

# Major Land Resource Area 028B

## Central Nevada Basin and Range

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### Ecological site keys

#### MLRA 28B

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A hydrologically driven/meadow - XY

A' upland/non meadow

B basins (including playa) - XA

1 typic aridic

2 sandy PSCS ... R028BY021NV – SODIC DUNE

2' soil not as above

4 skeletal PSCS ... R028BY017NV – LOAMY 5-8 P.Z.

4' soil not as above

5 somewhat poorly drained/water table 20-60" (46-100cm) ... R028BY004NV – SALINE  
BOTTOM

5' soil not as above

6 ponded

7 long duration ponding (>7 days) ... R028BY020NV – SODIC FLAT 5-8 P.Z.

7' brief duration ponding (<7 days) ... R028BY069NV – SODIC FLAT 8-10 P.Z.

6' not ponded

8 lower sodium at surface/pH increasing with depth - R028BY047NV, R028BY097NV

8' higher sodium near surface/pH higher at surface - R028BY074NV, R028BY073NV

1' aridic-xeric

3 sandy PSCS ... R028BY005NV – SANDY 8-10 P.Z.

3' soil not as a above

9 sil (vesicular) surface/brief ponding ... R028BY056NV – SILT FLAT

9' not as above (gr or coarser surface)/no ponding - R028BY014NV, R028BY054NV, R028BY071NV

B' piedmont slopes

C piedmont slopes derived from limestone - XB

1 mesic soil temp

2 carbonatic minerology/free carbonates

3 mollic epipedon ... R028BY006NV – SHALLOW CALCAREOUS LOAM 10-12 P.Z.

3' ochric epipedon ... R028BY011NV – SHALLOW CALCAREOUS LOAM 8-10 P.Z.

2' non-carbonatic minerology/no free carbonates

4 <50 cm ... R028BY080NV – SHALLOW LOAM 8-10 P.Z.

4' >50cm

5 50-100cm

5' >100cm

6 ochric epipedon

7 soil saline/sodic (pH>9) ... R028BY028NV – SODIC TERRACE 8-10 P.Z.

7' soil non saline/sodic

9 coarse silty PSCS ... R028BY013NV – SILTY 8-10 P.Z.

9' non coarse silty PSCS

10 calcic horizon present, aridic-xeric

10' calcic horizon present, typic aridic ... R028BY075NV – COARSE GRAVELLY LOAM 6-8 P.Z.

10" calcic horizon absent

11 upper fan remnant/receives run-in moisture ... R028BY045NV – LOAMY FAN 8-12 P.Z.

11' lower fan remnant/less run-in moisture ... R028BY084NV – COARSE SILTY 6-8 P.Z.

6' mollic epipedon

8 associated with perennial streams - R028BY003NV, R028BY024NV, R028BY041NV

8' not associated with streams/run-in moisture only ... R028BY082NV – LOAMY FAN 12+ P.Z.

1' frigid soil temp ... R028BY094NV – CALCAREOUS LOAM 10-14 P.Z.

C' piedmont slopes derived from volcanics

1 argillic horizon

3 mollic epipedon ... R028BY007NV – LOAMY 10-12 P.Z.

3' ochric epipedon

4 soil <50cm ... R028BY089NV – SHALLOW CLAY LOAM 10-12 P.Z.

4' soil >50cm ... R028BY086NV – GRAVELLY CLAY 10-12 P.Z.

1' no argillic horizon

2 soil <36cm ... R028BY040NV – BARREN FAN 8-12 P.Z.

2' soil >100cm, no cambic ... R028BY052NV – DROUGHTY LOAM 8-10 P.Z.

2" soil >100cm, with cambic - R028BY010NV

B" hills & mountains - XC

1 meets soil criteria for P-J Forest

2 argillic horizon present

3 abrupt boundary to argillic ... F028BY064NV – Shallow Gravelly Mountains 12-16 P.Z

3' lacks abrupt boundary to argillic

5 mostly above 7500' (if below on N slopes) ... F028BY058NV – PIMO-CELE3/ARTRV/PSSPS-POFE

5' mostly below 7500' ... F028BY062NV – PIMO-JUOS/ARTRV/PSSPS-ACTH7

2' soil not as above

4 soil lithic ... F028BY060NV – PIMO-JUOS/ARNO4/PSSPS-ACHY

4' soil paralithic ... F028BY083NV – Cobbly Calcareous Mountain Slopes 10-12 P.Z.

