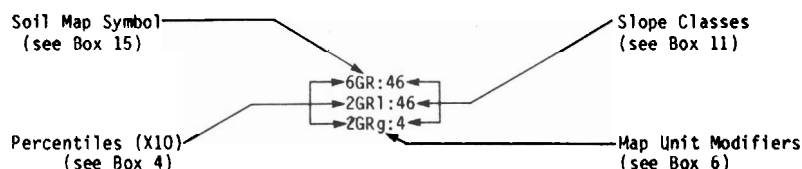


SOILS OF THE VERNON MAP AREA 82L

2. Example of Map Symbol



Soil or land type inclusions occupying up to 20% of a map polygon are not usually identified unless they are strongly contrasting (such as rock outcrops, swamps, etc.).

5. Biogeoclimatic Vegetation Units

Symbol	Name	Biogeoclimatic Units*
PPBG:E	Ponderosa Pine - Bunchgrass: edaphic grassland	Kamloops Very Dry Northern Ponderosa Pine - Bunchgrass Grassland, Very Dry Northern Ponderosa Pine - Bunchgrass Edaphic Grassland, and Thompson Plateau Very Dry and Dry Submontane Interior Douglas-Fir Edaphic Grassland
PPBG	Ponderosa Pine - Bunchgrass	Very Dry Northern and Keremeos Very Dry Southern Ponderosa Pine - Bunchgrass Forested, and Thompson Plateau Very Dry and Dry Submontane Interior Douglas-Fir
IDF:E	Interior Douglas-Fir: edaphic grassland	
IDF	Interior Douglas-Fir	Thompson Plateau Very Dry and Dry Montane, Okanagan Dry Montane, and Shuswap Highlands and Okanagan Semi-Moist Interior Douglas-Fir
IDF-W	Interior Douglas-Fir - wet	Thompson Plateau Dry Montane, and Shuswap Highlands and Okanagan Semi-Moist Interior Douglas-Fir
ICH-D	Interior Western Red Cedar - Western Hemlock - dry	Cool Semi-Moist Interior Western Red Cedar - Western Hemlock
ICH-T	Interior Western Red Cedar - Western Hemlock - transition	Thompson River and Shuswap River Moist Interior Western Red Cedar - Western Hemlock
ICH	Interior Western Red Cedar - Western Hemlock	Kootenay - Columbia Moist Southern Interior Western Red Cedar - Western Hemlock
ICH-W	Interior Western Red Cedar - Western Hemlock - wet	Western Wet Submontane and Montane, and Wet Interior Western Red Cedar and Western Hemlock
MS	Montane Spruce	Very Dry and Thompson Plateau, South Okanagan and North Okanagan Dry Montane Spruce
ESSF-D	Engelmann Spruce - Subalpine Fir - dry	Dry Southern Engelmann Spruce - Subalpine Fir Forested
ESSF-T	Engelmann Spruce - Subalpine Fir - transition	Dry Southern, Moist Western, and Moist Southern Engelmann Spruce - Subalpine Fir Forested
ESSF-W	Engelmann Spruce - Subalpine Fir - wet	Shuswap Highlands and Northern Monashee Wet Western, Wet Mountain Hemlock, and Moist Southern Engelmann Spruce - Subalpine Fir Forested
ESSF:P-T	Engelmann Spruce - Subalpine Fir: parkland - transition	Moist Western Engelmann Spruce - Subalpine Fir Parkland
ESSF:P-W	Engelmann Spruce - Subalpine Fir: parkland - wet	Shuswap Highlands Wet Western, and Wet and Moist Southern Engelmann Spruce - Subalpine Fir Parkland
AT-W	Alpine Tundra - wet	Moist and Wet Interior Alpine Tundra

*From Utzig et. al., 1983 and Mitchell et. al., 1981.

10/11
#0/11

1. Explanatory Notes

The information in the following boxes explains the important characteristics of the soils of the Vernon map area (82L), which covers approximately 1 578 536 ha in southern British Columbia. This legend describes soils surveyed at an intensity level 4 where nearly all traverses were by surface vehicle and supplemented by helicopter, and almost all boundaries inferred by air photo interpretation.

Some parts of the Vernon map area, mapped previously in more detail, have been omitted from the 82L reconnaissance maps. These consist of the detailed soil surveyed sections of the Lumby - Cherryville, Vernon, Armstrong, and Salmon Arm areas (Sprout and Kelley, 1960), the Shuswap Lakes area (Dawson and Kelley, 1965), and the Eagle River area (Dawson and Kelley, 1964). Other areas previously mapped in more detail have been generalized. These consist of the Regional District of North Okanagan (Kowall, 1979b), the Graystones area (Kowall, 1981a), the Coldstream Creek Watershed area (Kowall, 1981b), and the Barton Hill Provincial Forest area (Kowall, 1979a).

