

EXPLANATION

VULNERABILITY RESPONSE UNIT CODE

- x Alphabetic character represents geohydrologic unit (table 4)
- 1 First digit represents depth to water group (table 6)
- 2 Second digit represents soil media (table 10)
- 3 Third digit represents land-surface-slope group (table 20)

SETTING AND GEOHYDROLOGIC UNITS BY GROUND-WATER REGION Alphabetic character in code

- Geohydrologic unit** **Agifer media and unconsolidated media description**
- WESTERN MOUNTAIN RANGES GROUND-WATER REGION**
- W Mountain Slopes East setting
 - W Fractured and weathered granitic and metamorphic rocks
 - W Altiplano Mountain Valley East setting
 - W Coarse sand and gravel alluvial deposits along present-day streams
- NONGLACIATED CENTRAL GROUND-WATER REGION**
- C Mountain Flanks setting
 - C Moderately to steeply dipping, fractured consolidated sedimentary rocks, primarily fine-grained sandstone, siltstone, and shale
 - C Fine- to medium-grained, silty consolidated sandstone
 - C Consolidated sandstone, conglomerate, siltstone, claystone, and shale
 - C Fine- to medium-grained, silty consolidated sandstone
 - C Interbedded conglomerate, sandstone, and siltstone
 - C Interbedded conglomerate, sandstone, and siltstone overlain by silt and fine-grained sand
 - C Alternating Sandstone, Limestone, Shale Thin Soil setting
 - C Marine shale and very fine-grained sandstone and siltstone
 - C Fine- to medium-grained, silty, consolidated sandstone
 - C Fine- to medium-grained, silty, consolidated sandstone overlain by silt and fine-grained sand
 - C Marine shale, coal seams, and minor silt and fine-grained sand
 - C Marine shale, coal seams, and minor silt and fine-grained sand
 - C Interbedded conglomerate, sandstone, and siltstone
 - C Interbedded conglomerate, sandstone, and siltstone overlain by silt and fine-grained sand
 - C Interbedded shale, claystone, siltstone, and sandstone
 - C Interbedded shale, claystone, siltstone, and sandstone overlain by silt and fine-grained sand
 - C Interbedded shale, claystone, siltstone, and sandstone overlain by consolidated fine flows
 - C Poorly to moderately well consolidated conglomerates and sandstone
 - C Poorly to moderately well consolidated conglomerates and sandstone overlain by silt and fine-grained sand
- Unconsolidated and Semiunconsolidated Aquifers setting**
- U Interbedded silts, sands and clays with some gravels
 - U Silt and fine-grained sand
- River Alluvium Without Overbank Deposits setting**
- R Coarse sand and gravel alluvial deposits along present-day streams

WATER

DEPTH TO WATER — First digit in code

First digit **Depth to water**

- 1 Less than 5 feet
- 2 5 to 20 feet
- 3 greater than 20 feet
- 4 highly variable

SOIL MEDIA — Second digit in code

Second digit (soil group) **Percentage of area in soil groups assigned vulnerability ratings:**

Soil group	Percentage of area in soil groups assigned vulnerability ratings									
	4	5	6	7	8	9	10	None	High	
1	—	—	25	13	15	72	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	6	34	41	—	—	—
4	35	—	—	—	—	—	—	—	—	—
5	—	—	—	—	2	12	83	13	—	—
6	17	9	9	31	—	—	—	—	—	26
7	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—

LAND SURFACE SLOPE — Third digit in code

Third digit **Land surface slope**

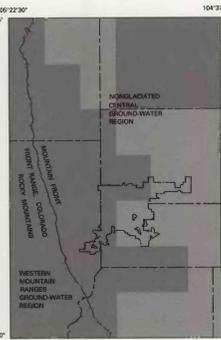
- 1 Less than 6 percent
- 2 6 to 12 percent
- 3 More than 12 percent

LINE SYMBOLS

- Boundary between ground-water regions (adapted from Heath, 1984)
- Eastern boundary of highly folded, faulted, and fractured area within the nonglaciated central ground-water region
- - - Boundary between Denver Basin aquifers (adapted from Van Sike and others, 1988a-d)
- Contact — Delimites vulnerability response units



LOCATION MAP



LOCATION MAP SHOWING GROUND-WATER REGIONS IN STUDY AREA

SCALE 1:100,000

0 5 MILES

0 5 KILOMETERS

Base from U.S. Geological Survey 1:100,000 Bailey, 1983; Castle Rock, 1983; Denver East, 1981; Denver West, 1983; Estes Park, 1984; Greeley, 1982.

MAP SHOWING VULNERABILITY OF THE UPPERMOST GROUND WATER TO CONTAMINATION IN THE GREATER DENVER AREA, COLORADO

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Mapping Credit: Thematic Overlay, Universal Transverse Mercator projection, Zone 13