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Effect of row-passage styles by speed sprayer on the efficacy against the scab by *Venturia nashicola* and anthracnose by *Colletotrichum gloeosporioides* and chemical adhesion on Japanese pear leaves.

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ABSTRACT

Row-passage styles of a speed sprayer (SS) were studied to improve fungicide adhesion and efficacy against scab and anthracnose on Japanese pear leaves. Two styles of row-passage, every row and alternating rows, were tested in a Japanese pear orchard planted at 4-m intervals. Fungicide efficacy and chemical adhesion with every row were superior to alternating rows even though less solution was applied with the every-row style than with alternating rows. In addition, efficacy of the fungicide on the leaves above the SS passage route with the alternating row style was lower than on above the passage route where the SS did not run because rolling of the leaves under the strong wind pressure from the SS decreased chemical adhesion on the leaves of upper the surface above the SS passage route.

Key words: Japanese pear, speed sprayer, scab, *Venturia nashicola*, anthracnose, *Colletotrichum gloeosporioides*, fungicide, chemical adhesion

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