

**Table 1. Complete list of map unit symbols and names**

Symbol	Age	Region	Formation Names
Qa	Quaternary	statewide	surficial deposits-alluvium and colluvium
Qao	Quaternary	statewide	surficial deposits-older alluvium and colluvium
Qe	Quaternary	statewide	surficial deposits-eolian deposits
Qg	Quaternary	statewide	surficial deposits-glacial deposits
Ql	Quaternary	statewide	surficial deposits-Lake Bonneville deposits
Qm	Quaternary	statewide	surficial deposits-marshes
Qs	Quaternary	statewide	surficial deposits-mud and salt flats
Qls	Quaternary	statewide	surficial deposits-landslides
Qb	Quaternary	statewide	volcanic rocks-basalts
Qb	Quaternary	WESTERN UTAH	basalt and rhyolite
Qb	Quaternary	SOUTHWESTERN UTAH	basalt and rhyolite
Qr	Pliocene	statewide	volcanic rocks-rhyolites
QT	Pliocene-Pleistocene	WESTERN UTAH	alluvial materials
QT	Miocene-Pleistocene	CENTRAL UTAH	Axtell and Harkers Fms.
QT	Miocene-Pleistocene	UINTA MOUNTAINS-UINTA BASIN	high-level gravels
QT	Pliocene-Pleistocene	SOUTHWESTERN UTAH	alluvial deposits
Tpb	Pliocene	statewide	volcanic rocks-basalts
Tpb	Miocene-Pliocene	NORTHWESTERN UTAH	basaltic rocks (3.1 my)
Tpb	Miocene-Pliocene	LOGAN-HUNTSVILLE ALLOCHTHON	basaltic rocks
Tpb	Miocene-Pliocene	SALT LAKE CITY-COALVILLE- RANDOLPH	basaltic rocks
Tpb	Miocene-Pliocene	WESTERN UTAH	basalt and rhyolite
Tpb	Pliocene	SOUTHWESTERN UTAH	basalt and rhyolite
Tpr	Pliocene	statewide	volcanic rocks-rhyolites
Tmv	Miocene	statewide	volcanic rocks
Tmv	Miocene-Pliocene	WESTERN UTAH	Quichapa Group and other volcanic rocks (Tmb, Tmr, Tma noted below)
Tmv	Miocene-Pliocene	CENTRAL UTAH	Silver Shield Latite (17 my), Pinyon Creek Conglomerate
Tmr	Miocene	statewide	volcanic rocks-rhyolites
Tmr	Miocene-Pliocene	NORTHWESTERN UTAH	dacitic tuff (8.5 my)
Tmr	Miocene-Pliocene	LOGAN-HUNTSVILLE ALLOCHTHON	rhyolite
Tmb	Miocene	statewide	volcanic rocks-basalts
Tmb	Miocene	SOUTHWESTERN UTAH	CEDAR CITY AREA: Page Ranch Fm, Rencher Fm, Quichapa Group (24 my); MARYSVALE AREA: Joe Lott Tuff, Mt. Belknap Volcanics, Osiris Tuff, Mt. Dutton Fm
Tma	Miocene	statewide	volcanic rocks-andesites
T5	Miocene-Pliocene	WESTERN UTAH	Sevier River Fm
T5	Miocene-Pleistocene	UINTA MOUNTAINS-UINTA BASIN	Browns Park Fm
T5	Pliocene	SOUTHEASTERN UTAH	Castle Valley Conglomerate
T5	Miocene, Pliocene	SOUTHWESTERN UTAH	Sevier River Fm
T4	Miocene-Pliocene	NORTHWESTERN UTAH	tuffaceous sediments, mudstone, sandstone, conglomerate, Salt Lake Fm?
