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The English Elm. In the discussions of the English Elm which occasionally appear in the Boston papers surprise is expressed that different individuals of this tree differ in general appearance and in the size of the leaves, showing perhaps that it is not generally known that there are four distinct species of Elm-trees now growing naturally in England. This confusion in regard to these trees is of long standing, for Linnaeus one hundred and sixty-five years ago believed that all the Elm-trees of Europe were of one kind to which he gave the name of *Ulmus campestris*, a name which must be abandoned as the four British trees and an Elm-tree of northern and eastern Europe are included in his description.

Ulmus procera. This is the name now adopted for the tree which is generally known as English Elm in Boston where it has proved one of the best foreign trees ever planted in Massachusetts. It has been growing here for more than a century, and nearly one hundred years ago Major Paddock had a nursery at Milton for the propagation and sale of this tree. Probably no tree, native or foreign, which has been planted in the neighborhood of Boston has grown to such a large size. The Paddock Elms, which stood on Tremont Street in front of the Granary Burying Ground, were of this species, as were the great Elms on the Tremont Street Mall of the Common which were killed by the Subway. The Elm-trees on each side of the Shaw Monument opposite the State House are of this species, and there are still large specimens in the suburbs of the city. This is the common Elm-tree of southern England where it grows usually in hedge-rows, although it

has been largely planted in parks. It often grows one hundred feet tall with a massive stem covered with dark deeply furrowed bark, spreading or ascending branches which form a comparatively narrow oval head, and slender branchlets thickly covered during their first year with down. The leaves are broadly oval or ovate, oblique at the base, dark green and rough on the upper surface and covered below with soft down; they are from two to three inches long with about twelve pairs of veins, and their stalks are only about one-fifth of an inch in length. This tree very rarely ripens fertile seeds in England or in this country, but it produces suckers in great numbers and is propagated entirely by means of these. As this tree so rarely produces seeds few varieties are known, but a small-leaved Elm (var. *viminalis*) is believed to be a seedling of it. Of this little Elm there are forms on which the leaves are blotched with white and with yellow.

Ulmus foliacea, or nitens. This is another English Elm which differs from the last in its paler bark, in its smooth or nearly smooth branchlets, that is without a covering of down and in its leaves which are smooth and shining on the upper surface, only slightly downy below early in the season and from two to three and a half inches long. This tree produces fertile seeds in abundance and seedlings are raised in European nurseries. It is widely distributed over central and southern Europe and grows also in northern Africa and eastern Asia. Several geographical forms are recognized; the most distinct of these are the Cornish and the Guernsey Elms which are trees of medium size with erect growing branches which form a narrow pyramidal head. Plants of these two forms are not always hardy in Massachusetts. Another form, common in Hertfordshire, is a large tree with wide-spreading and pendulous branches and at its best, although not so tall, is almost as handsome as our American White Elm (*U. americana*). Another form (var. *umbraculifera*) from Persia and Armenia is interesting from its compact globose head. This tree might perhaps be made useful in formal gardens. On many trees of *Ulmus foliacea* the branches are furnished with corky wings (var. *suberosa*), and the so-called English Elms with such branchlets occasionally seen in this country are usually of this variety. The seedling trees of this Elm which have been imported from European nurseries vary in habit, in the size of their leaves and in their hardiness; and the unhealthy and generally unsatisfactory Elm-trees which have been planted in considerable numbers in eastern Massachusetts during the last twenty years are in nine cases out of ten seedling forms of *U. foliacea*.

Ulmus glabra. This is another widely distributed European Elm which is often called Scotch Elm or Wych Elm by English-speaking people. This is a tree with a trunk and branches which remain smooth for many years. It can always be recognized, too, by the large obtuse buds covered by pale brown hairs and by its dark dull green leaves abruptly pointed or three-lobed at the apex, oblique and unsymmetrical at the base, rough above, downy below and from four to six inches long with stalks shorter than those of other Elm-trees. This tree does not sucker but produces fertile seeds in great quantities, and more abnormal seedling forms of this tree have been raised

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