

A photograph of a field of stone fruit trees, likely cherry or plum, in full bloom. The trees have dark, gnarled trunks and are covered in dense, vibrant pink blossoms. The ground is a mix of green grass and brown, dry leaves. The sky is a clear, pale blue. A semi-transparent yellow rectangular box is centered over the image, containing the main title in bold black text.

Observations in the Field of Bacterial Spot on Stone Fruit

**Mid Atlantic Fruit and Vegetable
Convention
January 29, 2015**

Bacterial Spot

- Bacterial Spot – *Xanthomonas campestris* pv. *Pruni*
 - - Bacteriosis, bacterial leaf spot or bacterial shot hole.
 - - First described in 1902-1903 on plums in Michigan.
 - - Causes symptoms on leaf, twig and fruit of almost all stone fruit.

Bacterial Spot

● Twig Symptoms -

- Overwintering cankers are first visible at bloom.
- Cankers have a black, water-soaked appearance.
- Summer cankers are formed on the current seasons growth and are visible June thru early August.



Bacterial Spot

● Leaf Symptoms -



Bacterial Spot

● Leaf Symptoms -

- Angular lesions at the leaf tip, mid rib, and or along the leaf margin.
- The foliar lesions are water-soaked and grayish in color.
- As the lesions age they become purple in color and necrotic.
- The first leaves that emerge before bloom can become infected and be a source for later infections.



Bacterial Spot

● Leaf Symptoms -

- Leaves are most susceptible before they are fully expanded
- Leaf symptoms are visible 5-14 days after infection depending on weather conditions.
- Leaf symptoms can resemble copper phyto-toxicity.



Bacterial Spot

● Fruit Symptoms -



Bacterial Spot

● Fruit Symptoms -

- Fruit symptoms can be confused with peach scab.
 - Scab spots **are** more circular.
 - Scab spots **do not** pit the fruit surface.
 - Scab spots **can** cause the skin to crack.
 - Scab **does not** cause a leaf symptoms.
 - Scab **can** cause spots on twigs.



Bacterial Spot

● Fruit Symptoms -

- Fruits are very susceptible after shuck split
- Susceptibility decreases after pit hardening.
- If there is a high amount of leaf infections and warm wet weather conditions, fruit can have infections up to harvest.



Bacterial Spot

● Optimum disease conditions -

- Favored by –
 - Hot, dewy, wet conditions
 - Windy and sandy sites
 - Fertility issues.



Bacterial Spot

● Control ideas

- Be certain of what you are planting
- Apply control measures before symptoms occur.
- Apply dormant Copper sprays both fall and spring on susceptible varieties.
- Spray programs targeting Bacterial spot should start at Shuck Split.



Bacterial Spot

● Control ideas

- Oxytetracycline products are effective in a program alternated with other products.
- Copper formulations
 - Magna-Bon CS2005, Cueva, Mastercop, Badge
- Labeled Phosphites plus a Biorational product.
- Dish soap???





Thanks

Shannon Farm Services, Inc.

Helping to grow quality crops since 2007.

**Mid Atlantic Fruit and Vegetable Convention
January 29, 2015**