T4	Miocene-Pliocene	LOGAN-HUNTSVILLE ALLOCHTHON	tuffaceous sediments, mudstone, sandstone, Salt Lake Fm?, valley fill
T4	Miocene-Pliocene	SALT LAKE CITY-COALVILLE- RANDOLPH	Salt Lake Fm and valley-filling alluvial, lacustrine and volcanic materials

Symbol	Age	Region	Formation Names
T4	Miocene-Pliocene	WESTERN UTAH	Salt Lake Fm and other Basin and Range valley-filling alluvial, lacustrine, and volcanic materials. Valley fill is more than 8,000 feet thick in places and includes salt masses under the Sevier Desert
T4	Miocene-Pliocene	CENTRAL UTAH	Salt Lake (?) Fm and other Basin and Range valley-filling alluvial, lacustrine, and volcanic materials. Valley fill is more than 13,000 feet thick in the central part of Utah Valley.
T4	Miocene	SOUTHWESTERN UTAH	CEDAR CITY AREA: Muddy Creek Fm
T4	Oligocene	UINTA MOUNTAINS-UINTA BASIN	Bishop Conglomerate
T4	Eocene-Oligocene	SOUTHEASTERN UTAH	Bald Knoll (Aurora Fm) and Gray Gulch Fms
Tov	Oligocene	statewide	volcanic rocks
Tov	Oligocene	LOGAN-HUNTSVILLE ALLOCHTHON	Norwood Tuff
Tov	Oligocene	SALT LAKE CITY-COALVILLE- RANDOLPH	Keetley Volcanics
Tov	Oligocene	WESTERN UTAH	Isom Fm (tuff), Needles Range Fm (ash-flow tuff) (29 my), Escalante Desert Fm (ash-flow tuff), Sawtooth Peak Fm (ash-flow tuff), Tunnel Spring Tuff
Tov	Oligocene	CENTRAL UTAH	Laguna Springs Latite
Tov	Oligocene	CENTRAL UTAH	Tintic Mountain Group (latite, porphyry & tuff)
Tov	Oligocene	CENTRAL UTAH	Packard Quartz Latite, Apex Conglomerate
Tov	Oligocene	SOUTHWESTERN UTAH	CEDAR CITY AREA: Isom Fm, Needles Range Fm (29 my); MARYSVALE AREA: Bullion Canyon Volcanics
Tvu	Tertiary	statewide	volcanic rocks-Tertiary
Ti	Tertiary	statewide	intrusive rocks-Tertiary
Ti	Oligocene	NORTHWESTERN UTAH	granitic rock (26 my)
Ti	Oligocene	SALT LAKE CITY-COALVILLE- RANDOLPH	Little Cottonwood and Alta stocks
Ti	Oligocene	SALT LAKE CITY-COALVILLE- RANDOLPH	Clayton Peak and Pine Creek stocks
Ti	Oligocene	WESTERN UTAH	intrusions, chiefly granitic, of various dates
Ti	Oligocene	CENTRAL UTAH	Silver City Monzonite (31 my), Sunrise Peak Monzonite Porphyry, Swanson Quartz Monzonite
Ti	Oligocene	SOUTHEASTERN UTAH	laccolithic intrusions, mostly diorite porphyry (24-28 my)
Ti	Oligocene	SOUTHWESTERN UTAH	CEDAR CITY AREA: quartz monzonite; MARYSVALE AREA: monzonite and granite
T3	Eocene-Oligocene	UINTA MOUNTAINS-UINTA BASIN	Duchesne River Fm, Uinta Fm- south of Uinta Mtns., Bridger Fm- north of Uinta Mtns.