Soils correlated with described soils in the North Okanagan Valley and Shuswap Lake areas or in adjacent surveyed areas account for 106 of the 117 soils. Descriptions of these soils may be found in the reports listed for each soil in the Soil Name (Source) column in Box 15 and described in Box 3. With a large number of soils being obtained from other soil surveys, a number of the soils had the same map symbol. In order to avoid confusion and still maintain a consistent map symbol, a third letter was added to one of the soil map symbols. For example, the Connaly soil from the Princeton and Tulameen surveys and Cinnemousen soil from the Seymour Arm survey both have CN as the map symbol. To distinguish these two soils, the Cinnemousen soil is symbolled as CNA and the Connaly soil retains the original CN symbol.

4. Composite Map Symbols

Composite map symbols are used where two or three soils are so intermixed or occupy such small areas that they cannot be separated at the scale of mapping. In the example in Box 2, 60% of the soil map unit is occupied by GR, 20% GR1 and 20% GRg.

6. Map Unit Modifiers

<u>Symbol</u>	<u>Description</u>
g*	soil is a gleyed or gleysolic variation from the normal subgroup designation. It usually has fewer coarse fragments than the normal soil, slow drainage, hydric ecological moisture regime and usually gentle to moderate slopes
l*	soil is lithic (depth of soil is between 10 and 100 cm over bedrock). It usually has more coarse fragments than the normal soil, good drainage and xeric ecological moisture regime.

*From CSSC, 1978.

7. Drainage*

<u>Terminology</u>	<u>Description</u>
good	soil holds little moisture after rain; no excess moisture for most of the year; consists of <u>rapidly and well drained</u> classes
medium	excess moisture for short but significant periods of the year; consists of <u>moderately well and imperfectly drained</u> classes
slow	excess moisture throughout the year; free water remains at or near the soil surface most of the year; consists of <u>poorly and very poorly drained</u> classes

*From CSSC, 1978.

8. Bedrock Grouping*

<u>Terminology</u>	<u>Description</u>
acidic	predominantly granitoid gneiss, augen gneiss, micasillimanite-garnet schist, granite and granodiorite
basic	predominantly basalt, andesite lava and tuff, sericite schist, limestone and argillite
variable	intermixed acidic and basic bedrock

*From Jones, 1959.

9. Previousness*

<u>Terminology</u>	<u>Description</u>
rapid	the capacity to transmit water vertically is so great that the soil will remain wet for no more than a few hours after thorough wetting
moderate	the capacity to transmit water vertically is great enough that the soil will remain saturated for no more than a few days after thorough saturation
slow	the potential to transmit water vertically is so slow that the horizon or the soil will remain saturated for periods of a week or more after thorough wetting

*From RAB, 1980.

11. Slopes*

<u>Slope Class</u>	<u>Percent Slope</u>	<u>Terminology</u>	<u>Description</u>
1	.0 - 0.5	level	gentle
2	0.5 - 2.5	nearly level	
3	2 - 5	very gentle slopes	
4	6 - 9	gentle slopes	moderate
5	10 - 15	moderate slopes	
6	16 - 30	strong slopes	
7	31 - 45	very strong slopes	steep
8	46 - 70	extreme slopes	
9	71 - 100	steep slopes	very steep
0	>100	very steep slopes	

Where a range of slope classes occur in a map unit the dominant slope class is listed first. For example, a 7b slope class has a slope range of 16 to 45%, and the 31 to 45% slopes dominate.

*From CSSC, 1978.

10. Ecological and Moisture Regime*

<u>Terminology</u>	<u>Description</u>
xeric	water is removed extremely rapidly to rapidly in relation to supply; soil is moist for negligible or only short periods after precipitation; consists of <u>very xeric</u> , <u>xeric</u> and <u>subxeric</u> classes.
mesic	water is readily to slowly removed in relation to supply; soil remains moist or wet for short but significant periods of the growing season; consists of <u>submesic</u> , <u>mesic</u> and <u>subhygric</u> classes
hydric	soil is wet for most or all of the growing season; watertable is at or near the soil surface; consists of <u>hygric</u> , <u>subhydric</u> and <u>hydric</u> classes

*From RAB, 1980.

12. Texture and Coarse Fragment Content*

<u>Coarse Fragment Content (>2 mm)</u>		<u>Fine Fraction Texture (<2 mm)</u>	
<u>Class</u>	<u>Description</u>	<u>Class</u>	<u>Description</u>
high	>50% of soil volume	coarse	sand, loamy sand
moderate	20 to 50% of soil volume	moderately coarse	sandy loam
low	<20% of soil volume	medium	loam, silt loam, silt
		moderately fine	clay loam, sandy clay loam, silty clay loam
		fine	sandy clay, silty clay, clay

*From CSSC, 1978.

