

| ERA | PERIOD | Epoch | Washoe/Storey Co. Formation or Name | Symbol | Paleontology Potential | Pershing County Formation or Name | Symbol | Paleontology Potential | Humboldt County Formation or Name | Symbol | Paleontology Potential | Epoch | PERIOD | ERA |
|-----------|---------------------|---------|---|---|--|---|--|--|--|--|--|---------|---------------------|-----------|
| CENOZOIC | HOLOCENE QUATERNARY | H | | | | | | | Younger alluvium | Qya | fossil fauna and flora, large mammals | H | HOLOCENE QUATERNARY | CENOZOIC |
| | | P | pre-Lake Lahontan dep. | Qal, Ql, Qsl, Qls QTg | fossil fauna and flora, large mammals fossil fauna and flora, large mammals | | Qal, etc Qtb | fossil fauna and flora, large mammals fossil fauna and flora, large mammals | Older alluvium, Gravel dep Vesicular olivine basalt | Qoa, Qg QTb | fossil fauna and flora, large mammals none indicated | P | | |
| | TERTIARY | M O E P | Coal valley and Truckee High Rock Pyramid Sequence South Willow | Tir, Tab Tst Tts Tba Tsv Tsw | vertebrates and fossil floras vertebrates and fossil floras plant fossils and petrified wood | Fish Cr Mtns Tuff & others Caetano Tuff | Ts, Tcg, Tts Tba Tir, Tip Tf, Twt, Tra Tgd, Ta, Tc, Tr Tc | vertebrate and plant fossils | Mesa basalt of Merriam Thousand Cr beds of Merriam Virgin valley beds of Merriam | Tmb Ttc Tvv Ts, Trd, Ti Tba, Tu | none indicated fossiliferous: vertebrates, leaf imprints, fish, diatoms fossiliferous: vertebrates, leaf imprints, fish fossiliferous in sedimentary rocks as above fossils found in intercalated sedimentary rocks | M O E P | TERTIARY | |
| MESOZOIC | CRETACEOUS | | | Kgd | | Rocky Canyon New York Canyon | Kgrc, Kqny Kgd, Klg, Kap fd, dd | | King Lear | Kkl | fossiliferous: fresh water fossils collected from limestone lenses | | CRETACEOUS | MESOZOIC |
| | JURASSIC | | Peavine Sequence Nightingale Sequence | mv, ms, mvs msr | trace fossils none indicated | Boyer Ranch Auld Sang Syne Group Raspberry, Winnemucca Dun Glen, Grass Valley Grass Valley & Osobb | Jb Jtra, JTri, Trs Trra, Trwi Trdg, Trgv Trgvo, Tro | unfossiliferous fossiliferous: including ammonites fossiliferous but no age-diagnostic fossils recovered few fossils | Intrusive rocks Limestone Raspberry, Quartzite and mudstone Winnemucca Dun Glen, Grass Valley Natchez Pass | Kji JTri Jtru Trr, Trm, Tra, Trs Trqm Trw Trdg, Trgv Trnp | none indicated fossiliferous: crinoid stems in an upper unit fossils not found sparse fossils in lower part of formation fossils not found sparse fossils worm trails but no diagnostic fossils found fossils are sparse and poorly preserved | | JURASSIC | |
| | TRIASSIC | | | | | Natchez Pass Prida Cane Spring, Augusta Mtn Favret, Dixie Valley, Tobin Koipato Group undiv Weaver Rochester Limerick Greenstone | Trnp, Trnpv Md, Trm Trp, Trpu, Trpmi Trca Trf, Trdv, Trt Trk Trwe Trro Trl Trrp, Trlg | fossiliferous in lower member: including ammonites fossiliferous: including ammonites few fossils Favret and Tobin are fossiliferous: including ammonites ammonite impressions in upper Weaver sedimentary units | Koipato Formation Quinn River Formation Vol and sed rocks undiv Unnamed Limestone | Tr-Mu Trqr TrPu Pul | practically unfossiliferous fossils in limestone and shale corals and fusulinids in lower limestone bed none indicated | | TRIASSIC | |
| PALEOZOIC | PERMIAN | | | PTrm | none indicated | Metavolcanic rocks | Pm | well-preserved brachiopods near Black Rock point | Happy Cr Volcanic Series Edna Mtn, Antler Peak | Ph PPa, PPU PPic, PPs | none indicated diversified fauna incl. Fusulinids (Antler P.) some units richly fossiliferous | | PERMIAN | PALEOZOIC |
| | PENNSYLVANIAN | | | | | Havallah Pumpnickel | PPh, PPhp PPp | fusulinids and conodonts fossils not found in Pershing county | Havallah Pumpnickel | PPh, PPhp PPp or Pp | fusulinid fossils conodonts found | | PENNSYLVANIAN | |
| | MISSISSIPPIAN | | | | | Inskip | Mi | poorly preserved corals from limestone lenses | Unnamed Volcanic Rocks | Mvr | richly fossiliferous in upper limestone: coral, bryozoa, brachiopods | | MISSISSIPPIAN | |
| | DEVONIAN | | | | | Valmy | Ov | graptolites | Comus Valmy Sonoma | Oc Ov Osr | early and middle Ordovician fossils early and late Ordovician fossils none indicated | | DEVONIAN | |
| | SILURIAN | | | | | Harmony | Ch | sparse trilobites from limestone lenses | Harmony Unnamed Chert Preble | Ch Cc Cp | none indicated rich trilobite fauna in shaly limestone Cambrian fossils | | SILURIAN | |
| | ORDOVICIAN | | | | | Preble | Cp | limestone has trilobite faunas in Osgood mtns. | Osgood Mtn Quartzite | Com | none indicated | | ORDOVICIAN | |
| | CAMBRIAN | | | | | | | | | | | | | |

Paleontological resource information of the Winnemucca RMP Planning Area summarized from the following references:
 Bonham, H.F., 1969, Geology and mineral deposits of Washoe and Storey Counties, Nevada, NBMG Bulletin 70.
 Johnson, M.J., 1977, Geology and mineral deposits of Pershing County, Nevada, NBMG Bulletin 89.
 Willden, R., 1964, Geology and mineral deposits of Humboldt County, Nevada, NBMG Bulletin 59.

Table 2-2. Paleontological Resources of the Winnemucca RMP Planning Area