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Summary of 1973 field experiments with advisers

M. L. Poole

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WESTERN AUSTRALIAN
DEPARTMENT OF AGRICULTURE

SUMMARY OF 1973 FIELD EXPERIMENTS

WITH ADVISERS

Research Officer: M.L. Poole, Plant Research Division.

SECTION I: Effect of times of planting x Benlate seed treatment on incidence of blackleg in Span and Zephyr rapeseed.

SECTION II: Rapeseed Variety Trials 1973 including times of planting.

INTRODUCTION

This report provides a record of two series of trials carried out in 1973.

The main results of these trials are put briefly below and those with only an idle interest in rapeseed research will gain little by going beyond this summary!

SUMMARY

Section I Effect of times of planting x Benlate seed treatment on incidence of blackleg in Span and Zephyr rapeseed.

A series of 12 trials were set up, mainly in the southern agricultural areas, near previous years rape stubble to give a high disease pressure. Disease pressure was so high in two of the Esperance trials that all treatments were lost soon after planting. Sandblast, weeds and vermin claimed several more trials. Four trials gave meaningful results with respect to the aims of the programme. These were at Duranillin, Mt. Barker, Green Range and Jerdacuttup.

Treatments were Span (*B. campestris*) and Zephyr (*B. napus*) rapeseed sown with and without a 1% Benlate seed pellet at three times of planting, June, July and August. The trials were sampled at peak flowering for blackleg stem cankers, the sample being divided into,

- (i) healthy stems,
- (ii) slightly cankered, and
- (iii) rotten all the way through.

Yields were taken at maturity. Main results were:

- (1) The benlate seed pellet at 1% had almost no effect on either amount or severity of cankering, or yield. (See summary table 1)
- (2) Time of planting had little effect on the amount or severity of cankering in most trials. The Mt. Barker trial did however show less severe cankering at later planting times. Observation showed less lodging at later planting times.
- (3) No particular time of planting was consistently better than any other with respect to yield from these trials. (Summary Table II)

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Summary Table 1
Time of Planting x Benlate pelleting for Blackleg Control

Stem Cankers - Percentages.

73JE4 Jerdacuttup	1st Top			2nd Top			3rd Top		
	0	1	2	0	1	2	0	1	2
Span	8	64	28	45	34	21	47	36	17
Span + pellet	8	61	31	49	37	14	51	35	14
Zephyr	24	38	38	57	32	11	20	58	22
Zephyr + pellet	18	44	38	54	36	10	22	61	17

73BR9 Duranillin	1st Top			2nd Top			3rd Top		
	0	1	2	0	1	2	0	1	2
Span	73	14	13	63	12	25	21	63	16
Span + pellet	75	14	11	64	14	22	18	70	12
Zephyr	37	43	20	18	58	24	failed		
Zephyr + pellet	48	37	15	24	49	26	failed		

73MT5 Mt. Barker R.S.	1st Top			2nd Top			3rd Top		
	0	1	2	0	1	2	0	1	2
Span	53	17	30	16	53	31	17	76	7
Span + pellet	52	21	27	23	56	21	18	75	7
Zephyr	16	53	30	6	80	14	31	56	13
Zephyr + pellet	11	51	38	9	76	15	37	54	9

73AL10 Green Range	1st Top			2nd Top			3rd Top		
	0	1	2	0	1	2	0	1	2
Span	45	17	38	50	33	17	Samples		
Span + pellet	57	15	28	58	30	12	Destroyed		
Zephyr	5	58	37	10	61	28	2	64	34
Zephyr + pellet	3	59	38	13	65	22	1	67	32

0 = no cankers

1 = slightly cankered, but still mostly healthy tissue.

2 = canker girdles stem, rotten all the way through.

.../3..

Summary Table 2.

Time of Planting x Benlate pelleting for Blackleg Control

Jerdacuttup Seed Yields - kg/ha.