13. Soil Taxonomy*

<u>Symbol</u>	<u>Description</u>
O.EB	Orthic Eutric Brunisol
E.EB	Eluviated Eutric Brunisol
O.DYB	Orthic Dystric Brunisol
E.DYB	Eluviated Dystric Brunisol
O.B	Orthic Brown
O.BL	Orthic Black
O.DG	Orthic Dark Gray
O.GL	Orthic Gray Luvisol
BR.GL	Brunisol Gray Luvisol
PZ.GL	Podzolic Gray Luvisol
TY.F	Typic Fibrisol
TY.M	Typic Mesisol
TY.H	Typic Humisol
O.FHP	Orthic Ferro-Humic Podzol
SM.FHP	Sombric Ferro-Humic Podzol
O.HFP	Orthic Humo-Ferric Podzol
DU.HFP	Duric Humo-Ferric Podzol
SM.HFP	Sombric Humo-Ferric Podzol
O.R	Orthic Regosol
GL.R	Gleyed Regosol
CU.R	Cumilic Regosol
R.HG	Rego Humic Gleysol

Because minor variations in texture and soil wetness sometimes affect soil development, some soils have been designated a dominant and subdominant (in brackets) soil taxonomy.

*From CSSC, 1978.

14. Credits

Mapping supervised by: J. Belsham, British Columbia Department of Agriculture, Soils Branch, Kelowna, British Columbia.

Mapping correlated by: R. Kowall, Surveys and Resource Mapping Branch, Terrestrial Studies Section, Ministry of Environment, Kelowna, British Columbia.

Date of field mapping: 1971-1973

Photography used for mapping:- Date: 1970
Scale: 1:70 000

Map drafted by: Surveys and Resource Mapping Branch, British Columbia Ministry of Environment, Kelowna, British Columbia. 1978.

Base maps provided by: MAPS-B.C., Surveys and Resource Mapping Branch, British Columbia Ministry of Environment, Victoria, British Columbia.

3. Sources of Further Information

- CSSC, Canada Soil Survey Committee, Subcommittee on Soil Classification. 1978. The Canadian System of Soil Classification. Canada Department of Agriculture Publication 1646. Supply and Services, Ottawa, Ontario. 164 pp.
- (A) Dawson, A. B., and C. C. Kelly. 1964. Soil Survey of the Eagle River Valley, British Columbia. Interim Report with maps. British Columbia Department of Agriculture, Kelowna, British Columbia. 71 pp.
- (B) Dawson, A. B., and C. C. Kelly. 1965. Soil Survey of the Shuswap Lakes Area, British Columbia. Interim Report with maps. British Columbia Department of Agriculture, Kelowna, British Columbia. 232 pp.
- ELUC, Environment and Land Use Committee Secretariat. 1976. Terrain Classification System. Ministry of Environment. Victoria, British Columbia. 54 pp.
- (C) Gough, N. (in preparation). Soils of the Bonaparte River - Canim Lake Map Area. Report No. 24, British Columbia Soil Survey. British Columbia Ministry of Agriculture, Kelowna, British Columbia. (maps included).
- (D) Green, A. J., and T. M. Lord. 1979. Soils of the Princeton Area of British Columbia. Report No. 14, British Columbia Soil Survey. Agriculture Canada, Research Branch. 134 pp. (maps included).
- Holland, S. S. 1964. Landforms of British Columbia, A Physiographic Outline. Bulletin No. 48, British Columbia Department of Mines and Petroleum Resources. 138 pp. (maps included).
- Jones, A. G. 1959. Geology, Vernon Map Area, British Columbia. Memoir 296. Canada Department of Mines and Technical Surveys, Geological Survey of Canada. 186 pp.
- (E) Jungen, J. R. 1980. Soil Resources of the Nelson Map Area (82F). RAB Bulletin 20. Report No. 28, British Columbia Soil Survey. British Columbia Ministry of Environment, Resource Analysis Branch, Kelowna, British Columbia. 217 pp. (maps included).
- Kowall, R. C. 1979a. Soil Maps of the Barton Hill Provincial Forest. British Columbia Ministry of Environment, Terrestrial Studies Branch, Kelowna, British Columbia.
- Kowall, R. C. 1979b. Terrain Analysis For Settlement Suitability, Electoral Areas A, B and C of the Regional District of North Okanagan. RAB Working Report. British Columbia Ministry of Environment, Resource Analysis Branch, Kelowna, British Columbia. 23 pp.
- (F) Kowall, R. C. 1980. Soil and Terrain of the Seymour Arm Area. RAB Bulletin 19. Report No. 16, British Columbia Soil Survey. British Columbia Ministry of Environment, Resource Analysis Branch, Kelowna, British Columbia. 115 pp. (maps included).
- Kowall, R. C. 1981a. Soil Map of the Graystokes Area. Map 2 of 15 in Graystokes Resource Folio. British Columbia Ministry of Environment, Terrestrial Studies Branch, Kelowna, British Columbia.
- Kowall, R. C. 1981b. Soil Maps of the Coldstream Creek Watershed Area. Maps 1 and 2 in the Coldstream Creek Watershed Folio. British Columbia Ministry of Environment, Terrestrial Studies Branch, Kelowna, British Columbia.
- (G) Lord, T. M., and A. J. Green. 1974. Soils of the Tulameen Area of British Columbia. Report No. 13, British Columbia Soil Survey. Canada Department of Agriculture, Research Branch. 163 pp. (maps included).
- Mitchell, W. R., and R. E. Green. 1981. Identification and Interpretation of Ecosystems of the Western Kamloops Forest Region. Land Management Handbook No. 2, Volumes I and II. British Columbia Ministry of Forests. Victoria, British Columbia.
- RAB, Resource Analysis Branch. 1980. Describing Ecosystems in the Field. Edited by M. Walmsley, G. Utzig, T. Vold, D. Moon and J. van Barneveld. RAB Technical Paper 2. Land Management Report No. 7. British Columbia Ministry of Environment, Resource Analysis Branch and British Columbia Ministry of Forests, Research Branch, Victoria, British Columbia. 226 pp.
- (H) Sprout, P. N., and C. C. Kelly. 1960. Soil Survey of the North Okanagan Valley. Interim Report with maps. British Columbia Department of Agriculture, Kelowna, British Columbia. 75 pp.
- (I) Sprout, P. N., and C. C. Kelly. 1964. Soil Survey of the Kettle River Valley. Report No. 9, British Columbia Soil Survey. British Columbia Department of Agriculture, Kelowna, British Columbia and Research Branch, Canada Department of Agriculture. 111 pp. (maps included).
- Utzig, G., D. MacDonald, G. Still, M. Ketcheson, T. Braumandl and A. Warner. 1983. Ecological Classification for the Nelson Forest Region. Third Approximation. British Columbia Ministry of Forests. Victoria, British Columbia. 79 pp.
- (J) Valentine, K. W. G., and A. Schori. 1980. Soils of the Lac La Hache - Clinton Area, British Columbia. Report No. 25, British Columbia Soil Survey. British Columbia Ministry of Environment, Resource Analysis Branch, Kelowna, British Columbia. 221 pp. (maps included).
- (K) Wittneben, U. 1980. Soil Resources of the Lardeau Map Area (82K). RAB Bulletin 15. Report No. 27, British Columbia Soil Survey. British Columbia Ministry of Environment, Resource Analysis Branch, Kelowna, British Columbia. 221 pp. (maps included).
- Wittneben, U. 1983. Detailed Soil Maps of the Okanagan and Similkameen Valleys. British Columbia Ministry of Environment, Surveys and Resource Mapping Branch, Terrestrial Studies Section, Kelowna, British Columbia.
- (L) Young, G. (in preparation). Soils of the Ashcroft Area (92I). Report 26, British Columbia Soil Survey. British Columbia Ministry of Environment, Surveys and Resource Mapping Branch, Terrestrial Studies Section, Kelowna, British Columbia (maps included).

