

AMELANCHIER (*Amelanchier canadensis*, *A. laevis*, *A. lamarckii*)
 Rust: *Gymnosporangium* sp.

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COMPARISON OF FUNGICIDES FOR CONTROL OF RUST ON AMELANCHIER, 2000: The objective of this trial was to compare different fungicides for control of *Amelanchier* rust. This was presumed to be due to *Gymnosporangium libocedri*, which is common in the Willamette Valley of Oregon. This trial was located at the Botany and Plant Pathology Field Laboratory, Corvallis, OR. The herbicide Gramoxone Extra (2 qt/A) + R-11 sticker (2 oz/5 gal) was applied on 9 Mar to 3 rows that measured 3x100 ft. Small, 12 inch whips of *Amelanchier canadensis*, *A. laevis*, and *A. lamarckii* (100 of each species) were planted in these rows 1 ft apart on 10 Mar. Fungicide treatments were arranged in a randomized complete block design in each of the three rows of *Amelanchier*. Each fungicide treatment consisted of 5 double whip replicates (for a total of 10 whips per treatment) for each species of *Amelanchier*. All treatments were applied using a solo backpack sprayer set at 60 psi. All treatments were applied at a rate of 100 gal water/A with a total of 2 pt of a spray suspension applied to each treatment in all rows (2 pt solution/30 whips). Treatments were applied on 18 Apr (63-74% bud break), 2 May (several leaves unfolded) and 15 May. Incidence of rust was evaluated on 22-23 May by examining all leaves per two plants for the presence of rust lesions.

The spring growing season was characterized as unusually dry which resulted in low disease pressure. Whips also were slow to break bud relative to other susceptible plants in the area. The first rust lesions were detected on 27 Apr. None of the whips treated with fungicide had significantly fewer leaves with rust lesions when compared to the nontreated whips. No phytotoxicity was observed on any plant treated with any fungicide. Future trials should include the addition of a spreader along with Heritage treatments. The Bayleton used in this study was several years old and did not mix well when added to water.

Treatment and Rate/100 gal water	Leaves with Rust Lesions (%)*		
	<i>Amelanchier canadensis</i>	<i>Amelanchier laevis</i>	<i>Amelanchier lamarckii</i>
Nontreated	22.4	12.9	14.1
Heritage 50 WG 1 oz	12.7	7.8	9.5
Heritage 50 WG 2 oz	14.4	6.1	6.1
Heritage 50 WG 4 oz	13.6	4.3	5.3
Heritage 50 WG 8 oz	14.0	10.8	4.6
Bayleton 50 WP 2 oz	11.3	12.1	8.3
Banner 1.1 E 8 fl oz	12.0	9.1	2.7
Immunox 8 fl oz	16.4	6.6	4.4
Plantvax 75 WP 24 oz	11.7	3.4	2.4
Contrast 70 WS 6 oz	14.4	11.0	5.7

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

Many thanks to Carlton Plants for supplying the *Amelanchier* plants.