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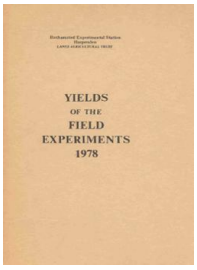
Yields of the Field Experiments 1978

Full Table of Content



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

Rothamsted Research

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78/R/CS/193

EFFECTS OF PATHOGENS

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

Sponsor: C.J. Rawlinson.

The third year, winter oilseed rape.

For previous years see 76/R/RA/1 and 77/R/CS/193.

Design: Single replicate of 2 x 2 x 3 x 2 x 2.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

1. VARIETY(78)	Varieties (cumulative 1976-1978):
EURORA	Eurora (low erucic acid)
VICTOR	Victor (high erucic acid)
2. BEN SD(78)	Benomyl seed dressing (1978 only) g/kg seed:
0	
5	
3. BEN FOL(78)	Benomyl foliar spray (1978 only) kg:
0	None
1.1	Single application of 1.1 on 10 Feb 1978
2.2	Two applications of 1.1 on 10 Feb and 28 Apr
4. BEN(77)	Benomyl (cumulative 1976 and 1977):
0	None
SD+FOL	Seed dressing + foliar sprays
5. NEMACIDE(77)	Nematicide (cumulative 1976 and 1977):
NONE	None
ALDICARB	Aldicarb at 10 kg to seedbed

NOTE: Benomyl foliar sprays were applied in 340 l.

Basal applications: Manures: (10:24:24) at 310 kg, 'Nitro-chalk 25' at 800 kg. Weedkillers: Dalapon at 0.95 kg with propyzamide at 0.56 kg in 220 l. Haulm desiccant: Diquat at 0.69 kg ion plus 'Agral' (a wetting agent) at 0.3 l in 220 l.

Seed: Sown at 13 kg.

Cultivations, etc.:- Ploughed: 18 Aug, 1977. NPK applied: 30 Aug. Heavy spring-tine cultivated: 31 Aug. Power harrowed and harrowed: 5 Sept. Seed sown and harrowed in: 6 Sept. Weedkillers applied: 18 Oct. N applied: 6 Mar, 1978. Haulm desiccant applied: 4 Aug. Combine harvested: 13 Aug.

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NOTES: (1) Emergence counts were made in September, 1977.
(2) The experiment was severely grazed by pigeons but damage by March, 1978 was considered to be uniform on all plots.
(3) Disease assessments were made in November, 1977 and June, 1978.

GRAIN TONNES/HECTARE

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

BEN SD(78)	0	5	MEAN
VARIETY(78)			
EURORA	2.04	2.12	2.08
VICTOR	2.67	2.58	2.63
MEAN	2.36	2.35	2.35

BEN FOL(78)	0	1.1	2.2	MEAN
VARIETY(78)				
EURORA	1.82	2.15	2.28	2.08
VICTOR	2.48	2.63	2.77	2.63
MEAN	2.15	2.39	2.52	2.35

BEN FOL(78)	0	1.1	2.2	MEAN
BEN SD(78)				
0	2.16	2.32	2.59	2.36
5	2.14	2.46	2.45	2.35
MEAN	2.15	2.39	2.52	2.35

NEMACIDE(77)	NONE	ALDICARB	MEAN
VARIETY(78)			
EURORA	2.08	2.08	2.08
VICTOR	2.63	2.62	2.63
MEAN	2.36	2.35	2.35

NEMACIDE(77)	NONE	ALDICARB	MEAN
BEN SD(78)			
0	2.37	2.35	2.36
5	2.35	2.35	2.35
MEAN	2.36	2.35	2.35

NEMACIDE(77)	NONE	ALDICARB	MEAN
BEN FOL(78)			
0	2.16	2.14	2.15
1.1	2.38	2.40	2.39
2.2	2.53	2.51	2.52
MEAN	2.36	2.35	2.35

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GRAIN TONNES/HECTARE

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

BEN(77)	0	SD+FOL	MEAN
VARIETY(78)			
EURORA	2.00	2.16	2.08
VICTOR	2.57	2.68	2.63
MEAN	2.29	2.42	2.35

BEN(77)	0	SD+FOL	MEAN
BEN SD(78)			
0	2.27	2.45	2.36
5	2.31	2.39	2.35
MEAN	2.29	2.42	2.35

BEN(77)	0	SD+FOL	MEAN
BEN FOL(78)			
0	2.03	2.27	2.15
1.1	2.38	2.40	2.39
2.2	2.45	2.59	2.52
MEAN	2.29	2.42	2.35

BEN(77)	0	SD+FOL	MEAN
NEMACIDE(77)			
NONE	2.30	2.41	2.36
ALDICARB	2.27	2.43	2.35
MEAN	2.29	2.42	2.35

BEN SD(78)	0			5		
BEN FOL(78)	0	1.1	2.2	0	1.1	2.2
VARIETY(78)						
EURORA	1.74	2.06	2.32	1.89	2.24	2.23
VICTOR	2.58	2.58	2.86	2.39	2.69	2.68

