

Geologic Units in the West Half of the Toppenish 1:100,000 Quadrangle (See explanatory note at bottom of spreadsheet)

Old Symbol	New Symbol	Age	Lithology	Named Unit
---	wtr			
N.A.(east half)	Mcg(e)	Miocene, upper	continental sedimentary deposits or rocks, conglomerate	Ellensburg Formation
Qaf	Qaf	Quaternary	alluvial fan deposits	---
Qafo	Qafo	Quaternary	alluvial fan deposits, older	---
Qal	Qa	Quaternary	alluvium	---
Qf	Qfs(t)	Pleistocene	outburst flood deposits, sand and silt, late Wisconsin	Touchet Beds, glacial Lake Missoula
Qlo	Ql	Quaternary	loess	Palouse Formation
Qls	Qls	Quaternary	mass-wasting deposits, mostly landslides	---
Qt	Qt	Quaternary	terraced deposits	---
QTg	QPLcg	Pleistocene-Pliocene	continental sedimentary deposits or rocks, conglomerate	---
QTsb	QPLvb(s)	Pleistocene-Pliocene	basalt flows	Simcoe Mountains, volcanic rocks of
QTsd	QPLvd(s)	Pleistocene-Pliocene	dacite flows	Simcoe Mountains, volcanic rocks of
QTsr	QPLvr(s)	Pleistocene-Pliocene	rhyolite flows	Simcoe Mountains, volcanic rocks of
Tel	Mc(e)	Miocene, middle to upper	continental sedimentary deposits or rocks	Ellensburg Formation
Tgn(2)	Mv(gN2)	Miocene, middle	basalt flows (GrandeRondeBasalt,upper flows of norm.mag.pol.)	Grande Ronde Basalt, N2 (CRB)
Tgr(2)	Mv(gR2)	Miocene, middle	basalt flows (GrandeRondeBasalt,upper flows of rev.mag.pol.)	Grande Ronde Basalt, R2 (CRB)
Tse	Mv(sem)	Miocene, upper	basalt flows (Elephant Mountain Member [CRB, SMB])	Elephant Mountain Member, Saddle Mountains Basalt
Tsp	Mv(sp)	Miocene, middle	basalt flows (Pomona Member [CRB, SMB])	Pomona Member, Saddle Mountains Basalt
Tsu	Mv(su)	Miocene, middle	basalt flows (Umatilla Member [CRB, SMB])	Umatilla Member, Saddle Mountains Basalt
Twf	Mv(wfs)	Miocene, middle	basalt flows (Frenchman Springs Member [CRB, WB])	Frenchman Springs Member, Wanapum Basalt
Twp	Mv(wpr)	Miocene, middle	basalt flows (Priest Rapids Member [CRB, WB])	Priest Rapids Member, Wanapum Basalt
Twr	Mv(wr)	Miocene, middle	basalt flows (Roza Member [CRB, WB])	Roza Member, Wanapum Basalt

Washington Division of Geology and Earth Resources Open File Report 86-03, Geologic map of the west half of the Toppenish quadrangle, Washington, compiled by Timothy J. Walsh, was released before the Division adopted a standard symbology for geologic units to be portrayed in 1:100,000, 1:250,000, and 1:500,000 geologic maps of Washington State. Therefore the geologic unit symbology on this map and in the accompanying text does not match that found on many later geologic maps that include the west half of the Toppenish 1:100,000 quadrangle. This makes it more difficult for the user to, for example, compare geologic unit descriptions between this map and others that have different symbols for the same unit or to compile a description for a geologic unit that occurs in more than one 1:100,000 quadrangle. This table is included to make it easier to relate the units on this map with units on later maps that use the standard symbology. The column headed "Old Symbol" lists the units on this map alphabetically. The column headed "New Symbol" lists the same units expressed in the standard symbology.

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