T. petiolaris. It is a fast growing tree with leaves as large or larger than those of its American parent but silvery white on the lower surface like those of *T. petiolaris*. What is believed to be a variety of this hybrid (var. *Moltkei*) originated many years ago at the Spaeth Nursery near Berlin. It is a tree of denser habit and greener leaves than *T. spectabilis*, and in the Arboretum it is a handsomer and faster-growing tree than the native species.

Heather. Of the true Heaths only the red and white-flowered forms of *Erica carnea* are perfectly hardy here. This is a native of the mountains of central Europe, and an evergreen plant only a few inches high which spreads gradually into a broad mat. It is one of the first plants to flower in the Arboretum, and this year was in full bloom on the 15th of March. This is one of the best small evergreen shrubs for a sunny Massachusetts rockery. *Erica tetralix* and *E. vagans*, two handsome European species, have sometimes lived for two or three years at a time in the Arboretum, but have not proved very hardy in any of the positions where they have been planted. The Arboretum two years ago established in its propagating department at the corner of Centre and Prince Streets a collection of dwarf shrubs planted in frames and protected from the heat of the summer sun by lath shades raised high enough to permit a person to walk under them and to insure a free circulation of air. In these frames it has been found possible to grow successfully a number of shrubs which require partial shade and daily summer watering, and are too small and often too delicate to be properly protected in the open ground in a public garden of the size and character of the Arboretum. In this collection are now established such difficult plants as *Salix herbacea* and *S. uva-ursi*, *Linnaea borealis*, *Epigaea repens*, *Cassiope hypnoides*, *Loiseleuria procumbens*, *Kalmia microphylla*, *Rhododendron indicum*, *Vaccinium praestans*, and some three hundred other interesting dwarf shrubs which have never before been successfully cultivated in the Arboretum. In this collection it is now believed possible to maintain *Erica tetralix*, *E. vagaris* and possibly other dwarf species, and here will probably grow the so-called Irish Heath (*Daboecia*) which has not yet proved hardy here. The Heather (*Calluna*) is fortunately hardy in nearly all its forms, and an important plant for the New England summer garden or to naturalize in open New England woods. There is a good collection of these varieties of *Calluna* in the Shrub Collection. The first of them to flower this year (var. *rubra*) with gray leaves and crimson flowers is already in full bloom. The flowers of some of the white-flowered forms, of which there are several, are beginning to open, and now for several weeks the *Calluna*-collection will be an interesting feature of the Shrub-Collection. These plants in their compact habit and abundant bloom show the advantage of a severe pruning of the old wood in early spring before the plants start to grow. Unless this is done they become thin and bare, and are often short-lived. *Calluna* should be planted in not too rich, thoroughly drained soil and in full exposure to the sun.

The next of these Bulletins will appear during the month of August.

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