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Yields of the Field Experiments 1977

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77/R/CS/201 Factors Affecting Yield - Beans

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77/R/CS/201

FACTORS AFFECTING YIELD

Object: To study the effects of a range of factors on pests, diseases, nitrogen fixation and yield of field beans - Pastures.

Sponsors: R. Bardner, G.G. Briggs, A.J. Cockbain, J.M. Day, K.E. Fletcher, B.J. Legg, J. McEwen, R.J. Roughley, G.A. Salt, H.R. Simpson, R.M. Webb, J.F. Witty.

The first year, field beans.

Design: Half replicate of 2^8 in 8 blocks of 2 plots split into 8.

Whole plot dimensions: 10.4 x 57.6.

Treatments: Combinations of:-

Whole plots

1. IRRIGTN	Irrigation:
NONE	None
FULL	Full (119 mm)

Sub plots

2. N	Nitrogen fertiliser at flowering (kg N):
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0
150

3. ALDICARB	Aldicarb to seedbed (kg):
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0
10

4. FONOFOS	Fonofos to seedbed (kg):
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0
5

5. BENOMYL(1)	Benomyl to seedbed (kg):
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0
32

6. PERMETH	Permethrin foliar spray (kg):
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0.00 0.00
0.15 0.15 on 18 May and 21 June

7. PIRIMICA	Pirimicarb foliar spray (kg)
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0.00 0.00
0.14 0.14 on 9 June and 4 July

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8. BENOMYL(2) Benomyl foliar spray (kg):

0.0	0.0
0.6	0.6 on 4 July

NOTES: (1) Sprays were applied in 340 l.

(2) Irrigation treatments (mm water):

2 July	25
11 July	25
16 July	25
22 July	25
30 July	<u>19</u>
Total	119

(3) N at flowering was applied to half of the plots on 1 July and to the remainder on 5 July.

Basal applications: Manures: Chalk at 7.5 t. FYM at 20 t. Weedkiller: Simazine at 1.1 kg in 220 l. Insecticide: Pirimicarb at 0.14 kg in 280 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: - Chalk applied: 1 Sept, 1976. FYM applied: 16 Sept. Ploughed: 17 Sept. Heavy spring-tine cultivated: 7 Mar, 1977. Spike rotary cultivated: 6 Apr. Seed sown: 7 Apr. Weedkiller applied: 15 Apr. Basal insecticide applied: 19 July. Combine harvested IRRIGTN NONE plots: 30 Sept. Combine harvested IRRIGTN FULL plots: 11 Oct. Previous crops: Wheat 1975, barley 1976.

NOTE: Plant counts were made after establishment and again before harvest. Total above-ground dry matter and nitrogen percentages were measured on three occasions. Components of yield were measured before harvest. Amounts of nodular material and nitrogenase activity were measured on two occasions. Ectoparasitic nematodes, root and foliar fungi, aphids, weevils and viruses were counted at intervals during the season. Amounts of aldicarb and benomyl in soil and plants were measured at intervals. Nitrogen percentages of grain were measured.

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GRAIN TONNES/HECTARE

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

ALDICARB	0	10	MEAN
N			
0	4.43	4.74	4.59
150	4.44	4.86	4.65
MEAN	4.44	4.80	4.62
FONOFOS	0	5	MEAN
N			
0	4.57	4.60	4.59
150	4.60	4.70	4.65
MEAN	4.59	4.65	4.62
FONOFOS	0	5	MEAN
ALDICARB			
0	4.37	4.51	4.44
10	4.80	4.80	4.80
MEAN	4.59	4.65	4.62
BENOMYL(1)	0	32	MEAN
N			
0	4.52	4.65	4.59
150	4.63	4.68	4.65
MEAN	4.57	4.67	4.62
BENOMYL(1)	0	32	MEAN
ALDICARB			
0	4.34	4.53	4.44
10	4.80	4.80	4.80
MEAN	4.57	4.67	4.62
BENOMYL(1)	0	32	MEAN
FONOFOS			
0	4.62	4.55	4.59
5	4.52	4.79	4.65
MEAN	4.57	4.67	4.62
PERMETH	0.00	0.15	MEAN
N			
0	4.52	4.65	4.59
150	4.55	4.75	4.65
MEAN	4.54	4.70	4.62
PERMETH	0.00	0.15	MEAN
ALDICARB			
0	4.28	4.60	4.44
10	4.80	4.80	4.80
MEAN	4.54	4.70	4.62

