

Summary of the Flora of the Sandwich Islands. (After Hillebrand.)

| | Species. | | | | |
|----------------------------|-----------------------------|-------------------------|------------|------------|------------|
| | Of aboriginal introduction. | Of recent introduction. | Endemic. | Original. | Total. |
| Dicotyledones | 13 | 92 | 500 | 584 | 689 |
| Monocotyledones | 11 | 23 | 74 | 121 | 155 |
| Phanerogamia | 24 | 115 | 574 | 705 | 844 |
| Cryptogamia Vasculares.... | 0 | 0 | 79 | 155 | 155 |
| Totals | 24 | 115 | 653 | 860 | 999 |

The 860 species of vascular plants regarded as indigenous belong to 265 genera, being as 3·25 to 1, or about half that in large continental areas such as Mexico, Australia, and British India. Notwithstanding this low average number of species to a genus, the most striking feature in the flora is the large number of species of many of the endemic genera. Thus, *Schiedea* (Caryophyllaceæ), 17; *Kadua* (Rubiaceæ), 13; *Clermontia* (Campanulaceæ), 11; *Cyanea* (Campanulaceæ), 28; and *Stenogyne* (Labiatæ), 17. Further the Polynesian genera *Pelea* (Rutaceæ) and *Phyllostegia* (Labiatæ) are represented by 20 and 16 species respectively, and *Cyrtandra* by 29 species*. Of the indigenous species 81·4 per cent. are endemic—a proportion exceeded in no other Flora of the same extent, perhaps, except that of West Australia, in which it is 85 per cent. Ninety-five orders of Phanerogamia are represented; and the proportion of Monocotyledones to Dicotyledones is as 1 to 4·8, or higher than might have been expected; but the former consist largely of Glumiferæ, petaloid monocots being rare, and orchids are represented by only three terrestrial genera, and one endemic species of each genus.

The question arises whether any of the other islands or groups of islands in the Pacific can appropriately be associated with the Sandwich Islands. The connection with the other Pacific islands beyond the sea-coast and Australian elements is so very slight that the Sandwich Islands stand almost completely isolated. Nadeaud † describes a plant from Tahiti which he refers to *Phyllostegia*, otherwise exclusively belonging to the Sandwich Islands; *Sclerotheca arborea* (Campanulaceæ), also a native of the Society Islands, is said to be more nearly related to the American genus *Siphocampylus* than it is to the endemic genera of the Sandwich Islands‡; *Fitchia*, the only genus of Compo-

* Thirty-two according to Clarke's monograph, overlooked by Hillebrand.

† Enumération des Plantes Indigène de l'Île de Tahiti, p. 56.

‡ Bentham and Hooker, Gen. Pl. ii. p. 548.