

Results of Spray Tests for the Control of Carnation Rust
by Lester E. Dickens* and W. D. Thomas, Jr.

Five fungicides at several dilutions were tested against rust on carnation varieties Pink Patrician and Miller's Yellow. Replicated series of three plants per treatment were treated and inoculated with a spore suspension of the Uromyces caryophyllinus (rust) on a turntable, and incubated in a moist chamber. The use of Goodrite VL-600 as an adhesive agent and Triton B-1956 as a detergent provided satisfactory retention and coverage by the fungicides. After 27 days with two applications no control resulted from treatment with OS-3770 at the rate of one quart per 100 gallons of water. Goodrite z.a.c. at one lb. and 50-P-334 at one pint provided 70.1 and 75.0 percent control, respectively, whereas 99.3 percent control was obtained with Goodrite Nabam at two quarts per 100 gallons. Complete control resulted with the use of Goodrite z.a.c. at $1\frac{1}{2}$ lbs., 50-P-334 at one quart, $\frac{1}{2}$ pint and $\frac{1}{4}$ pint, and Orthocide 406 at 1 quart, 1 pint, and $\frac{1}{2}$ pint per 100 gallons. The experimental fungicide 50-P-334 is, as yet, not available commercially; when it becomes available, a notice will appear in this bulletin.