

ptype	name	source_ptype	source_name	source_age
af	Artificial Fill	ml	Made land or artificial fill; material moved for construction and agricultural purposes.	latest Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qags	Active groundwater-discharge spring mound deposits; loose to compact silt and fine sand in moist zone of active groundwater discharge; white to pale gray.	Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qigw	Intermediate groundwater-discharge wetland deposits; marly silt and fine sand; generally white to green and light brown; compact.	late to middle Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qimc	Intermediate mass-movement colluvial deposits; colluvial materials thicker than 2 m; rocky, poorly sorted.	Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qmc	Mass-movement colluvial deposits, undivided; colluvial materials thicker than 2 m; rocky and poorly sorted; little to strong soil development.	Holocene and Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qygs	Young groundwater-discharge spring mound deposits; silt and fine sand in zones of former groundwater discharge; calcium carbonate typical.	Holocene and latest Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qygw	Young groundwater-discharge wetland deposits; former wetland deposit in lower Kelso Wash; resemble spring mounds but form broad planar deposits.	Holocene and latest Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qymc	Young mass-movement colluvial deposits; colluvial material thicker than 2 m; rocky, loose, poorly sorted.	Holocene and Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qiad	Intermediate alluvial fan deposits composed of debris-flow deposits; poorly sorted bouldery deposits with sand and mud matrix.	late to middle Pleistocene
Qls	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qiml	Intermediate mass-movement landslide deposits; landslide deposits forming hummocky topography; rocky with mud matrix and weak desert pavement.	Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qyad	Young alluvial fan deposits composed of debris-flow deposits; bouldery, matrix-supported.	Holocene and latest Pleistocene

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
Qw	Alluvial Wash Deposits	Qaw+Qyw	Active wash deposits and young wash deposits; intermixed.	latest Holocene to latest Pleistocene
Qw	Alluvial Wash Deposits	Qyw+Qaw	Young wash deposits and active wash deposits; intermixed.	latest Holocene to latest Pleistocene
Qf	Alluvial Fan Deposits	Qaa	Active alluvial fan deposits; surfaces and channels actively receiving sediments in last few decades; loose, poorly sorted gravel and sand.	latest Holocene
Qf	Alluvial Fan Deposits	Qaa+Qya	Active alluvial fan deposits and young alluvial fan deposits; intermixed.	latest Holocene to latest Pleistocene
Qf	Alluvial Fan Deposits	Qaag+Qyag	Active alluvial fan deposits and young alluvial fan deposits composed of grus; intermixed.	latest Holocene to latest Pleistocene
Qf	Alluvial Fan Deposits	Qya+Qaa	Young alluvial fan deposits and active alluvial fan deposits; intermixed.	latest Holocene to latest Pleistocene
Qf	Alluvial Fan Deposits	Qyae+Qaa	Young mixed alluvial and eolian sand deposits and active alluvial fan deposits; intermixed.	latest Holocene to latest Pleistocene
Qf	Alluvial Fan Deposits	Qyag+Qaag	Young alluvial fan deposits composed of grus and active alluvial fan deposits composed of grus; intermixed.	latest Holocene to latest Pleistocene
Qf	Alluvial Fan Deposits	Qyea+Qaa	Young mixed eolian sand and alluvial deposits and active alluvial fan deposits; intermixed.	latest Holocene to latest Pleistocene
Qa	Alluvial Valley Deposits	Qav+Qyv	Active valley-axis deposits and young valley-axis deposits; intermixed.	latest Holocene to latest Pleistocene
Qa	Alluvial Valley Deposits	Qyv+Qav	Young valley-axis deposits and active valley-axis deposits; intermixed.	latest Holocene to latest Pleistocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qap	Active playa deposits; weakly bedded, poorly sorted silt, clay and sand; salt in some places; prone to flooding.	Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qaps	Active playa sandy facies deposits; form near margins of playas where alluvial sediments intertongue with playa sediments.	Holocene
Qe	Eolian and Dune Deposits	Qae/ca	Active eolian sand deposits overlie carbonate rocks (marble, limestone, dolomite).	latest Holocene/Pliocene to early Proterozoic
Qe	Eolian and Dune Deposits	Qae/fv	Active eolian sand deposits overlie felsic volcanic rocks (rhyolite, rhyodacite, felsite).	latest Holocene/Pliocene to early Proterozoic
Qe	Eolian and Dune Deposits	Qae/mp	Active eolian sand deposits overlie mafic plutonic rocks (gabbro, diorite, monzodiorite, syenite, alkalic rocks).	latest Holocene/Pliocene to early Proterozoic

