



# Disease and Insect Resistant Ornamental Plants

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## COTONEASTER

### Cotoneaster

*Cotoneaster* is a large and diverse genus of trees, shrubs and groundcovers in the rose family. With more than 400 species, *Cotoneaster* is widely distributed throughout the Northern Hemisphere. Ornamental species include deciduous and evergreen types with a wide range of size and shape. Flowers are attractive to bees and butterflies. In the winter the fruit is attractive to birds.

*Cotoneaster* is a common host for fire blight and hawthorn lace bug is a serious problem on some species.



## DISEASES

**Fire Blight** is a disease of *Cotoneaster* and other plants in the rose family caused by the bacterial pathogen *Erwinia amylovora*. Named for the scorched appearance of affected leaves, blossoms and twigs, it can cause severe damage and death in nursery and landscape settings. Fire blight is favored by warm, humid weather in the spring, so it is especially prevalent in the southeast US. Insects and rain can spread the bacteria. Cultural practices that promote succulent growth such as excessive irrigation or nitrogen fertilization and heavy pruning can increase disease incidence and severity.

| Fire Blight                                      |            |           |              |             |
|--|------------|-----------|--------------|-------------|
| Species/Hybrids                                  | Cultivar   | Reference |              |             |
|  |            | Resistant | Intermediate | Susceptible |
| <i>Cotoneaster adpressus</i>                     |            | 4, 15     |              |             |
| <i>Cotoneaster adpressus</i> var. <i>praecox</i> |            | 8         |              |             |
| <i>Cotoneaster amoenus</i>                       |            | 8         |              |             |
| <i>Cotoneaster apiculatus</i>                    |            | 4, 8, 15  |              |             |
| <i>Cotoneaster arbusculus</i>                    |            | 3, 11     |              |             |
| <i>Cotoneaster atropurpureus</i>                 | Variegatus |           | 16           |             |
| <i>Cotoneaster boisianus</i> *                   |            |           | 16           |             |
| <i>Cotoneaster bullatus</i>                      |            |           |              | 16          |
| <i>Cotoneaster canadensis</i>                    |            | 8         |              |             |

\*often misnamed as *C. glomerulatus*, *C. obscurus* and *C. 'Firebird'* (7).

| Fire Blight  |                   |           |              |             |
|--|-------------------|-----------|--------------|-------------|
| Species/Hybrids  | Cultivar          | Reference |              |             |
|  |                   | Resistant | Intermediate | Susceptible |
| <i>Cotoneaster cavei</i> syn. <i>C. cordifolius</i> (7)                                |                   |           | 2            |             |
| <i>Cotoneaster chungtiensis</i>  |                   | 11        |              |             |
| <i>Cotoneaster cochleatus</i>  |                   | 16        |              |             |
| <i>Cotoneaster conspicuus</i>  |                   |           |              | 16          |
| <i>Cotoneaster dammeri</i> *   |                   |           | 16           | 6, 10       |
| <i>Cotoneaster dammeri</i>   | Eichholz          | 2         | 16           |             |
|  | Gelre             |           |              | 16          |
|  | Major             |           |              | 16          |
|  | Schoon            | 16        |              |             |
| <i>Cotoneaster dammeri</i> var. <i>radicans</i>  |                   | 8         |              |             |
| <i>Cotoneaster dielsianus</i>  |                   | 4, 15, 16 |              |             |
| <i>Cotoneaster dielsianus</i> var. <i>delsianus</i>                                    |                   | 11        |              |             |
| <i>Cotoneaster divaricatus</i>   |                   |           | 16           | 4           |
| <i>Cotoneaster floccosus</i>   |                   |           |              | 16          |
| <i>Cotoneaster foveolatus</i>  |                   | 4, 15     |              |             |
| <i>Cotoneaster franchetii</i>  |                   | 4, 15, 16 |              |             |
| <i>Cotoneaster henryanus</i>   | Corina            | 7         |              |             |
| <i>Cotoneaster horizontalis</i>  |                   | 10        | 16           |             |
| <i>Cotoneaster horizontalis</i> var. <i>perpusillus</i>                                |                   |           |              | 4, 8        |
| <i>Cotoneaster hupehensis</i>  |                   |           |              | 4           |
| <i>Cotoneaster integerrimus</i>  |                   | 4, 15     |              |             |
| <i>Cotoneaster integrifolius</i>   |                   | 16        |              |             |
| <i>Cotoneaster lacteus</i>   |                   |           | 16           |             |
| <i>Cotoneaster microphyllus</i>  |                   | 8         |              |             |
| <i>Cotoneaster microphyllus</i>  | Emerald Spray     |           |              | 5           |
|  | Excellenz         | 10        |              |             |
|  | Streib's Findling | 10        |              |             |
| <i>Cotoneaster multiflorus</i> var. <i>calocarpus</i> syn. <i>C. calocarpus</i> (7)    |                   |           |              | 4, 5        |
| <i>Cotoneaster nanshan</i>   |                   | 16        |              |             |
| <i>Cotoneaster nanshan</i>   | Boer              | 16        |              |             |
| <i>Cotoneaster nitens</i>  |                   | 4, 8, 15  |              |             |
| <i>Cotoneaster procumbens</i>  | Queen of Carpets  |           | 16           |             |
| <i>Cotoneaster racemiflorus</i> var. <i>soongoricus</i> syn. <i>C. tomentullus</i> (7) |                   |           |              | 4           |
| <i>Cotoneaster rhytidophyllus</i>  |                   |           |              | 3, 11       |