T3	Oligocene	SOUTHEASTERN UTAH	Crazy Hollow Fm
T2	Paleocene-Eocene	SALT LAKE CITY-COALVILLE- RANDOLPH	Fowkes Fm
T2	Eocene	UINTA MOUNTAINS-UINTA BASIN	Green River Fm; Evacuation Creek Mbr, Parachute Creek Mbr (oil shale), Garden Gulch Mbr, Douglas Creek Mbr
T2	Eocene	SOUTHEASTERN UTAH	Green River Fm
T1	Cretaceous?-Eocene	LOGAN-HUNTSVILLE ALLOCHTHON	Wasatch and Evanston? Fms undivided
T1	Paleocene-Eocene	SALT LAKE CITY-COALVILLE- RANDOLPH	Wasatch Fm
T1	Eocene	WESTERN UTAH	White Sage Fm
T1	Cretaceous- Paleocene	CENTRAL UTAH	Flagstaff Limestone
T1	Paleocene-Eocene	UINTA MOUNTAINS-UINTA BASIN	Wasatch/Colton Fm, Flagstaff Limestone

Symbol	Age	Region	Formation Names
T1	Paleocene	SOUTHWESTERN UTAH	Claron Fm
T1	Palocene-Eocene	SOUTHEASTERN UTAH	Flagstaff Fm
TK	Cretaceous-Paleocene	SALT LAKE CITY-COALVILLE-RANDOLPH	Evanston Fm (coal)
TK	Cretaceous-Eocene	WESTERN UTAH	red conglomerate
TK	Cretaceous-Paleocene	CENTRAL UTAH	North Horn Fm
TK	Cretaceous-Paleocene	UINTA MOUNTAINS-UINTA BASIN	North Horn and Carrant Creek Fms
TK	Cretaceous-Paleocene	SOUTHWESTERN UTAH	Canaan Peak Fm
TK	Cretaceous-Paleocene	SOUTHEASTERN UTAH	North Horn and Canaan Peak Fms
K3	Cretaceous	SALT LAKE CITY-COALVILLE-RANDOLPH	Echo Canyon Conglomerate, Henefer Fm
K3	Cretaceous	CENTRAL UTAH	Price River Fm
K3	Cretaceous	UINTA MOUNTAINS-UINTA BASIN	Mesaverde Group (coal)
K3	Cretaceous	SOUTHEASTERN UTAH	Price River Fm, Castlegate Ss, Blackhawk Fm (coal), Star Point Ss
K3	Cretaceous	SOUTHWESTERN UTAH	Kaiparowits Fm, Iron Springs Fm of Cedar City area
K2	Cretaceous	SALT LAKE CITY-COALVILLE-RANDOLPH	Frontier Fm-Upton Ss Mbr, Judd Sh Mbr, Grass Creek Mbr, Dry Hollow Mbr, Oyster Ridge Ss, Allen Hollow Shale Mbr, Coalville Mbr, Chalk Creek Mbr, Spring Canyon Mbr, Longwall Ss Mbr
K2	Cretaceous	CENTRAL UTAH	Indianola Fm
K2	Cretaceous	UINTA MOUNTAINS-UINTA BASIN	Mancos Shale (Hilliard Shale and Blair Formation north of Uinta Mountains), Frontier Sandstone, Mowry Shale
K2	Cretaceous	SOUTHEASTERN UTAH	Mancos Shale: Masuk Shale Mbr, Emery Sandstone Mbr, Blue Gate Shale Mbr, Ferron Ss Mbr, Tununk Sh Mbr
K2	Cretaceous	SOUTHWESTERN UTAH	Wahweap Sandstone, Straight Cliffs Fm (coal), Iron Springs Fm of Cedar City area
K1	Cretaceous	SALT LAKE CITY-COALVILLE-RANDOLPH	Aspen Shale, Kelvin Fm
K1	Cretaceous	UINTA MOUNTAINS-UINTA BASIN	Dakota and Cedar Mountain Fms
K1	Cretaceous	SOUTHEASTERN UTAH	Dakota Sandstone and Cedar Mtn or Burro Canyon Fms
K1	Cretaceous	SOUTHWESTERN UTAH	Tropic Shale, Dakota Ss