ptype	name	source_ptype	source_name	source_age
Qe	Eolian and Dune Deposits	Qae/sl	Active eolian sand deposits overlie siliciclastic rocks (silicic sedimentary and metamorphic rocks; i.e., sandstone, quartzite, shale, siltstone).	latest Holocene/Pliocene to early Proterozoic
Qe	Eolian and Dune Deposits	Qaed	Active eolian sand dune deposits; well-sorted sand in dune landforms.	latest Holocene
Qe	Eolian and Dune Deposits	Qaed+Qyed	Active eolian sand dune deposits and young eolian sand dune deposits; intermixed.	latest Holocene to latest Pleistocene
Qe	Eolian and Dune Deposits	Qaer	Active eolian sand ramp deposits; sand and rock in steep mantles of hillsides; represent climbing and falling dunes.	latest Holocene
Qe	Eolian and Dune Deposits	Qyed+Qaed	Young eolian sand dune deposits and active eolian sand dune deposits; intermixed.	latest Holocene to latest Pleistocene
Qe	Eolian and Dune Deposits	Qyer+Qaer	Young eolian sand ramp deposits and active eolian sand ramp deposits; intermixed.	latest Holocene to latest Pleistocene
Qyw	Young Alluvial Wash Deposits	Qyw	Young wash deposits; largely inactive fluvial wash deposits; moderately to poorly sorted, loose sand and gravel.	Holocene and latest Pleistocene
Qyw	Young Alluvial Wash Deposits	Qyw+Qiw	Young wash deposits and intermediate wash deposits; intermixed.	Holocene to middle Pleistocene
Qyw	Young Alluvial Wash Deposits	Qyw+Qye	Young wash deposits and young eolian sand deposits; intermixed.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qia+Qya	Intermediate alluvial fan deposits and young alluvial fan deposits; intermixed.	Holocene to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qiag+Qyag	Intermediate alluvial fan deposits composed of grus and young alluvial fan deposits composed of grus; intermixed.	Holocene to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya	Young alluvial fan deposits; surfaces abandoned, receive infrequent flood deposits; poorly sorted sand and gravel, loosely compacted.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya/fp	Young alluvial fan deposits overlie felsic plutonic rocks (granite, granodiorite).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qyf	Young Alluvial Fan Deposits	Qya/fpg	Young alluvial fan deposits overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qyf	Young Alluvial Fan Deposits	Qya/mr	Young alluvial fan deposits overlie metamorphic rocks (gneiss, migmatite, mixed lithology).	Holocene and latest Pleistocene/Pliocene to early Proterozoic

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
Qyf	Young Alluvial Fan Deposits	Qya/mv	Young alluvial fan deposits overlie mafic volcanic rocks (dacite, andesite, basalt).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qyf	Young Alluvial Fan Deposits	Qya/pc	Young alluvial fan deposits overlie partly consolidated sedimentary rocks (sandstone, conglomerate).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qyf	Young Alluvial Fan Deposits	Qya/Qia	Young alluvial fan deposits overlie intermediate alluvial fan deposits.	Holocene and latest Pleistocene/late to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya/Qigw	Young alluvial fan deposits overlie intermediate groundwater-discharge wetland deposits.	Holocene and latest Pleistocene/late to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya/Qil	Young alluvial fan deposits overlie intermediate lacustrine deposits.	Holocene and latest Pleistocene/late to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya/Qmv	Young alluvial fan deposits overlie Quaternary age mafic volcanic rocks (lava flows and cinder cones of basaltic composition).	Holocene and latest Pleistocene/Quaternary
Qyf	Young Alluvial Fan Deposits	Qya/Qoa	Young alluvial fan deposits overlie old alluvial fan deposits.	Holocene and latest Pleistocene/middle to early Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya/Qygw	Young alluvial fan deposits overlie young groundwater-discharge wetland deposits.	California Geological Survey
Qyf	Young Alluvial Fan Deposits	Qya+Qia	Young alluvial fan deposits and intermediate alluvial fan deposits; intermixed.	Holocene to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya+Qyae	Young alluvial fan deposits and young mixed alluvial and eolian sand deposits; intermixed.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qya+Qyea	Young alluvial fan deposits and young mixed eolian sand and alluvial deposits; intermixed.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyag	Young alluvial fan deposits composed of grus; clasts from granitic sources that weather to grus.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyag/fpg	Young alluvial fan deposits composed of grus overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qyf	Young Alluvial Fan Deposits	Qyag/Qiag	Young alluvial fan deposits composed of grus overlie intermediate alluvial fan deposits composed of weather to grus.	Holocene and latest Pleistocene/late to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyag/Qoag	Young alluvial fan deposits composed of grus overlie old alluvial fan deposits composed of grus.	Holocene and latest Pleistocene/middle early Pleistocene

