



Title: Efficacy of fungicides on preventing Anthracnose on Sycamore

Host: *Platanus occidentalis* (Sycamore) 'Bloodgood'

Inoculation: Plants were inoculated by spraying with a spore suspension of a culture of *Discula platani* and then bagged with plastic bags for 72 hours on 9 May, 2006. They were irrigated from overhead one hour/day during this time.

| Treatments:                            | Rate/100 gal                                  |
|--|---|
| A. Water                               | -----   |
| B. Banner MAXX spray                   | 8 oz  |
| C. Armada spray                        | 6 oz  |
| D. Lynx SC spray                       | 8 oz  |
| E. Lynx SC and Compass O spray         | 8 oz and 1 oz                                 |
| F. Nativo spray                        | 10 oz   |
| G. Lynx SC drench                      | 0.06 oz/gallon, 1 gallon/tree,<br>1 time only |
| H. Tebuconazole spray (Bayer Advanced) | 75 oz   |

Chemical application dates: All treatments were applied as a foliar spray (to drip) or drench at as listed above on 4 and 18 May, 2006.

| Treatment                   | Rate/100gal.        | No. of Diseased Leaves 5/19/06 | No. of Diseased Leaves 5/26/06 | No. of Lower Diseased Leaves 5/26/06 | Leaf Size 5/26/06 |
|-----------------------------|---------------------|--------------------------------|--------------------------------|--------------------------------------|-------------------|
| Water                       | -----               | 15.2 b                         | 22.9 b                         | 6.3 b                                | 3.6 ab            |
| Banner MAXX                 | 8 oz spray          | 7.9 ab                         | 11.5 ab                        | 1.2 a                                | 3.0 a             |
| Armada                      | 6 oz spray          | 0.9 a                          | 4.5 a                          | 0.7 a                                | 3.4 ab            |
| Lynx SC                     | 8 oz spray          | 3.2 a                          | 5.5 a                          | 1.0 a                                | 3.9 b             |
| Lynx and Compass O          | 8 oz and 1 oz spray | 9.6 ab                         | 12.3 ab                        | 2.9 ab                               | 3.6 ab            |
| Nativo                      | 10 oz spray         | 9.9 ab                         | 19.4 ab                        | 2.7 ab                               | 3.8 b             |
| Lynx SC                     | 0.06 oz/gal drench  | 5.5 a                          | 8.8 ab                         | 0.4 a                                | 4.0 b             |
| Tebuconazole Bayer Advanced | 75 oz spray         | 9.2 ab                         | 19.2 ab                        | 3.7 ab                               | 3.1 a             |

Leaf size was rated from on the following scale:3=good, 4=very good to 5=excellent.