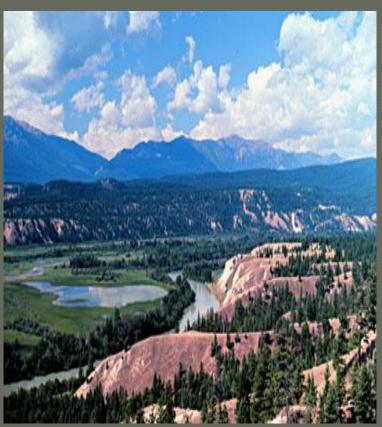
Montane Cordillera



Glossary Words!

- Orographic precipitation
- Windward
- Alpine tundra
- Leeward
- Mountain pine beetle



Montane Cordillera



LANDSCAPE

- This eco zone lies mostly in British Columbia, with 10% in Alberta
- It consists of rows of mountains separated by wide valleys and plateaus (areas of elevated, flat land)
- The montane cordillera is a land of exceptional natural history

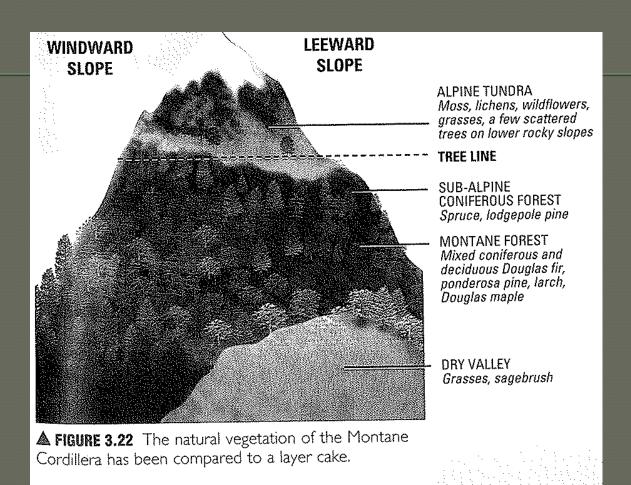
Montane Cordillera



NATURAL VEGETATION

- Natural vegetation varies greatly in the Montane Cordillera. This depends upon the location on mountains or in valleys
- Why does vegetation vary?
 - Orographic precipitation

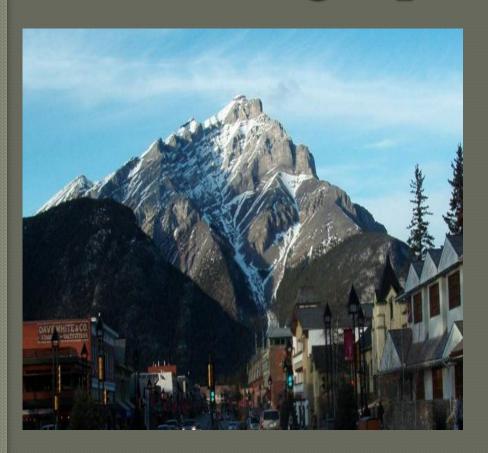
Page 123 (fig. 3.22)





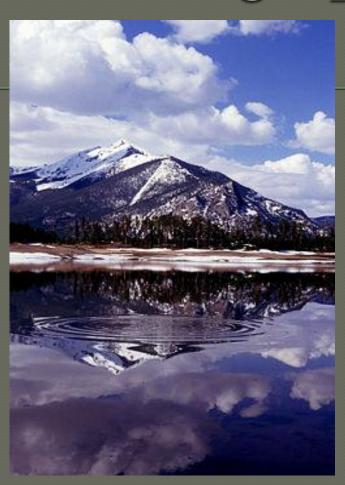
WINDWARD SLOPES OF MOUNTAINS

- These slopes are located on the west side of the mountain ranges where wind brings moisture from the Pacific.
- Most precipitation is found on the windward side of mountains, so the lower parts of windward slopes are dense with coniferous forests (spruce, pine).