<u>ptype</u>	<u>name</u>	<u>source_ptype</u>	<u>source_name</u>	<u>source_age</u>
Qyf	Young Alluvial Fan Deposits	Qyag+Qiaq	Young alluvial fan deposits composed of grus and intermediate alluvial fan deposits composed of grus; intermixed.	Holocene to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyae	Young mixed alluvial and eolian sand deposits; thoroughly mixed with alluvial processes dominating.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyae/Qiae	Young mixed alluvial and eolian sand deposits overlie intermediate mixed alluvial and eolian sand deposits.	Holocene and latest Pleistocene/late to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyae/Qygw	Young mixed alluvial and eolian sand deposits overlie young groundwater-discharge wetland deposits.	Holocene and latest Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyae+Qiae	Young mixed alluvial and eolian sand deposits and intermediate mixed alluvial and eolian sand deposits; intermixed.	Holocene to middle Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyae+Qya	Young mixed alluvial and eolian sand deposits and young alluvial fan deposits; intermixed.	Holocene and latest Pleistocene
Qya	Young Alluvial Valley Deposits	Qyv	Young axial valley deposits; fine-grained deposits in largely inactive valley axis locations; composed of moderately to poorly sorted sand silt, and clay.	Holocene and latest Pleistocene
Qyl	Young Lacustrine, Playa and Estuarine (Paralic) Deposits	Qypf	Young playa fringe deposits; of mixed eolian, lacustrine, playa, alluvial and groundwater origins.	Holocene and latest Pleistocene
Qye	Young Eolian and Dune Deposits	Qiae+Qye	Intermediate mixed alluvial and eolian sand deposits and young eolian sand deposits; intermixed.	Holocene to middle Pleistocene
Qye	Young Eolian and Dune Deposits	Qiae+Qyea	Intermediate mixed alluvial and eolian sand deposits and young mixed eolian sand and alluvial deposits; intermixed.	Holocene to middle Pleistocene
Qye	Young Eolian and Dune Deposits	Qiea+Qyea	Intermediate mixed eolian sand and alluvial deposits and young mixed eolian sand and alluvial deposits; intermixed.	Holocene to middle Pleistocene
Qye	Young Eolian and Dune Deposits	Qoa+Qye	Old alluvial fan deposits and young eolian deposits; intermixed.	Holocene to early Pleistocene
Qye	Young Eolian and Dune Deposits	Qye/ca	Young eolian sand deposits overlie carbonate rocks (marble, limestone, dolomite).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qye	Young Eolian and Dune Deposits	Qye/fp	Young eolian sand deposits overlie felsic plutonic rocks (granite, granodiorite).	Holocene and latest Pleistocene/Pliocene to early Proterozoic

