Dracophyllum subulatum, Gaultheria rupestris, Leucopogon Fraseri. Podocarpus nivalis, Dacrydium laxifolium, and Phyllocladus alpinus. There are also prominent the herbaceous plants Celmisia spectabilis, Celmisia longifolia, Celmisia incana, Celmisia glandulosa, Helichrysum bellidioides, Ourisia macrophylla, Ourisia Colensoi, Euphrasia cuneata, Gentiana bellidifolia, and Ranunculus nivicola: Poa Colensoi, Danthonia Raoulii, and Hierochloe redolens abound. Carpha alpina is also much in evidence. The foregoing plants extend up through the boggy slopes almost uniformly to two or three hundred feet from the rocky summit (about 5,000 ft.), where there are only a few gaultherias, celmisias, dracophyllums, Totara nivalis, Veronica tetragona, Coprosma depressa, Poa Colensoi, &c., with lichens and mosses, to represent the vegetable kingdom.

In the valley lying between Hauhungatahi and Ruapehu are large patches of mountain-beech forest, between which are boggy spaces carrying the shrubs, herbs, &c., that other similar localities

in the district carry.

Travelling from Erua in a southerly direction to Pokaka, the same approximate altitude of 2,600ft. is kept; and the predominating forest-trees are tawhero (Weinmannia racemosa), Olea lanceolata, Griselinia littoralis, Myrsine salicina, Panax arboreum, Carpodetus serratus, Elaeocarpus Hookerianus, Libocedrus Bidwillii, Dacrydium cupressinum, Podocarpus spicatus, Podocarpus ferrugineus, Podocarpus dacrydioides, and some Fagus Solandri; with the usual undergrowth of Coprosma tenuifolia, Coprosma grandifolia, and Coprosma foetidissima, Drimys axillaris, Drimys colorata, Myrtus pedunculata, with an abundance of the ferns Todea superba, Aspidium aculeatum var. vestitum, and Lomaria discolor. The giant astelia (Astelia nervosa), Enargea marginata, and Cordyline indivisa now form prominent features in the forest. The Cordyline indivisa (mountain cabbage-tree) almost takes possession of any neglected bush-clearing, and forms beautiful avenues along the roadsides. It is a shame that this queen of lilies should have a name that associates it with the kitchen-garden. Unfortunately, my best picture of it was spoiled. In the accompanying photo it is represented by only small specimens.

În this stretch of country lie the Makatote* and Manganui-a-te-ao Gorges, and, being some 300 ft. deep, they naturally carry plants that are not seen on the table-land above. For instance, Fagus cliffortioides is found on the gorge-sides, Cladium Sinclairii, Dracophyllum longifolium, Coriaria ruscifolia, Coriaria thymifolia, Gaultheria rupestris, Gaultheria antipoda, Lomaria vulcanica, Senecio latifolius, Olearia nitida, Arundo conspicua, Veronica catarractac, Ourisia macrophylla, Calceolaria repens, Carmichaelia flagelliformis, Leptospermum scoparium, Cyathodes acerosa, Raoulia tenuicaulis, Helichrysum bellidioides, and the subalpine plants Ranunculus insignis, Veronica Hookeriana, Gentiana bellidifolia, Celmisia spectabilis, Cassinia Vauvilliersii, and Senecio Bidwillii here and there make their appearance

on the river-beds.

Travelling due west from Pokaka Station, though the altitude remains about the same, the dominant Libocedrus gradually lessens, and at a distance of about three miles from the railway the forest approaches in constitution that growing at the 1,500 ft. level. The chief tree components are rimu (Dacrydium cupressinum), growing much more luxuriantly than in the last-described localities, matai (Podocarpus spicatus), miro (Podocarpus ferruginea), Weinmannia racemosa, Griselinia littoralis, Olea lanceolata, Myrsine salicina, Carpodetus serratus, Pennantia corymbosa, Panax arboreum, Pseudopanax crassifolium, Elaeocarpus Hookerianus, Olea Cunninghamii, Panax Edgerleyi, Elaeocarpus dentatus, Podocarpus dacrydioides, Coprosma Colensoi, Plagianthus betulinus, and Dacrydium Colensoi; the undergrowth is principally Aristotelia racemosa, Drimys colorata and D. axillaris, Fuchsia excorticata, Coprosma tenuifolia and C. grandifolia, Panax Colensoi, Myrtus pedunculata, Coprosma foetidissima, Melicytus ramiflorus and M. lanceolatus, Brachyglottis repanda, and Coprosma parviflora. are more plentiful, the chief being Dicksonia fibrosa and Hemitelia Smithii, with occasional Dicksonia squarrosa and Cyathea dealbata. Of small ferns, Todea superba, Lomaria discolor, Lomaria fluviatilis, Lomaria lanceolata, Lomaria Pattersoni, Lomaria capensis, Pteris incisa, P. scaberula, and P. aquilina. Hypolepis distans, Hypolepis tenuifolia, Asplenium falcatum, A. flaccidum, and A. bulbiforum, Aspidium aculeatum var. vestitum, Polypodium Billardieri, P. novae-zelandiae, and P. grammitidis, Hymenophyllum pulcherrimum, H. demissum, and H. rarum, are all plentiful. The lianes are Rubus australis, R. cissoides, and R. schmideloides, Muchlenbeckia australis and M. complexa, Parsonsia heterophylla and P. capillaris, Clematis indivisa, and Metrosideros hypericifolia; the Rhipogonum scandens is still noticeable by its The soil in this locality is still a light-brown volcanic loam.

Progressing from Pokaka, still at the same altitude, in a southerly direction to Horopito, one traverses between the Fagus and taxad zone; on the west the forest is composed mostly of rather stunted Dacrydium cupressinum (rimu), Podocarpus spicatus (matai), Podocarpus terruginca, Libocedrus Bidwillii (cedar), Podocarpus dacrydioides, and occasional Dacrydium Colensoi. Between the railway and the base of Ruapehu the forest-trees are mostly Fagus, Weinmannia racemosa, Griselinia littoralis, Panax arboreum, Elaeocarpus Hookerianus, with an occasional rimu, kaikawaka, totara, and matai. The chief shrubs and smaller trees are Myrtus pedunculata, young Fagus Solandri, Panax simplex and P. anomalum, Coprosma tenuifolia and C. foetidissima, Myrsine divaricata, Pseudopanax crassifol um, Leucopogon fasciculatus, Cyathodes acerosa, Coprosma robusta, C. propingua, C. Colensoi, C. cuneata, and C. parviflora. Astelia nervosa is plentiful on the mossy floor. In this locality I found growing on a rotten tree-trunk one or two very large specimens of the orchid Chiloglottis cornuta. At about three miles from the railway the Fagus Solandri gives place to the Fagus fusca and Fagus Menziesii, which continue to the outer zone of forest, where Fagus cliffortioides takes their place, and becomes the dominant tree.

Advancing from Horopito to Ohakune (which is 2,000 ft. high) the taxads again become more vigorous, and another more noticeable change is the occasional instrusion of wedges of rata (Metro-

^{* &}quot;Makatote" (which is locally mispronounced "Makkatote") is a contraction of the Maori "Manga katote"—manga meaning a branch of a river, and katote being the name of the tree-fern Hemitelia Smithii.