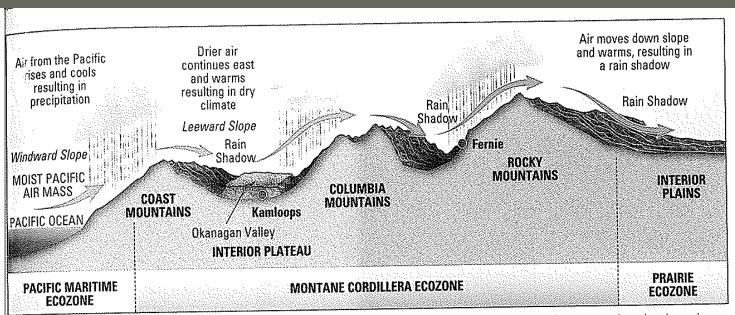
NEAR THE TOP OF THE MOUNTAIN

- The mountain top is too cold and windswept for trees to grow, so alpine tundra vegetation grows here (moss, lichen, and grasses).
- Mountain Peaks
 - Have permanent ice.



THE LEEWARD SIDE OF MOUNTAINS

- This side of the mountain is more protected and therefore does not receive much precipitation.
- Grasses and sagebrush grow in valleys of these regions.



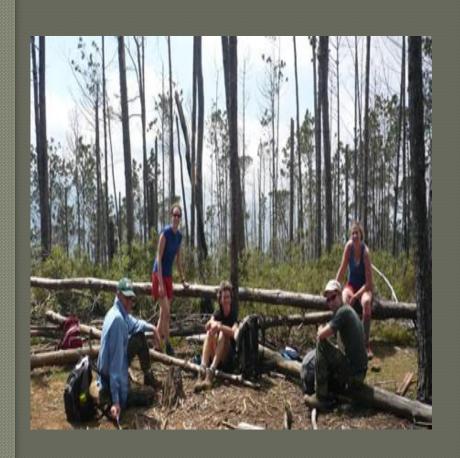
▲ FIGURE 3.21 The Coastal Mountains force moist air masses moving in from the Pacific Ocean to rise. As they rise, the air cools off, clouds form, and their moisture is often dropped as rain or snow. Mountain ranges like the Columbia Mountains in the interior and the Rocky Mountains on the eastern edge of the ecozone force the air to rise again, bringing rain to the western side of the mountains. This is called orographic precipitation.

Wildlife



- Big horned sheep
- Mountain goats
- Grizzly Bear
- White tailed deer
- Mink

People



Forestry

 Coniferous forests of the lower and middle slopes are a great resource for logging companies.

Tourism

 Hiking, mountain climbing, hunting, fishing, etc.

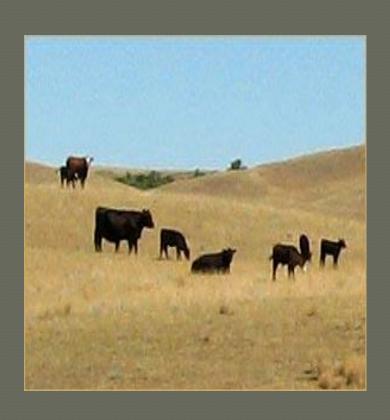
People

Farming

 Climate and soil conditions in valleys provide ideal conditions for fruit farming and vineyards



People



Mining

 Coal deposits in ancient sedimentary rock provides a great resource for mining companies

Cattle Ranching

 Grasslands on interior plateaus are perfect for cattle ranching

Threats



Logging

- Logging, replanting and maintaining forest cover is essential for sustaining wildlife habitats
- Urban growth, industrialization, agriculture and tourism are encroaching on grasslands and increasing pressure on water supplies.

Threats



The Mountain Pine Beetle

- Kills trees by eating holes in the inner bark, laying eggs there.
- This leaves a mass of dying red trees, costing the provincial economy millions of dollars
- Both B.C and Alberta are burning forests in an attempt to contain and kill the pest.

Geolab Challenge

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Solving A Climate Mystery

