

PEM PROJECT OUTPUT FILE – LILLOOET TSA PEM

A. PROJECT

Project Name:	<p>2001-2004 Lillooet TSA PEM – Year 3 of 3 BAPID# 4021</p> <p>2001: BEC's: IDfxm, IDfdk2, IDfdk3, MSdc2, MSxv2, ESSFdv1, ESSFxc4, ESSFv2, ESSFv2a,</p> <p>2002: BEC's: BGxh2, BGxh3, BGw2, PPxh2, IDfxh2, IDfxh3, IDfxw, IDfdk1/1a, IDfdk5, MSxk3, MSdc1, ESSFxc3, ESSFdv1. Parkland and Alpine for the north half of the TSA</p> <p>2003: BEC's: CWHms1, IDfdk2, IDfww2, MSdm2, MSxk, MSmw, ESSFdc2, ESSFmw, Parkland: ESSF dcu, dcp, dvu, dvu1, dvu2, dvp2, mwu, xcu, xcu3, xcu4, xv, xv2, xvp2 Alpine: AT dc, dv, mw, xc3, xc4, xv, ICE</p>
Input File:	<p>PEM_4021_INP.RTF</p> <p>Lillooet District Bio-terrain mapping (Silvatech Consulting) District forest cover mapping. (MSRM) Biogeoclimatic data in put into PEM (MOF regional) TRIM 2 data in put into PEM (MSRM)</p>
Non-standard Inventory File:	<p>PEM_4021_NON.RTF</p> <p>Lillooet District classified satellite imagery. (Silvatech) Bedrock Type input into PEM (Silvatech)</p>
Localized Biogeoclimatic File:	<p>PEM_4021_BGC.RTF</p> <p>The Biogeoclimatic linework revision down to the 1:20,000 scale was completed in three phases for this PEM project. The first revision was provided by Dennis Lloyd, Regional Ecologist for the Central Interior Region, in 2001 showing estimates of the new BEC subzones and their locations. The second revision for the north half of the District (excluding the parkland and alpine areas and two large blocks in the west and the north) was provided in December, 2002. The third and final revision was provided in May, 2003 by D. Lloyd.</p> <p>The rule sets for the derivation of BEC linework were not done according to the Methodology for Large Scale Biogeoclimatic Mapping (M. Eng, 1999). Instead, these BEC lines were hand-drawn by D. Lloyd on 1:50,000 TRIM maps with assistance from Forest Cover overlays. These digitized lines were then projected to the 1:20,000 scale for use in the PEM project.</p>
Project File:	<p>PEM_4021_PRO.RTF : Contains information regarding delivered files.</p>
Knowledge Base File:	<p>Pem_4021_knb.xls – Excel XP for easier viewing Pem_4021_kb01.rtf – each KB is separated out as an rtf file and numbered 01 to 30 Lillooet_EcoNGen_Files.access – KB's, SiteSeries, Order and Configuration tables for EcoNGen processing. Note that the Site Series table must be re-done for each LU because of the variations in the BEC unit labels.</p>
Structural Stage File:	<p>Pem_4021_sts.rtf – Defines the parameters for determining the structural stage class.</p>

User Defined File:	Pem_4021_usr01.rtf – Legend of all attribute codes in the Matrix database and KB's; Pem_4021_usr02.rtf – defines which site series in each BEC subzone were mapped; Pem_4021_usr03.rtf – defines each site series by name, code, edatophic condition and SIBEC value
Input Database:	The following contain files contain information for each input data source. PEM_4021_INP.csv Lillooet District Bio-terrain mapping (Silvatech) Lillooet District forest cover mapping. (MSRM) TRIM Information (MSRM) Biogeoclimatic data in put into PEM (Silvatech)
Non-standard Inventory Database:	The following contain files contain information for non-standard input data source. PEM_4021_NON.csv Lillooet District classified satellite imagery. (Silvatech) Bedrock Type used in PEM (Silvatech)
Localized Biogeoclimatic Database:	PEM_4021_BGC.csv Lillooet District Biogeoclimatic data. Coverage was received May, 2003 as a final product.
Project Database:	PEM_4021_MTA.csv: Contains information regarding delivered files
Ecosystem Polygon Database:	PEM_4021_ECP.csv TEM table standard is not applicable: PEM polygon coverage has been supplied with mapsheet, PEM Tag and polygon site series classification. Please refer to GIS methodology and knowledge base classification documentation for explanation on ecosystem model development. This coverage is linked to data tables by a unique label of Mapsheet, PEM tag number and landscape unit for each polygon. Landscapeunit needed to be added to the unique tag because Mapsheet, PEM_TAG was not unique because analysis was completed by landscape unit Mtx(aoi).dbf has been supplied. This is the resultant database from GIS analysis – there is one matrix database for each of the 22 Landscape Units in this Lillooet TSA. Matrix(aoi).mdb is the summarized GIS resultant data from matrix summary.
Structural Stage Database:	PEM_4021_STS.csv Structural stage data was generated from forest cover age of PEM polygon. Field TSS 1 Shrub (1 to 20 years) 2 Pole/sapling (20 to 40 years) 3 Young (40 to 80 years) 4 Mature (80 to 240 years) 5 Old (240+ years)
Sample Points Database:	Ground point databases (dbf files) are attached to each of the following Shapefiles (ArcView 8.2): [Note that digitizing the ground points was optional in the PEM standards, as such only the 2 nd and 3 rd year ground points were not digitized. The first year ground points are recorded in Excel tables by their PEM tags only.]