Treatment	June	July	August
Span	194	179	145
Span + pellet	269	233	132
Zephyr	618	579	164
Zephyr + pellet.	687	687	145

Duranillin

Treatment	June	July	August
Span	568	344	Failed
Span+ pellet	621	449	
Zephyr	476	449	
Zephyr + pellet	452	449	

Mt. Barker

Treatment	June	July	August
Span	526	592	711
Span + pellet	544	634	753
Zephyr	861	1028	682
Zephyr + pellet	960	1150	756

Green Range

Treatment	June	July	August
Span	733	1129	1095
Span + pellet	806	1216	1073
Zephyr	1190	936	915
Zephyr + pellet	1042	1296	947

.../4..

Section II Rapeseed Variety Trials 1973 - Including Times of Planting. (See Summary Table III & IV)

Nineteen trials incorporating thirty times of planting were sown. Results were obtained from sixteen trials and 24 times of planting.

These trials were affected by blackleg to various degrees, and this combined with above normal variation due to site, vermin and the vagaries of headers make interpretation difficult. At best the trials show broad trends and certainly are not sufficiently sensitive to pick up fine differences between varieties. The following conclusions are drawn with some trepidation!

- (i) Within the two species, there were no convincing differences between varieties.
- (ii) Overall, there was little yield difference between the species, however at the individual trial level, the previous experience of better yields from *B. napus* when sown in higher rainfall areas with June and July planting was confirmed. Likewise the superior yield of *B. campestris* in lower rainfall areas and with late sowings in higher rainfall areas was reaffirmed.

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TABLE III
Summary - Rape Variety Trials - 1973

Trial No.	Location	1. Arlo	2. Span	3. Bele	Mean 1 - 3	4. Turret	5. Oro	6. Zephyr	Mean 4 - 6	Gamenya Wheat
73AL11(1)	Frankland	347	230	301	292	103	173	216	164	1864
73AL12(1)	Wellstead	472	329	383	395	654	583	573	603	250
73AL12(2)	Wellstead	486	434	508	476	577	317	349	414	218
73A4(1)	Avondale R.S.	541	587	581	570	569	584	614	589	2418
73A4(2)	Avondale R.S.	528	571	544	548	488	406	334	409	1781
73BR12(1)	Boyup Brook	604	555	485	548	396	545	654	532	873
73BR12(2)	Boyup Brook	496	525	545	522	376	326	326	343	426
73BR13(1)	Boyup Brook	615	377	449	480	185	217	222	208	2936
73ES8(1)	Neridup	171	163	147	160	238	135	140	171	111
73ES8(2)	Neridup	202	301	286	263	365	270	252	296	1545
73GE3(1)	Mingenew	271	271	303	282	249	228	195	224	1753
73JE5(1)	Bremer Bay	160	73	302	178	214	289	268	257	2773
73JE5(2)	Bremer Bay	190	186	244	207	176	175	238	196	1303
73JE6(1)	Jerdacuttup	283	210	416	303	519	684	715	639	2406
73KA7(1)	Orchid Valley	138	129	169	145	33	39	39	27	555
73M2(1)	Merredin R.S.	301	317	230	283	222	214	357	264	1984
73MO11(1)	Gingin	357	307	273	312	649	586	575	603	1517
73MO13(1)	Wannamal East	292	238	307	279	248	283	328	286	587
73MO13(2)	Wannamal East	266	237	258	254	288	279	261	276	283
73MT6(1)	Mt Barker R.S.	615	452	575	547	608	908	822	779	3216
73MT6(2)	Mt Barker R.S.	452	331	408	397	369	250	270	296	1364
73NA6(1)	Narrogin	488	488	529	502	383	529	476	463	2698
73NA7(1)	Williams	347	337	347	344	287	228	278	264	1607
73NA7(2)	Williams	704	694	625	674	486	307	317	370	913
	Mean	404	361	399	388	376	371	382	376	1474

- (1) June planting
- (2) July or August planting

.../6..

SUMMARY TABLE IV YIELD RANKING

	Arlo	Span	Bele	Turret	Oro	Zephyr
No. of times Variety Best or equal best overall	4	1	8	6	2	5
No. of times Variety Best within B. campestris	11	4	10			
No. of times Variety Best within B. napus				12	4	9

73A4/3159EX

RAPE VARIETIES x TIMES OF PLANTING.