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
Qye	Young Eolian and Dune Deposits	Qye/fv	Young eolian sand deposits overlie felsic volcanic rocks (rhyolite, rhyodacite, felsite).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qye	Young Eolian and Dune Deposits	Qye/mp	Young eolian sand deposits overlie mafic plutonic rocks (gabbro, diorite, monzodiorite, syenite, and alkalic rocks).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qye	Young Eolian and Dune Deposits	Qye/mr	Young eolian sand deposits overlie metamorphic rocks (gneiss, migmatite, mixed lithology).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qye	Young Eolian and Dune Deposits	Qye/Qiea	Young eolian sand deposits overlie intermediate mixed eolian sand and alluvial deposits.	Holocene and latest Pleistocene/late to middle Pleistocene
Qye	Young Eolian and Dune Deposits	Qye/sl	Young eolian sand deposits overlie siliciclastic rocks (silicic sedimentary and metamorphic rocks, i.e., sandstone, quartzite, shale, siltstone).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qye	Young Eolian and Dune Deposits	Qyea	Young mixed eolian sand and alluvial deposits; thoroughly mixed with eolian processes dominating.	Holocene and latest Pleistocene
Qye	Young Eolian and Dune Deposits	Qyea+Qiea	Young mixed eolian sand and alluvial deposits and intermediate mixed eolian sand and alluvial deposits; intermixed.	Holocene to middle Pleistocene
Qye	Young Eolian and Dune Deposits	Qyea+Qya	Young mixed eolian sand and alluvial deposits and young alluvial fan deposits; intermixed.	Holocene and latest Pleistocene
Qye	Young Eolian and Dune Deposits	Qyed	Young eolian sand dune deposits; well-sorted sand in subdued, somewhat eroded dune landforms.	Holocene and latest Pleistocene
Qye	Young Eolian and Dune Deposits	Qyed/Qiea	Young eolian sand dune deposits overlie intermediate intermixed eolian sand and alluvial deposits.	Holocene and latest Pleistocene/late to middle Pleistocene
Qye	Young Eolian and Dune Deposits	Qyer	Young eolian sand ramp deposits; sand and rock on steep hillsides; represent climbing and falling dunes; often cut by small streams.	Holocene and latest Pleistocene
Qye	Young Eolian and Dune Deposits	Qyer/pc	Young eolian sand ramp deposits overlie partly consolidated sedimentary deposits (sandstone, conglomerate).	Holocene and latest Pleistocene/Pliocene to early Proterozoic
Qye	Young Eolian and Dune Deposits	Qyes	Young eolian sand sheet deposits; low sheets of well-sorted sand generally devoid of dune form.	Holocene and latest Pleistocene
Qye	Young Eolian and Dune Deposits	Qyes/Qiea	Young eolian sand sheet overlies intermediate mixed eolian sand and alluvial deposits.	Holocene and latest Pleistocene/late to middle Pleistocene

ptype	name	source_ptype	source_name	source_age
Qow	Old Alluvial Wash Deposits	Qiw	Intermediate wash deposits; inactive remnant sediments; generally form high terraces along edges of major washes.	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qia	Intermediate alluvial fan deposits; poorly sorted sand and gravel, loose to compact; moderately to well-developed desert pavement with varnish on clasts; fan surface partly incised by narrow channels.	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qia/fp	Intermediate alluvial fan deposits overlie felsic plutonic rocks (granite, granodiorite).	late to middle Pleistocene/ Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qia/fpg	Intermediate alluvial fan deposits overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	late to middle Pleistocene/ Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qia/mr	Intermediate alluvial fan deposits overlie metamorphic rocks of mixed lithology (gneiss, migmatite, mixed lithology).	late to middle Pleistocene/ Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qia/mv	Intermediate alluvial fan deposits overlie mafic volcanic rocks (dacite, andesite, basalt).	late to middle Pleistocene/ Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qia/pc	Intermediate alluvial fan deposits overlie partly consolidated sedimentary deposits (sandstone, conglomerate) .	late to middle Pleistocene/ Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qia/Qmv	Intermediate alluvial fan deposits overlie lava flows and cinder cones of basaltic composition.	late to middle Pleistocene/ Quaternary
Qof	Old Alluvial Fan Deposits	Qia/Qoa	Intermediate alluvial fan deposits overlie old alluvial fan deposits.	late to middle Pleistocene/middle to early Pleistocene
Qof	Old Alluvial Fan Deposits	Qia+Qigw	Intermediate alluvial fan deposits and intermediate groundwater-discharge wetland deposits; intermixed.	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qia+Qimc	Intermediate alluvial fan deposits and intermediate mass-movement colluvial deposits; intermixed.	late to early Pleistocene
Qof	Old Alluvial Fan Deposits	Qia+Qoa	Intermediate alluvial fan deposits and old alluvial fan deposits; intermixed.	late to early Pleistocene
Qof	Old Alluvial Fan Deposits	Qiaq	Intermediate alluvial fan deposits composed of grus; clasts from granitic sources that weather to grus.	late to middle Pleistocene

