

Table 1.--Generalized correlation chart of selected geologic and aquifer units for the northern Great Plains area of Montana

Eratthem	System	Series	Northwestern Montana Plains		North-central Montana Plains		Eastern Montana and western North Dakota		Southwestern Montana Plains		Southeastern Montana Plains			
Cenozoic	Quaternary	Holocene	Alluvium Terrace deposits Glacial drift		Alluvium Terrace deposits Glacial drift		Alluvium Terrace deposits Glacial drift		Alluvium Terrace deposits		Alluvium Terrace deposits			
		Pleistocene			Wiota Gravel		Wiota Gravel							
	Tertiary	Pliocene			Flaxville Formation		Flaxville Formation							
		Miocene									Arkaree Formation			
		Oligocene			igneous rocks				Wasatch Formation		White River Formation equivalent			
		Eocene							Absaroka Volcanics		Wasatch Formation			
		Paleocene	Willow Creek Formation				Fort Union Formation		Fort Union Formation		Fort Union Formation		Tongue River Member	
							Lebo Shale Member		Lebo Shale Member		Lebo Shale Member		Lebo Shale Member	
	Mesozoic	Upper Cretaceous	St. Mary River Formation		Hell Creek Formation		Hell Creek Formation		Hell Creek Formation		Hoppers Formation		Hell Creek Formation	
			Fox Hills Sandstone		Fox Hills Sandstone		Fox Hills Sandstone		Fox Hills Sandstone		Billman Creek Formation		Fox Hills Sandstone	
Horsethief Sandstone			Bearpaw Shale		Bearpaw Shale		Bearpaw Shale		Miner Creek Formation		Bearpaw Shale			
Two Medicine Formation			Judith River Formation		Judith River Formation		Judith River Formation		Cokedale Formation		Judith River Formation			
Claggett Shale			Claggett Shale		Claggett Shale		Claggett Shale		Volcanic rocks, equivalent to Livingston Group		Judith River Formation			
Eagle Sandstone			Eagle Sandstone		Eagle Sandstone		Eagle Sandstone		Eagle Sandstone		Eagle Sandstone			
Virgelle Sandstone			Virgelle Sandstone Member		Virgelle Sandstone Member		Virgelle Sandstone Member		Telegraph Creek Formation		Telegraph Creek Formation			
Telegraph Creek Formation			Telegraph Creek Formation		Telegraph Creek Formation		Telegraph Creek Formation		Telegraph Creek Formation		Telegraph Creek Formation			
Niobrara Formation			Niobrara Formation		Niobrara Formation		Niobrara Formation		Niobrara Formation		Niobrara Formation			
Marias River Shale			Bowdoin ss l. Carlile Shale		Carlile Shale		Carlile Shale		Cody Shale		Carlile Shale			
Mesozoic	Lower Cretaceous	Blackleaf Formation		Blackleaf Formation		Blackleaf Formation		Blackleaf Formation		Blackleaf Formation		Blackleaf Formation		
		Bootlegger Member		Muddy Sandstone		Muddy Sandstone		Muddy Sandstone		Muddy Sandstone		Muddy Sandstone		
		Vaughn Member		Skull Creek Shale		Skull Creek Shale		Skull Creek Shale		Thermopolis Shale equivalent (Skull Creek Shale)		Skull Creek Shale		
		Taft Hill Member		basal silt l.		basal silt l.		basal silt l.		First Cat Creek sandstone l.		"Dakota" - Fall River Sandstone		
		Flood Member		First Cat Creek sandstone l.		First Cat Creek sandstone l.		First Cat Creek sandstone l.		First Cat Creek sandstone l.		First Cat Creek sandstone l.		
		Kootenai Formation		Kootenai Formation		Kootenai Formation		Kootenai Formation		Kootenai Formation		Kootenai Formation		
		Moulton Member		Second Cat Creek sandstone l.		Fuson Shale		Fuson Shale		Greybull Sandstone Member of Cloverly Formation equivalent		Cloverly Formation equivalent (Kootenai Formation)		
		Sunburst Sandstone Member		Third Cat Creek sandstone l.		Lakota Sandstone		Lakota Sandstone		Third Cat Creek sandstone l.		Lakota Sandstone		
		Cut Bank Sandstone Member												
		Mesozoic	Upper Jurassic	Morrison Formation		Morrison Formation		Morrison Formation		Morrison Formation		Morrison Formation		Morrison Formation
Swift Formation				Swift Formation		Swift Formation		Swift Formation		Swift Formation		Swift Formation		
Rierdon Formation				Rierdon Formation		Rierdon Formation		Rierdon Formation		Rierdon Formation		Rierdon Formation		
Sawtooth Formation				Piper Formation		Piper Formation		Piper Formation		Piper Formation		Piper Formation		
Nesson Formation				Nesson Formation		Nesson Formation		Nesson Formation		Nesson Formation		Nesson Formation		
Spearfish Formation				Spearfish Formation		Spearfish Formation		Spearfish Formation		Chugwater Formation		Chugwater Formation		
Minnekahta Limestone				Minnekahta Limestone		Minnekahta Limestone		Minnekahta Limestone		Dinwoody Formation		Dinwoody Formation		
Opeche Formation				Opeche Formation		Opeche Formation		Opeche Formation		Phosphoria Formation		Phosphoria Formation		
Quadrant Formation				Quadrant Formation		Quadrant Formation		Quadrant Formation		Minnelusa Sandstone		Minnelusa Sandstone		
Devils Pocket Formation				Tyler Formation		Tyler Formation		Tyler Formation		Amsden Group		Amsden Group		
Paleozoic	Mississippian	Heath Formation		Heath Formation		Heath Formation		Heath Formation		Heath Formation		Heath Formation		
		Otter Formation		Otter Formation		Otter Formation		Otter Formation		Otter Formation		Otter Formation		
		Kibbey Sandstone		Kibbey Sandstone		Kibbey Sandstone		Kibbey Sandstone		Kibbey Sandstone		Kibbey Sandstone		
		Charles Formation		Charles Formation		Charles Formation		Charles Formation		Charles Formation		Charles Formation		
		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		
		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		
		Sun River Member		Sun River Member		Sun River Member		Sun River Member		Sun River Member		Sun River Member		
		Castle Reef Dolomite		Castle Reef Dolomite		Castle Reef Dolomite		Castle Reef Dolomite		Castle Reef Dolomite		Castle Reef Dolomite		
		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		Mission Canyon Limestone		
		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		Lodgepole Limestone		
Paleozoic	Devonian to Precambrian, undifferentiated ²													

1. Of subsurface usage
 2. Includes Flathead Quartzite of Cambrian age
 3. Now designated Upper Cretaceous by the U.S. Geological Survey

Modified from Balster (1980) and Rice (1976a, c)