Location: Avondale Research Station
Site: Paddock 1A1. Gravelly loam

1st Top - 13/6/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	7.2	6.8	6.2	7.1	6.82	541
Span	8.0	7.0	7.1	7.5	7.40	587
Bele	8.8	6.7	6.7	7.1	7.32	581
Turret	7.3	7.2	7.1	7.1	7.17	569
Oro	8.1	6.7	7.4	7.3	7.37	584
Zephyr	7.3	7.2	7.1	7.8	7.35	614
Gamenya	31.0	29.3	29.5	32.1	30.47	2418

2nd Top - 26/7/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	6.0	6.9	7.1	6.6	6.65	528
Span	6.4	6.8	7.8	7.8	7.20	571
Bele	6.7	7.9	6.8	6.0	6.85	544
Turret	5.1	6.7	7.0	5.8	6.15	488
Oro	4.2	5.9	5.4	5.0	5.12	406
Zephyr	3.2	4.9	4.4	4.4	4.22	324
Gamenya	21.8	23.0	21.7	23.3	22.45	1781

.../2..

73AL11/3159EX.

RAPE VARIETIES TRIAL

Location: Frankland. J. Haynes.

Sown: 14/6/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Total	Kg/ha
Arlo	3.6	3.4	4.2	6.3	17.5	347
Span	1.7	2.6	4.6	2.7	11.6	230
Bele	1.5	3.2	5.7	4.8	15.2	301
Turret	0.7	1.2	2.3	1.0	5.2	103
Oro	0.8	2.2	3.0	2.7	8.7	173
Zephyr	2.0	2.7	3.3	2.9	10.9	216
Gamenya	20.9	23.1	25.6	24.4	94.0	1864

(1) Second time of planting could not be sown due to boggy ground.

(2) Plots were "weedy".

.../3..

73AL12/3159EX

RAPE VARIETIES x TIME OF PLANTING

Location: Wellstead. W. Wilson.

Sown 8/8/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Total	Kg/ha
Arlo	6.7	7.9	4.1	5.1	23.8	472
Span	4.7	5.0	3.7	3.2	16.6	329
Bele	3.9	6.8	4.8	3.8	19.3	383
Turret	10.5	8.6	7.6	6.3	33.0	654
Oro	9.2	6.8	7.9	5.5	29.4	583
Zephyr	9.4	7.0	6.7	5.8	28.9	573
Gamenya	2.9	2.6	3.4	3.7	12.6	250

Sown 29/8/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Total	Kg/ha
Arlo	6.2	6.7	6.5	5.1	24.5	486
Span	4.6	5.3	5.8	6.2	21.9	434
Bele	6.8	6.2	6.4	6.2	25.6	508
Turret	8.8	6.6	6.8	6.9	29.1	577
Oro	4.2	4.3	4.0	3.5	16.0	317
Zephyr	4.8	4.3	4.7	3.8	17.6	349
Gamenya	3.8	2.9	3.2	1.1	11.0	218

(1) Rabbits damaged wheat plots.

(2) Grasshoppers and Rutherglen bugs troublesome at harvest.

.../4..

73BR12/3159EX

RAPE VARIETIES x TIME OF PLANTING.

Location: Boyup Brook. J.A.H. Walton

Site: Grey brown , gravelly loam.

Sown 20/6/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	6.0	9	7.5	8.0	7.62	604
Span	7.0	7.5	7.5	6.0	7.00	555
Bele	6.5	10	8.5	8.5	6.12	485
Turret	4.5	4.5	5.5	5.5	5.00	396
Oro	8.5	8.5	10	9.5	6.87	545
Zephyr	8.0	8	9.5	7.5	8.25	654
Gamenya	10	12	12	10	11.00	873

Sown 2/8/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	3.0	3.5	9.5	9.0	6.25	496
Span	3.0	9.0	8.0	6.5	6.62	526
Bele	3.0	8.5	8.5	7.5	6.87	545
Turret	8.0	3.0	4.0	4.0	4.75	376
Oro	7.5	2.5	3.5	3.0	4.12	326
Zephyr	8.0	2.0	3.5	3.0	4.12	326
Gamenya	4.5	5.5	6.0	5.5	5.37	426

(1) Second time of planting very weedy.

