

PRELIMINARY SURFICIAL GEOLOGIC MAP AND MATERIALS TEST DATA
OF THE GOLDEN QUADRANGLE, JEFFERSON COUNTY, COLORADO

By Richard Van Horn

The Golden quadrangle, 10 miles west of Denver, Colo., is principally in the Colorado Piedmont section of the Great Plains physiographic province but does include a small portion of the Front Range of the Southern Rocky Mountains province. Streams flowing from the mountains have truncated tilted bedrock and have formed gently eastward-sloping alluvial plains, eight of which are shown on the accompanying geologic map. These plains are composed mainly of gravel, which is 5 to more than 50 feet thick. The gravel deposited by the larger streams is coarser near the mountain front and finer to the east. Gravel deposited by the smaller streams is generally silty and contains fewer cobbles and pebbles than equivalent deposits formed by the larger streams. Also shown on the map are local alluvial fans, residuum, more than 90 landslide areas (mostly on North and South Table Mountains), colluvium, loess, artificial fill, and bedrock outcrops. Deposits less than 3 feet thick are not shown. The relative ages of the deposits are shown on table 1.

The materials test-data are included with this report so that the approximate engineering characteristics of the various deposits can be determined for planning purposes. The results of materials tests represent the gross characteristics of the geologic formations involved and may vary significantly within a few feet of the sample location. Additional testing should be done before using materials on the basis of the materials tests table.

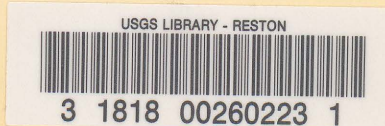
THIS REPORT IS PRELIMINARY AND
HAS NOT BEEN EDITED FOR CONFORMITY
WITH U.S. GEOLOGICAL SURVEY STANDARDS
AND NOMENCLATURE.

Table 1.--Quaternary rock units of the Golden quadrangle, Colorado

Series	Age	Rock unit
Recent		Artificial fill
		Post-Piney Creek alluvium
		Piney Creek Alluvium
Recent and Pleistocene		Landslides
		Colluvium
Pleistocene		Alluvial fans
		Young (post-middle-Wisconsin)
		Old (pre-middle-Wisconsin)
		Loess
		Residium
Pleistocene	Wisconsin	Broadway Alluvium
		Louviers Alluvium
	Sangamon and Illinoian	Slocum Alluvium
	Yarmouth and Kansan	Verdos Alluvium
	Aftonian and Nebraskan	Rocky Flats Alluvium
		Pre-Rocky Flats alluvium (possibly Pliocene)



Colorado (Golden quad.) Surficial. 1:24,000.
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