

The forests properly attributable to the Columbia Region comprise stands in the valleys of the Columbia and other rivers that lie between elevations of 2,500 feet and 4,000 feet above sea-level. Below this range occurs the Montane Region, and above it the Sub-Alpine. The climate is intermediate between those of the Coast and Montane Regions. The precipitation varies from 30 to 60 inches. The Region actually should be mapped as a series of 'islands' and 'stringers' surrounded by patches of sub-alpine forest; but it is impracticable to do this on so small a scale as is used for the map facing p. 188.

Some authorities consider the Columbia Region to be merely an extension of the Coast Forest Region. Because of the complete physical separation of the two regions in Canada, and also because of important differences in environmental conditions, the division made here has been adopted.

The principal species in this Region are Englemann spruce, western red cedar, western hemlock and Douglas fir. Among other species of considerable importance are alpine and grand firs, western white pine and western larch. Lodgepole pine commonly replaces stands destroyed by fire. Black cottonwood is found on rich alluvial soils.

The Montane Forest Region.—This Region forms part of what is often termed the Interior Dry Belt of British Columbia. It occupies an extensive series of plateaux, valleys and ranges in the interior of the Province, which extends northward from the International Boundary to the valley of the Skeena River. The climate is relatively dry, with low summer rainfall, and moderate to high temperatures. The driest conditions are found in the lower river valleys; here the forest gives way to open grassland.

The principal tree species are ponderosa pine, Douglas fir, lodgepole pine and aspen. Towards the northern half of the Region ponderosa pine disappears and associations of Douglas fir and lodgepole pine become dominant. Towards the north and east, stands of Englemann spruce and alpine fir grade into the forests of the Sub-Alpine and Columbia Regions. Aspen is an important constituent of the northern parts of this forest.

The Coast Forest Region.—This Region includes the western slope of the Coast and Cascade Mountains and the insular system, the higher elevations of which form Vancouver Island, the Queen Charlotte group and other islands along the coast.

The climate in this Region is mild and equable, with heavy precipitation varying from 40 to 200 inches per annum, about 70 p.c. of which falls during the autumn and winter months. These conditions are conducive to the luxurious growth of coniferous forests, and produce the largest trees and the heaviest stands in the Dominion.

The dominant trees are western hemlock and western red cedar. Associated with these are Douglas fir in the south and Sitka spruce in the north. All four of these species, of which the most important commercially is Douglas fir, grow to large sizes, and occasionally are found in stands running up to 100,000 ft. b.m. per acre. Other conifers that occur in the Region but are of much less importance include: yellow cedar; mountain hemlock; amabilis, grand and alpine firs; and western white pine. Of the broad-leaved trees, several alders are widely distributed, and Garry oak and madrona are found in the vicinity of the Straits of Georgia. Broad-leaved maple and vine maple occur at low elevations in the southern sections,