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73BR13/3159EX

RAPE VARIETY TRIAL

Location: Boyup Brook C.N. Wharton

Site: Gravelly loam/clay.

Sown 8/6/73.

Variety	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Arlo	7.5	8.00		7.75	615
Span	MP	5.00	4.5	4.75	377
Bele	4.5	8.5	4.0	5.66	449
Turret	3.5	5.00	3.0	2.33	185
Oro	4.0	7.00	3.5	2.73	217
Zephyr	5.0	6.00	MP	2.80	222
Gamenya	38.0	34.0	39.0	37.00	2936

.../6..

73ES8/3159EX

RAPE VARIETIES x TIMES OF PLANTING.

Location: Neridup. A.J. Lay.

Site: -

Sown 12/7/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	2.1	3.2	1.7	1.6	2.15	171
Span	1.5	2.0	2.3	2.4	2.05	163
Bele	1.8	2.5	1.5	1.6	1.85	147
Turret	3.5	2.6	3.1	2.8	3.00	238
Oro	1.3	1.8	2.1	1.6	1.70	135
Zephyr	1.6	1.4	2.1	2.0	1.77	140
Gamenya	16.5	16.4	12.0	11.1	14.00	1111

Sown 13/8/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	1.3	3.3	2.3	3.3	2.55	202
Span	2.1	2.8	3.3	7.0	3.80	301
Bele	3.3	2.8	2.1	6.2	3.60	286
Turret	3.5	4.6	5.1	5.2	4.60	365
Oro	1.5	6.1	3.0	3.0	3.40	270
Zephyr	1.6	4.7	3.4	3.0	3.17	252
Gamenya	18.5	17.7	17.2	24.5	19.47	1545

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73GE3/3159EX

RAPE VARIETY TRIAL.

Location: Mingenew. W.M.J. Campbell.

Site: Red brown loamy clay.

Sown: June (?)

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	3.5	3.5	2.5	3.0	3.13	271
Span	3.0	2.5	3.5	3.5	3.13	271
Bele	3.0	3.0	3.5	4.5	3.50	303
Turret	2.0	2.5	3.0	4.0	2.88	249
Oro	2.0	3.5	2.5	2.5	2.63	228
Zephyr	2.0	2.5	2.0	2.5	2.25	195
Gamenya	20.0	19.0	20.0	22.0	20.25	1753

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73JE5/3159EX

RAPE VARIETIES x TIME OF PLANTING.

Location: Bremer Bay. W. & E. Meier.

Site: N/A.

Sown: June

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	2.1	1.4	1.8	2.8	2.02	160
Span	0.35	0.7	1.2	1.4	0.92	73
Bele	1.1	4.6	4.2	5.3	3.80	302
Turret	1.9	2.2	2.4	4.3	2.70	214
Oro	1.8	2.8	4.7	5.3	3.65	289
Zephyr	2.0	2.4	4.3	4.8	3.38	268
Gamenya	34.5	32.9	38.2	34.2	34.95	2773

(1) Approximately 40% shedding of *B. compestris*. *B. napus* 40% lodged.

Sown: July

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	1.7	2.0	3.0	2.9	2.40	190
Span	1.4	1.8	2.9	3.3	2.35	186
Bele	2.7	2.4	3.6	3.6	3.07	244
Turret	1.9	1.6	1.9	3.5	2.22	176
Oro	2.5	1.5	2.5	2.3	2.20	175
Zephyr	3.1	2.4	3.6	2.9	3.00	238
Gamenya	16.8	14.8	15.2	18.9	16.42	1303

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73JE5/3159EX

RAPE VARIETIES x TIMES OF PLANTING.

Location: Jerdacuttup. W. Crane.

Site: N/A.