1' not as above

6 argillic horizon present

7 abrupt boundary to argillic

8 presence of secondary carbonates ... R028BY092NV – CALCAREOUS CLAYPAN 14-16 P.Z.

8' lacks secondary carbonates

9 soil temp cryic (high elevation) ... R028BY036NV – CLAYPAN 14+ P.Z.

9' soil temp frigid (mid elevation)

10 soil surface dominated by cobbles ... R028BY039NV – COBBLY CLAYPAN 12-14 P.Z.

- 10' soil surface dominated by gravels ... R028BY037NV – CLAYPAN 12-14 P.Z.
- 7' lacks abrupt boundary to argillic
  - 11 mountain ridge (narrow, windy)
    - 12 parent material limestone ... R028BY048NV – CALCAREOUS MOUNTAIN RIDGE
    - 12' parent material volcanic ... R028BY034NV – MOUNTAIN RIDGE 12-14 P.Z.
  - 11' mountain other
    - 13 soil temp mesic
      - 16 mollic epipedon ... R028BY093NV – SHALLOW CLAY LOAM 12-14 P.Z.
      - 16' ochric epipedon - R028BY089NV
    - 13' soil temp frigid
      - 14 soil <50cm ... R028BY087NV – GRAVELLY CLAY 12-14 P.Z.
      - 14' soil >50cm ... R028BY015NV – LOAMY SLOPE 12-16 P.Z.
    - 13" soil temp cryic
      - 15 mtn sideslope smooth to convex - R028BY104NV, R028BY105NV
      - 15' mtn sideslope concave ... R028BY029NV – LOAMY 16+ P.Z.
- 6' soil not as above
  - 17 soil temp mesic
    - 18 12" precip/7000' elevation/presence of PSSP - R028BY090NV, R028BY008NV
    - 18' <12" precip/7000' elevation/absence of PSSP - R028BY016NV, R028BY059NV
  - 17' soil temp frigid
    - 19 mtn sideslope convex, depth >35cm ... R028BY079NV – SHALLOW LOAM 10-14 P.Z.
    - 19' mtn sideslope convex, depth <35cm (CEIN7) ... R028BY066NV – LIMESTONE HILL
    - 19" mtn sideslope concave ... R028BY088NV – CALCAREOUS LOAM 14-16 P.Z.
    - 19" ES associated with perennial stream - F028BY109NV, F028BY110NV
  - 17" soil temp cryic
    - 20 soil <50cm
      - 21 mountain ridge (narrow, windy) ... R028BY038NV – MOUNTAIN RIDGE 14+ P.Z.
    - 21' mountain other mollic
      - 22 pachic mollic ... R028BY032NV – STONY MAHOGANY SAVANNA
      - 22' mollic ... R028BY027NV – SHALLOW CALCAREOUS SLOPE 14+ P.Z.
    - 21" mountain other ochric ... F028BY106NV – PILO-PIFL2/SYOR2/POA
  - 20' soil >50cm
    - 23 soil 50- 100cm
      - 24 ochric epipedon, calcareous PM ... F028BY072NV – Concave Mountain Slopes
    - 24' ochric epipedon, shale PM
      - 30 snowloading/pH <7 ... R028BY051NV – SNOWPOCKET
      - 30' no snowloading/pH >7 ... F028BY063NV – ABCOC-PIFL2-PILO/ARTRV/LEKI2
    - 24" mollic epipedon
      - 25 >8500', associated with RO ... F028BY049NV – Rocky Convex Mountain Slopes
      - 25' <8500', not associated with RO ... R028BY043NV – CALCAREOUS MAHOGANY SAVANNA
  - 23' soil >100cm
    - 26 ochric epipedon ... F028BY107NV – Deep North Facing Mountain Sideslopes
    - 26' mollic epipedon
      - 27 backslopes smooth to convex ... R028BY070NV – MOUNTAIN LOAM 16+ P.Z.

27' backslopes smooth to concave

28 backslopes concave, limestone PM

29 backslopes smooth to concave, calcic horizon ... R028BY085NV –  
CALCAREOUS LOAM 16+ P.Z.

29' backslopes smooth to concave, lacks calcic horizon ... R028BY042NV –  
MAHOGANY THICKET

28' backslopes concave, quartzite PM ... F028BY067NV –  
POTR5/SYOR2/BRMA4-ELTR7

20" soil >50cm, associated with perennial steam ... F028BY025NV – Mountain Stream Terrace