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GRAIN TONNES/HECTARE

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

PERMETH	0.00	0.15	MEAN
FONOFOS			
0	4.50	4.67	4.59
5	4.57	4.73	4.65
MEAN	4.54	4.70	4.62
PERMETH	0.00	0.15	MEAN
BENOMYL(1)			
0	4.48	4.66	4.57
32	4.60	4.74	4.67
MEAN	4.54	4.70	4.62
PIRIMICA	0.00	0.14	MEAN
N			
0	4.55	4.62	4.59
150	4.61	4.70	4.65
MEAN	4.58	4.66	4.62
PIRIMICA	0.00	0.14	MEAN
ALDICARB			
0	4.38	4.50	4.44
10	4.78	4.82	4.80
MEAN	4.58	4.66	4.62
PIRIMICA	0.00	0.14	MEAN
FONOFOS			
0	4.54	4.63	4.59
5	4.62	4.68	4.65
MEAN	4.58	4.66	4.62
PIRIMICA	0.00	0.14	MEAN
BENOMYL(1)			
0	4.50	4.64	4.57
32	4.66	4.67	4.67
MEAN	4.58	4.66	4.62
PIRIMICA	0.00	0.14	MEAN
PERMETH			
0.00	4.46	4.62	4.54
0.15	4.70	4.69	4.70
MEAN	4.58	4.66	4.62
BENOMYL(2)	0.0	0.6	MEAN
N			
0	4.44	4.73	4.59
150	4.49	4.81	4.65
MEAN	4.47	4.77	4.62

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GRAIN TONNES/HECTARE

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

BENOMYL(2)	0.0	0.6	MEAN	
ALDICARB				
0	4.27	4.60	4.44	
10	4.66	4.94	4.80	
MEAN	4.47	4.77	4.62	
BENOMYL(2)	0.0	0.6	MEAN	
FONOFOS				
0	4.46	4.71	4.59	
5	4.47	4.84	4.65	
MEAN	4.47	4.77	4.62	
BENOMYL(2)	0.0	0.6	MEAN	
BENOMYL(1)				
0	4.39	4.75	4.57	
32	4.54	4.79	4.67	
MEAN	4.47	4.77	4.62	
BENOMYL(2)	0.0	0.6	MEAN	
PERMETH				
0.00	4.41	4.67	4.54	
0.15	4.53	4.87	4.70	
MEAN	4.47	4.77	4.62	
BENOMYL(2)	0.0	0.6	MEAN	
PIRIMICA				
0.00	4.47	4.69	4.58	
0.14	4.46	4.86	4.66	
MEAN	4.47	4.77	4.62	
ALDICARB	0		10	
FONOFOS	0	5	0	5
N				
0	4.35	4.52	4.79	4.69
150	4.39	4.50	4.82	4.90
ALDICARB	0		10	
BENOMYL(1)	0	32	0	32
N				
0	4.34	4.53	4.69	4.78
150	4.34	4.54	4.91	4.82
FONOFOS	0		5	
BENOMYL(1)	0	32	0	32
N				
0	4.57	4.56	4.46	4.74
150	4.68	4.53	4.58	4.83

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GRAIN TONNES/HECTARE

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

FONOFOS	0		5	
BENOMYL(1)	0	32	0	32
ALDICARB				
0	4.40	4.34	4.29	4.73
10	4.85	4.75	4.75	4.84
ALDICARB	0		10	
PERMETH	0.00	0.15	0.00	0.15
N				
0	4.32	4.55	4.73	4.74
150	4.24	4.65	4.87	4.86
FONOFOS	0		5	
PERMETH	0.00	0.15	0.00	0.15
N				
0	4.49	4.64	4.56	4.65
150	4.52	4.69	4.59	4.82
FONOFOS	0		5	
PERMETH	0.00	0.15	0.00	0.15
ALDICARB				
0	4.19	4.54	4.37	4.66
10	4.81	4.79	4.78	4.81
BENOMYL(1)	0		32	
PERMETH	0.00	0.15	0.00	0.15
N				
0	4.56	4.48	4.49	4.81
150	4.41	4.85	4.70	4.66
BENOMYL(1)	0		32	
PERMETH	0.00	0.15	0.00	0.15
ALDICARB				
0	4.18	4.50	4.37	4.69
10	4.78	4.82	4.82	4.78
BENOMYL(1)	0		32	
PERMETH	0.00	0.15	0.00	0.15
FONOFOS				
0	4.53	4.72	4.48	4.61
5	4.44	4.60	4.71	4.86
ALDICARB	0		10	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	4.35	4.52	4.76	4.71
150	4.42	4.47	4.80	4.92