Sown: June

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	3.7	3.9	4.3	2.8	3.57	283
Span	2.7	2.6	2.7	2.6	2.65	210
Bele	4.5	6.5	5.5	4.5	5.25	416
Turret	6.5	6.4	7.0	6.3	6.55	519
Oro	7.3	8.3	9.6	9.3	8.62	684
Zephyr	8.6	8.7	10.2	8.6	9.02	715
Gamenya	30.4	31.1	33.4	26.4	30.32	2406

Sown: July

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	2.3	5.1	4.4	3.8	3.90	309
Span	2.3	3.9	2.6	2.6	2.85	226
Bele	4.6	7.3	6.2	5.3	6.85	464
Turret	-	10.2	6.8	6.2	7.73	613
Oro	5.5	6.0	5.0	4.8	7.10	563
Zephyr	4.6	5.3	6.0	5.4	5.32	422
Gamenya	25.3	28.8	25.3	25.7	26.27	208

(1) 20% shrivelled grain in B. campestris.

(2) 25% shedding in B. napus.

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73KA7/3159EX

RAPE VARIETY TRIAL

Location: Orchid Valley. Ramel and Nilsen.

Site: N/A.

Sown: 11/6/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	2.0	2.5	1.5	1.0	1.75	138
Span	1.5	2.5	2.0	0.5	1.63	129
Bele	2.5	2.5	1.5	1.0	2.13	169
Turret	0.5	0.5	0.5	0.2	.42	33
Oro	0.5	0.5	0.5	0.5	0.5	39
Zephyr	0.5	0.5	0.5	0.5	0.5	39
Gamenya	9.0	9.0	5.0	5.0	7.0	555

.../11..

73M2/3159EX

RAPE VARIETY TRIAL.

Location: Merredin Research Station.

Site: N/A.

Sown: 28/6/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	3.2	3.9	4.3	5.0	3.8	301
Span	2.9	3.9	4.2	5.0	4.0	317
Bele	2.2	2.7	3.5	3.5	2.9	230
Turret	0.5	2.5	5.0	3.5	2.8	222
Oro	1.5	2.0	4.0	3.5	2.7	214
Zephyr	3.0	8.0	3.0	4.0	4.5	357
Gamenya	25.5	23.5	24.5	26.5	25.0	1984

Some shedding of B. napus.

73M011/3159EX

RAPSEED VARIETY TRIAL.

Location: Gingin. P. Barret-Lennard.

Site: N/A

Sown: 30/5/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	4.75	5.00	4.00	4.25	4.50	357
Span	3.25	4.25	3.75	3.25	3.87	307
Bele	3.75	3.75	3.50	2.75	3.44	273
Turret	9.50	8.50	8.25	6.50	8.18	649
Oro	7.00	8.75	7.00	6.75	7.38	586
Zephyr	8.00	8.00	6.50	6.50	7.25	575
Gamenya	20.50	19.75	18.75	17.50	19.12	1517

B. campestris lodged.

.../13..

73M013/3159EX

RAPE VARIETIES x TIMES OF PLANTING.

Location: Wannamal East. B.R. Smith.

Site: N/A.

Sown: June.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	4.75	3.50	3.50	3.00	3.69	292
Span	3.25	3.00	3.00	2.75	3.00	238
Bele	4.00	3.50	4.75	3.25	3.87	307
Turret	4.25	3.25	3.00	2.00	3.13	248
Oro	3.00	3.50	4.75	3.00	3.56	283
Zephyr	3.50	4.00	4.75	4.25	4.13	328
Gamenya	5.50	11.00	8.50	14.50	7.40	587

B. napus 20% shattering.

Sown: July

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	3.63	3.40	4.31	2.04	3.35	266
Span	2.70	2.70	2.95	3.63	2.99	237
Bele	2.75	2.95	3.63	3.68	3.25	258
Turret	2.27	3.63	4.54	4.09	3.63	288
Oro	2.50	4.31	4.09	3.18	3.52	279
Zephyr	2.70	3.68	3.63	3.18	3.29	261
Gamenya	3.63	4.31	2.27	4.09	3.57	283

50% brome grass!

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73MT6/3159EX

RAPE VARIETIES c TIMES OF PLANTING.

Location: Mt. Barker Research Station.

Site: Paddock N₂A. Gravelly loam.

