USGS
science for a changing world

U.S. Department of the Interior
U.S. Geological Survey

Scientific Investigations Map 3382
Sheet 1 of 2
Pamphlet accompanies map

Geologic Map of the Upper Arkansas River Valley Region, North-Central Colorado

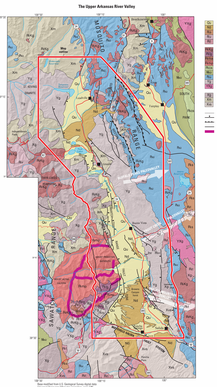
By

Karl S. Kellogg,[1] Ralph R. Shroba,[1] Chester A. Ruleman,[1] Robert G. Bohannon,[1] William C. McIntosh,[2] Wayne R. Premo,[3] Michael A. Cosca,[3] Richard J. Moscati,[3] and Theodore R. Brandt[3]

2017



View north of soft-bed (white layer ~30 centimeters [cm] thick), about 1 meter (m) below the top of an exposed section of Dry Union Formation, just below the Qgd outwash gravel deposit, on which the person is standing (Qgd, Pleistocene, Lake Fork Gulch, Saguache County, Colo.). Lower left of the photo: The soft bed in the photo is correlated with dated ash exposed at location B, about 0.9 kilometers (km) southwest of photo. The ash bed at location B has a U-Pb zircon age of 34.2 $\pm$0.032 Ma (table 2; Figure 9 in text).


The Upper Arkansas River Valley
Salida
Poncha Springs
Buena Vista
Nathrop
Granite
Twin Lakes
Leadville
Tennessee Pass
Mount Elbert
Mount Massive
Mount Harvard
Collegiate Peaks Wilderness
Sawatch Range
Arkansas River
Twin Lakes Reservoir
Clear Creek Reservoir
Turquoise Lake
Lake Ivanhoe
Lake Fork
Lake Creek
Chalk Creek
Cottonwood Creek
Pine Creek
Clear Creek
Ute Creek
Willow Creek
Tennessee Creek
Mount Elbert Forebay Reservoir
Twin Lakes Dam
Mount Elbert Pumped Storage Powerplant
Leadville Mine Drainage Tunnel
Fryingpan-Arkansas Project
Twin Lakes Tunnel
Independence Pass
Hagerman Pass
Fremont Pass
Mosquito Pass
Mount Sherman
Mount Democrat
Mount Cameron
Mount Lincoln
Mount Bross
Mount Quandary
Mount Sheridan
Mount Buckskin
Mount Valois
Mount Yale
Mount Princeton
Mount Antero
Mount Shavano
Tabeguache Peak
Chipeta Peak
Ouray Peak
Tenmile Range
Mosquito Range
Park Range
Elk Mountains
Sawatch Range
Arkansas Valley
North Park
Middle Park
South Park
Upper Arkansas River Valley
Colorado
Kansas
Nebraska
Utah
New Mexico
Wyoming
Denver
Colorado Springs
Pueblo
Grand Junction
Fort Collins
Greeley
Boulder
Aspen
Durango
Glenwood Springs
Steamboat Springs
Montrose
Gunnison
Salida
Buena Vista
Leadville
Granite
Poncha Springs
Twin Lakes
Nathrop
Tennessee Pass
Independence Pass
Hagerman Pass
Fremont Pass
Mosquito Pass
Mount Elbert
Mount Massive
Mount Harvard