MAPS AVAILABLE FROM: MAPS-B.C., Surveys and Resource Mapping Branch, British Columbia Ministry of Environment, Parliament Buildings, Victoria, British Columbia. V8V 1X5.

15. Soil Map Unit Description

1 of 6

MAP SYMBOL	SOIL NAME (SOURCE) (see Box 1)	BIOGEOCLIMATIC VEGETATION UNITS (see Box 5)	DIFFERENTIATING MAP UNIT CHARACTERISTICS				ACCESSORY MAP UNIT CHARACTERISTICS					
			SOIL PARENT MATERIAL		TERRAIN MATERIALS	SOIL DRAINAGE		ECOLOGICAL MOISTURE REGIME (see Box 10)	RANGE OF SLOPES (see Box 11)	BEDROCK GROUPINGS (see Box 8)	SOIL TAXONOMY (see Box 13)	ELEVATIONAL RANGE (metres)
			TEXTURE (see Box 12)			DOMINANT DRAINAGE (see Box 7)	DOMINANT PERVIOUSNESS (see Box 9)					
			Coarse Fragments	Fine Fraction								
A	Armstrong (B,H)	PPBG:E, IDF:E	moderate	mod. cse. to med.	moraine	good	slow	xeric	steep-mod.	variable	0.BL	335-1220
AA	Allamore (C,F,L)	MS	moderate	med. fine to med.	moraine	medium	slow	mesic	mod.-steep	basic	PZ.GL	1160-1675
AG	Angle	ICH-D	moderate	med. to mod. cse.	colluvium	good	moderate	xeric	steep-mod.	basic	E.EB	335-1435
AH	Ashton (L)	MS	mod. - high	mod. cse. to cse.	moraine (ablation)	good	moderate	mesic	mod.-gentle	basic	E.DYB	1160-1675
AL	Allie (C,F,L)	IDF-W	moderate	medium	moraine	medium	slow	mesic	moderate	basic	BR.GL	975-1100
AM	Armour (C,F)	ESSF-T	moderate	mod. cse.	moraine	medium	moderate	mesic	mod.-steep	acidic	0.FHP	1675-1980
AN	Artisan (C,F,L)	IDF-W	moderate	medium	moraine	medium	slow	mesic	steep-mod.	basic	BR.GL	550-1280
AS	Avis (E,F,K)	ICH	variable	cse. to med.	fluvial (plain)	good	rapid	mesic	gentle-mod.	n/a	0.R	425- 730
AT	Anglemont (F)	ICH-T	moderate	med. to mod. cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	E.EB	335-1555
AU	Argonaut (F)	ICH-W	variable	coarse	fluvial (plain)	good	rapid	xeric	gentle	n/a	0.HFP (0.R.)	530- 550
AY	Alleyne (B,G)	PPBG	mod. - high	mod. cse. to cse.	moraine	good	moderate	mesic	steep-mod.	acidic	E.EB	335-1160
BA	Barge Lake	MS	mod. - high	mod. cse.	colluvium	good	moderate	mesic	mod.-steep	variable	0.DYB (BR.GL)	1160-1675
BAA	Beaton Creek (F,K)	ESSF-W	high - mod.	mod. cse.	colluvium	good	moderate	xeric	steep	acidic	0.HFP	1525-1980
BC	Beatrice (E,K)	ESSF:P-W	high	mod. cse. to cse.	colluvium	good	moderate	xeric	steep	acidic	0.HFP (SM.HFP)	1765-2135
BD	Byrd Creek (C,F)	IDF-W	variable	med. to cse.	fluvial (plain)	good	moderate	mesic	gentle	n/a	0.R	485- 975
BE	Brewster (F)	ICH, ICH-W, ESSF-W, ESSF-T	n/a	n/a	organic	slow	moderate	hydric	gentle	n/a	TY.F	425-1920
BH	Buhl Creek (E,K)	ICH	high - mod.	mod. cse. to cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	0.DYB	670-1555
BJ	Beaverjack (H)	IDF	low	fine to med.	glacio- lacustrine	medium	slow	mesic	mod.-steep	n/a	0.GL	520- 795
BK	Bohan Creek (E,K)	ICH	high - mod.	mod. cse. to med.	colluvium	good	moderate	xeric	steep-mod.	acidic	0.DYB	425-1555
BOA	Bonner (E,F,K)	ESSF-W	high	mod. cse. to med.	colluvium	good	moderate	xeric	steep-very steep	acidic	0.HFP	1525-2135
BTA	Bluejoint (K)	ESSF-W	high	mod. cse.	colluvium	good	moderate	xeric	steep	acidic	0.HFP	1280-1980
BY	Blaylock (F,K)	ICH-W	high - mod.	mod. cse.	colluvium	good	moderate	xeric	steep	acidic	0.HFP	520-1555
CA	Cayenne (E)	ICH-W	moderate	mod. cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	0.HFP	395-1555

