

CENSUS OF TASMANIAN PLANTS.

ERRATA.

Page 8.—Line 5, for *Mesembrianthemum* read *Mesembryanthemum*.

Page 23.—Ninth line from bottom, for *Prenela* read *Frenela*.

Page 30.—Line 22, for *Agrostis scabra* read *Agrostis decipiens*.

CENSUS OF THE PLANTS OF TASMANIA,
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I.

IN the following pages the first part of a statistic essay on Tasmanian plants is submitted to the Royal Society. This portion of the essay is limited to a list of those plants which hitherto have become known from the main island and the smaller isles under its political jurisdiction, as far as Di- and Mono-cotyledoneæ and Ferns are concerned. The arrangement is effected chiefly in accordance with the Candollean system, which in most respects represents that of Jussieu in a reversed series. But the apetalous orders of Jussieu or the Monochlamydeæ of Candolle have been distributed, with the exception of the amentaceous orders, in the other large systematic divisions, and thus several ordinal groups of plants, which by adherence to the usual methods of arrangement would stand far apart, have been brought into close proximity, according to their nearest natural affinities. Since the completion of Dr. Hooker's great work in 1860 about fifty cotyledonar plants, indigenous to the Tasmanian territory, have been discovered; but probably another half-hundred or more could yet be added by future searches, especially if such were further extended to King's Island and the interior north-western regions of the main island, where particularly among the waterplants, rushes, sedges, and minute weeds an extensive additional harvest might probably be gathered. Along with the generic and specific names in the list now prepared, is also quoted the particular publication in which each plant became systematically first established. Hence further details may be traced out from these literary indications regarding also all the plants added since the publication of the *Flora Tasmaniaica*. Bentham's important labours for 17 years past on the vegetation of all Australia have been of material aid not only in augmenting the list to its present extent, but also in reducing many specific names to older appellations, to be maintained by the right to priority. To avoid any perplexities which might

arise from this needful change of names, whenever Dr. Hooker's fundamental work is to be consulted in connection with this list, it becomes necessary to quote, at the end of each line, the number or numbers under which the species are arranged at pages lvi.-lxxxiii. in the preface to the *Flora Tasmanica*.

Wide researches into the vegetation of the whole of Australia, to which the writer has devoted much of his time during the last 32 years, have tended to change in many instances the limits assigned originally to the Tasmanian plants, and have shown a degree of variability of many species much higher than could have been anticipated from local studies. Eliminated from the present index are several plants formerly regarded as indigenous, and it is almost certain that some others ought yet to be transferred from the list of indigenous to that of the introduced species. A clear aspect of the original vegetation becomes disturbed by mixing the naturalised with the natural plants; the number of the latter may at last become fixed, but that of the former will increase constantly. An enumeration of such foreign plants as are settled beyond extirpation in the island will form part of the next chapter of this dissertation. A few other plants, accepted in Dr. Hooker's works, have also been excluded here, as their specific validity remained yet obscure. They must find, if necessary, a place in supplemental notes to this compilation. It is also intended to continue this essay in other directions, while statistic labours on the plants of the colony of Victoria are progressing, inasmuch as the vegetation of each of the Australian provinces can only be fully elucidated by comparative studies. Material which Tasmanian residents, imbued with scientific taste, will be inclined to secure for the purposes indicated, will be gratefully utilised, and will tend to advance the knowledge of the indigenous vegetation towards gradual completion. Finally, then, also inexpensive volumes on the native plants of the island and its dependencies, such as the meritorious publication of the late Rev. W. W. Spicer, might emanate from augmented material and extended studies for educational purposes, recreative intellectual occupations, utilitarian references, or further contributions to science.

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