WYOMING STATE GEOLOGICAL SURVEY
Laramie, Wyoming

**Geologic Hazards Section Digital Map 99-4 (HSDM 99-4)**
**Preliminary Rock Springs Wyoming Surficial Geologic Map**
**1:100,000-Scale Series**

# PRELIMINARY DIGITAL SURFICIAL GEOLOGIC MAP OF THE ROCK SPRINGS 30' x 60' QUADRANGLE, SWEETWATER COUNTY, WYOMING


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## CLASSIFICATION OF MAP UNITS

### Alluvial Deposits - Alluvium
- Alluvium and alluvium mixed with residuum, eolian deposits, and/or slopewash (a, ae, aer, are, ars, asre, ea, ear)
- Alluvium mixed with terrace deposits, with scattered eolian deposits, and/or residuum (at, atr, ate)
- Shallow alluvium mixed with scattered bedrock outcrops and residuum (arR)

### Alluvial Deposits - Alluvial Fan Deposits
- Alluvial fan deposits mixed with slopewash, alluvium, residuum, and/or eolian deposits (af, afe, asf, frsa, fsa, fse, sf, sfa, sfae, sfe, sfr, sfre)
- Alluvial fan deposits grading into bench deposits or terrace deposits mixed with slopewash, residuum, and/or eolian deposits (fb, fbe, fbr, fte, ftr, sft, sftr)
- Alluvial fan deposits grading into dissected bench deposits mixed with slopewash or residuum (fbd, fbdr,sfbd)
- Dissected alluvial fan deposits that grade into terrace deposits, mixed with slopewash, and/or residuum (sfd, sfdr)

### Alluvial Deposits - Bench Deposits
- Bench deposits and bench deposits mixed with eolian deposits and/or residuum (b, be, bre)
- Dissected bench deposits and dissected bench deposits mixed with slopewash or eolian deposits (bd, bds, ebd, sbd)

### Alluvial Deposits - Bench Deposits or Mesa Caprock Undif.
- Bench deposits/mesa caprock and bench deposits/mesa caprock with a thin cover of eolian deposits and/or residuum (b/m, erb/m, rb/m, rb/me)
- Dissected bench deposits/mesa caprock and dissected bench deposits/mesa caprock with a thin cover of residuum (b/md, rb/md)

### Alluvial Deposits - Terrace Deposits
- Terrace deposits and terrace deposits mixed with alluvium, eolian deposits, residuum, and/or slopewash (et, st, t, ta, te, ter, ts)
- Dissected terrace deposits and dissected terrace deposits mixed with slopewash, eolian deposits, and/or residuum (etd, std, stde, td, tde, tdre, tds)
- Shallow terrace deposits or shallow terrace deposits/structural terrace mixed with residuum and/or eolian deposits (ert, ert/T, etr, ret/T, rte, rt/Te, tr, tre)
- Dissected shallow terrace deposits/structural terrace mixed with residuum and/or eolian deposits (ret/Td, rt/Td, rt/Tde)
- Terrace deposits/structural terrace and terrace deposits/structural terrace mixed with eolian deposits (t/T, t/Te)

### Eolian Deposits
- Eolian deposits and eolian deposits mixed with residuum and slopewash, and alluvium (e, er, era, ers, ersa, esr)
- Eolian deposits covering terrace deposits/structural terrace (et/T)
- Eolian deposits mixed with scattered bedrock outcrops or structural terrace/terrace deposits and residuum and/or slopewash (erR, ersR, erT, erT/t, erT/ta)
- Eolian deposits covering dissected terrace deposits mixed with residuum (ertd)
- Eolian deposits mixed with dissected structural terrace/terrace deposits mixed and residuum (erTd, erT/td)

### Landslide Deposits
- Landslide deposits (l)

### Mesa Deposits
- Mesa caprock mixed with a thin cover of residuum and/or eolian deposits (erm, rm, rme)
- Dissected mesa caprock with a thin cover of residuum and/or eolian deposits (rmd, rmde)

### Playa Lake and Playa Lake Deposits
- Playa Lake, playa lake deposits, and playa lake deposits mixed with eolian deposits and/or alluvium (aep, eap, ep, p, pe)

### Slopewash
- Slopewash mixed with alluvium, residuum, eolian deposits, and/or alluvial fan deposits (as, ase, asr, sa, sae, sar, sr, sra, srae, sre, srf, srfe)
- Slopewash mixed with scattered bedrock outcrops and residuum, alluvial fan deposits, alluvium, colluvium, and/or eolian deposits (sarR, scR, scrR, sfrR, sraR, srcR, sRe, sreR, srR, srRa, srRe)

### Colluvium
- Colluvium mixed with scattered bedrock outcrops and slopewash (csR)

### Residuum
- Residuum mixed with slopewash, alluvium, and/or eolian deposits (r, rae, rs, rsa, rsae, rse)
- Residuum mixed with scattered bedrock outcrops and slopewash, alluvium, eolian deposits, alluvial fan deposits, and/or colluvium (raRe, rasR, resR, rRe, rRs, rRsc, rRse, rsaR, rscR, rseR, rsfR, rsR, rsRa, rsRe)
- Residuum mixed with slopewash and/or eolian deposits on dissected bedrock outcrops and/or a dissected structural terrace/terrace (reRd, resTd, reTd, reT/td, rsRd)

### Bedrock
- Bedrock mixed with colluvium, eolian deposits, slopewash, and/or residuum (Rcs, Rcsr, Rrcs, Rrs, Rrse, Rs, Rscr, Rse, Rsr, Rsre, Rsc)
- Bedrock with a thin mantle of eolian deposits and/or slopewash (esR, sR)
- Upturned and truncated bedrock with a thin mantle of residuum, terrace deposits, and/or eolian deposits (rx, rxe, trx)
- Dissected bedrock with a thin mantle of residuum and/or eolian deposits (rRde)

### Structural Terrace/Terrace Deposits
- Structural terrace/terrace deposits with a mantle of eolian deposits, residuum, and/or alluvial deposits (raT/te, reT, reT/t, rT, rTe, rT/t, rT/te)
- Dissected structural terrace/terrace deposits with a mantle of residuum, slopewash, alluvium, and/or eolian deposits (rTd, rTde, rTds, rT/td, rT/tda, rT/tde)

### Volcanic Neck
- Volcanic neck (v)

### Lake
- Lake

### Mined Areas
- Mined areas (M)

Blue 10 000-meter ticks: Universal Transverse Mercator, zone 12
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

GN
1°00' 18 MILS
15° 267 MILS
UTM GRID DECLINATION AT CENTER OF SHEET DIAGRAM IS APPROXIMATE

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 Wyoming State Geological Survey editorial standards


Prepared in cooperation with the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under Cooperative Agreement Number 98HQAG2071