

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

**	* TABLES OF	MEANS **	***		
	NEMACIDE	NONE	ALDICARE	MEAN	V
	WEEDKLLR				
	PROPYZAM	2.47	1 02	2.20)
			1.93		
	CARBETAM	1.95			
	DALAPON	1.79	1.93	1.86	5
	MEAN	2.07	1.83	1.95	5
	FUNGCI DE WEEDKLLR	NONE	BENOMYL	MEAN	V
		2 21	0 10	2 2	
	PROPYZAM	2.21	2.19	2.20	
	CARBETAM	1.98	1.59		
	DALAPON	2.06	1.66	1.86	5
	MEAN	2.08	1.81	1.95	5
	FUNGCIDE	NONE	BENOMYL	MEAN	1
	NEMACIDE				
	NONE	2.18			7
	ALDICARB	1.99	1.66	1.83	3
	MEAN	2.08	1.81	1.95	5
	VARIETY	EURORA	VICTOR	MEAN	1
	WEEDKLLR				
	PROPYZAM	1.82	2.59	2.20)
	CARBETAM	1.45	2.11	1.78	3
	DALAPON	1.22	2.51		
	MEAN	1.49	2.40	1.95	5
	VARIETY	EURORA	VICTOR	MEAN	1
	NEMACIDE				
	NONE	1.62	2.52		
	ALDICARB	1.37	2.28	1.83	3
	MEAN	1.49	2.40	1.95	5
	VARIETY	EURORA	VICTOR	MEAN	1
	FUNGCIDE	1 55	0 (0	0.00	2
	NONE	1.55	2.62	2.08	
	BENOMYL	1.44	2.18	1.8	1
	MEAN	1.49	2.40	1.95	5
	NEMACIDE FUNGCIDE	NONE NONE	BENOMYL	ALDICARB NONE	BENOMYL
	WEEDKLLR PROPYZAM	2.44	2.51	1.99	1.87
	CARBETAM	2.04	1.86	1.91	1.31
	DALAPON	2.06	1.51	2.06	1.81
	NEMACI DE VARIETY	NONE EURORA	VICTOR A	ALDICARB EURORA	VICTOR
	WEEDKLLR		2 000		
	PROPYZAM	2.04	2.91	1.59	2.27
	CARBETAM	1.64	2.27	1.26	1.96
	DALAPON	1.19	2.39	1.24	2.63

GRAIN TONNES/HECTARE

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

	IADLES U	MEANS """					
	FUNCCIDE	NONE		REMOMVI			
	VARTETY	NONE EURORA	VTCTOR	FIIRORA	VICTOR		
	WEEDKLLR	Domorat	*101011	Donon	VICTOR		
	PROPYZAM	1.65	2.77	1.98	2.41		
	CARBETAM	1.46	2.50	1.44	1.73		
	DALAPON	1.52	2.61	0.91	2.41		
		NONE		BENOMYL	,		
	VARIETY	EURORA	VICTOR	EURORA	VICTOR		
	NEMACIDE	1 (0	0 (0	4 50			
	NONE	1.68	2.69	1.56	2.36		
	ALDICARB	1.41	2.50	1.32	2.01		
		FUNGCIDE	NONE		BENOMYL		
		VARTETY	FITEODA	VICTOR	EURORA	T/T CTOP	
	MEEDALID	NEMACIDE	LUNUNA	VICTOR	LUNUNA	VICTOR	
	PROPYZAM		1 88	2 00	2 10	2 02	
	FROF IZAM	AT DTCADD	1 113	3.00	2.19	2.03	
	CADDDEMAM	ALDICARB NONE ALDICARB	1.43	2.55	1./0	1.99	
	CARBETAM	NONE	1.44	2.64	1.83	1.89	
		ALDICARB	1.48	2.35	1.04	1.58	
	DALAPON	NONE	1.72	2.41	0.67	2.36	
		ALDICARB	1.33	2.80	1.16	2.45	
****	STANDARD	ERRORS OF	DIFFEREN	ICES OF M	EANS ****	*	
TABLE		WEEDKLL	R NEM	MACIDE	FUNGCIDE	VARIE	TY
SED		0.14	4	0.117	0.117	0.1	17
TABLE		ו שביביות ו	D LIEE	מז דעתי	MEMACT DE	LIEDDA	T D
IADLE		NEMACID	n wer	COLDE	NEMACIDE		
		NEMACLD	E FUR	GCIDE	FUNGCIDE	VARIE	TI
SED		0.20	3	0.203	0.166	0.2	03
TABLE		NEMACTO	e em	ICCIDE	WEEDKLLR	HEEDNI	T D
INDUL		VARIET		RIETY	NEMACIDE	WEEDAL	
		VANIEL	I VE	IUTEII			
					FUNGCIDE	VARIE	TY
SED		0.166 0.		0.166	0.288	0.2	88
TABLE		WEEDKLL	R NEW	AACTDE	WEEDKLLR		
INDUL		FUNGCID					
				GCIDE	NEMACIDE		
		VARIET	Y VA	RIETY	FUNGCIDE		
					VARIETY		
SED		0.28	8	0.235	0.407		
****	STRATUM S	STANDARD ER	RORS AND	COEFFIC	IENTS OF V	VARIATION	***
STRAT	JM		DF		SE	CV%	
WP			22				
***	ACTION TO THE	06.6	22	0.4	01	20.9	
GRAIN	MEAN DM%	86.2					
PI OT A	DEV HVDILL	ESTED 0.00	270				
LLUI	IVARI MARVE	WIED 0.00	219				