Laramie, Wyoming

Preliminary Cheyenne, Wyo.-N. Col.-W. Neb.
Surficial Geologic Map
1:100,000-Scale Series

CLASSIFICATION OF MAP UNITS

Alluvial Deposits - Alluvium

- Alluvium and alluvium mixed with eolian deposits and/or residuum (a, are)
- Alluvium mixed with terrace deposits and/or eolian deposits (at, ate)

Alluvial Deposits - Alluvial Fan Deposits

- Alluvial fan deposits mixed with slopewash and/or alluvium (sfa)
- Alluvial fan deposits grading into bench deposits or terrace deposits, mixed with scattered eolian deposits (fbe, ft)

Alluvial Deposits - Bench Deposits

- Bench deposits (b)
- Dissected bench deposits and dissected bench deposits mixed with slopewash (bd, sbd)

Alluvial Deposits - Bench Deposits or Mesa Caprock Undif.

- Bench deposits/mesa caprock and bench deposits/mesa caprock mixed with eolian deposits and/or residuum (b/m, b/me, rb/m, rb/me)
- Dissected bench deposits/mesa caprock and dissected bench deposits/mesa caprock mixed with eolian deposits and/or residuum (b/md, b/mde, rb/mde)

Alluvial Deposits - Terrace Deposits

- Terrace deposits and terrace deposits mixed with alluvium, eolian deposits, and/or slopewash (st, t, ta, tae, te, ts)
- Dissected terrace deposits (tds)
- Shallow terrace deposits/structural terrace and shallow terrace deposits/structural terrace mixed with alluvium, eolian deposits, and/or residuum (t/T, t/Tae, t/Tr)
- Dissected shallow terrace deposits/structural terrace and dissected shallow terrace deposits/structural terrace mixed with residuum and/or alluvium (rt/Td, t/Td, t/Tda, t/Tdr)

Eolian Deposits

- Eolian deposits mixed with residuum, slopewash, and/or alluvium (era, ers, esr)
- Eolian deposits mixed with residuum on a structural terrace/terrace (erT/t)

Mesa

- Mesa caprock and mesa caprock mixed with residuum (m, rm, rmR)
- Dissected mesa caprock and dissected mesa caprock mixed with residuum (rmd)

Playa Lake and Playa Lake Deposits

- Playa lake, playa lake deposits, and playa lake deposits mixed with eolian deposits and residuum (rpe) - Not all playas or playa deposits are mapped due to scale limitations.

Slopewash

- Slopewash and slopewash mixed with residuum, alluvium, eolian deposits, and/or colluvium (s, sa, sr, sra, srae, src, sre)
- Slopewash mixed with scattered bedrock outcrops and residuum, alluvium, colluvium, and/or eolian deposits (scrR, sraR, srRa, srRe, srR)

Colluvium

- Colluvium mixed with residuum and slopewash (rcs)

Residuum

- Residuum mixed with slopewash, alluvium, eolian deposits, and/or alluvial fan deposits (ras, rse, rsae, rsa, rsf)
- Residuum mixed with scattered bedrock outcrops and slopewash, alluvium and/or eolian deposits (raR, rasR, resR, rRe, rRs, rsaR, rseR, rsR, rsRa)
- Residuum mixed with eolian deposits, alluvium and/or scattered bedrock outcrops on a terrace/structural terrace or a structural terrace/terrace (raeT/, raT/t, raT/te, retT/, reT/t, reT/tR)
- Residuum mixed with alluvium and/or eolian deposits on a dissected structural terrace/terrace (raT/td, raT/tde, reT/td)
- Residuum mixed with slopewash and alluvium on dissected bedrock outcrops (rsRda)

Bedrock

- Bedrock mixed with slopewash, colluvium, and/or residuum (Rcs, Rrs, Rsr)
- Bedrock with a thin mantle of residuum, slopewash, eolian deposits, and/or alluvium (rRsa, rRse)
- Structural terrace/terrace mixed with a thin mantle of residuum, alluvium, and/or eolian deposits (rT, rT/t, rT/ta, rT/tae, rT/te, T/tr, T/tra)
- Dissected structural terrace/terrace mixed with a thin mantle of residuum, alluvium, and/or eolian deposits (rT/td, rT/tda, rT/tde)

Lake

- Lake and associated lacustrine deposits

Blue 10,000-meter ticks: Universal Transverse Mercator, zone 13
25,000-foot grid ticks: Wyoming Coordinate System of 1927, East zone

Digital public land survey, hydrography, and transportation by U.S. Geological Survey, 1995

Digital hypsography by Wyoming State Geological Survey, 1998

NORTH
MN
GN
13°
231 MILS
0°20'
6 MILS
UTM GRID
DECLINATION AT CENTER OF SHEET
DIAGRAM IS APPROXIMATE

Contour Interval = 10 meters
SCALE 1:100,000
KILOMETERS
MILES
FEET

WYOMING
QUADRANGLE LOCATION

Produced with QuadView by GeoWare

This report is preliminary and has not been reviewed for conformity with the Wyoming State Geological Survey's editorial standards.

Prepared in cooperation with the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under Cooperative Agreement Number 1434-HQ-97-AG-01818

PRELIMINARY DIGITAL SURFICIAL GEOLOGIC MAP OF THE CHEYENNE 30 x 60 MINUTE QUADRANGLE, SOUTHEASTERN WYOMING, WESTERN NEBRASKA, AND NORTHERN COLORADO

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