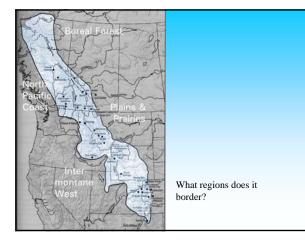






What states and provinces are part of the region?



## Overview

- Rugged
- Scenic
- Unpopulated

### **Physical setting**

- Mostly mountainous with some peaks above 14,000 ft
- Relatively new
  - Complicated history, uplifted several times
- Regions
  - The Rocky Mountains themselves
  - The Wyoming Basin
  - The Rocky Mountain Trench
  - Inland British Columbia

### **US Rocky Mountains**

- Generally run north-south
  - Uinta Mountains in Utah run east-west
- Highest peaks in the southern Rockies
  - Highest: Mt. Elbert, 14,433'
- Lower peaks, more disorganize north
- · Sharp relief
  - "Front Range" rises up from Pla floor

## **Canadian Rockies**

- Not as tall as US Rockies
- Parallel Ridges SE-NW
- Steep U-shaped valleys; waterfalls
- Columbia Icefield

   Alpine glaciers snake downward



## **Rocky Mountain Trench**

- Line from Montana to Yukon
- Wide valleys
- Many rivers begin here



## Wyoming Basin

- Significant gap in Rocky Mountains
- Mostly arid shrublandKey for westward
- Key for westward travelers



## South Pass, Wyoming

- Main route west
- "Discovered" in 1812
- Was used for Oregon Trail, ultimately crossed by 150,000 settlers



## **Interior B.C.**

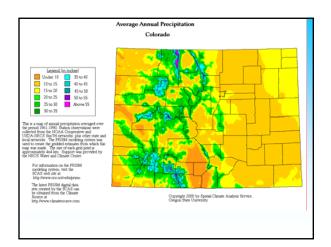
• North of highest mountains, rugged but less steep mountains and plateaus



### Climate

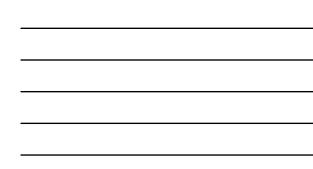
- Variable from place to place
- Vertical zonation

  - Colder as you move upwards,Also cold in valley floors and basins
- More precipitation in some areas than others Windward sides get more precipitation
  - South-facing sides lose snow faster
- Windy





		te com	•	
	Akron	Prince	Jackson,	Trinidad,
		George, BC	Wyoming	Colorado
Jan Temp	33 / 17	20 / 7	28 / 5	47 / 13
Jul Temp	82 / 61	72 / 48	81 / 39	86 / 53
Rainfall	38 in.	23 in.	17 in.	16 in.
Snowfall	45 in.	85 in.	73 in.	43 in.



### Natural vegetation: Forest

• Coniferous

wind

Stunted in locations
Growth controlled by







### Treeline

- Elevation above which trees don't grow
  - Too cold
  - Too windy
  - Too little moisture
- Varies with latitude
  - New Mexico 12,000'
  - Wyoming: 10,000'
  - S. Alberta: 5,000'
  - Yukon line: 2,500'

# Alpine vegetation

- Lichens
- Mosses
- Herbs
- Ground-hugging





## Wildlife

- Elk
- Mountain lion
- Bighorn Sheep
- Antelope
- Bear



### Settlement

- Sparse throughout history
- Natives used area as summer hunting ground
- Spanish explored southern sections
- French explored northern Rockies via Missouri River

- Mostly as fur traders

- Early explorers sought routes west - Mackenzie 1793
  - Lewis and Clark 1803-4

### Settlement

- Only settlements for fur trading through 1840s
- Gold Rush California 1849
- People had to pass through
- Gold rush Rockies 1859
  - Barkerville, Cariboo Mountains, B.C.
  - Central City, CO up to 100,000 prospectors
- Later attractions
  - Lumber
  - Tourism

# **Present population**

- Mostly White
- Some resort towns with significant growth
- Large seasonal population due to parks
- Overall totals low

# **Population numbers**

State/Metro Area	2000	1990	Change
Santa Fe, NM	147	117	+26%
Teton County, WY	18	11	+63%
Missoula, MT	95	77	+21%
Prince George, BC	85	85	+0%
Kelowna, BC	147	135	+8%
Jasper, AB	34	31	+11%
US & Canada	312,600	276,700	+13%

# Mining • Many products - Gold - Silver - Lead - Copper - Zinc - Molybdenum - Coal and natural gas - Boom-bust cycle - Most growth now in Coal and natural gas

### Butte, Montana

- Copper mine
- "Richest Hill on Earth"
- 1900: 140,000 tons of ore and waste removed every 24 hours
- 7000 feet wide, 5600 feet long, 1800 feet deep
- Now 30 billion gallon lake, pH of 2.5



## Forestry

- Small component
  - More in Idaho / Montana / B.C. / Alberta
  - Little in Southern Rockies
- Much of land protected

### Livestock

- Sheep and cattle
- Graze on federal land
- Move higher up into mountains in summer, back to lower ground in winter

## Agriculture

- Lesser importance than in other regions
- Mostly feed for livestock
- Hay • Ginseng
- Significant cash crop in British Columbia • Irrigation necessary in most locations
- Most farmland small, due to topography

#### Water Resources

- Relatively clean rivers flow out of Rockies in all directions
- Recent developments: reservoirs and hydroelectric dams
- Increasing water surface area
- Most rivers in Colorado that flow west have some diverted east for Denver and other cities

### Tourism

- Tourism most dynamic of industries in region
- Variability between summer and winter tourism

## Tourism

- Scenery
- Southwest Native culture
- Fishing
- Hunting
- Skiing

## Santa Fe

- 400-year old settlement
- Major Arts community
- Southwestern cultural center



## Colorado

- Pike's Peak
- Rocky Mountain National Park
- Many local Parks
- Numerous ski resorts in winter

   Aspen, Vail, ...



## **Yellowstone - Tetons**

- Yellowstone, Wyoming: First national park in world (1872)
- Much wildlife
- Geothermal activity
- 4 million visitors annually



## **Canadian Rocky parks**

- Banff, Jasper, Yoho, Kootenay
- Spectacular scenery3 million visitors



### **Transportation**

- Roadways have made travel easier
- I-80 and Transcanada Hwy.
- Seasonal concerns



# Outlook

- Economic activity based on mining and tourism
  - Mining is boom / bust
  - Tourism likely to grow
- Water resources will become scarcer
- Growing demand from adjacent regions
- Significant seasonal and "second home" population