6 of 11

Soil Map Unit Description 2 of 6

CA	Cayenne (F)	ICH-W	moderate	mod. cse.	colluvium	good	moder	xeric	steep-mod.	acidic	0.HFP	395-1555
CC	Coppercrown (K)	ESSF-W	high	mod. cse. to cse.	colluvium	good	moder	xeric	steep	acidic	0.HFP (SM.HFP)	1525-2135
CD	Copeland (F)	AT-T	moderate	mod. cse.	colluvium	good	moder	xeric	steep	acidic	SM.HFP	1980-2225
CG	Cavanaugh (J,L)	PPBG	moderate	mod. cse. to cse.	colluvium	good	moder	xeric	steep	basic	E.EB	335-1160
CL	Candle (F)	AT-T	moderate	mod. cse.	colluvium	good	moder	xeric	steep-mod.	acidic	0.HFP	1980-2195
CM	Chasm (C,J,L)	IDF	moderate	mod. cse. to cse.	colluvium	good	moder	xeric	steep-mod.	basic	E.EB	335-1465
CN	Connally (B,G)	IDF	moderate	mod. cse. to med.	moraine	medium	moder	mesic	steep-mod.	acidic	0.GL (0.EB)	520-1465
CNA	Cinnemousen (F)	ESSF-T	moderate	mod. csg.	colluvium	good	moder	xeric	steep-mod.	acidic	0.HFP	1280-1980
CP	Cooper (E,K)	ICH	high - mod	mod. cse. to cse.	colluvium	good	moder	xeric	steep-mod.	acidic	0.DVB	395-1555
CPA	Clapperton (L)	IDF	high	mod. cse. to cse.	colluvium	good	moder e	xeric	steep-mod.	acidic	0.DVB	395-1465
CR	Cairn Mtn. (L)	MS	mod. - high	mod. cse. to med.	colluvium	good	moder e	mesic	mod.-steep	basic	0.DVB	1160-1675
CS	Columns	MS, ESSF-D	moderate	medium	colluvium	good	moderate	xeric	mod.-steep	basic	0.DVB	1160-1890
CSA	Mount Cond (E,F,K)	ICH, ICH-W, ESSF-W, AT-W	high - mod.	med. to mod. cse.	colluvium (avalanche)	medium	moderate	mesic	steep	acidic	SM.HFP	610-2620
CX	Comaplix (K)	ICH-W	high - mod.	mod. cse. to cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	0.HFP	610-1555
CY	Cherryville (B,H)	IDF-W	moderate	mod. cse. to fine	moraine	medium	slow	mesic	mod.-steep	variable	BR.GL	365-1280
D	Dunleavy (C,F,L)	IDF-W	variable	mod. cse. to cse.	fluvial (fan)	good	moderate	xeric	mod.-steep	n/a	E.EB (0.R)	670-1100
ET	Etches (D,G)	MS, ESSF-D	n/a	n/a	organic	slow	moderate	hydric	gentle	n/a	TV.M	1220-1710
FA	Falkland (B,H)	PPBG	low	mod. cse. mod. cse. to cse.	(fan) fluvial (plain)	medium	moderate	mesic	gentle-mod.	n/a	0.R	485- 945
FB	Frisby (F)	ESSF-P-T, ESSF-P-W	moderate	mod. cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	0.FHP (SM.FHP)	1675-2135
FH	Fly Hills	ESSF-D	moderate	mod. cse. to med.	moraine	medium	moderate	mesic	mod.-steep	acidic	0.HFP	1525-1770
FS	Frances (J,L)	IDF-W, IDF	low	mod. cse.	fluvial	medium	moderate	mesic	mod.-gentle	n/a	CU.R	700-1100
FT	Fruitvale (K)	ICH	high	cse. to mod. cse	fluvial (fan)	good	rapid	mesic	moderate	n/a	0.DVB (0.R)	425- 975
FX	Ferroux Mtn	MS	variable	coarse	fluvial (fan)	good	rapid	mesic	moderate	n/a	0.DVB (0.R)	1160-1370
G	Glenemma (B,H)	PPBG	variable	coarse	glacio- fluvial	good	rapid	xeric	mod.-steep	n/a	E.EB	335-1035

