WYOMING STATE GEOLOGICAL SURVEY
Laramie, Wyoming

Geologic Hazards Section Digital Map 98-5 (HSDM 98-5)
Preliminary Laramie, Wyoming Surficial Geologic Map
1:100,000-Scale Series

CLASSIFICATION OF MAP UNITS

Alluvial Deposits - Alluvium

- Alluvium and alluvium mixed with residuum, eolian deposits, lacustrine deposits, and/or slopewash (a, ae, ar, are, ars, arw, ea, ear)
- Alluvium mixed with terrace deposits, eolian deposits, and/or residuum (at, ate, atr)

Alluvial Deposits - Alluvial Fan Deposits

- Alluvial fan deposits and alluvial fan deposits mixed with slopewash, alluvium, residuum, and/or eolian deposits (af, afe, f, fa, far, fas, fe, fs, fsa, fsr, sf, sfa, sfe, sfr)
- Alluvial fan deposits grading into bench deposits, terrace deposits, or alluvial fan deposits, mixed with slopewash (fAs, fb, fbs, ft, fts, sfb, sft)
- Alluvial fan deposits grading into dissected bench deposits, mixed with slopewash (fbd, sfbd)
- Dissected alluvial fan deposits and dissected alluvial plain deposits that grade into terrace deposits, mixed with slopewash and/or residuum (fds, ftd, ftdr, ftds, sfd, sftd)

Alluvial Deposits - Old Alluvial Plain Deposits

- Dissected old alluvial plain deposits and dissected old alluvial plain deposits mixed with eolian deposits (Ad, Ade)

Alluvial Deposits - Bench Deposits

- Bench deposits and bench deposits mixed with eolian deposits, residuum, and/or slopewash (b, be, br, bre, bs, eb)
- Dissected bench deposits and dissected bench deposits mixed with slopewash, eolian deposits, and/or residuum (bd, bde, bdr, bds, sbd)

Alluvial Deposits - Bench Deposits or Mesa Caprock Undif.

- Bench deposits/mesa caprock (b/m)
- Dissected bench deposits/mesa caprock (b/md)

Alluvial Deposits - Terrace Deposits

- Terrace deposits and terrace deposits mixed with alluvium, eolian deposits, residuum, and/or slopewash (t, ta, tar, te, ts)
- Dissected terrace deposits and dissected terrace deposits mixed with slopewash, alluvium, eolian deposits, and/or residuum (std, td, tda, tde, tdr, tds)
- Shallow terrace deposits mixed with residuum and/or eolian deposits (rtd, rtde, tr, tre)
- Dissected shallow terrace deposits/structural terrace mixed with residuum (rt/Td)

Eolian Deposits

- Eolian deposits and eolian deposits mixed with residuum and slopewash (e, esr)

Landslide Deposits

- Landslide deposits (l)

Playa Lake and Playa Lake Deposits

- Playa lake, playa lake deposits, and playa lake deposits mixed with eolian deposits, alluvium, and/or residuum (aep, aap, ep, p, pa, pe, pre) - Not all playas or playa deposits are mapped due to scale limitations.

Slopewash

- Slopewash and slopewash mixed with alluvium, residuum, eolian deposits, alluvial fan deposits, grus, and/or colluvium (as, ase, asr, esa, s, sa, sae, saf, sar, sc, sr, sra, srae, sre, srf, sur, sura)
- Slopewash mixed with scattered bedrock outcrops and residuum, colluvium, grus, alluvial fan deposits, alluvium, and/or eolian deposits (saR, sarR, scR, scrR, scuR, sfR, sfrR, sR, sraR, srcR, srfR, srR, srRa, srRe, sruR, sucR, suR, surR)

Colluvium

- Colluvium mixed with slopewash, alluvial fan deposits, and/or residuum (cs, csf, csr)
- Colluvium mixed with scattered bedrock outcrops and grus and/or slopewash (csR, csuR, cuR)

Glacial Deposits

- Glacial outwash (o)

Residuum

- Residuum mixed with slopewash, alluvium, eolian deposits, and/or alluvial fan deposits (ra, rae, ras, rs, rsa, rse, rsf)
- Residuum mixed with scattered bedrock outcrops and slopewash, alluvium, eolian deposits, and/or colluvium (raR, raRe, rasR, rRs, rsaR, rscR, rsR, rsRa, rsRe)
- Residuum mixed with slopewash and alluvium on dissected bedrock outcrops (rsRda)
- Grus mixed with scattered bedrock outcrops and slopewash, alluvium, and/or residuum (rusR, uaR, usR)

Bedrock

- Bedrock and bedrock mixed with colluvium, slopewash, grus, and/or residuum (R, Rc, Rcr, Rcs, Rcsu, Rcu, Rrcs, Rrs, Rs, Rsr, Ruc, Rucs, Rus, Rusc)
- Structural terrace/terrace mixed with a thin mantle of residuum (rT/t)
- Upturned and truncated bedrock with a thin mantle of residuum, terrace deposits, alluvium, bench deposits, and/or eolian deposits (bx, rx, rxae, trx, tx)

Lake

- Lake and associated lacustrine deposits

Mined Areas

- Open pit mines and quarries (M)

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

Contour Interval = 20 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.

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PRELIMINARY DIGITAL SURFICIAL GEOLOGIC MAP OF THE LARAMIE 30 x 60 MINUTE QUADRANGLE, ALBANY AND LARAMIE COUNTIES, WYOMING

mapped and compiled by

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digital cartography by

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