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GRAIN TONNES/HECTARE

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

FONOFOS	0		5	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	4.52	4.62	4.59	4.62
150	4.57	4.64	4.65	4.75
FONOFOS	0		5	
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	4.31	4.42	4.45	4.57
10	4.77	4.84	4.79	4.80
BENOMYL(1)	0		32	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	4.46	4.58	4.65	4.65
150	4.54	4.71	4.67	4.69
BENOMYL(1)	0		32	
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	4.28	4.40	4.48	4.59
10	4.72	4.88	4.84	4.75
BENOMYL(1)	0		32	
PIRIMICA	0.00	0.14	0.00	0.14
FONOFOS				
0	4.53	4.72	4.55	4.54
5	4.48	4.57	4.77	4.80
PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	4.47	4.58	4.63	4.66
150	4.44	4.66	4.77	4.73
PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	4.15	4.40	4.61	4.59
10	4.76	4.83	4.80	4.80
PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
FONOFOS				
0	4.43	4.58	4.65	4.68
5	4.49	4.66	4.75	4.71

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GRAIN TONNES/HECTARE

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

PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
BENOMYL(1)				
0	4.33	4.64	4.67	4.65
32	4.59	4.60	4.73	4.74
ALDICARB	0		10	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	4.27	4.60	4.61	4.86
150	4.28	4.61	4.71	5.02
FONOFOS	0		5	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	4.45	4.68	4.43	4.78
150	4.47	4.73	4.51	4.89
FONOFOS	0		5	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	4.24	4.50	4.31	4.71
10	4.68	4.92	4.63	4.96
BENOMYL(1)	0		32	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	4.31	4.73	4.57	4.74
150	4.47	4.78	4.51	4.85
BENOMYL(1)	0		32	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	4.13	4.56	4.42	4.65
10	4.65	4.95	4.66	4.93
BENOMYL(1)	0		32	
BENOMYL(2)	0.0	0.6	0.0	0.6
FONOFOS				
0	4.46	4.79	4.46	4.63
5	4.32	4.72	4.62	4.95
PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	4.38	4.67	4.49	4.80
150	4.43	4.68	4.56	4.95

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

PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	4.20	4.36	4.35	4.85
10	4.62	4.98	4.70	4.90
PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
FONOFOS				
0	4.47	4.54	4.46	4.88
5	4.35	4.80	4.59	4.87
PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
BENOMYL(1)				
0	4.34	4.62	4.44	4.88
32	4.47	4.72	4.61	4.86
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	4.49	4.62	4.39	4.84
150	4.46	4.76	4.53	4.87
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	4.30	4.47	4.25	4.74
10	4.65	4.91	4.67	4.97
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
FONOFOS				
0	4.39	4.69	4.53	4.73
5	4.55	4.69	4.39	4.98
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
BENOMYL(1)				
0	4.44	4.56	4.34	4.95
32	4.50	4.82	4.58	4.76
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
PERMETH				
0.00	4.43	4.49	4.38	4.86
0.15	4.52	4.89	4.53	4.85

