



BIOPHYSICAL HABITAT UNITS FOR THE MOSLEY CREEK STUDY AREA

1. Explanatory Notes
 The Mosley Creek study area occurs in the west coastal interior of British Columbia, west of Vancouver. The study was conducted on a large area (approx. 100 km²) to provide an ecological framework for enhancing and restoring riparian fringe and forest cover. This study area is used to assess habitat quality.

This map depicts Ecogeographic, Biogeoclimatic Subzones and Biophysical Habitat Units.

Ecogeographic and Biogeoclimatic Subzones are large-scale environmental units that are defined by the presence of certain plant communities and wildlife populations (Demaree, 1990). Biogeoclimatic Subzones are areas recognized by a discrete climatic, edaphic or soil regime. Ecogeographic and Biogeoclimatic Subzones are defined by the spatial arrangement of geographically distinct ecogeographic units (i.e., vegetation types). These are mapped in the Carbon Forest Program by the Ministry of Forests (1988).

Biophysical Habitat Units are ecological units that are relatively homogeneous with respect to their spatial arrangement, topography, climate, animal life and functional levels of vegetation (Demaree et al. 1990).

The units are mapped at a scale of 1:50,000 for parts of National Topographic Series (NTS) 52N105 and 52N111. Detailed descriptions of the habitat units are provided in Lise and Howat (1990).

2. Map Boundaries

- Study Area
- Biogeoclimatic Unit
- Ecogeographic Unit
- Successional Stage

3. Examples of Map Unit Labels

a. Ecogeographic and Biogeoclimatic Unit
 ECR
 IDFS

b. Biophysical Habitat Unit
 DCM5
 DCM4
 DCM3
 DCM2

c. Composite Unit
 60% of unit
 40% of unit

4. Composite Units
 Composite units are assemblies of two or three types of Habitat Units as so distributed that they cannot be designated as Ecogeographic, Biogeoclimatic, or Successional Stages above the scale provided in this map.

5. Ecogeographic

Map Symbol	Zone	Subzone	Description
ECR	Continental	East	This Ecogeographic Unit includes the Coast Range (ECR) and is characterized by having a warmer and drier area than the Interior Coast Range Ecogeographic.
IDFS	Interior	Douglas-fir	This zone is characterized by having a mean annual temperature of 5.0°C and a mean annual precipitation of 2000 mm.

6. Biogeoclimatic Units

Map Symbol	Zone	Subzone	Description
ECR	Continental	Douglas-fir	This zone is characterized by having a mean annual temperature of 5.0°C and a mean annual precipitation of 2000 mm.
IDFS	Interior	Douglas-fir	This zone is characterized by having a mean annual temperature of 5.0°C and a mean annual precipitation of 2000 mm.
MS	Montane	Mountain	This zone is characterized by having a mean annual temperature of 5.0°C and a mean annual precipitation of 2000 mm.

7. Habitat Units and Successional Stages
 The following table lists the names and descriptions of the habitat units and successional stages identified in the study area.

