RIDE The ROCKIES 2004

Ride The Rockies Route—431 Miles

Start

DAY 1
Sunday, June 20
Boulder to Estes Park – 56 Miles

DAY 2
Monday, June 21
Estes Park to Granby – 63 Miles
Trail Ridge Road – 12,183 Feet

DAY 3
Tuesday, June 22
Granby to Steamboat Springs –100 Miles
Gore Pass – 9,527 Feet

DAY 4
Wednesday, June 23
Steamboat Springs –
Rest Day or Optional Loop Ride – 65 Miles

DAY 5
Thursday, June 24
Steamboat Springs to Frisco – 98 Miles
Rabbit Ears Pass – 9,426 Feet

DAY 6
Friday, June 25
Frisco to Idaho Springs – 49 Miles
Loveland Pass – 11,992 Feet

Finish
**Geology Along Ride The Rockies Route**

*Quaternary – 0 to 1.8 million years ago*
This is the period during which the present landscape formed. Glaciation peaked and waned several times, sculpting cirques (semicircular-shaped bowls at the heads of mountain valleys) and U-shaped valleys. Last major glaciers retreated about 12,000 years ago. Includes alluvium (sand, gravel, and silt deposited by rivers and streams), eolian (windblown) deposits, glacial deposits, landslide deposits, and young volcanic rocks (basalt flows).

*Tertiary – 1.8 to 66 million years ago*
A major mountain-building episode, the Laramide orogeny, occurred during this period—70 to 45 million years ago. Erosion then exposed basement rocks and created a flat surface. Erosion of this surface during regional uplift—beginning 10 to 5 million years ago—shaped the present mountain landscape. Rifting (faulting) began about 30 million years ago, creating the Arkansas and San Luis Valleys.

**Sedimentary rocks of Tertiary age**
Includes sandstone, siltstone, shale, claystone, and conglomerate (rounded rock fragments in a fine-grained matrix). (Indicated by dark brown)

**Igneous rocks of Tertiary age**
Includes volcanic rocks, such as basalt, rhyolite, and ash-flow tuffs (especially in the San Juan Mountains), and intrusive rocks with compositions similar to granite. (Indicated by lighter brown)

*Cretaceous – 66 to 144 million years ago*
A seaway flooded Colorado, depositing shallow marine, shoreline, and swamp sediments. Dinosaurs became extinct by the end of this period. Includes primarily shale, sandstone, and coal, and minor limestone and conglomerate (rounded rock fragments in a fine-grained matrix). (Indicated by light green)

*Jurassic and Triassic – 144 to 245 million years ago (includes some rocks as old as 320 million years)*
The Ancestral Rockies were eroded during this time of deserts, intermittent streams, salt flats, coastal plains, dunes, and deltas. Dinosaur fossils and footprints are found in deposits of ancient river channels. Includes sandstone, siltstone, and claystone, and minor limestone, gypsum, and conglomerate (rounded rock fragments in a fine-grained matrix). (Indicated by dark green)

*Permian and Pennsylvanian – 245 to 320 million years ago*
During this time, rocks were uplifted to form the Ancestral Rocky Mountains, which were just as high and rugged as our present mountains. Erosion of older sediments
resulted in deposition along mountain flanks and in basins. Includes sandstone, siltstone, shale, conglomerate (rounded rock fragments in a fine-grained matrix), gypsum, and limestone. (Indicated by light blue)

**Mississippian to Cambrian – 320 to 540 million years ago**
This was a time of widespread marine deposition when Colorado was intermittently below sea level. Represented mostly by limestone, but also includes quartzite, sandstone, shale, and dolomite. (Indicated by dark blue)

**Precambrian – older than 540 million years ago (includes rocks as old as about 1.8 billion years in Colorado)**
The Precambrian Era accounts for more than 85 percent of geologic time. These rocks are referred to as the basement rocks; they are exposed in the cores of major mountain ranges and in some of the deeper canyons. They are the products of metamorphism (changes in the chemistry and fabric resulting from heat and/or pressure) and igneous intrusion (emplacement of molten rock). Includes intrusive rocks, chiefly granite, and metamorphic rocks such as gneiss, schist, and quartzite. (Indicated by gray)


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