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GRAIN TONNES/HECTARE

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

TABLE	N	ALDICARB	FONOFOS	BENOMYL(1)
SED	0.060	0.060	0.060	0.060
TABLE	PERMETH	PIRIMICA	BENOMYL(2)	N ALDICARB
SED	0.060	0.060	0.060	0.085
TABLE	N FONOFOS	ALDICARB FONOFOS	N BENOMYL(1)	ALDICARB BENOMYL(1)
SED	0.085	0.085	0.085	0.085
TABLE	FONOFOS BENOMYL(1)	N PERMETH	ALDICARB PERMETH	FONOFOS PERMETH
SED	0.085	0.085	0.085	0.085
TABLE	BENOMYL(1) PERMETH	N PIRIMICA	ALDICARB PIRIMICA	FONOFOS PIRIMICA
SED	0.085	0.085	0.085	0.085
TABLE	BENOMYL(1) PIRIMICA	PERMETH PIRIMICA	N BENOMYL(2)	ALDICARB BENOMYL(2)
SED	0.085	0.085	0.085	0.085
TABLE	FONOFOS BENOMYL(2)	BENOMYL(1) BENOMYL(2)	PERMETH BENOMYL(2)	PIRIMICA BENOMYL(2)
SED	0.085	0.085	0.085	0.085

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	28	0.239	5.2

NOTE STANDARD ERRORS ARE ESTIMATED FROM 3 FACTOR AND HIGHER INTERACTIONS AND CONSEQUENTLY ARE NOT GIVEN FOR 3 WAY TABLES.

GRAIN MEAN DM% 80.0

SUB PLOT AREA HARVESTED 0.00293

77/R/CS/201 IRRIGATED PLOTS ONLY

GRAIN TONNES/HECTARE

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

ALDICARB	0	10	MEAN
N			
0	3.47	3.60	3.54
150	3.22	3.74	3.48
MEAN	3.35	3.67	3.51
FONOFOS	0	5	MEAN
N			
0	3.56	3.51	3.54
150	3.49	3.47	3.48
MEAN	3.53	3.49	3.51
FONOFOS ALDICARB	0	5	MEAN
0	3.37	3.32	3.35
10	3.68	3.66	3.67
MEAN	3.53	3.49	3.51
BENOMYL(1)	0	32	MEAN
N			
0	3.43	3.64	3.54
150	3.34	3.62	3.48
MEAN	3.39	3.63	3.51
BENOMYL(1) ALDICARB	0	32	MEAN
0	3.30	3.40	3.35
10	3.48	3.86	3.67
MEAN	3.39	3.63	3.51
BENOMYL(1) FONOFOS	0	32	MEAN
0	3.43	3.62	3.53
5	3.34	3.64	3.49
MEAN	3.39	3.63	3.51
PERMETH	0.00	0.15	MEAN
N			
0	3.54	3.54	3.54
150	3.43	3.53	3.48
MEAN	3.48	3.53	3.51
PERMETH ALDICARB	0.00	0.15	MEAN
0	3.24	3.46	3.35
10	3.73	3.60	3.67
MEAN	3.48	3.53	3.51

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GRAIN TONNES/HECTARE

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

PERMETH	0.00	0.15	MEAN
FONOFOS			
0	3.52	3.53	3.53
5	3.45	3.53	3.49
MEAN	3.48	3.53	3.51
PERMETH	0.00	0.15	MEAN
BENOMYL(1)			
0	3.31	3.46	3.39
32	3.65	3.61	3.63
MEAN	3.48	3.53	3.51
PIRIMICA	0.00	0.14	MEAN
N			
0	3.51	3.56	3.54
150	3.39	3.57	3.48
MEAN	3.45	3.57	3.51
PIRIMICA	0.00	0.14	MEAN
ALDICARB			
0	3.28	3.42	3.35
10	3.62	3.72	3.67
MEAN	3.45	3.57	3.51
PIRIMICA	0.00	0.14	MEAN
FONOFOS			
0	3.47	3.58	3.53
5	3.43	3.55	3.49
MEAN	3.45	3.57	3.51
PIRIMICA	0.00	0.14	MEAN
BENOMYL(1)			
0	3.32	3.45	3.39
32	3.58	3.69	3.63
MEAN	3.45	3.57	3.51
PIRIMICA	0.00	0.14	MEAN
PERMETH			
0.00	3.29	3.67	3.48
0.15	3.60	3.46	3.53
MEAN	3.45	3.57	3.51
BENOMYL(2)	0.0	0.6	MEAN
N			
0	3.42	3.65	3.54
150	3.36	3.60	3.48
MEAN	3.39	3.63	3.51

