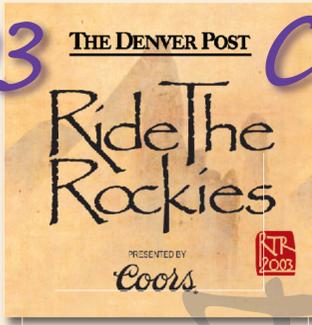
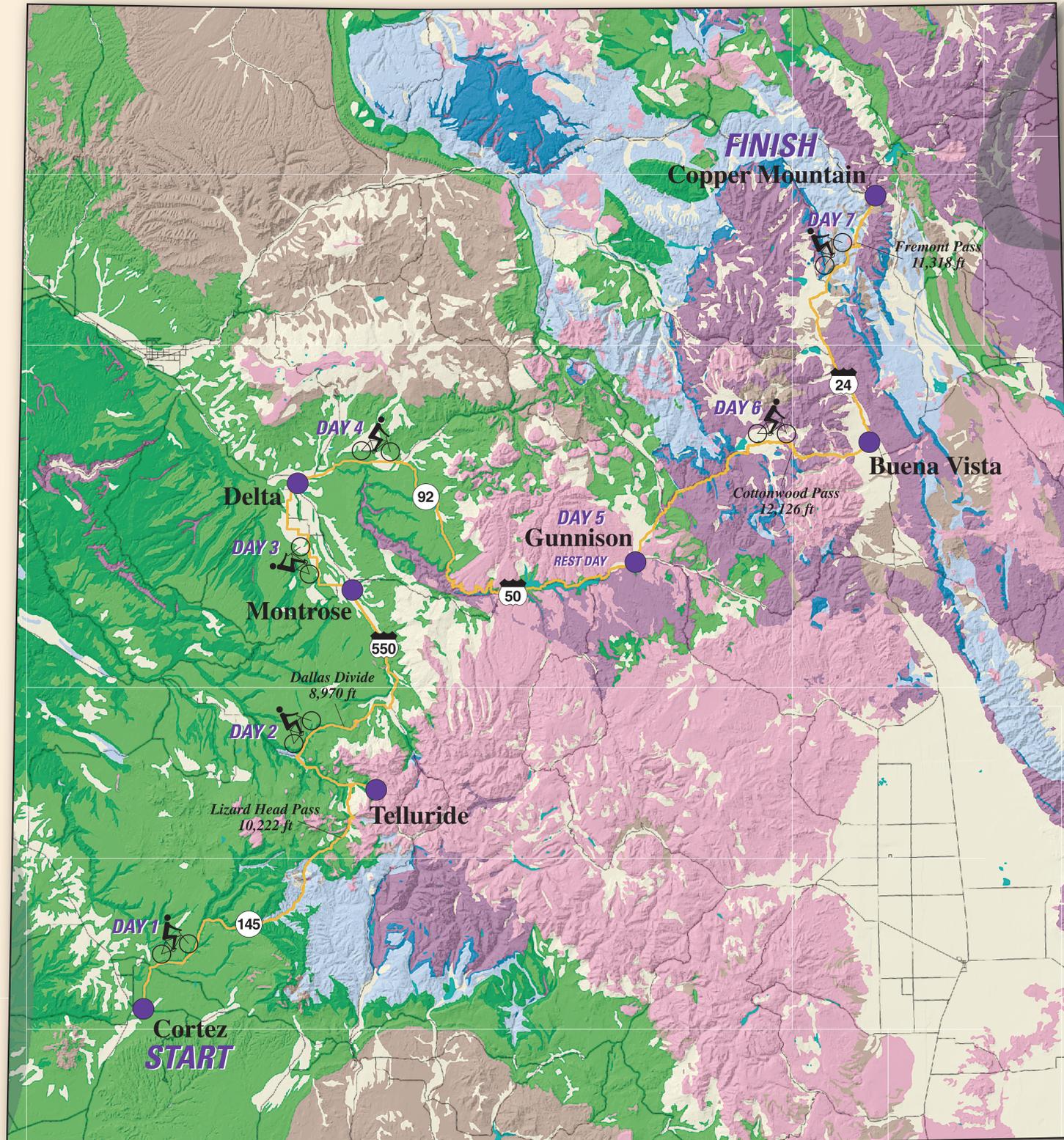
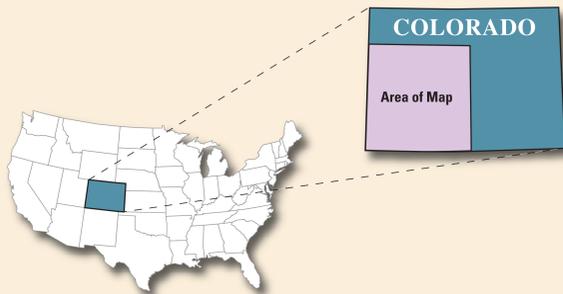


2003 *THE DENVER POST* Ride The Rockies Cortez to Copper Mountain June 15–21, 2003 404 Miles



Ride The Rockies Route — 404 Miles

- Sunday, June 15**
Cortez to Telluride - 77 Miles
Lizard Head Pass - 10,222 Feet
- Monday, June 16**
Telluride to Montrose - 65 Miles
Dallas Divide - 8,970 Feet
- Tuesday, June 17**
Montrose to Delta - 32 Miles
- Wednesday, June 18**
Delta to Gunnison - 102 Miles
North Rim, Black Canyon of the Gunnison - 9,130 Feet
- Thursday, June 19**
Gunnison - Rest Day
- Friday, June 20**
Gunnison to Buena Vista - 69 Miles
Cottonwood Pass - 12,126 Feet
- Saturday, June 21**
Buena Vista to Copper Mountain - 59 Miles
Fremont Pass - 11,318 Feet



Ride The Rockies Course Route Shown on USGS Geologic Map

- 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 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 planar 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).
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.
- 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).
- Jurassic, Triassic, and rocks that span Triassic-Permian-Pennsylvanian – 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; minor limestone, gypsum, and conglomerate (rounded rock fragments in a fine-grained matrix).
- 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 flanks and in basins.
Includes sandstone, siltstone, shale, conglomerate (rounded rock fragments in a fine-grained matrix), gypsum, and limestone.
- Pre-Pennsylvanian Paleozoic – 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.
- Precambrian – older than 540 million years ago (includes rocks as old as about 1,800 million years in Colorado)**
This era accounts for more than 85% 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.
- Lakes**



To download this and other USGS materials related to Ride The Rockies, go to: <http://www.cr.usgs.gov/rttr.htm>
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