

In the Arboretum the collection is established on a steep bank on Bussey Hill Road near Forest Hills Gate and immediately before the Lilacs are reached. Individual bushes of the species and varieties are at the lower end and beyond is a tangle some 75 yards long and 25 yards deep, which is one of the most spectacular sights of early spring in the Arboretum. In the Shrub Garden certain of the older species, hybrids and varieties are grown. The curious may be interested to note that in the flowers of the *Forsythia* the style of the pistil is of two lengths. On some bushes the flowers all have a style longer than the stamens and reaching to the mouth of the corolla-tube. On other plants the style is short reaching about half the length of the corolla-tube and the stamens protrude above it. Some of the varieties of the hybrid *F. intermedia* are distinguished by having either a long or short style to the pistil. Of the six species known all except *F. Giraladiana* from Shensi province in China are cultivated in the Arboretum. This species is described as having hairs on the leaves, a condition found in *F. suspensa* var. *pubescens*, which is growing in the Arboretum. It is rather interesting to note that in the allied genera *Syringa*, *Fraxinus* and *Chionanthus* hairiness may occur in any species. It would appear that pubescence in these genera is a family peculiarity and of little or no taxonomic significance.

*Forsythia ovata*, a newcomer from the Diamond Mountains in Korea, whence it was introduced by the Arnold Arboretum through seeds sent by E. H. Wilson in 1917, is first of the *Forsythias* to open its blossoms. In a wild state this is a straggling, often sprawling shrub of no great size, remarkable chiefly for its relatively large, dark green, very leathery leaves. In cultivation it is a sparsely branching, vigorous shrub with ascending, arching stems forming a broad, rounded shrub some 5 to 7 feet tall. The shoots are pale gray and this with its habit of growth readily distinguish it from other species. The leaves are thick and leathery, broadly ovate, from 2 to 3 inches long and from 1½ to 2 inches wide, coarsely-toothed, and lustrous dark green on the upper surface. The flowers, borne singly or in pairs, are each about 1 inch across and have a purple-brown calyx and a pale, rather greenish, yellow corolla. Though the flowers are smaller than those of other species and the color somewhat pale this new species, on account of its great hardiness, is likely to be of great value to northern gardens. It will probably prove hardy as far north as Ottawa and the hybridist should find it of much service.

*Forsythia suspensa*, native of China but for centuries grown in Japanese gardens and from there introduced into Holland in 1833, was the first *Forsythia* to be known. The typical form has long, whip-like branchlets, pendent or sprawling on the ground, where they root freely. It will grow from 15 to 30 feet tall and on account of its lax habit this is the best *Forsythia* for planting against walls or fences or for training over pergolas. The variety *Fortunei* is an upright growing bush of vigorous habit with erect and arching branches and abundant golden yellow blossoms. Another variety





The best Goldenbell (*Forsythia intermedia* var. *spectabilis*)



(*atrocaulis*) introduced from central China in 1907 is remarkable for its blackish purple shoots and extremely large flowers; unfortunately this does not blossom so freely as the type.

*Forsythia viridissima* was the second species introduced, being sent to England from China by Robert Fortune in 1844. This is a bush with ascending-spreading stems some 5 to 6 feet tall and bright yellow flowers. It is not so hardy as *F. suspensa* and blossoms a little later. More handsome than the type and likely to be of greater hardiness is the variety *koreana*, a common plant in the neighborhood of Seoul, the capital of Korea. This has spreading, arching branches and deeper yellow, more abundant blossoms than the Chinese type. It was introduced by the Arboretum in 1919 through seeds received from the Department of Forestry in Korea. These two Chinese species are much confused in gardens but may be readily distinguished one from the other by splitting a shoot down the middle. In *F. viridissima* the pith will be seen to be arranged in plates one above another, whereas in *F. suspensa* there is no pith and the center of the stem is hollow. Interestingly enough the hybrid between these two species, *F. intermedia*, partakes of both characters. In some shoots or parts of the same shoot lamellate pith will be seen, whereas in others no pith is present.

*Forsythia intermedia*, a hybrid between the two Chinese species, which originated in Europe some time before 1880, is superior to either of its parents. The variety *spectabilis* with rich, pure yellow flowers, each 1½ inches across, is probably the most handsome of all the Goldenbells. It is extremely floriferous and stems 6 to 8 feet long are crowded throughout the whole length with large clusters of blossoms. If only one Forsythia can be grown it should be this. Another variety of this hybrid with deep yellow flowers is *vitellina*. The variety *densiflora* has spreading and pendulous branches, much crowded, pale yellow, rather flat flowers with slightly recurved corolla lobes. The best of the pale yellow Forsythias is var. *primulina*, which originated in the Arboretum about 1910 as a chance seedling.

*Forsythia europaea* was discovered on the mountains of Albania by Dr. A. Baldacci in 1897, and was introduced into cultivation by means of seeds which he sent to Kew in 1899. It is of upright habit with pale gray shoots and yellow blossoms each about 1¼ inches in diameter. Of somewhat ungainly habit, growing 10 feet tall, it has proved more bud-hardy in the Arboretum than the Chinese species.

*Forsythia japonica* in its typical form is not represented in the Arboretum. This species is said to be abundant in the province of Bitchu in western Japan and to be related to *F. suspensa*. In central Korea grows a variety (*saxatilis*), a rather slender stemmed plant and this is now growing in the Arboretum collection.

E. H. W.

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