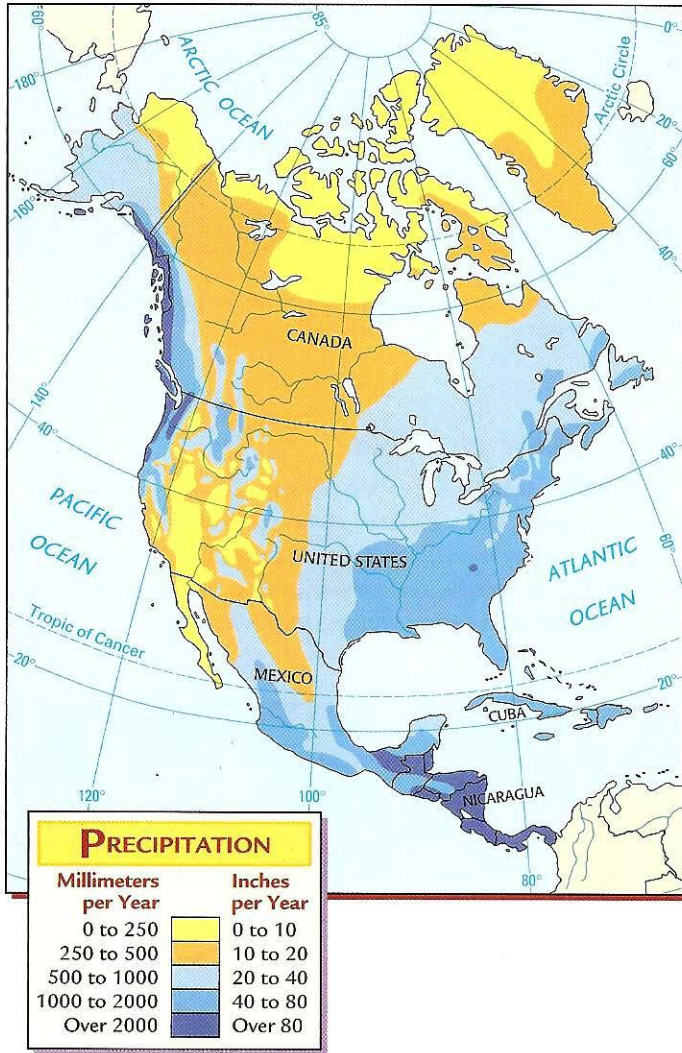
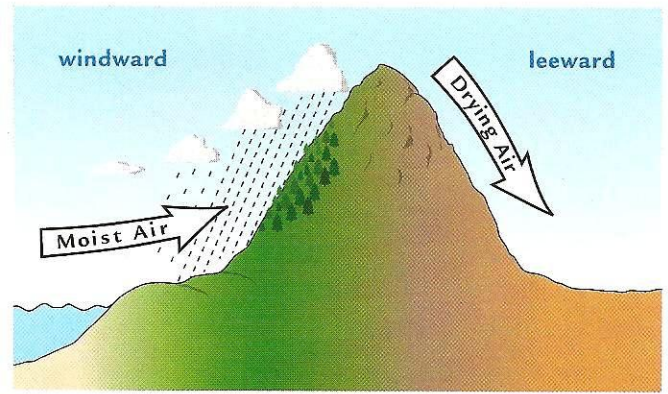
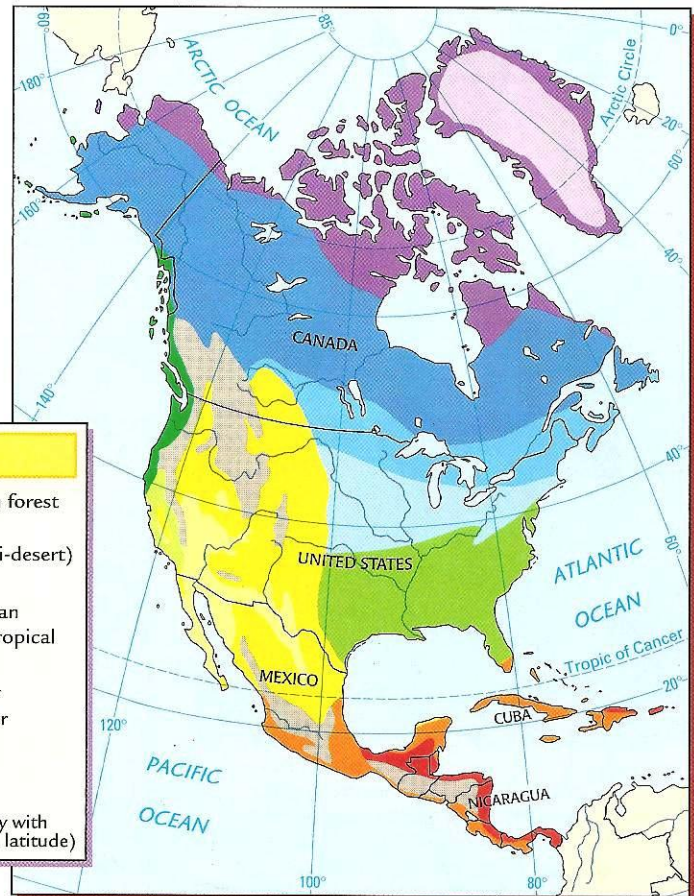
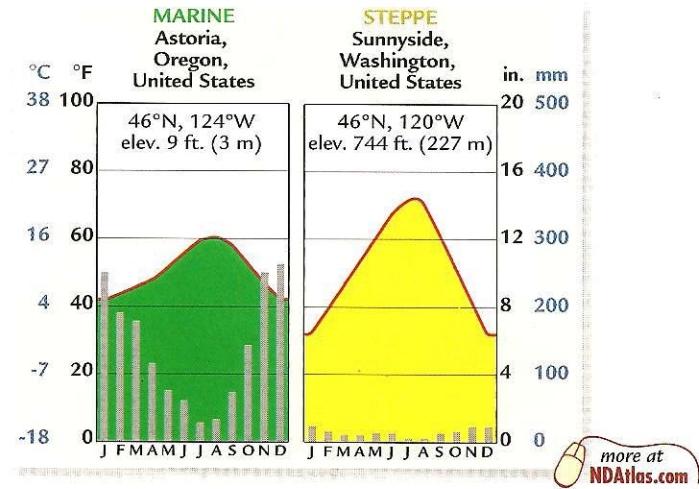


RAIN SHADOW EFFECT

When moist warm air meets a mountain range, it rises, cools, and creates clouds that rain on the **windward** side of the mountain. The air then becomes drier as it descends the opposite **leeward** side of the mountain. Few clouds reach the leeward side, so it is relatively dry. Astoria lies near the Pacific Coast on the windward side of the Cascade Range, while Sunnyside lies on the leeward side.



CLIMOGRAPHS



A Smoggy Day

Combine calm winds and a sunny day with nitrogen oxides from car and factory exhaust fumes and volatile organic compounds and you get smog. Any city can have smog, but it's especially a problem when smog is trapped by nearby mountains, as in Los Angeles, Denver, and Mexico City. In fact, Mexico City has the worst levels of smog in the world.