	Pem_4021_eciMU.shp Pem_4021_eciKW.shp Pem_4021_eciCC.shp Pem_4021_eciCS.shp Pem_4021_eciTC.shp	Pem_4021_eciHE.shp Pem_4021_eciHW.shp Pem_4021_eciDS.shp Pem_4021_eciPV.shp Pem_4021_eciWB.shp
Sample Points Database (Excel):	Lillooet PEM Final Results.xls – all ground points and corresponding PEM labels along with accuracy scoring.	
User Defined Database:	Not applicable	
Localized Biogeoclimatic Spatial Coverage:	PEM_4021_bgc.e00 Lillooet Forest district Biogeoclimatic data set, created by Dennis Lloyd.	
Polygon Spatial Coverage:	PEM_4021_ECPS.e00 South Portion of District PEM_4021_ECPN.e00 North portion of District PEM polygon coverage is provided as a north and south seamless file. This coverage is linked to data tables by a unique label of Mapsheet, PEM tag number and landscape unit for each polygon. Landscapeunit needed to be added to the unique tag because Mapsheet, PEM_TAG was not unique because analysis was completed by landscape unit. District deliverables had to be split into two areas due to size limitation on the software. Linking table Information can be found in .DAT INFO table with coverage and summarised .MDB. During the creation of the PEM, we had to divide the project area the existing 22 Landscape Units due to computer software limitations and to decrease processing times. The matrix databases (also provided here) remain divided into these Landscape Units, however the polygon coverages were merged in order to comply with the PEM Standards.	
	AOI = Landscape unit completed for analysis PV = Pavillion FB = French Bar WB= Watson Bar YK = Yalakom CN = Carpenter Lake North CS = Carpenter Lake South GU = Gun SL = Spruce Lake BE = Bridge East BW = Bridge West	HE = Hurley East HW = Hurley West DN = Duffy North DS = Duffy South KW = Kwoiek SK = Siska MU = Murray Creek TC = Texas Creek CC = Connell Creek LC = Lost Creek SE = Stein East SW = Stein West

Structural Stage Spatial Coverage:	PEM_4021_STSS.e00 South Portion of District PEM_4021_STSN.e00 North Portion of District Structural Polygon coverage is provided as two coverages. Each coverage is linked to an output matrixsum(aoi).MDB file that contains a unique label of mapsheet, PEM Tag and landscape unit for each polygon. Structural stage data table Information can be found in the .DAT table ARC/INFO coverage. Structural stage was derived from forest cover projected age of PEM polygon.	
Sample Point Spatial Coverage:	Ground points are digitized in the following Shapefiles (ArcView 8.2): [Note that these are for years 2 and 3 only. Year 1 was not digitized since it was an optional task in the PEM standards.]	
	Pem_4021_eciMU.shp Pem_4021_eciKW.shp Pem_4021_eciCC.shp Pem_4021_eciCS.shp Pem_4021_eciTC.shp	Pem_4021_eciHE.shp Pem_4021_eciHW.shp Pem_4021_eciDS.shp Pem_4021_eciPV.shp Pem_4021_eciWB.shp
Geographic Location:	Lillooet TSA lies between Clinton to the north and Lytton to the south, primarily on the west of the Fraser River above Lillooet and on both sides of the River south of Lillooet. The TSA lies at the confluence of three major climatic/geographic zones: the Chilcotin Plateau (cool and dry), the coastal mountains (warm and moist), and the interior dry belt (hot and dry). As a result, there are an exceptionally high number of BEC subzones in this small geographic area (see the list above).	
Consultant/ Department:	GIS Analyst: Graham MacGregor (Silvatech Consulting Ltd.) Silvatech Consulting Ltd. P.O Box 1030 Salmon Arm B.C. Canada V1E 4P2 Phone: (250)832-7360 Fax: 832-1939 PEM Ecologist: Colleen Jones (Shamaya Consulting) 5577 Silver Star Road, Vernon, BC V1B 3P7 phone/fax: (250)542-3028	
TRIM Version:	TRIM2 was used for the complete Lillooet district	
Ecosystem Survey Intensity Level:	Internal Accuracy Assessment Level 4 – 100% of the sample polygons were assessed by ground checks, either traversed the polygon or mapped simple PEM entities at large scale. Refer to: Lillooet PEM Final Results.xls	
Date Recorded:	GIS data and PEM knowledge tables generated in March 2004	
Recorder Name:	Graham MacGregor: GIS analysis and data creation Colleen Jones: Knowledge Table Creation	
Version of Package Used:	Standards for Predictive Ecosystem Mapping (PEM) Digital Data capture. Version 1.0 Standards for Predictive Ecosystem Mapping (Inventory Standard). Version 1.0 Protocol for Quality Assurance and Accuracy Assessment of Ecosystem Maps, 2000	
Version of EcoNGen Used:	EcoNGen 1.0c	
PEM Supervisor:	Colleen Jones, RPBio, Shamaya Consulting and Grant Sime, RPF Silvatech Consulting Ltd.	

GIS Supervisor:	Graham MacGregor, Silvatech, Consulting Ltd.
Accuracy Assessment:	Internal accuracy assessment was completed on each knowledge table using ground sample points collected during the summers of 2001, 02 and 03.
Image Year:	Not Applicable
Image Scale:	Not Applicable
Image Type:	Not Applicable