Ji	Jurassic	statewide	intrusive rocks-Jurassic
Ji	Jurassic	WESTERN UTAH	granitic rocks (140 my) in House Range and near Wendover
J2	Jurassic	SALT LAKE CITY-COALVILLE-RANDOLPH	Morrison Fm
J2	Jurassic	CENTRAL UTAH	Morrison Fm
J2	Jurassic	UINTA MOUNTAINS-UINTA BASIN	Morrison Fm
J2	Jurassic	SOUTHEASTERN UTAH	Morrison Formation-Brushy Basin Mbr, Salt Wash Mbr
J1	Jurassic	SALT LAKE CITY-COALVILLE-RANDOLPH	Stump Sandstone, Preuss Sandstone, Twin Creek Limestone
J1	Jurassic	WESTERN UTAH	San Rafael Group
J1	Jurassic	CENTRAL UTAH	Summerville Fm, Entrada Sandstone, Carmel Fm, Arapien Shale
J1	Jurassic	UINTA MOUNTAINS-UINTA BASIN	Curtis Formation, Entrada Sandstone, Carmel Fm
J1	Jurassic	SOUTHEASTERN UTAH	Bluff Sandstone, Summerville Fm, Curtis Fm, Entrada Sandstone, Carmel Fm

Symbol	Age	Region	Formation Names
J1	Jurassic	SOUTHWESTERN UTAH	Entrada Fm, Carmel Fm (Arapien Shale at Marysvale)
Jg	Jurassic	SALT LAKE CITY-COALVILLE-RANDOLPH	Nugget Sandstone
Jg	Jurassic	WESTERN UTAH	Navajo Sandstone (Star Range and Blue Mountain)
Jg	Jurassic	CENTRAL UTAH	Navajo Sandstone, Nugget Sandstone
Jg	Jurassic	UINTA MOUNTAINS-UINTA BASIN	Nugget (Navajo) Sandstone
Jg	Jurassic	SOUTHEASTERN UTAH	Glen Canyon Group-Navajo Sandstone, Kayenta Fm, Wingate Sandstone
Jg	Jurassic	SOUTHWESTERN UTAH	Navajo Sandstone, Kayenta Fm, Moenave Fm
TR2	Triassic	SALT LAKE CITY-COALVILLE-RANDOLPH	Ankareh Shale
TR2	Triassic	WESTERN UTAH	Chinle Fm
TR2	Triassic	CENTRAL UTAH	Ankareh Shale
TR2	Triassic	UINTA MOUNTAINS-UINTA BASIN	Chinle Shale, Gartra Sandstone Mbr
TR2	Triassic	SOUTHEASTERN UTAH	Chinle Shale, Shinarump Cg Mbr
TR2	Triassic	SOUTHWESTERN UTAH	Chinle Fm, Shinarump Cg Mbr
TR1	Triassic	LOGAN-HUNTSVILLE ALLOCHTHON	Thaynes Fm
TR1	Triassic	SALT LAKE CITY-COALVILLE-RANDOLPH	Thaynes Formation, Woodside Shale, Dinwoody Fm
TR1	Triassic	WESTERN UTAH	Moenkopi Fm (in Blue Mountain), Thaynes Fm (north of Confusion Range)
TR1	Triassic	CENTRAL UTAH	Thaynes Formation, Woodside Shale
TR1	Triassic	UINTA MOUNTAINS-UINTA BASIN	Moenkopi Formation, Dinwoody Fm
TR1	Triassic	SOUTHEASTERN UTAH	Moenkopi Fm
TR1	Triassic	SOUTHWESTERN UTAH	Moenkopi Fm
P2	Permian	LOGAN-HUNTSVILLE ALLOCHTHON	Park City and Phosphoria Fms
P2	Permian	SALT LAKE CITY-COALVILLE-RANDOLPH	Park City and Phosphoria Fms
P2	Permian	WESTERN UTAH	Gerster Limestone, Plympton Fm, Kaibab Limestone
P2	Permian	CENTRAL UTAH	Park City and Phosphoria Formations
P2	Permian	UINTA MOUNTAINS-UINTA BASIN	Park City Fm
P2	Permian	SOUTHEASTERN UTAH	Kaibab Limestone