<u>ptype</u>	<u>name</u>	<u>source_ptype</u>	<u>source_name</u>	<u>source_age</u>
Qof	Old Alluvial Fan Deposits	Qiag/fpg	Intermediate alluvial fan deposits composed of grus overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	late to middle Pleistocene/Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qiag/mp	Intermediate alluvial fan deposits composed of grus overlie mafic plutonic rocks (gabbro, diorite, monozodiorite, syenite, alkalic rocks).	late to middle Pleistocene/Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qiag/pc	Intermediate alluvial fan deposits composed of grus overlie partly consolidated sedimentary deposits (sandstone, conglomerate).	late to middle Pleistocene/Pliocene to early Proterozoic
Qof	Old Alluvial Fan Deposits	Qiag/Qoag	Intermediate alluvial fan deposits composed of grus overlie old alluvial fan deposits composed of grus.	late to middle Pleistocene/middle to early Pleistocene
Qof	Old Alluvial Fan Deposits	Qiag+Qigw	Intermediate alluvial fan deposits composed of grus and intermediate groundwater-discharge wetland deposits; intermixed.	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qiag+Qoag	Intermediate alluvial fan deposits composed of grus and old alluvial fan deposits composed of grus; intermixed.	late to early Pleistocene
Qof	Old Alluvial Fan Deposits	Qoa+Qia	Old alluvial fan deposits and intermediate alluvial fan deposits; intermixed.	late to early Pleistocene
Qof	Old Alluvial Fan Deposits	Qiae	Intermediate mixed alluvial and eolian sand deposits; alluvial processes dominate; gravelly sand with vague to well-defined, thin bedding; inconsistently developed pavement.	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qiv	Intermediate axial-valley deposits; medium to fine grained sand to silt and clay with interbedded coarse sand to gravel.	late and middle Pleistocene
Qoe	Old Eolian and Dune Deposits	Qiea	Intermediate mixed eolian sand and alluvial deposits; sediments are thoroughly mixed with eolian processes dominating.	late to middle Pleistocene
Qoe	Old Eolian and Dune Deposits	Qiea/Qoa	Intermediate mixed eolian sand and alluvial deposits overlie old alluvial fan deposits.	late to middle Pleistocene/middle to early Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qoa	Old alluvial fan deposits; rounded, deeply dissected terrane forming pale-colored ballenas above active washes in upper parts of alluvial fans near mountain fronts.	middle to early Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qoa/mr	Old alluvial fan deposits overlie metamorphic rocks (gneiss, migmatite, mixed lithology).	middle to early Pleistocene/Pliocene to early Proterozoic

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
Qvof	Very Old Alluvial Fan Deposits	Qoa/pc	Old alluvial fan deposits overlie partly consolidated sedimentary rocks (sandstone, conglomerate).	middle to early Pleistocene/Pliocene to early Proterozoic
Qvof	Very Old Alluvial Fan Deposits	Qoag	Old alluvial fan deposits composed of grus; clasts from granitic sources that weather to grus.	middle to early Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qoag/fpg	Old alluvial fan deposits composed of grus overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	middle to early Pleistocene/Pliocene to early Proterozoic
Qvof	Very Old Alluvial Fan Deposits	Qoag/mp	Old alluvial fan deposits composed of grus overlie mafic plutonic rocks (gabbro, diorite, monzodiorite, syenite, alkalic rocks).	middle to early Pleistocene/Pliocene to early Proterozoic
Qvof	Very Old Alluvial Fan Deposits	QToa	Extremely old alluvial fan deposits; deeply eroded alluvial fan deposits; no remnant abandoned surfaces or intact soil horizons; compact, bouldery.	early Pleistocene to Pliocene
Qvof	Very Old Alluvial Fan Deposits	QToa/ca	Extremely old alluvial fan deposits overlie carbonate rocks (marble, limestone, dolomite).	early Pleistocene to Pliocene/Pliocene to early Proterozoic
Qvof	Very Old Alluvial Fan Deposits	QToa/mp	Extremely old alluvial fan deposits overlie mafic plutonic rocks (gabbro, diorite, monzodiorite, syenite, alkalic rocks).	early Pleistocene to Pliocene/Pliocene to early Proterozoic
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	QTop	Extremely old playa deposits; exhumed playa and/or groundwater-discharge deposits; forms reddish, vaguely bedded badlands	early Pleistocene to Pliocene
Qv	Pleistocene age and younger formations of volcanic origin	Qmv	Mafic volcanic rocks; lava flows and cinder cones of basaltic composition in Cinder Cone Lava Beds.	Quaternary
Tss	Coarse-grained Tertiary age formations of sedimentary origin	Qha/pc	Abundant hillslope deposits overlie partly consolidated sedimentary deposits (sandstone, conglomerate).	Holocene and Pleistocene/Pliocene to early Proterozoic
Tss	Coarse-grained Tertiary age formations of sedimentary origin	Qha/sl	Abundant hillslope deposits overlie siliciclastic rocks (silicic sedimentary and metamorphic rocks, i.e., sandstone, quartzite, shale, siltstone).	Holocene and Pleistocene/Pliocene to early Proterozoic
Tss	Coarse-grained Tertiary age formations of sedimentary origin	Qpd-pc	Deeply dissected pediment within partly consolidated sedimentary deposits (sandstone, conglomerate).	Holocene to Pleistocene/Pliocene to early Proterozoic
Tss	Coarse-grained Tertiary age formations of sedimentary origin	Qpi-pc	Incised pediment within partly consolidated sedimentary deposits (sandstone, conglomerate).	Holocene to Pleistocene/Pliocene to early Proterozoic
Tss	Coarse-grained Tertiary age formations of sedimentary origin	Qpv-pc	Veneered pediment within partially consolidated sedimentary rocks (sandstone, conglomerate).	Holocene to Pleistocene/Pliocene to early Proterozoic