\**C. dammeri* is frequently identified as *C. dammeri* var. *radicans* (7).

| Fire Blight                     |                  |           |              |             |
|---------------------------------|------------------|-----------|--------------|-------------|
| Species/Hybrids                 | Cultivar         | Reference |              |             |
|                                 |                  | Resistant | Intermediate | Susceptible |
| <i>Cotoneaster rugosus</i>      |                  |           |              | 3, 11       |
| <i>Cotoneaster salicifolius</i> |                  |           |              | 10          |
| <i>Cotoneaster salicifolius</i> | October Glory    | 7         |              |             |
|                                 | Pendulus         |           |              | 16          |
|                                 | Repens           |           |              | 16          |
|                                 | Saldam           |           | 16           |             |
|                                 | September Beauty |           | 16           |             |
|                                 | Willeke          | 7         |              |             |
| <i>Cotoneaster sikangensis</i>  |                  | 3, 11     |              |             |
| <i>Cotoneaster simonsii</i>     |                  | 11, 16    |              |             |
| <i>Cotoneaster songoricus</i>   |                  | 16        |              |             |
| <i>Cotoneaster splendens</i>    |                  | 3, 11     |              |             |
| <i>Cotoneaster wardii</i>       |                  | 16        |              | 3, 11       |
| <i>Cotoneaster zabelii</i>      |                  | 4, 8, 15  |              |             |
| <i>Cotoneaster x suecicus</i>   | Big Beauty       |           | 16           |             |
|                                 | Coral Beauty     |           |              | 16          |
|                                 | Jürgl            |           | 16           |             |
|                                 | Royal Beauty     | 16        |              |             |
|                                 | Skogholm         |           | 16           |             |
|                                 | Sürth            |           | 16           |             |
| <i>Cotoneaster x watereri</i>   |                  |           |              | 10          |
| <i>Cotoneaster x watereri</i>   | Brandekjaerhoej  |           |              | 16          |
|                                 | Cornubia         |           |              | 16          |
|                                 | Exburiensis      |           |              | 16          |
|                                 | John Waterer     |           |              | 16          |

## INSECTS

**Hawthorn Lace Bug**, *Corythucha cydoniae*, is a foliage feeding insect found throughout most of the US, southern Canada and northern Mexico. Many plants in the rose family are susceptible, but *Cotoneaster* is a preferred host (9). Lace bugs feed on the underside of leaves creating small chlorotic spots visible mostly on the upper surface. Damage is unsightly and may spread to cover the entire leaf surface. Repeated infestations decrease plant vigor and may result in death of the plant.

| Hawthorn Lace Bug               |                |           |             |
|---------------------------------|----------------|-----------|-------------|
| Species/Hybrids                 | Cultivar       | Reference |             |
|                                 |                | Resistant | Susceptible |
| <i>Cotoneaster buxifolius</i>   |                | 1         |             |
| <i>Cotoneaster dammeri</i>      |                |           | 5, 6        |
| <i>Cotoneaster dammeri</i>      | Royal Beauty   |           | 13, 14      |
| <i>Cotoneaster horizontalis</i> |                | 13        |             |
| <i>Cotoneaster lacteus</i>      |                | 6, 12, 14 |             |
| <i>Cotoneaster salicifolius</i> | Autumn Fire    |           | 6           |
|                                 | Gnom           |           | 6           |
|                                 | Repens         |           | 6           |
|                                 | Scarlet Leader |           | 6           |
| <i>Cotoneaster x watereri</i>   | Brandekair     |           | 12          |

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## OTHER RESOURCES

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Produced by the New York State Integrated Pest Management Program, which is funded through Cornell University, Cornell Cooperative Extension, the New York State Department of Agriculture and Markets, the New York State Department of Environmental Conservation, and USDA-NIFA. Design by Karen English, New York State IPM Program. Cornell Cooperative Extension provides equal program and employment opportunities. © 2019 Cornell University and the New York State IPM Program. Updated 3/2019. Search for this title at the NYSIPM Publications collection: [ecommons.cornell.edu/handle/1813/41246](https://ecommons.cornell.edu/handle/1813/41246)

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