BEN SD(78)	0		5	
BEN(77)	0	SD+FOL	0	SD+FOL
VARIETY(78)				
EURORA	1.95	2.13	2.05	2.18
VICTOR	2.58	2.76	2.56	2.61

BEN FOL(78)	0		1.1		2.2	
BEN(77)	0	SD+FOL	0	SD+FOL	0	SD+FOL
VARIETY(78)						
EURORA	1.66	1.97	2.15	2.15	2.19	2.36
VICTOR	2.40	2.57	2.61	2.66	2.71	2.83

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GRAIN TONNES/HECTARE

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

BEN FOL(78)	0		1.1		2.2	
BEN(77)	0	SD+FOL	0	SD+FOL	0	SD+FOL
BEN SD(78)						
0	2.11	2.21	2.13	2.52	2.57	2.62
5	1.95	2.33	2.64	2.28	2.33	2.57

BEN SD(78)	0		5	
NEMACIDE(77)	NONE	ALDICARB	NONE	ALDICARB
VARIETY(78)				
EURORA	2.07	2.02	2.09	2.14
VICTOR	2.67	2.68	2.60	2.57

BEN FOL(78)	0		1.1		2.2	
NEMACIDE(77)	NONE	ALDICARB	NONE	ALDICARB	NONE	ALDICARB
VARIETY(78)						
EURORA	1.80	1.83	2.11	2.19	2.33	2.22
VICTOR	2.52	2.44	2.65	2.62	2.73	2.81

BEN FOL(78)	0		1.1		2.2	
NEMACIDE(77)	NONE	ALDICARB	NONE	ALDICARB	NONE	ALDICARB
BEN SD(78)						
0	2.08	2.24	2.32	2.32	2.70	2.48
5	2.25	2.03	2.44	2.49	2.36	2.54

BEN(77)	0		SD+FOL	
NEMACIDE(77)	NONE	ALDICARB	NONE	ALDICARB
VARIETY(78)				
EURORA	2.04	1.97	2.13	2.19
VICTOR	2.57	2.58	2.70	2.67

BEN(77)	0		SD+FOL	
NEMACIDE(77)	NONE	ALDICARB	NONE	ALDICARB
BEN SD(78)				
0	2.30	2.24	2.44	2.46
5	2.31	2.31	2.39	2.40

BEN(77)	0		SD+FOL	
NEMACIDE(77)	NONE	ALDICARB	NONE	ALDICARB
BEN FOL(78)				
0	2.00	2.06	2.33	2.21
1.1	2.44	2.32	2.32	2.49
2.2	2.47	2.43	2.60	2.59

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GRAIN TONNES/HECTARE

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

TABLE	VARIETY(78)	BEN SD(78)	BEN FOL(78)	BEN(77)
SED	0.065	0.065	0.080	0.065

TABLE	NEMACIDE(77)	VARIETY(78) BEN SD(78)	VARIETY(78) BEN FOL(78)	BEN SD(78) BEN FOL(78)
SED	0.065	0.092	0.113	0.113

TABLE	VARIETY(78) BEN(77)	BEN SD(78) BEN(77)	BEN FOL(78) BEN(77)	VARIETY(78) NEMACIDE(77)
SED	0.092	0.092	0.113	0.092

TABLE	BEN SD(78) NEMACIDE(77)	BEN FOL(78) NEMACIDE(77)	BEN(77) NEMACIDE(77)	VARIETY(78) BEN SD(78) BEN FOL(78)
SED	0.092	0.113	0.092	0.160

TABLE	VARIETY(78) BEN SD(78) BEN(77)	VARIETY(78) BEN FOL(78) BEN(77)	BEN SD(78) BEN FOL(78) BEN(77)	VARIETY(78) BEN SD(78) NEMACIDE(77)
SED	0.130	0.160	0.160	0.130

TABLE	VARIETY(78) BEN FOL(78) NEMACIDE(77)	BEN SD(78) BEN FOL(78) NEMACIDE(77)	VARIETY(78) BEN(77) NEMACIDE(77)	BEN SD(78) BEN(77) NEMACIDE(77)
SED	0.160	0.160	0.130	0.130

TABLE	BEN FOL(78) BEN(77) NEMACIDE(77)
SED	0.160

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

STRATUM	DF	SE	CV%
WP	11	0.226	9.6

GRAIN MEAN DM% 83.3

PLOT AREA HARVESTED 0.00279

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