

LILAC (*Syringa vulgaris* 'Ellen Willmott')  
Bacterial Blight; *Pseudomonas syringae* pv. *syringae*

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**Bactericides for management of bacterial blight of lilac, 2015.**

Bactericide treatments were arranged in a randomized complete block design in a block of 'Ellen Willmott' lilacs planted in 1993 on a 5 x 15 ft spacing. Each bactericide treatment consisted of 6 single shrub replicates. Nontreated bushes were on either side of treated bushes. All bactericides were applied using a Stihl backpack pump style sprayer such that 1 gal of a spray suspension was applied per 6 bushes (97 gal/A). Treatments were applied on 19 Feb 15 (bud break), 5 Mar 15 (1 inch shoot growth), 13 Mar 15 (1 to 3 inch growth), 19 Mar 15, and 27 Mar 15 (beginning of bloom). Bushes were fertilized on 26 Feb with approximately 16 lb/A (based on in the bush row area) of urea (46-0-0). Bushes were not pruned. No insecticides or herbicides were applied to this block of lilacs. The number of dead buds per bush was evaluated on 20 Mar 15. Incidence of bacterial blight was evaluated on 6 Apr 15 by examining 50 arbitrarily selected shoots per bush.

Early spring conditions during bud break and early shoot growth were characterized as warm and dry, although there were 9 days with early morning frosts. Disease pressure was considered low. Some dead buds were first observed on 9 Mar and small, water soaked spots were observed on 18 Mar on some plants. Necrotic spots were observed in abundance on 30 Mar. There was no significant difference in disease among any of the treatments. No phytotoxicity was observed on any treated bushes.

Treatment and rate/100 gal	Application Timing*	Dead Buds per Bush**	Bacterial Blight (% shoots)**
		20 Mar	6 Apr
Non-treated.....	None.....	13.7	41.7
Badge SC at 2 pt.....	A, B, D.....	14.3	29.3
Tanos DF at 10 oz plus Kinetic at 32 oz .....	A, B, D.....	14.3	44.0
Double Nickel LC at 2 qt.....	A, B, C, D, E.....	6.3	22.3

\* Treatments were applied on A = 19 Feb (bud break), B = 5 Mar (1 inch shoot growth), C = 13 Mar (1 to 3 inch shoot growth), D = 19 Mar, and E = 27 Mar (beginning of bloom).

\*\* Means without letters do not differ significantly ( $P=0.05$ ).