



Annual Report 1902-1903

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, 1903.

During the year a larger number than usual of species of living plants has been added to the collections; many renewals of worn out or unsatisfactory specimens have been made, and the living collections are believed to be richer and in a more satisfactory condition than at any time since the establishment of the Arboretum. Additional grass walks have been made where they were needed for access to the collections, and these can now all be reached easily and quickly. A culvert under South Street of insufficient capacity had for years checked the flow of the Bussey Brook during periods of freshet, and at such times the banks of the brook at the base of Hemlock Hill have often been washed away or injured. During the year the City of Boston has replaced the old culvert by one large enough to carry the brook at the time of its largest flow, and the banks near South Street have been graded and will be permanently planted. The City has also built a stone sanitary building for the use of the public at a convenient place near the middle of the Arboretum. The widening of Walter Street and the change of its grade made a new boundary wall necessary along the whole north side of the Peter's Hill extension. This has been built during the year in a substantial manner with money awarded by the Street Department of the City of Boston for the purpose.

The exchange of plants and seeds with other botanical establishments has been continued during the year. 6,964 plants (including grafts and cuttings) and 3,199 packets of seeds have been distributed as follows: To the United States, 6,393 plants and 319 packets of seeds; to Canada, 187 plants; to Great Britain, 377 plants and 375 packets of seeds; to the continent of Europe, 7 plants and 2,279 packets of seeds; to Japan, 226 packets of seeds. There have been received during the year 4,928 plants and 652 packets of seeds.

During the year 3,168 sheets of dried plants have been added to the herbarium; and 540 sheets of duplicates have been distributed to other establishments.

The library has received by gift 700 bound volumes and 600 pamphlets.

During the year Mr. George R. Shaw of Boston has fitted up one of the halls in the Museum Building with handsome and convenient cases for the preservation and display of the collection of conifers. Mr. Shaw has now taken charge of this collection, which he is improving and extending with numerous additions, especially in the genus *Pinus*, in which he is particularly interested.

During the year I have made a journey round the world for the purpose of improving the relations of the Arboretum with other botanical establishments, and of thus widening its scope and increasing its usefulness, and also for the purpose of studying the distribution of trees and forests in parts of the north temperate zone which I had not seen. During this journey I visited the botanical establishments at Kew, Paris, Leyden, Berlin, St. Petersburg, Moscow, Tiflis, Hongkong, Singapore, Buitenzorg, and Tokio [*sic*], and several commercial and private collections of plants in Europe. I was able to make considerable collections of dried plants in the Crimea and the Caucasus, in eastern Siberia and in Manchuria, on the eastern coast of Korea, in the neighborhood of Peking, on the islands of Hongkong, Singapore and Java, and in southern Japan. Of the scientific results of this journey, which is one of the most fruitful I have made, it is too soon to speak.

The work on the *Bradley Bibliography* of dendrological literature has been continued steadily throughout the year, and about 80,000 cards are now finished. Instruction in dendrology has been given by [Mr. Jack](#) to students of landscape-gardening in the [Massachusetts] Institute of Technology, and during the spring months to a class largely composed of teachers. The average attendance at these spring lectures was thirty-eight.

During the year the following works have been finished at the Arboretum and published:

Trees and Shrubs. Parts i and ii. Houghton, Mifflin & Co., Boston. Nov. 26, 1902; May 13, 1903. Plates 1-50.

"The Genus *Crataegus* in Newcastle County, Delaware." *Botanical Gazette*, XXXV, pp. 99-110. C. S. SARGENT.

"Recently Recognized Species of *Crataegus* in Eastern Canada and New England." i, ii, iii, iv, v. *Rhodora*, V, pp. 52-66; 108-118; 137-153; 159-168; 182-187. C. S. SARGENT.

"*Crataegus* in Northeastern Illinois." *Botanical Gazette*, XXXV, pp. 377-404. C. S. SARGENT.

"*Crataegus* in Rochester, New York." *Proceedings of the Rochester Academy of Science*, IV, pp. 93-136. C. S. SARGENT

"Synopsis of the Genus *Lonicera*." In *Fourteenth Report of the Missouri Botanical Garden*, pp. 27-232. Plates 1-20. ALFRED REHDER.

I am glad to 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 advice and assistance.

C. S. SARGENT, Director.