

COMPARISON OF FUNGICIDES FOR CONTROL OF BROWN ROT BLOSSOM BLIGHT OF PEACH, 2001:

Treatments were arranged in a randomized complete block design in an 'Improved Elberta' peach orchard planted in 1984 on 20 x 20 ft spacing. Each treatment consisted of 4, single tree replicates. Fungicides were applied using a hydraulic handgun sprayer at 150 psi and at a rate of 300 gal water/A. Approximately 10.5-12 gal of a spray suspension were applied per 4 trees depending on time of year. Bloom treatments were applied on 13 Mar (55% pink), 22 Mar (52% full bloom), and 1 Apr (67% petal fall). Urea fertilizer was broadcast around all trees on 15 Mar at 126 lb/A. Roundup Ultra (2 qt/A) and Goal XL (3 qt/A) were applied on 15 Feb, and Gramoxone Extra (2 qt/A) was applied on 17 May for weed control. All herbicide rates are based on in the tree row area. Brown rot blossom blight was evaluated on 8 May by examining 100 shoots (one-year-old flowering shoots 6-12 inches long with a terminal bud), randomly selected from each tree, for twig cankers.

Spring weather conditions in Western Oregon were considered dry with below normal March and April rainfall. In addition there was a hard frost (29°F) during the full bloom applications and on 7 Apr (29°F), which resulted in little fruit production. Brown rot pressure was very low. No significant differences in brown rot twig cankers were detected among the various treatments. Significant blossom phytotoxicity in form of necrotic edges of petals and flower dehydration was observed on 23 Mar on trees treated with Trilogy when compared with all other trees.

Treatment and Rate/A	Time of Application**	Total Number of Applications	Brown Rot Twig Cankers* (%)
Nontreated	None.	0	2.0
Trilogy 70 EC 3 gal.....	P,FB,PF	3	2.0
Indar 75 W 2 oz + Latron B-1956 at 9 oz.....	P,FB,PF	3	0.0
Vanguard 75 WG 5 oz then	Pink	1	
Abound 2.08 F 12 fl oz then	Full Bloom	1	
Bravo Weather Stik 5 pt.....	Petal Fall	1- total of 3	1.8
Vanguard 75 WG 5 oz.....	P,FB,PF	3	0.0
Vanguard 75 WG 10 oz.....	Pink only	1	1.3
Indar 75 W 2 oz + Latron B-1956 at 9 oz.....	Pink only	1	6.3
Rovral 50 WP 2 lb then	Pink	1	
Indar 75 W 2 oz + Latron B-1956 at 9 oz then	Full Bloom	1	
Bravo Weather Stik 5 pt.....	Petal Fall	1- total of 3	0.0
Vanguard 75 WG 5 oz then	Pink	1	
Orbit EC 4 fl oz then	Full Bloom	1	
Abound 2.08 F 11 fl oz	Petal Fall	1- total of 3	0.8
Vanguard 75 WG 5 oz then	P,FB	2	
Abound 2.08 F 11 fl oz	Petal Fall	1- total of 3	1.3

*Means were not significantly different based on Fisher's protected LSD (P=0.05).

**P = Pink, FB = Full Bloom, and PF = Petal Fall.