

Title:	<b>Phytotoxicity of Captan Following Oil/Rovral Application on French Prune</b>
Investigators:	Buchner, R.P. and Gilles, C.K.
Year:	2000
Crop/Variety:	French Prune
Test Location:	Red Bluff, California (Tehama County)
Treatments:	<ul style="list-style-type: none"> <li>• Single Captan application applied at 3, 5, 7, 10 and 12 days following Oil/Rovral.</li> <li>• Single Captan application applied at 3, 5, 7, 10 and 12 days with no Oil/Rovral treatment.</li> <li>• No Captan applied following Oil/Rovral.</li> </ul>
Application Dates:	Oil/Rovral applied on 3/24/00 followed by Captan 3/27, 2/39, 3/31, 4/3 and 4/5
Material Rates:	Rovral 1 lb/ac; Omni Oil 4 gal/ac; Captan 6 lbs/ac
Application Equipment:	Oil/Rovral: Speed sprayer 100 gal/ac Captan: Handgun – water carrier at 250 psi
Spray Volume:	Oil/Rovral: semi concentrate 100 gal/ac Captan: Dilute 400 gal/ac 5 gal of mix per tree.
Plot Size:	18 individual trees replicated plus 5 check trees sprayed with Captan without Oil/Rovral application
Experimental Design:	Randomized Complete Block Design 6 treatments with 3 replicates.
Data Taken:	Fruit and Leaf Phytotoxicity. 50 fruit and 50 leaves per tree.

**Results:**

<u>Treatment</u>	<u>Leaf Phytotoxicity</u>	<u>Fruit Phytotoxicity</u>
Captan 3 days after Oil/Rovral	None <sup>1</sup>	None
Captan 5 days after Oil/Rovral	None	None
Captan 7 days after Oil/Rovral	None	None
Captan 10 days after Oil/Rovral	None	None
Captan 12 days after Oil/Rovral	None	None
Captan 3 days after no Oil	None	None
Captan 5 days after no Oil	None	None
Captan 7 days after no Oil	None	None
Captan 10 days after no Oil	None	None
Captan 12 days after no Oil	None	None
No Captan - Oil/Rovral alone	None	None

<sup>1</sup>No phytotoxicity observed on fruit or foliage.

**Discussion/Conclusion:**

Oil application at green tip may be a way to manage aphids in French prune production. One potential problem is a material conflict when Captan is applied at full bloom, following oil, for scab control.

Under the conditions of this experiment, no phytotoxicity was observed when Captan was applied following oil.

Additional work under different environmental conditions is necessary to confirm material phytotoxicity.