77/R/CS/201 IRRIGATED PLOTS ONLY

GRAIN TONNES/HECTARE

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

BENOMYL(2)	0.0	0.6	MEAN	
ALDICARB				
0	3.22	3.48	3.35	
10	3.57	3.77	3.67	
MEAN	3.39	3.63	3.51	
BENOMYL(2)	0.0	0.6	MEAN	
FONOFOS				
0	3.44	3.61	3.53	
5	3.34	3.64	3.49	
MEAN	3.39	3.63	3.51	
BENOMYL(2)	0.0	0.6	MEAN	
BENOMYL(1)				
0	3.25	3.52	3.39	
32	3.53	3.73	3.63	
MEAN	3.39	3.63	3.51	
BENOMYL(2)	0.0	0.6	MEAN	
PERMETH				
0.00	3.35	3.62	3.48	
0.15	3.43	3.63	3.53	
MEAN	3.39	3.63	3.51	
BENOMYL(2)	0.0	0.6	MEAN	
PIRIMICA				
0.00	3.26	3.63	3.45	
0.14	3.52	3.62	3.57	
MEAN	3.39	3.63	3.51	
ALDICARB	0		10	
FONOFOS	0	5	0	5
N				
0	3.50	3.44	3.62	3.58
150	3.24	3.21	3.74	3.73
ALDICARB	0		10	
BENOMYL(1)	0	32	0	32
N				
0	3.44	3.51	3.42	3.78
150	3.16	3.29	3.53	3.94
FONOFOS	0		5	
BENOMYL(1)	0	32	0	32
N				
0	3.42	3.70	3.43	3.59
150	3.44	3.54	3.25	3.69

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GRAIN TONNES/HECTARE

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

FONOFOS	0		5	
BENOMYL(1)	0	32	0	32
ALDICARB				
0	3.37	3.38	3.23	3.42
10	3.50	3.86	3.45	3.86
ALDICARB	0		10	
PERMETH	0.00	0.15	0.00	0.15
N				
0	3.30	3.65	3.78	3.42
150	3.17	3.27	3.69	3.79
FONOFOS	0		5	
PERMETH	0.00	0.15	0.00	0.15
N				
0	3.51	3.61	3.56	3.46
150	3.53	3.46	3.33	3.60
FONOFOS	0		5	
PERMETH	0.00	0.15	0.00	0.15
ALDICARB				
0	3.33	3.42	3.14	3.50
10	3.71	3.65	3.75	3.56
BENOMYL(1)	0		32	
PERMETH	0.00	0.15	0.00	0.15
N				
0	3.09	3.76	3.98	3.31
150	3.53	3.15	3.33	3.91
BENOMYL(1)	0		32	
PERMETH	0.00	0.15	0.00	0.15
ALDICARB				
0	3.04	3.55	3.43	3.37
10	3.59	3.36	3.88	3.84
BENOMYL(1)	0		32	
PERMETH	0.00	0.15	0.00	0.15
FONOFOS				
0	3.40	3.46	3.63	3.61
5	3.22	3.45	3.67	3.61
ALDICARB	0		10	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	3.46	3.48	3.56	3.64
150	3.09	3.36	3.68	3.79

77/R/CS/201 IRRIGATED PLOTS ONLY

GRAIN TONNES/HECTARE

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

FONOFOS	0		5	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	3.64	3.48	3.38	3.65
150	3.30	3.68	3.48	3.46
FONOFOS	0		5	
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	3.29	3.46	3.27	3.38
10	3.66	3.70	3.58	3.73
BENOMYL(1)	0		32	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	3.41	3.45	3.61	3.68
150	3.24	3.45	3.54	3.70
BENOMYL(1)	0		32	
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	3.15	3.45	3.41	3.39
10	3.50	3.45	3.74	3.98
BENOMYL(1)	0		32	
PIRIMICA	0.00	0.14	0.00	0.14
FONOFOS				
0	3.30	3.56	3.64	3.60
5	3.34	3.34	3.51	3.77
PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
N				
0	3.38	3.69	3.64	3.44
150	3.20	3.66	3.57	3.49
PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	2.89	3.58	3.67	3.26
10	3.70	3.77	3.54	3.67
PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
FONOFOS				
0	3.35	3.69	3.60	3.47
5	3.24	3.66	3.61	3.45

