

PEACH (*Prunus persica* 'Red Haven')  
 Peach Leaf Curl; *Taphrina deformans*  
 Shothole; *Wilsonomyces carpophilus*

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COMPARISON OF FUNGICIDES FOR CONTROL OF SHOTHOLE AND PEACH LEAF CURL, 2000: Treatments were arranged in a randomized complete block design in a block of 'Red Haven' peaches planted in 1971 on a 20 x 20 ft spacing. Each fungicide treatment consisted of 4 single tree replicates. Fungicides were applied using a hydraulic handgun sprayer at 250 psi and at a rate of 300 gal water/A. Approximately 12 gal of a spray suspension were applied per treatment. Dormant treatments were applied on 2 Nov 99 (70% leaf drop) and 3 Mar 00 (delayed dormant). Urea fertilizer was broadcast around each tree on 3 April at 120 lb/A. Thiodan (4 lb/A) was applied on 26 Apr for control of peach twig borer. Incidence of shothole twig cankers on limbs 4-12 inches long with terminal buds from the lower portion of each tree was collected on 2 May. Incidence of peach leaf curl was evaluated on 9 May by examining 83-150 lateral shoots and 22-100 terminal shoots randomly selected from the lower portion of each tree. On 2 May, incidence of dead buds per 50-100 limbs was collected from the lower portion of each tree.

Overall, the dormant season weather was normal for the Willamette Valley of Oregon. Disease pressure from shothole was very high while leaf curl was at its normal high range. All fungicide treated trees had significantly less peach leaf curl than nontreated trees. Trees treated with Sulforix had a statistically similar number of limbs with shothole cankers and dead terminal buds when compared with nontreated trees. Trees treated with Kocide or Ziram had significantly fewer limbs with shothole cankers or dead terminal buds than nontreated trees.

Treatment & Rate/A **	Shothole Cankers*	% Peach Leaf Curl*		% Dead Terminal Buds*
	Incidence (%)	Infected Terminal Shoots	Infected Lateral Shoots	
Nontreated	61.3 a	63.2 a	62.6 a	60.3 a
Kocide 2000 12 lb	14.8 b	9.4 b	1.4 b	20.5 b
Sulforix 4 gal	44.5 a	7.1 b	3.3 b	38.3 ab
Ziram 76 WDG 8 lb	15.3 b	2.3 b	0.3 b	15.5 b

\* Means followed by the same letter do not differ significantly based on Fisher's protected LSD (P=0.05).

\*\* Dormant treatments were applied on 2 Nov 99 (70% LD) and 3 Mar 00 (DD).