Soi Map Unit Description 3 of 6

S	Glennema (B,H)	PPBG	variable	coarse	glacio- fluvial	good	rapid	xeric	mod.-steep	n/a	E.EB	335-1035
GH	Grizzly Hill (B,H)	ICH-D	moderate	med. to mod. cse.	moraine	medium	moderate	mesic	mod.-steep	basic	O.EB	335-1435
GL	Gulch (B)	PPBG:E	variable	mod. cse. to med.	fluvial (fan)	good	moderate	xeric	gentle-mod.	n/a	O.DG	670- 730
GN	Gisborne (L)	IDF, IDF-W	variable	mod. cse. to cse.	glacio- fluvial	good	rapid	xeric	mod.-steep	n/a	E.EB	455-1465
GO	Gregoire (I)	PPBG	moderate	mod. cse.	moraine	medium	moderate	mesic	steep-mod.	basic	E.EB (O.GL)	335-1160
GR	Grant (D,G)	MS	moderate	med. to mod. cse.	moraine	medium	moderate	mesic	mod.-steep	basic	BR.GL (O.DYB)	1160-1675
GW	Guenn (L)	PPBG:E, IDF:E	variable	mod. cse. to cse.	glacio- fluvial	good	rapid	xeric	moderate	n/a	O.BL	945-1190
GY	Glossey (L)	PPBG	variable	mod. cse. to cse.	glacio- fluvial	good	rapid	xeric	mod.-gentle	n/a	E.EB	425- 855
H	Hahn (B,H)	PPBG:E	variable	coarse	glacio- fluvial	good	rapid	xeric	mod.-gentle	n/a	O.BL	395- 885
HA	Hallamore (C,F,L)	MS	moderate	mod. cse. to med.	colluvium	medium	moderate	xeric	steep	basic	O.HFP	1160-1675
HE	Hennig (D,G)	MS	variable	coarse	glacio- fluvial	good	rapid	xeric	moderate	n/a	O.DYB	1160-1675
HL	Hellroar r	IDF	mod. - high	mod. cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	O.EB	425-1465
HN	Hobson (B,F)	ICH-T	moderate	mod. cse. to mod. fine	moraine	medium	slow	mesic	steep-mod.	basic	BR.GL	335-1555
HN	Hooligan (C,F,L)	IDF-W	moderate	mod. cse. to med.	colluvium	good	moderate	xeric	steep - very steep	basic	E.DYB	550-1280