77/R/CS/201 IRRIGATED PLOTS ONLY

GRAIN TONNES/HECTARE

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

PERMETH	0.00		0.15	
PIRIMICA	0.00	0.14	0.00	0.14
BENOMYL(1)				
0	3.04	3.59	3.60	3.31
32	3.55	3.76	3.60	3.61
ALDICARB	0		10	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	3.25	3.69	3.59	3.60
150	3.18	3.27	3.54	3.94
FONOFOS	0		5	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	3.47	3.65	3.38	3.64
150	3.41	3.57	3.31	3.63
FONOFOS	0		5	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	3.28	3.47	3.16	3.49
10	3.60	3.76	3.53	3.78
BENOMYL(1)	0		32	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	3.38	3.48	3.47	3.82
150	3.13	3.55	3.58	3.65
BENOMYL(1)	0		32	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	3.14	3.46	3.30	3.50
10	3.37	3.58	3.76	3.96
BENOMYL(1)	0		32	
BENOMYL(2)	0.0	0.6	0.0	0.6
FONOFOS				
0	3.38	3.49	3.50	3.74
5	3.13	3.54	3.55	3.73
PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	3.37	3.70	3.48	3.60
150	3.33	3.53	3.39	3.67

77/R/CS/201 IRRIGATED PLOTS ONLY

GRAIN TONNES/HECTARE

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

PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	3.08	3.39	3.35	3.57
10	3.62	3.85	3.52	3.69
PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
FONOFOS				
0	3.22	3.81	3.66	3.41
5	3.48	3.42	3.21	3.85
PERMETH	0.00		0.15	
BENOMYL(2)	0.0	0.6	0.0	0.6
BENOMYL(1)				
0	3.21	3.42	3.30	3.62
32	3.48	3.82	3.57	3.65
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
N				
0	3.38	3.64	3.47	3.66
150	3.15	3.62	3.57	3.58
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
ALDICARB				
0	3.14	3.41	3.29	3.55
10	3.39	3.85	3.75	3.69
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
FONOFOS				
0	3.28	3.66	3.59	3.57
5	3.25	3.61	3.44	3.67
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
BENOMYL(1)				
0	3.24	3.41	3.27	3.63
32	3.29	3.86	3.77	3.61
PIRIMICA	0.00		0.14	
BENOMYL(2)	0.0	0.6	0.0	0.6
PERMETH				
0.00	3.11	3.48	3.59	3.76
0.15	3.42	3.79	3.45	3.48

77/R/CS/201 IRRIGATED PLOTS ONLY

GRAIN TONNES/HECTARE

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

TABLE	N	ALDICARB	FONOFOS	BENOMYL(1)
SED	0.097	0.097	0.097	0.097
TABLE	PERMETH	PIRIMICA	BENOMYL(2)	N ALDICARB
SED	0.097	0.097	0.097	0.137
TABLE	N FONOFOS	ALDICARB FONOFOS	N BENOMYL(1)	ALDICARB BENOMYL(1)
SED	0.137	0.137	0.137	0.137
TABLE	FONOFOS BENOMYL(1)	N PERMETH	ALDICARB PERMETH	FONOFOS PERMETH
SED	0.137	0.137	0.137	0.137
TABLE	BENOMYL(1) PERMETH	N PIRIMICA	ALDICARB PIRIMICA	FONOFOS PIRIMICA
SED	0.137	0.137	0.137	0.137
TABLE	BENOMYL(1) PIRIMICA	PERMETH PIRIMICA	N BENOMYL(2)	ALDICARB BENOMYL(2)
SED	0.137	0.137	0.137	0.137
TABLE	FONOFOS BENOMYL(2)	BENOMYL(1) BENOMYL(2)	PERMETH BENOMYL(2)	PIRIMICA BENOMYL(2)
SED	0.137	0.137	0.137	0.137

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	28	0.388	11.0

NOTE STANDARD ERRORS ARE ESTIMATED FROM 3 FACTOR AND HIGHER INTERACTIONS AND CONSEQUENTLY ARE NOT GIVEN FOR 3 WAY TABLES.

GRAIN MEAN DM% 68.2

SUB PLOT AREA HARVESTED 0.00293