

LIST OF MAP UNITS

The complete description of map units and references are included in the accompanying Authors' notes booklet

SURFICIAL DEPOSITS

HUMAN-MADE DEPOSITS

- af Artificial fill (upper Holocene)
- rd Reclaimed or disturbed ground (upper Holocene)
- alb Artificial lake bed (upper Holocene)

EOLIAN DEPOSITS

- Qea Eolian and Alluvium deposits (upper Pleistocene and Holocene)

ALLUVIAL DEPOSITS

- Qac1a Lower alluvium one of the Colorado River (upper Holocene)
- Qac1b Upper alluvium two of the Colorado River (Holocene)
- Qac2 Inferred alluvium two of the Colorado River (upper Pleistocene) - shown in booklet only
- Qac3 Alluvium three of the Colorado River (upper Pleistocene)
- Qac4 Alluvium four of the Colorado River (upper Pleistocene)
- Qta1 Tributary alluvium one (upper Pleistocene) - hatchure pattern indicates lag deposits less than 5 ft thick
- Qta2 Tributary alluvium two (upper Pleistocene)
- Qaf Alluvial Fan deposits, undifferentiated (upper Pleistocene and Holocene)
- Qamf Alluvial mudflow and fan valley fill deposits (upper Pleistocene and Holocene)

MASS WASTING DEPOSITS

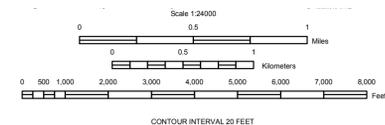
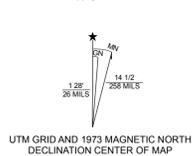
- Qls Landslide deposits (Holocene to Upper Pleistocene)

BEDROCK UNITS

- Kmp Mancoes Shale (upper Cretaceous)
- Kms Prairie Canyon Member
- Kmu Smokey Hill Member
- Kmb Lower members of the Mancoes Shale, undivided - shown in cross-section only
- Kcb Dakota Sandstone (Lower and Upper Cretaceous) and Burro Canyon Formation (Lower Cretaceous)
- Jmb Morrison Formation, undivided (Upper Jurassic) - shown in cross-section only
- Jms Brushy Basin Member
- Jms Saltwash Member
- Jmt Tidwell Member
- Jwe Wanakah and Entrada Formations, undivided (Middle Jurassic)
- Jk Kayenta Formation (Lower Jurassic)
- Jwg Wingate Sandstone (Lower Jurassic) - shown in cross-section only
- Trc Chinle Formation (Upper Triassic) - shown in cross-section only
- Xu Proterozoic Crystalline Rocks

- Contact
- - - ? - - - Hinge line — question marks where approximately located
- + Axis of monocline — arrows showing direction of dip, shorter arrow showing steeper limb
- ||||| Landscape scarp
- Strike and dip of bedding or contacts
- /23 Inclined — Showing direction and angle of dip
- Calculated from outcrop pattern using three-point solution
- Strike and dip of joints and fractures
- /15 Inclined — Showing direction and angle of dip
- Vertical
- A—A' Alignment of cross section

Base from U.S. Geological Survey, 1962
Polyconic projection, 1927 North American Datum
10,000-foot grid based on Colorado coordinate system, central zone
1,000-meter Universal Transverse Mercator grid ticks, zone 12
Digital data in UTM zone 13, NAD83



Geology mapped in 2008
GIS and cartography by Pangaea Cartographic, LLC



GEOLOGIC MAP OF THE FRUITA QUADRANGLE
MESA COUNTY, COLORADO
Richard Livaccari and James Hodge
2009