Sown 25/5/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	8.6	7.6	7.4	7.4	7.75	615
Span	6.4	5.8	5.4	5.2	5.70	452
Bele	8.4	6.4	7.0	7.2	7.25	575
Turret	7.8	8.7	8.8	5.4	7.67	608
Oro	9.0	14.6	14.8	7.4	11.45	908
Zephyr	10.2	13.8	9.7	7.8	10.37	822
Gamenya	38.4	42.8	40.4	-	40.53	3216

Sown 9/8/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	5.9	5.2	5.8	5.9	5.70	452
Span	4.7	4.7	5.1	2.2	4.17	331
Bele	4.2	4.3	6.8	5.3	5.15	408
Turret	4.4	3.8	5.0	5.4	4.65	369
Oro	3.2	2.8	3.6	3.0	3.15	250
Zephyr	3.4	2.8	4.0	3.4	3.40	270
Gamenya	16.8	15.4	19.4	-	17.20	1364

73NA6/3159EX.

RAPE VARIETY TRIAL.

Location: Narrogin. R.A. Prichard.

Site: N/A.

Sown: 29/5/73.

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	Failed waterlogged	4.5	7.0	7.0	6.16	488
Span		4.5	6.5	7.5	6.16	488
Bele		10.0	8.5	7.5	6.66	529
Turret		5.5	4.5	4.5	4.83	383
Oro		6.5	7.0	6.5	6.66	529
Zephyr		6.0	7.0	5.0	6.00	476
Gamenya		28.5	32.0	41.5	34.00	2698

73NA7/3159EX

RAPE VARIETIES x TIMES OF PLANTING.

Location: Williams. M. Bullerd.

Site: Grey loamy sand/ clay/gravel at 20-30 cm.

Sown: 1/8/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	5.5	4.0	5.0	3.0	4.37	347
Span	6.0	4.0	1.5	5.5	4.25	337
Bele	6.5	4.5	3.0	3.5	4.37	347
Turret	3.5	3.5	2.0	5.5	3.62	287
Oro	5.5	3.0	1.5	1.5	2.87	228
Zephyr	3.0	3.0	6.0	2.0	3.50	278
Gamenya	17.5	20.5	18.0	25.0	20.25	1607

Sown: 24/8/73

Variety	Rep 1	Rep 2	Rep 3	Rep 4	Mean	Kg/ha
Arlo	8.5	9.5	9.5	8.0	8.87	704
Span	8.0	9.5	9.5	8.0	8.75	694
Bele	7.0	8.5	8.0	8.0	7.87	625
Turret	6.5	6.0	7.0	5.0	6.13	486
Oro	2.5	5.0	5.0	3.0	3.87	307
Zephyr	4.5	3.0	4.5	4.0	4.00	317
Gamenya	9.5	12.0	10.5	14.0	11.50	913

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73JE4/316OEX

RAPE TIME OF PLANTING x BENLATE FOR BLACKLEG CONTROL.

Location: Jerdacuttup. W. Crane.

Site: Paddock 55.

Sown: June

Treatment	Rep 1	Rep 2	Rep 3	Total	Kg/ha
Span	2.2	2.7	m.p.	4.9*	194
Span + pellet	3.7	3.5	3.0	10.2	269
Zephyr	7.5	7.7	8.2	23.4	618
Zephyr + pellet	8.0	9.5	8.5	26.0	687

Sown: July

Treatment	Rep 1	Rep 2	Rep 3	Total	Kg/ha
Span	0.7	2.7	3.4	6.8	179
Span + pellet	1.8	3.4	3.6	8.8	233
Zephyr	6.8	6.8	8.3	21.9	579
Zephyr + pellet	8.5	8.5	9.0	26.0	687

Sown: August

Treatment	Rep 1	Rep 2	Rep 3	Total	Kg/ha
Span	2.3	1.6	1.6	5.5	145
Span + pellet	2.0	1.5	1.5	5.0	132
Zephyr	2.2	2.2	1.8	6.2	164
Zephyr + pellet	2.0	2.0	1.5	5.5	145

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73AL10/3160EX

TIME OF PLANTING x BENLATE FOR BLACKLEG CONTROL.

Location: Green Range. N. Shearer.

