



## Annual Report 1905-1906

TO THE PRESIDENT OF THE UNIVERSITY:

SIR,

I have the honor to submit the following report on the progress and condition of the Arnold Arboretum during the year ending July 31, 1906.

A collection of shrubs planted systematically in parallel beds for convenient study by gardeners and other visitors has been one of the principal features of the Arboretum for many years. The arrangement of this collection has not, however, proved entirely satisfactory. An attempt to include in it plants not always hardy has increased the cost and difficulty of maintenance, and the presence of such plants in a collection maintained primarily for the benefit of students has often proved misleading. Many of the plants in this collection had become too crowded and therefore unable to show their true characters, and the approaches to the collection and the walks between the beds were inadequate. A plan for a new arrangement has therefore been made, as many of the plants as possible have been moved into temporary quarters, and from the others young plants have been raised. The area devoted to this collection has been slightly increased, and the whole ground has been thoroughly drained, graded, and prepared for planting in the spring of 1907.

The study of the American species of *Crataegus* has been continued during the year. Since January, 1900, 2,281 lots of the seeds of these plants have been sown at the Arboretum, and 450 groups of these seedlings, representing distinct forms, have now been permanently planted on the slope of Peter's Hill. The interchange of plants and seeds with other horticultural and botanical establishments has been continued during the year. 12,542 plants (including grafts and cuttings) and 593 packets of seeds have been distributed as follows: To the United States, 9,751 plants and 62 packets of seeds; to Canada, 938 plants; to Jamaica, 3 packets of seeds; to Great Britain, 406 plants and 82 packets of seeds; to the continent of Europe, 1,317 plants and 287 packets of seeds; to Japan, 94 packets of seeds; to China, 3 packets of seeds; to Java, 4 packets of seeds; to Australia and New Zealand, 6 packets of seeds; to Chili, 130 plants and 44 packets of seeds; to Argentina, 3 packets of seeds; to the Philippine Islands, 5 packets of seeds. There have been received during the year 5,587 plants and 949 packets of seeds; of these plants 4,501 came from the United States, 207 from France, 460 from Germany, 68 from England, and 349 from Japan, Korea, and China. During the year 6,971 sheets of dried plants have been added to the herbarium, representing principally plants from North America, Japan, Korea, China, Chili [*sic*], and the West Indies.

The library has received by gift 2,545 bound volumes and 252 pamphlets.

During the second half of the year instruction has been given by [Mr. Jack](#) at the Arboretum to students of landscape-gardening from the [Massachusetts] Institute of Technology and to University students in forestry; and during the spring he conducted a field class in dendrology of forty special students, largely composed of teachers. In December Mr. Jack returned to the Arboretum from the East, where he was successful in obtaining a large number of seeds and young plants in Japan, Korea, and northern China. These include several species not previously cultivated. From the valuable herbarium collected by him 650 sheets have been placed in the Arboretum. In November, 1905, I went to Chili [*sic*] by way of the Isthmus of Panama, returning by the Straits of Magellan and Europe after an absence of five months. This journey was made to study the interesting forest flora of Chili [*sic*], to obtain material for the herbarium, and to extend the relations of the Arboretum. Collections were made at Panama, Guayaquil, in the neighborhood of Lima, and in central and southern Chili [*sic*].

[Mr. Alfred Rehder](#) has been engaged in Europe during the year on the work connected with the *Bradley Bibliography*; and [Mr. Shaw](#) has made another journey to Mexico to obtain material for the monograph of the genus *Pinus* on which he is engaged. The following papers have been published during the year:

*Crataegus in Eastern Pennsylvania*. By C. S. SARGENT, in Proceedings of the Academy of Natural Sciences, Philadelphia, 1905, pp. 577-661.

*Species of Crataegus Found within Twenty Miles of Albany*. By C. S. SARGENT and C. H. PECK, in New York State Bulletin No. 105 (Report of the State Botanist for 1905), pp. 44-77.

I take this opportunity to again express my thanks to the Trustees of the Massachusetts Society for the Promotion of Agriculture for their annual grant of \$2,500 for the maintenance of the Arboretum, and to the members of the Visiting Committee for their interest and assistance.

C.S. SARGENT, Director.