Map Symbol	Habitat Unit / Successional Stage	Description
AF	Alpine tundra - common horizontal sward	
AF1	Alpine tundra - snow patches	
ES	Forest edge - mixed conifer	
DF	Douglas-fir - white-pine mixed forest	
DC	Douglas-fir - Douglas-fir mixed forest	
DC1	Douglas-fir - Douglas-fir mixed forest, mature	
DC2	Douglas-fir - Douglas-fir mixed forest, mature	
DC3	Douglas-fir - Douglas-fir mixed forest, mature	
DC4	Douglas-fir - Douglas-fir mixed forest, mature	
DC5	Douglas-fir - Douglas-fir mixed forest, mature	
DC6	Douglas-fir - Douglas-fir mixed forest, mature	
DC7	Douglas-fir - Douglas-fir mixed forest, mature	
DC8	Douglas-fir - Douglas-fir mixed forest, mature	
DC9	Douglas-fir - Douglas-fir mixed forest, mature	
DC10	Douglas-fir - Douglas-fir mixed forest, mature	
DC11	Douglas-fir - Douglas-fir mixed forest, mature	
DC12	Douglas-fir - Douglas-fir mixed forest, mature	
DC13	Douglas-fir - Douglas-fir mixed forest, mature	
DC14	Douglas-fir - Douglas-fir mixed forest, mature	
DC15	Douglas-fir - Douglas-fir mixed forest, mature	
DC16	Douglas-fir - Douglas-fir mixed forest, mature	
DC17	Douglas-fir - Douglas-fir mixed forest, mature	
DC18	Douglas-fir - Douglas-fir mixed forest, mature	
DC19	Douglas-fir - Douglas-fir mixed forest, mature	
DC20	Douglas-fir - Douglas-fir mixed forest, mature	
DC21	Douglas-fir - Douglas-fir mixed forest, mature	
DC22	Douglas-fir - Douglas-fir mixed forest, mature	
DC23	Douglas-fir - Douglas-fir mixed forest, mature	
DC24	Douglas-fir - Douglas-fir mixed forest, mature	
DC25	Douglas-fir - Douglas-fir mixed forest, mature	
DC26	Douglas-fir - Douglas-fir mixed forest, mature	
DC27	Douglas-fir - Douglas-fir mixed forest, mature	
DC28	Douglas-fir - Douglas-fir mixed forest, mature	
DC29	Douglas-fir - Douglas-fir mixed forest, mature	
DC30	Douglas-fir - Douglas-fir mixed forest, mature	
DC31	Douglas-fir - Douglas-fir mixed forest, mature	
DC32	Douglas-fir - Douglas-fir mixed forest, mature	
DC33	Douglas-fir - Douglas-fir mixed forest, mature	
DC34	Douglas-fir - Douglas-fir mixed forest, mature	
DC35	Douglas-fir - Douglas-fir mixed forest, mature	
DC36	Douglas-fir - Douglas-fir mixed forest, mature	
DC37	Douglas-fir - Douglas-fir mixed forest, mature	
DC38	Douglas-fir - Douglas-fir mixed forest, mature	
DC39	Douglas-fir - Douglas-fir mixed forest, mature	
DC40	Douglas-fir - Douglas-fir mixed forest, mature	
DC41	Douglas-fir - Douglas-fir mixed forest, mature	
DC42	Douglas-fir - Douglas-fir mixed forest, mature	
DC43	Douglas-fir - Douglas-fir mixed forest, mature	
DC44	Douglas-fir - Douglas-fir mixed forest, mature	
DC45	Douglas-fir - Douglas-fir mixed forest, mature	
DC46	Douglas-fir - Douglas-fir mixed forest, mature	
DC47	Douglas-fir - Douglas-fir mixed forest, mature	
DC48	Douglas-fir - Douglas-fir mixed forest, mature	
DC49	Douglas-fir - Douglas-fir mixed forest, mature	
DC50	Douglas-fir - Douglas-fir mixed forest, mature	
DC51	Douglas-fir - Douglas-fir mixed forest, mature	
DC52	Douglas-fir - Douglas-fir mixed forest, mature	
DC53	Douglas-fir - Douglas-fir mixed forest, mature	
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DC59	Douglas-fir - Douglas-fir mixed forest, mature	
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DC77	Douglas-fir - Douglas-fir mixed forest, mature	
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DC81	Douglas-fir - Douglas-fir mixed forest, mature	
DC82	Douglas-fir - Douglas-fir mixed forest, mature	
DC83	Douglas-fir - Douglas-fir mixed forest, mature	
DC84	Douglas-fir - Douglas-fir mixed forest, mature	
DC85	Douglas-fir - Douglas-fir mixed forest, mature	
DC86	Douglas-fir - Douglas-fir mixed forest, mature	
DC87	Douglas-fir - Douglas-fir mixed forest, mature	
DC88	Douglas-fir - Douglas-fir mixed forest, mature	
DC89	Douglas-fir - Douglas-fir mixed forest, mature	
DC90	Douglas-fir - Douglas-fir mixed forest, mature	
DC91	Douglas-fir - Douglas-fir mixed forest, mature	
DC92	Douglas-fir - Douglas-fir mixed forest, mature	
DC93	Douglas-fir - Douglas-fir mixed forest, mature	
DC94	Douglas-fir - Douglas-fir mixed forest, mature	
DC95	Douglas-fir - Douglas-fir mixed forest, mature	
DC96	Douglas-fir - Douglas-fir mixed forest, mature	
DC97	Douglas-fir - Douglas-fir mixed forest, mature	
DC98	Douglas-fir - Douglas-fir mixed forest, mature	
DC99	Douglas-fir - Douglas-fir mixed forest, mature	
DC100	Douglas-fir - Douglas-fir mixed forest, mature	

8. Successional Stages
 Successional stages are only mapped for forested Habitat Units. The following stages are recognized:
 1. Young Forest (less than 20 years)
 2. Young Forest (20 - 40 years)
 3. Young Forest (40 - 60 years)
 4. Mature Forest (60 - 140 years)
 5. Old Growth Forest (over 140 years)

9. Sources of Information
 a. British Columbia Ministry of Forests
 b. Forest Cover Maps
 c. British Columbia Ministry of Environment, Wildlife Branch
 d. Habitat Survey - soil and vegetation (1987) M 1603
 e. British Columbia Ministry of Environment, Survey and Resource Mapping Branch
 f. 1:50,000 scale topographic maps (1970)

10. References
 Cooper, R. and A. Yee. 1982. Identification and interpretation of ecosystems of the Carbon Forest Region. Technical Report, Province of British Columbia, Ministry of Forests, Resource Section, Victoria, B.C.

Demaree, D.A. 1986. Ecosystems of British Columbia. Wildlife Branch, Ministry of Environment, Victoria, British Columbia, 1:50,000 scale map.

Demaree, D.A., E.C. Lee, M.A. Froyer and A.P. Howat. 1990. Biophysical Habitat Mapping of the Mosley Creek Study Area. British Columbia Ministry of Environment, Wildlife Branch, Victoria, B.C.

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Ministry of Forests. 1988. Biogeoclimatic Units of the Carbon Forest Region. 1:50,000 scale map. British Columbia Ministry of Forests, Resource Section, Victoria, B.C.

11. Credits
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12. Observation and Sample Plot Distribution

This map consists of portions of 92N.066, 92N.076 and 92N.077