

ESPS Satellite Plot

Title: **Efficacy of Omni Oil Plus Breakthru® for Leaf Curl Plum Aphid Control**

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Year: 1999

Crop/Variety: French Prune

Test Location: Corning, California — Tehama County

Target Pest: Leaf Curl Plum Aphid (LCPA) *Brachycaudus helichrysi*

Treatments:	Description	Material	Rate/Acre
	Sprayed	Omni Oil/Breakthru®	6 gal/Ac. + 64 oz./100 gal.
	Unsprayed	—	—

Application Date: 5/5/99

Application Method: Backpack mist blower - 1 gallon per tree - excellent spray coverage

Spray Volume: Concentrate (100 gpa)

Plot Size: 10 trees

Experimental Design: 5 trees sprayed and 5 trees unsprayed

Insect Infestation: Moderate

Data Taken: 10 randomly selected curled leaves per tree evaluated on 5/7/99. Leaves were scored as having live or dead LCPA.

Results:	Treatment	Leaves with Live LCPA	Leaves with Dead LCPA	Fruit Phytotoxicity
	Omni Oil/Breakthru®	8	42	4
	Unsprayed	46	4	1

Phytotoxicity rated on a scale of 1-5 where 1 represents no observed phytotoxicity.

Discussion/Conclusion: Leaf Curl Plum Aphids can be a problem when dormant sprays are not applied. A spray mix of Omni oil plus Breakthru® was effective in reducing the number of live LCPA. Breakthru® was added to improve oil penetration into curled leaves. Fruit phytotoxicity was observed on all treated trees.

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