

Invermere TSA Predictive Ecosystem Mapping Project File Report

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1.0 Introduction

The purpose of the Invermere TSA PEM Project File is to report the results of the Final Report for Level 4 Map Accuracy Assessment of The Invermere TSA PEM Project (Timberline Forest Inventory Consultants Ltd., 2003). This report is also contained in the Invermere TSA PEM Project Report, Appendix XI (Ketcheson et al., 2004). It is strongly recommended that the methods used to generate these numbers be reviewed and understood before any interpretation is made based on them.

The Accuracy Assessment of the Invermere TSA PEM was done in accordance with the *Protocol for Quality Assurance and Accuracy Assessment of Ecosystem Maps* (Meidinger, 2003). Del Meidinger also provided a great deal of direction as to the intent and application of the protocol (Meidinger, 2003).

2.0 Results

Table 1. Reporting of the Accuracy Assessment of the Invermere PEM

BGC Variant	ESSFdk1	ICHmk1	IDFdm2	MSdk	PPdh2	THLB
Min. Polygon Area (ha)	.02	.19	.06	.06	49.13	.022
Max Polygon Area (ha)	903.86	441.14	410.25	1111.03	2188.01	2188.01
Median Polygon Area (ha)	2.4	8.0	5.15	2.69	744.2	4.03
Dominant Correct	43.75%	33.33	58.93	45.22	50	46.622
Dominant Correct with Alt. Calls	46.88%	40.00%	64.29%	50.43%	50	52.03
% Overlap	46.72%	26.40%	51.41%	47.87%	47.50%	47.11%
%Overlap with Alt. Calls	50.67%	31.91%	57.28%	53.41%	55.00%	52.67%
Area Weighted – Dominant Correct	7.51%	76.27%	85.28%	78.40%	96.45%	74.25%
Area Weighted – Dominant Correct With Alt Calls	9.32%	84.59%	89.89%	79.16%	96.45%	76.96%
Area Weighted – % Overlap	58.79%	43.97%	71.73%	72.31%	74.28%	69.82%
Area Weighted - % Overlap with Alternate Calls	66.68%	45.76%	76.73%	76.49%	89.80%	78.16%
Transect Length Weighted – Dominant Correct	42.94%	57.34%	69.97%	45.85%	85.5%	52.66%
Transect Length Weighted – Dominant Correct with Alternate Calls	43.56%	70.99%	75.84%	51.22%	85.5%	60.02%
Transect Length Weighted - % Overlap	47.63%	39.92%	62.76%	54.05%	68.90%	55.05%
Transect Length Weighted - % Overlap with Alternate Calls	54.66%	45.66%	69.75%	60.71%	82.14%	62.56%

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3.0 References

Ketcheson, M.V., T. Dool, L. Bradley, G. Kernaghan, K. Lessard, V. Lipinski and R.A MacMillan. 2004. Invermere TSA Predictive Ecosystem Mapping (PEM) Final Project Report. JMJ Holdings Inc. Nelson, BC.

Meidinger, Del. 2003. *Protocol for Quality Assurance and Accuracy Assessment of Ecosystem Maps*. BC Ministry of Forests – Research Branch, Resource Inventory Committee, Victoria, BC.

Meidinger, D. 2003. *Personal Communication*.

Timberline Forest Inventory Consultants Ltd. 2003. Final report for level 4 map accuracy assessment of the Invermere Timber Supply Area Predictive Ecosystem Mapping project. Prepared for Slocan Forest Products Ltd., Radium Division, British Columbia