P2	Permian	SOUTHWESTERN UTAH	Kaibab Limestone, Toroweap Fm
P1	Permian	WESTERN UTAH	Arcturus Fm
P1	Permian	CENTRAL UTAH	Diamond Creek Sandstone, Kirkman Limestone
P1	Permian	SOUTHEASTERN UTAH	White Rim Ss, De Chelly Ss, Organ Rock Shale, Cedar Mesa Sandstone, Halgaito Fm, Elephant Canyon Fm
P1	Permian	SOUTHWESTERN UTAH	Coconino Sandstone, Supai Group, Pakoon Fm
PIP	Penn.- Permian	NORTHWESTERN UTAH	Oquirrh Group (little metamorphosed allochthonous remnants)
PIP	Penn.- Permian	LOGAN-HUNTSVILLE ALLOCHTHON	Wells Fm
PIP	Penn.- Permian	SALT LAKE CITY-COALVILLE-RANDOLPH	Weber Quartzite
PIP	Penn.- Permian	WESTERN UTAH	Oquirrh Group (10,000+ feet thick) of Cedar Mountains and vicinity, is equivalent, in part to Arcturus Formation and Ely Limestone elsewhere
PIP	Penn.- Permian	CENTRAL UTAH	Oquirrh Group (maximum thickness 25,000 feet), Bridal Veil Limestone of Oquirrh Group
PIP	Penn.- Permian	UINTA MOUNTAINS-UINTA BASIN	Weber Sandstone
PIP	Penn.- Permian	SOUTHWESTERN UTAH	Rico Fm

Symbol	Age	Region	Formation Names
PIP	Penn.- Permian	SOUTHWESTERN UTAH	Callville Limestone
IP	Penn.-Permian	SOUTHEASTERN UTAH	Honaker Trail Fm, Paradox Fm (oil, salt, potash), Pinkerton Trail Fm
IP	Pennsylvanian	WESTERN UTAH	Ely Limestone (chert)
IP	Pennsylvanian	LOGAN-HUNTSVILLE ALLOCHTHON	Round Valley Limestone
IP	Pennsylvanian	SALT LAKE CITY-COALVILLE- RANDOLPH	Morgan Formation, Round Valley Limestone
IP	Pennsylvanian	UINTA MOUNTAINS-UINTA BASIN	Morgan Fm, Round Valley Limestone
M3	Mississippian	NORTHWESTERN UTAH	Chainman Fm (little metamorphosed allochthonous remnants)
M3	Mississippian	LOGAN-HUNTSVILLE ALLOCHTHON	Manning Canyon Shale
M3	Mississippian	SALT LAKE CITY-COALVILLE- RANDOLPH	Doughnut Fm
M3	Mississippian	WESTERN UTAH	Chainman Shale
M3	Mississippian	CENTRAL UTAH	Manning Canyon Shale
M3	Mississippian	UINTA MOUNTAINS-UINTA BASIN	Doughnut Shale
M2	Mississippian	LOGAN-HUNTSVILLE ALLOCHTHON	Great Blue, Humbug and Deseret Fms
M2	Mississippian	SALT LAKE CITY-COALVILLE- RANDOLPH	Humbug Fm, Deseret Limestone
M2	Mississippian	WESTERN UTAH	Ochre Mountain Limestone (Great Blue equivalent), Woodman Fm (Deseret-Humbug equivalent)
M2	Mississippian	CENTRAL UTAH	Great Blue Limestone, Humbug Fm, Deseret Limestone
M2	Mississippian	UINTA MOUNTAINS-UINTA BASIN	Humbug Formation, Deseret Limestone
M1	Mississippian	LOGAN-HUNTSVILLE ALLOCHTHON	Lodgepole Limestone
M1	Mississippian	SALT LAKE CITY-COALVILLE- RANDOLPH	Gardison/Lodgepole Limestone
M1	Mississippian	WESTERN UTAH	Joana Limestone