Sown: 27/7/73

Variety	Rep 1	Rep 2	Rep 3	Total	Kg/ha
Span	8.3	10.2	9.2	27.7	733
Span + pellet	10.2	10.2	10.1	30.5	806
Zephyr	14.6	14.6	15.8	45.0	1190
Zephyr + pellet	11.5	13.4	14.5	39.4	1042

Sown: 16/8/73

Variety	Rep 1	Rep 2	Rep 3	Total	Kg/ha
Span	13.8	15.0	13.9	42.7	1129
Span + pellet	14.3	15.7	16.0	46.0	1216
Zephyr	11.5	12.4	11.5	35.4	936
Zephyr + pellet	16.6	16.6	15.8	49.0	1296

Sown: 7/9/73

Variety	Rep 1	Rep 2	Rep 3	Total	Kg/ha
Span	13.4	13.0	15.0	41.4	1095
Span + pellet	16.1	13.4	10.7	40.2	1063
Zephyr	11.5	11.4	11.7	34.6	915
Zephyr + pellet	10.6	12.1	13.1	35.8	947

73BR9/3160EX

RAPE TIME OF PLANTING x FUNGICIDES FOR BLACKLEG CONTROL.

Location: Duranillan. G. Horley.

Site: 0-6" brown sandy loam/gritty clay.

Sown: 29/5/73.

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	8	6.0	7.5	7.16	568
Span + pellet	8	6.5	9.0	7.83	621
Zephyr	4	8.0	6.0	6.00	476
Zephyr + pellet	4	8.5	6.5	5.70	452

Sown: July

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	3	5	5	4.33	344
Span + pellet	4	7	6	5.66	449
Zephyr	5	6	6	5.66	449
Zephyr + pellet	5	7	5	5.66	449

August. Failed.

73MT5/3160EX

TIME OF PLANTING x BENLATE FOR BLACKLEG CONTROL.

Location: Mt. Barker Research Station.

Site:

1st Top 4/6/73

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	4.9	7.4	7.6	6.63	526
Span + pellet	4.6	7.4	8.6	6.86	544
Zephyr	8.0	10.4	14.2	10.86	861
Zephyr + pellet	6.6	14.5	15.2	12.10	960

2nd Top 3/7/73

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	7.4	7.9	7.1	7.46	592
Span + pellet	8.3	7.7	8.0	8.00	634
Zephyr	12.9	12.0	14.0	12.96	1028
Zephyr + pellet	15.5	14.2	13.8	14.50	1150

3rd Top 9/8/73

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	7.8	9.3	9.8	8.96	711
Span + pellet	9.8	9.0	9.7	9.50	753
Zephyr	9.0	7.6	9.2	8.60	682
Zephyr + pellet	8.8	9.6	10.2	9.53	756

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73KA3/3160EX

Location: Orchid Valley. Ramel and Nilsen.

Site: N/A

Sown: 11/6/73

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	4.5	4.5	4.5	13.5	357
Span + pellet	6.5	5.0	5.0	16.5	436
Zephyr	4.0	4.0	3.0	11.0	291
Zephyr + pellet	2.5	4.5	2.0	9.0	238

Sown: 25/7/73

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	7.5	4.5	5.5	17.5	463
Span + pellet	8.0	6.5	5.0	19.5	516
Zephyr	6.0	6.0	4.5	16.5	436
Zephyr + pellet	6.0	4.0	6.0	16.0	423

Sown: August

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	4.5	2.5	3.5	10.5	277
Span + pellet	1.5	3.5	4.0	9.0	238
Zephyr	0.5	0.5	0.5	1.5	39.6
Zephyr + pellet	1.0	0.5	0.5	2.0	52.9

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73ES7/3160EX

RAPE VARIETIES x BENLATE FOR BLACKLEG CONTROL x TOP.

Location: E.N. & L. Fitzpatrick. Gibson.

Site: N/A

Sown: 16/7/73

Treatment	Rep 1	Rep 2	Rep 3	Mean	Kg/ha
Span	1.9	2.9	4.0	2.93	232
Span + pellet	2.0	2.5	3.3	2.60	206
Zephyr	2.2	2.3	2.9	2.46	195
Zephyr + pellet	2.3	2.4	3.2	2.63	208

June and August plantings failed due to sandblast and weeds.