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
Tv	Tertiary age formations of volcanic origin	Qha/fv	Abundant hillslope deposits overlie felsic volcanic rocks (rhyolite, rhyodactie, felsite).	Holocene and Pleistocene/Pliocene to early Proterozoic
Tv	Tertiary age formations of volcanic origin	Qha/mv	Abundant hillslope deposits overlie mafic volcanic rocks (dacite, andesite, basalt).	Holocene and Pleistocene/Pliocene to early Proterozoic
Tv	Tertiary age formations of volcanic origin	Qhs/fv	Sparse hillslope deposits overlie felsic volcanic rocks (rhyolite, rhyodacite, felsite).	Holocene and Pleistocene/Pliocene to early Proterozoic
Tv	Tertiary age formations of volcanic origin	Qpi-fv	Incised pediment within felsic volcanic rocks (rhyolite, rhyodacite, felsite) that weather to grus.	Holocene to Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qha/ca	Abundant hillslope deposits overlie carbonate rocks (marble, limestone, dolomite).	Holocene and Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qha/mr	Abundant hillslope deposits overlie metamorphic rocks (gneiss, migmatite, mixed lithology).	Holocene and Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qhs/ca	Sparse hillslope deposits overlie carbonate rocks (marble, limestone, dolomite).	Holocene and Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qpd-mr	Deeply dissected pediment within metamorphic rocks of mixed lithology (gneiss, migmatite, mixed lithology).	Holocene to Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qpi-ca	Incised pediment within carbonate rocks (marble, limestone, dolomite).	Holocene to Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qpi-mr	Incised pediment within metamorphic rocks of mixed lithology (gneiss, migmatite, mixed lithology).	Holocene to Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qpv/mr	Veneered pediment overlies metamorphic rocks (gneiss, migmatite, mixed lithology).	Holocene to Pleistocene/Pliocene to early Proterozoic
pKm	Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Qpv-mr	Veneered pediment within metamorphic rocks (gneiss, migmatite, mixed lithology).	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qha/fp	Abundant hillslope deposits overlie felsic plutonic rocks (granite, granodiorite).	Holocene and Pleistocene/Pliocene to early Proterozoic

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
gr	Granitic and other intrusive crystalline rocks of all ages	Qha/fpg	Abundant hillslope deposits overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene and Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qha/mp	Abundant hillslope deposits overlie mafic plutonic rocks (gabbro, diorite, monozodiorite, syenite, alkalic rocks).	Holocene and Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qhs/fpg	Sparse hillslope deposits overlie felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene and Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpd-fp	Deeply dissected pediment within felsic plutonic rocks (granite, granodiorite).	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpd-fpg	Deeply dissected pediment within felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpd-mp	Deeply dissected pediment within mafic plutonic rocks (gabbro, diorite, monozodiorite, syenite, alkalic rocks).	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpi-fp	Incised pediment within felsic plutonic rocks (granite, granodiorite).	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpi-fpg	Incised pediment within felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpi-mp	Incised pediment within mafic plutonic rocks (gabbro, diorite, monozodiorite, syenite, alkalic rocks).	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpv-fp	Veneered pediment within felsic plutonic rocks (granite, granodiorite).	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpv-fpg	Veneered pediment within felsic plutonic rocks (granite, granodiorite) that weather to grus.	Holocene to Pleistocene/Pliocene to early Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qpv-mp	Veneered pediment within mafic plutonic rocks (gabbro, diorite, monozodiorite, syenite, alkalic rocks).	Holocene to Pleistocene/Pliocene to early Proterozoic