Soil Map Unit Description 4 of 6

MAP SYMBOL	SOIL NAME (SOURCE) (see Box 1)	BIOGEOCLIMATIC VEGETATION UNITS (see Box 5)	DIFFERENTIATING MAP UNIT CHARACTERISTICS						ACCESSORY MAP UNIT CHARACTERISTICS			
			SOIL PARENT MATERIAL		TERRAIN MATERIALS	SOIL DRAINAGE		ECOLOGICAL MOISTURE REGIME (see Box 10)	RANGE OF SLOPES (see Box 11)	BEDROCK GROUPINGS (see Box 8)	SOIL TAXONOMY (see Box 13)	ELEVATIONAL RANGE (metres)
			TEXTURE (see Box 12)			DOMINANT DRAINAGE (see Box 7)	DOMINANT PERVIOUSNESS (see Box 9)					
			Coarse Fragments	Fine Fraction								
HR	Hester	PPBG	moderate	mod. cse.	colluvium	good	moderate	xeric	steep - very steep	basic	0.EB	335-1160
HS	Hobbs (B,H)	IDF-W	mod. - high	med. to cse.	colluvium	good	moderate	xeric	steep	basic	0.DYB	365-1280
HU	Hupel (A,B,F,H)	ICH-T	variable	coarse	fluvial (fan)	good	rapid	mesic	moderate	n/a	0.DYB (0.R)	335-1220
HW	Hanakwa (F)	ICH-W	moderate	mod. cse.	colluvium	good	moderate	xeric	steep	acidic	0.HFP	550-765
I	Ice (Glaciers)	AT-W	n/a	n/a	ice	n/a	n/a	n/a	very steep - steep	n/a	n/a	1615-2895
K	Kalamalka (H)	PPBG:E	variable	med. to mod. cse.	fluvial (fan)	medium	moderate	xeric	mod.-gentle	n/a	0.BL	610- 700
KF	Keefer (F)	ESSF-T	moderate	mod. cse. to med.	moraine	medium	slow	mesic	mod.-steep	acidic	0.HFP	1280-1980
KG	Keogan	IDF	mod. - high	mod. cse.	colluvium	good	moderate	xeric	steep-mod.	basic	E.EB	520-1465
KK	Kwikoit (F)	ICH-T	variable	coarse	glacio-fluvial	good	rapid	xeric	steep-mod.	n/a	0.DYB	335-610
KO	Kaslo (E,K)	ICH	high	cse. to mod. cse.	glacio-fluvial	good	rapid	xeric	mod.-steep	n/a	0.DYB	425-1555
KV	Kirbyville (F)	ICH-W	variable	cse. to mod. cse.	fluvial (fan)	good	moderate	xeric	moderate	n/a	0.HFP	455-1220
KX	Kuskanax (F,K)	ICH-W	high	cse. to mod. cse.	glacio-fluvial	good	rapid	xeric	mod.-steep	n/a	0.HFP	425-1555
LH	Larch Hill (B)	ICH-D	high	coarse	glacio-fluvial	good	rapid	xeric	steep-mod.	n/a	0.EB	395-1065
LT	Lost (C,F)	ESSF-T	moderate	mod. cse.	colluvium	good	moderate	mesic	steep-mod.	acidic	0.FHP	1525-2100
LW	Lawless (D,G)	ESSF-D	mod.-high	mod. cse. to cse.	moraine	medium	moderate	mesic	mod.-steep	variable	0.HFP	1515-2045
LY	Lumby (B,H)	PPBG, IDF	variable	mod. cse. to cse.	fluvial (fan)	good	moderate	mesic	mod.-gentle	n/a	0.EB	335-1160
MC	Mabel (B,H)	ICH-W	variable	cse. to mod.	fluvial (plain)	good	moderate	mesic	mod.-gentle	n/a	0.R(GL.R)	425- 885
MG	McKnight (L)	PPBG:E	low	med. to mod. fine	moraine	good	slow	xeric	steep-mod.	basic	0.B	425- 925
ML	McLaren (L)	IDF	low-mod.	med. to mod. fine	moraine	medium	slow	mesic	mod.-steep	basic	0.GL	335-1465
MN	Minnie (L)	IDF	high	mod. cse. to cse.	moraine	medium	slow	mesic	mod.-steep	acidic	0.GL	395-1465
MO	Monashee (H)	ICH-T	variable	coarse	fluvial (plain)	good	rapid	mesic	gentle	n/a	0.R	395-1190
MS	Mossey (L)	IDF:E	low	med. to mod. fine	moraine	good	slow	xeric	moderate	basic	0.BL	915- 975
MT	Messiter (F)	ICH-T	moderate	mod. cse. to med.	moraine	medium	slow	mesic	mod.-steep	acidic	BR.GL	335-1555

