GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

ERA	PERIOD OR EPOCH	GROUP OR FORMATION (map-unit)		LITHOLOGY	THICKNESS (feet)
MESOZOIC	Upper Cretaceous	Brazeau Formation (27)		Sandstone, arkosic, conglomeratic sandstone	500+
		Smoky Group	Wapiabi Fm. (26)	Shale, black, with thin siltstone beds	1,600±
			Cardium Fm. (25)	Sandstone, fine-grained, quartzose	300
			Kaskapau Fm. (24)	Shale, black, concretionary	1,700±
	Upper and Lower Cretaceous	Dunvegan and Shaftesbury Fms. (23)		Sandstone, coarse-grained, crossbedded; shale, dark grey, silty	600
		Disconformity			
	Lower Cretaceous	Luscar Formation (22)		Sandstone, fine-grained, greenish grey; siltstone, shale, coal	2,000±
		Cadomin Formation (21)		Conglomerate, chert and quartzite	10 to 30
		Disconformity ?			
	Lower Cretaceous and Jurassic	Nikanassin Fm. (20)		Sandstone, siltstone, silty mudstone, dark grey	1,000 to 2,000
	Jurassic	Fernie Group (19)		Shale, black and dark grey, concretionary; all members present	700 to 900
	Disconformity				
	Triassic	Whitehorse Fm. (18)		Carbonate, light grey, silty; breccias, red mudstone, gypsum	100 to 1,500
		Sulphur Mountain Fm. (17)		Siltstone, dark brownish grey, thin-bedded, silty mudstone	600 to 1,000
	Disconformity				
PALÆOZOIC	Permian and/or Pennsylvanian	Rocky Mountain Fm. (16)		Chert, grey, massive; sandstone, cherty, brown	0 to 220
	Disconformity				
	Mississippian	Rundle Group (15)	Formation D	Dolomite, cherty, dense, medium-bedded	250 to 400
			Formation C	Dolomite, brown, coarse-grained, porous	150 to 400
			Formation B	Limestone, dark grey, fine-grained, thin-bedded	200 to 360
			Formation A	Limestone, crinoidal, light grey, coarse-grained, thick-bedded	115 to 300
		Banff Formation (14)		Limestone and calcareous shale, dark brown, thin-bedded	500 to 760
	Disconformity				
	Devonian*	Palliser Formation (13)		Limestone, dolomitic, dark grey, fine-crystalline, massive	700 to 900
		Sassenach Fm. (12)		Sandstone, calcareous, fine-grained, siltstone; silty shale, silty carbonates	0 to 600
		Mount Hawk and Perdrix Fms. (11)		Limestone, argillaceous, brownish grey; shale, dark grey, fissile	550 to 1,100
		Southesk Formation (10)		Limestone, light grey, fine-crystalline, medium-bedded	0 to 650
		Cairn Formation (9)		Carbonate, brown, fine-to medium-crystalline, with stromatoporoids	0 to 900
		Maligne and Flume Formations (8)		Limestone, argillaceous, dark grey, thin-bedded; limestone, cherty, dark brown	150 to 250
	Unconformity				
	Lower Ordovician	Chushina Formation (7)		Limestone; calcareous shale, greenish grey; intraformational conglomerate	0 to 700
	Upper Cambrian	Lynx Formation (6)		Carbonates, silty, thin-bedded, argillaceous; intraformational conglomerate	0 to 2,400
	Upper and/or Middle Cambrian	Arctomys Formation (5)		Shale, silty, red and green; siltstone, yellow, brown	600 to 800
	Disconformity ?				
	Middle Cambrian	Pika Fm. / Titkana Fm.	(4)	Limestone; calcareous shale, thin-bedded; limestone, dolomitic, dark grey, massive	1,000 to 1,500
		(3)		Shale, green and red; argillaceous limestone; limestone, dark grey, resistant	1,400 to 1,800
	Lower Cambrian and earlier ?	Gog Group (2)		Sandstone, light grey, fine-to coarse-grained, quartzose, crossbedded, massive	4,500±
— —?— —	Disconformity ?				
PRECAMBRIAN	Proterozoic	Miette Group (1)		Shale and phyllite, grey; sandstone, conglomeratic, poorly sorted; carbonate, arenaceous, with algal ? markings	3,000+

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TABLE OF FORMATIONS

Compiled by E. W. Mountjoy
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*Devonian map-units 9 to 11 not in stratigraphic order; see Preliminary Map 41-1961, Mount Robson

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