

blooming are also recorded, as far as possible. The work entailed in recording notes on 4457 species and varieties of plants in the Botanic Garden is very considerable. The data accumulated every year are becoming more and more valuable and reliable.

In 1899 a catalogue of the trees and shrubs which had been tested in the Arboretum was published conjointly by Dr. Saunders and the writer, which has been received very favourably by those engaged in botanical work. In this catalogue the scientific names of the trees and shrubs are arranged alphabetically, and, when a species or variety has a common name, this is also given. The countries are named, of which the trees and shrubs are native, also the year in which they were planted. In compiling this work, the nomenclature and classification of the "Index Kewensis" and the "Kew Guide" were adopted. The name of the species or variety is printed in bold faced type, followed by the author's name in small capitals. The term "Hort." indicates a garden or gardener's variety. Synonyms of genera and species are printed in italics. The common names given are those found in the leading botanical works of modern authors.

While a large number of synonyms have been recorded, it is probable that there are still included in this catalogue some which are listed as species or varieties which are really synonyms. In recording the synonyms, the names given are only those under which the species or varieties have been received at the Experimental Farm and do not include all the known synonyms in each case. When the catalogue was published in 1899, the total number of species and varieties which had been under test was 3071. Of these 1465 had been found hardy, 330 half hardy, 229 tender, 307 were winter-killed, and 740 had not been tested long enough to admit of an opinion being given as to their hardiness. The different degrees of hardiness were fixed as follows:—Hardy, when the tree or shrub had passed through one or more winters uninjured or with very slight injury to the tips of the branches. Half hardy, when the new wood was killed back one-fourth or one-half. Tender, when the wood was killed to the snow line or to the ground.

In addition to this catalogue the writer published in his report for 1897 a descriptive list of what was considered the best one