11 to 6

MT	Messiter (F)	ICH-T	moderate	mod. cse. to med.	moraine	medium	slow	mesic	mod.-steep	acidic	BR.GL	335-1555
N	Nisconlith (B,H)	PPBG	low - mod.	mod. to med. fine	fluvial (plain)	medium	slow	mesic	gentle-mod	n/a	GL.R(R.HG)	485- 640
NP	Nickel Plate (D)	PPBG:E, IDF:E	mod. - high	mod. to mod. cse.	colluvium	good	moderate	xeric	steep-mod.	variable	O.BL	335-1340
RF	Rockface	PPRG	moderate	mod. cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	O.EB	335-1160
RFA	Ratchford (F)	ESSF-W	moderate	mod. cse.	colluvium	good	moderate	mesic	steep	acidic	O.HFP	1280-1980
RL	Rail (C,F,J,L)	PPBG, IDF, IDF-W	n/a	n/a	organic	slow	moderate	hydric	gentle	n/a	TY.M	580-1310
RLA	Rossland (E,K)	AT-W	high	mod. cse.	colluvium	good	rapid	xeric	steep	variable	SM.HFP	1980-2895
RO	Rock Outcrop	ALL UNITS	n/a	n/a	bedrock	n/a	n/a	xeric	steep	variable	n/a	335-2895
SAA	Snookwa (F)	ESSF-T	moderate	mod. cse.	moraine	medium	moderate	mesic	mod.-steep	acidic	O.HFP	1280-1980
SAB	Saunier (I)	IDF	variable	coarse	fluvial (plain)	good	rapid	mesic	gentle-mod	n/a	O.R (O.EB)	790- 975
SB	Stubbs (F,K)	ICH	moderate	mod. cse.	moraine	medium	slow	mesic	steep	acidic	O.HFP	640-1035
SF	Sauff (B,F,H)	ICH-T	variable	coarse	glacio-fluvial	good	rapid	xeric	steep-mod.	n/a	O.DYB	395-1065
SH	Shuswap (A,B,H)	ICH-T	variable	coarse	glacio-fluvial	good	rapid	xeric	mod.-steep	n/a	O.DYB	335-1555
SHA	Swehew (E,K)	ESSF-W	moderate	mod. cse.	moraine	medium	moderate	mesic	mod.-steep	acidic	O.HFP	1280-1920
SK	Sitkum (A)	ICH-W	high	coarse	fluvial (fan)	rapid	good	mesic	moderate	n/a	O.HFP (O.R)	455-1250
SL	Sentinel (E,K)	ICH	med. - high	moderate	moraine	medium	moderate	mesic	steep-mod.	acidic	O.DYB	425-1555
SN	Slocan (E,K)	ICH	moderate	mod. cse.	moraine	medium	moderate	mesic	steep-mod.	acidic	O.DYB	425-1555
SR	Stobart (K)	ICH-W	high	mod.cse. to cse.	moraine	medium	moderate	mesic	steep-mod.	acidic	O.HFP	610-1555
SS	Skaist (D,G)	ESSF-D	mod. - high	mod. cse.	colluvium	good	moderate	mesic	mod.-steep	variable	O.HFP	1525-2045
SSA	Soards (F)	AT-W	mod. - high	mod. cse.	colluvium	good	moderate	xeric	steep	acidic	SM.HFP	1980-2165
ST	Saint Leon (K)	ESSF-W	moderate	medium	moraine	medium	moderate	mesic	mod.-steep	basic	O.HFP	1280-1980
STA	Sunset (F)	ICH-W	moderate	mod. cse.	moraine	medium	slow	mesic	steep-mod.	acidic	O.HFP	395-1555
SW	Sawtooth (F)	ESSF:P-T	moderate	mod. to mod. cse.	colluvium	good	moderate	xeric	steep	basic	SM.HFP (O.HFP)	1830-1980
T	Tappen (A,B,H)	PPRG, IDF, ICH-D, ICH-T	low	mod. to mod. fine	glacio-lacustrine	medium	slow	mesic	mod.-gentle	n/a	O.GL	335- 885
TB	Thimble	MS, ESSF-D	variable	coarse	fluvial (plain)	good	rapid	mesic	mod.-gentle	n/a	O.R (O.DYB)	1160-1585
TE	Tullee (L)	PPBG:E, IDF:E	low	mod. to mod. fine	moraine	good	slow	xeric	moderate	basic	O.BL	550-1370
TM	Timber (C,J,L)	PPBG	moderate	mod. to mod. fine	moraine	medium	slow	mesic	mod.-steep	basic	E.EB	335-1160
TMA	Tumtum (F)	ICH-W	moderate	mod. cse.	moraine	medium	slow	mesic	steep	acidic	DU.HFP	550- 760

Soil Map Unit Description 6 of 6

THA	Tumtum (F)	ICH-W	moderate	mod. cse.	moraine	medium	slow	mesic	steep	acidic	DUI.HFP	550- 760
TR	Trehearne (D,G)	IDF	variable	coarse	glacio-fluvial	good	rapid	xeric	mod.-steep	n/a	E.EB	550-1465
TT	Trident (F)	ESSF-W	moderate	mod. cse.	moraine	medium	slow	mesic	steep	acidic	O.HFP	1280-1980
TU	Truda Mtn. (L)	MS	moderate	med. to mod. fine	moraine	medium	slow	mesic	mod.-steep	basic	BR. GL	1160-1675
TW	Tunkwa (C,J,L)	IDF	moderate	med. to mod. fine	moraine	medium	slow	mesic	mod.-steep	basic	O.GL (O.EB)	335-1465
VN	Yermelin (F)	ICH-T	moderate	mod. cse.	colluvium	good	moderate	xeric	steep-mod.	acidic	E. DVB	335-1555
VH	White (A,B)	ICH-D	mod. - high	mod. cse. to cse.	fluvial (fan)	good	rapid	mesic	moderate	n/a	O.EB (O.R)	335-1280
WP	Wap (A)	ICH-W	variable	coarse	glacio-fluvial	good	rapid	xeric	mod.-steep	n/a	O.HFP	365-1555
WY	Waby (B,H)	ICH-T, ICH-D	n/a	n/a	organic	slow	moderate	hydric	gentle	n/a	TV.H	395-1525
YR	Ymir (E,K)	AT-W	high	coarse	colluvium (talus)	good	rapid	xeric	steep - very steep	variable	O.R	1830-2620
YW	Yeoward (F)	ESSF-T	moderate	mod. cse. to med.	colluvium	medium	moderate	xeric	mod.-steep	basic	O.HFP	1280-1980