M1	Mississippian	CENTRAL UTAH	Gardison Limestone, Fitchville Fm
M1	Mississippian	UINTA MOUNTAINS-UINTA BASIN	Madison Limestone
M1	Mississippian	SOUTHEASTERN UTAH	Molas Formation, Redwall Limestone
M1	Mississippian	SOUTHWESTERN UTAH	Redwall Limestone (chert)
D	Devonian	LOGAN-HUNTSVILLE ALLOCHTHON	Leatham Fm, Beirdneau Sandstone, Hyrum Dolomite, Water Canyon Fm
D	Devonian	SALT LAKE CITY-COALVILLE- RANDOLPH	Beirdneau Sandstone, Hyrum Dolomite, Water Canyon Fm
D	Devonian	WESTERN UTAH	Pilot Shale, Guilmette Fm, Simonson Dolomite, Sevy Dolomite
D	Devonian	CENTRAL UTAH	Pinyon Peak Limestone, Victoria Fm
D	Devonian	SOUTHEASTERN UTAH	Ouray Limestone, Elbert Fm and McCracken Ss, Aneth Fm
D	Devonian	SOUTHWESTERN UTAH	Temple Butte-Muddy Peak Ls.
S	Silurian	LOGAN-HUNTSVILLE ALLOCHTHON	Laketown Dolomite
S	Silurian	SALT LAKE CITY-COALVILLE- RANDOLPH	Laketown Dolomite
S	Silurian	WESTERN UTAH	Laketown Dolomite
S	Silurian	CENTRAL UTAH	Bluebell Dolomite
O	Ordovician	NORTHWESTERN UTAH	Fish Haven Dol., Eureka Qtzt., and Pogonip Gp (metamorphosed)
O	Ordovician	LOGAN-HUNTSVILLE ALLOCHTHON	Fish Haven Dolomite, Swan Peak Quartzite, Garden City Limestone

Symbol	Age	Region	Formation Names
O	Ordovician	SALT LAKE CITY-COALVILLE-RANDOLPH	Fish Haven Dolomite, Garden City Ls
O	Ordovician	WESTERN UTAH	Ely Springs Dolomite, Eureka Quartzite, Crystal Peak Dolomite, Watson Ranch Quartzite, Lehman Fm, Kanosh Shale, Juab Limestone, Wah Wah Limestone, Fillmore Limestone, House Limestone
O	Ordovician	CENTRAL UTAH	Fish Haven Dolomite, Ophongong Limestone
C3	Cambrian	LOGAN-HUNTSVILLE ALLOCHTHON	St. Charles Fm, Worm Creek Quartzite, Nounan Dolomite
C3	Cambrian	SALT LAKE CITY-COALVILLE-RANDOLPH	St. Charles Fm, Nounan Dolomite, Bloomington Fm
C3	Cambrian	WESTERN UTAH	Notch Peak Formation, Orr Formation, Lamb/Weeks/Wah Wah Summit Fms
C3	Cambrian	CENTRAL UTAH	Ajax Dolomite, Opex Fm (part of Maxfield Limestone)
C2	Cambrian	LOGAN-HUNTSVILLE ALLOCHTHON	Bloomington Fm, Blacksmith Fm, Ute Fm, Langston Fm
C2	Cambrian	SALT LAKE CITY-COALVILLE-RANDOLPH	Maxfield Limestone, Ophir Fm
C2	Cambrian	WESTERN UTAH	Trippe Limestone, Marjum/Pierson Cove Fms, Wheeler Shale, Swasey Limestone, Whirlwind Fm, Dome Limestone, Chisholm Fm, Howell Limestone, Pioche Fm
C2	Cambrian	CENTRAL UTAH	Cole Canyon Dolomite, Bluebird Dolomite, Herkimer Limestone, Dagmar Dolomite, Teutonic Limestone, Ophir Fm, Maxfield Limestone
C2	Cambrian	SOUTHEASTERN UTAH	Muav Limestone, Bright Angel Shale
