

**Appendix Table E1. Geomorphic map units.**

[<, less than; ka, killoannum; N. Fk, North Fork; S. Fk, South Fork; m, meters]

Unit	Unit label	Age	Short description	Additional mapping notes
Mainstem alluvium				
Active mainstem flood plain	Qmfp	<7.7 ka	Area of Post-Mazama channel migration; flood-plain and channel deposits, Sprague, N. Fk Sprague, S. Fk Sprague, Sycan Rivers	NA
Mainstem valley fill	Qvf	Holocene	Flood-plain and basin areas outside of active channel areas; historically subject to overbank flooding	NA
Terrace undifferentiated	Qtu	Quaternary	Undifferentiated mainstem terrace deposits (terrace remnants as high as 75 m above present flood plain near Chiloquin)	NA
Terrace 1	Qt1	Quaternary	Mainstem deposits at elevations as much as 2 m above active flood plain (8 m near Williamson River confluence)	Terrace sequence mapped on basis of local relative position; terrace designations not necessarily correlative throughout map area
Terrace 2	Qt2	Quaternary	Mainstem deposits at elevations as much as 4 meters above active flood plain (15 m near Williamson River confluence)	See above
Terrace 3	Qt3	Quaternary	Mainstem deposits at elevations as much as 10 m above active flood plain (15 m near Williamson River confluence)	See above
Terrace 4	Qt4	Quaternary	Mainstem deposits at elevations as much as 20 m above active flood plain (50 m near Williamson River confluence)	See above
Tributary alluvium				
Active tributary flood plain	Qtfp	Holocene	Tributary channel, floodplain, and basin fill deposits subject to inundation, unconfined, low-gradient	Active surfaces, sometimes arbitrary distinction with active fans and colluvium
Active tributary fans	Qtf	Quaternary	Active fans from small tributaries, generally first or second order drainages	Fan-shaped bodies emanating from small tributaries and colluvial slopes; somewhat arbitrary distinction with colluvial slopes and tributary floodplains
Abandoned fan undifferentiated	Qtfu	Quaternary/ Tertiary	Incised tributary fan deposits, surfaces as much as 30 m above active channels	Map areas based on geomorphic extent of fan; typically includes much area of bedrock (mainly lacustrine sediment) where capping fans gravels have been eroded. Fan sequence mapped on basis of local relative position; fan designations not necessarily correlative throughout map area
Abandoned fan 1	QTf1	Quaternary/ Tertiary	Fan deposits at elevations as much as 5 m above active channels	See above

Abandoned fan 2	QTf2	Quaternary/ Tertiary	Fan deposits at elevations as much as 10 m above active channels	See above
Abandoned fan 3	QTf4	Quaternary/ Tertiary	Fan deposits at elevations as much as 25 m above active channels	See above
Abandoned fan 4	QTf4	Quaternary/ Tertiary	Fan deposits at elevations as much as 40 m above active channels	See above
Other fluvial deposits				
Active springs and spring deposits	Qsp	Holocene	Active springs and associated wetland deposits, outside of active floodplain	NA
Sycan flood deposits	Qsy	Holocene	Deposits of post-Mazama Sycan flood	NA
Pond and wetland deposits	Qla	Holocene	Lacustrine deposits associated modern or historic water bodies, outside of active floodplain	Only mapped outside of active mainstem flood plain
Hillslope deposits				
Colluvial slopes	Qcol	Quaternary	Hillslope colluvium and piedmont slope deposits	Only mapped where underlying bedrock totally obscured. Not mapped consistently
Landslide deposits	Qls	Quaternary	Deposits of large mass movements, primarily rotational failures	NA
Undifferentiated bedrock				
Undifferentiated bedrock	BR	Tertiary	Chiefly lacustrine sediment, tuff and extrusive volcanic rock.	NA