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DEPARTMENT OF AGRICULTURE

WESTERN AUSTRALIA

EXPERIMENTAL SUMMARY

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Plant Research Division

FRUIT DISEASES

Apple Powdery Mildew 86BY45

Control of powdery mildew on Jonathon apples was enhanced when a normal spring programme using Nimrod® fungicide sprays was supplemented with a single winter-dormant application of the product Dormakil®.

Results are shown in the table below:-

Table. Control of Powdery Mildew of apples

Treatment	Powdery mildew infection (Percent infection, means of 20 trees)		
	Primary infection	Secondary infection	
	21/10/86	10/11/86	3/12/86
Standard spring programme	9.40	27.75	43.5
Standard spring programme + Dormakil	3.95	8.25	11.4

Peach Leaf Curl 86MN6

Following the de-registration of the fungicide Difolotan in 1986 the efficacy of a range of alternative fungicides to control peach leaf curl was assessed. Excellent control was achieved on Golden Queen seedlings using a single application of Fulasin® with Bravo 500F® being the next-best treatment.

Results are shown in the table below:-

Table. Comparison of fungicides for control of Peach Leaf Curl

Treatment	Disease assessment (infected leaf rosettes, mean % of 36 trees)
1.* Fulasin Ziram	1.7
2. Bravo 500F Chlorothalanyl	25.6
3. Dithane M45 MnZn dithiocarbonate	47.5
4. Delan Dithianon	55.4
5. Oxydul Copper oxychloride	65.9
6. Kocide Copper hydroxide	66.2
7. Control	99.3
5% LSL	15.2

- * 1, 3, 6 at 200 gm/100 L
2 at 160 ml/100 L
5 at 300 g/100 L
4 at 100 g/100 L + 10 mls Le-wett

Fungicides were applied at early leaf bud swell or about 2 weeks later than normal. A trial to assess the effect of time of application now seems warranted.

Pear Scab 86MN7

A new experimental fungicide DPX-H6573 which has given outstanding control of apple scab overseas was used in a fungicide comparison trial.

Disease did not develop, but fruit is being sampled for residue analysis.

No phytotoxic effects of the fungicide were observed.

Fusarium Wilt of Carnations

The efficacy of three fungicides to control Fusarium wilt was assessed.

Results are shown in the table.

Table. Comparison of fungicides for the control of Fusarium wilt

Treatment*	Disease assessment (total percentage affected plants over 6 assessments)
Benlate (Benomyl)	14.33
Octave (Prochloraz manganese)	11.67
Fungaflor (Imazilil)	7.67
Control	10.67

* Benlate and Octave at 50 gms/100 L
Fungaflor at 68 gm

There was no significant effect of fungicide treatment on levels of disease.