C2	Cambrian	UINTA MOUNTAINS-UINTA BASIN	Maxfield Limestone
C2	Cambrian	SOUTHWESTERN UTAH	Nopah Fm, Bonanza King Fm, Muav Limestone, Pioche Shale
C1	Cambrian	NORTHWESTERN UTAH	schist of Mahogany Peaks, Quartzite of Clarks Basin
C1	Cambrian	SOUTHEASTERN UTAH	Tapeats/Ignacio Quartzite
C1	Cambrian	LOGAN-HUNTSVILLE ALLOCHTHON	Geertsen Canyon Quartzite
C1	Cambrian	SALT LAKE CITY-COALVILLE-RANDOLPH	Tintic Quartzite
C1	Cambrian	WESTERN UTAH	Prospect Mountain Quartzite (3,500 feet thick)
C1	Cambrian	CENTRAL UTAH	Tintic Quartzite
C1	Cambrian	UINTA MOUNTAINS-UINTA BASIN	Lodore Sandstone
C1	Cambrian	SOUTHWESTERN UTAH	Prospect Mountain Quartzite
PCs	Proterozoic (Z)	LOGAN-HUNTSVILLE ALLOCHTHON	Browns Hole Fm (570 my), Mutual Fm, Inkom Fm, Caddy Canyon Quartzite, Papoose Creek Fm, Kelley Canyon Fm, Maple Canyon Fm, Fm of Perry Canyon, diamicite mbr
PCs	Proterozoic (Z)	CENTRAL UTAH	Precambrian Rocks of the Canyon Range: Mutual Fm, Inkom Fm, Caddy Canyon Quartzite, Papoose Creek Fm, Blackrock Canyon Limestone, Upper part of Pocatello Fm
PCs	Proterozoic (Y)	UINTA MOUNTAINS-UINTA BASIN	Uinta Mountain Group (950 my) (24,000 feet thick along Green River) (includes Red Pine Shale)
PCs	Proterozoic (X)	NORTHWESTERN UTAH	schist of Stevens Spring, Quartzite of Yost, Schist of Upper Narrows, Elba Quartzite
PCs	Proterozoic	SALT LAKE CITY-COALVILLE-RANDOLPH	Mutual Formation, Mineral Fork Tillite, Big Cottonwood Fm (16,000 feet thick)
PCs	Proterozoic	WESTERN UTAH	McCoy Creek and Sheeprock Groups, (10,000+ feet thick)

Symbol	Age	Region	Formation Names
PCm	Proterozoic	UINTA MOUNTAINS-UINTA BASIN	Red Creek Quartzite (20,000 feet thick) (2.3 billion years old)
PCm	Proterozoic (X)	LOGAN-HUNTSVILLE ALLOCHTHON	metaquartzite and schist of Facer Creek
PCm	Precambrian	WESTERN UTAH	metamorphic rocks
PCm	Precambrian	CENTRAL UTAH	metamorphic complex of Mt. Nebo
PCm	Precambrian	SOUTHEASTERN UTAH	schist, gneiss, granite (1.5 billion years old)
PCm	Precambrian	SOUTHWESTERN UTAH	Vishnu Schist and granitic intrusions (1650 my)
PCm	Archean (W)	NORTHWESTERN UTAH	Green Creek Complex
PCm	Archean (W)	SALT LAKE CITY-COALVILLE- RANDOLPH	Farmington Canyon and Little Willow schist and gneiss (2.6 billion years old)
PCi	Precambrian	statewide	intrusive rocks-Precambrian
PCi	Precambrian	WESTERN UTAH	granitic intrusions at Granite Peak and metamorphic rocks
PCi	Archean (W)	NORTHWESTERN UTAH	adamellite intrusions (2.5 Ga Rb-Sr age )
water		statewide	open bodies of water
playa		statewide	intermittent bodies of water