

July, 2001

Notice Re: Updating of Some Tables in the Timber Supply Analysis
Information Package

Following completion of the Timber Supply Analysis, there was a request by the Ministry of Forests for Mission to update some of the input data in the Information Package. This was done and resulted in relatively small changes mainly relating to area netdowns.

As a result, the various following tables were reproduced and should be used rather than the corresponding tables which occur within the following original Information Package document:

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Table 6.4: UREPs Outside the TFL Boundary
Table 6.5: Non-Forest
Table 6.6: Non-Commercial
Table 6.7: Inoperable Land Base
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Table 6.2 – Timber Harvesting Land Base – Base Case

Classification	Productive Area (ha)	Netdown Area (ha)
Total Land base	10,564.1	10,564.1
Non Forest	686.3	686.3
Total Productive Forest	9,877.7	9,877.7
Reductions to Total Productive Forest:		
Non-commercial	30.4	30.4
Inoperable	180.0	176.7
Non-merchantable	214.3	134.7
Environmentally Sensitive Areas	2,301.4	763.3
Deciduous leading - not utilized	806.6	739.9
Roads and Trails	180.6	171.6
Riparian Areas	243.5	173.9
Specific Geographic Areas	156.1	137.9
Wildlife Tree Patches		192.3
Total Reductions to Productive Forest		2,520.7
Total Reductions to Land base		3207.0
Total Reduced Land base		7,356.9
Current Timber Harvesting Land base		7,356.9
Future Reductions:		
Proposed Roads	23.2	23.2
Future Roads		98.0
Total Long-Term Land base		7,235.7

Table 6.4: UREPs Outside the TFL Boundary

Criteria	Gross Area (ha)
Morgan Lake	90.0
Sayres Lake	200.1
Total	290.1

Table 6.5: Non-Forest

Non Forest Descriptor	Netdown Area (ha)
Alpine	60.9
Alpine Forest	147.3
Gravel Bar	1.8
Gravel Pit	28.7
Lake	101.5
Non-Productive	11.4
Non-Productive Brush	64.1
Non-Typed Area	0.1
River	10.0
Rock	34.1
Urban	189.3
Wetland	36.7
Total	686.3

Table 6.6: Non-Commercial

Criteria	Productive Area (ha)	Netdown Area (ha)
Non-commercial brush (Type Id 5)	30.4	30.4
Total	30.4	30.4

Table 6.7: Inoperable Land Base

Criteria	Productive Area (ha)	Netdown Area (ha)
Inoperable	180.0	176.7
Total	180.0	176.7

Table 6.8: Reductions for Non-merchantable

Species	Productive Area (ha)	Net Area Removed (ha)
Balsam	50.4	43.5
Hemlock	163.9	91.2
Total	214.3	134.7

Table 6.9a: ESA2 Area Reductions Due to Overlapping Land Base Reductions

ESA Type	ESA Description	Productive Area (ha)	Net Area Remaining in THLB (ha)	Actual Reduction (%)
Ep2	Regeneration	35.8	24.7	31.0
Es2	Unstable soil	92.2	66.6	27.8
Er2	Recreation	74.3	49.1	33.9
Total	All	202.3	140.4	30.6

Table 6.9b: Area Reductions for Environmentally Sensitive Areas

ESA Type	ESA Description	Productive Area (ha)	% reduction	Net Area Reduction (ha)
Ea	High avalanche hazard	7.1	100	4.1
Ep	High regeneration concerns	36.1	100	7.3
V	High soil stability concerns	889.6	80	602.4
IV	Sensitive to disturbance	89.5	30	26.9
IVR	Sensitive to road building	1279.1	10	122.6
Total		2,301.4		763.3

Table 6.10: Area Reductions for Deciduous Leading Stands

Leading Species (Inv. Type Grp)	Productive Area (ha)	% Netdown	Net Area (ha)
Ac - Cottonwood (35,36)	6.9	100	6.9
Dr - Red Alder (37,38)	700.1	100	644.7
Mb - Bigleaf Maple (39)	62.5	100	51.2
E - Paper Birch (40)	37.1	100	37.1
Total	806.6		739.9

Table 6.11: Reductions for Existing Roads and Trails

Analysis Unit	Road Type	Degraded width (m)	Length (km)	Productive Area (ha)	Net Reduction area (ha)
All	Highway	20	18.4	36.9	29.1
	Secondary	20	3.3	6.9	6.9
	Logging	12	101.1	121.0	121.0
	Trails	3	53.1	15.8	14.6
Total	All		175.9	180.6	171.6

Table 6.12.1b: RRZs and RMZs – Streams

Riparian Class	RMZ Width (m)	RRZ Width (m)	Total Reserved Width (m)	Total Reserve ⁽¹⁾ Area (ha)	Total Net Reserve Area (ha)
S1	20	50	60	24.3	9.5
S2	20	30	40	100.8	64.4
S3	20	20	25	97.7	79.6
S4	30	0	0 ²	0	0
S5	30	0	0 ²	0	0
S6	20	0	0	0	0
Total				222.8	153.5

Table 6.12.2: RRZs and RMZs– Lakes

Riparian Class	RMZ Width (m)	RRZ Width (m)	Total Reserved Width (m)	Productive Reserve ⁽¹⁾ Area (ha)	Total Net Reserve Area (ha)
L1	0	10	10	2.2	2.2
L2	20	10	15	0.8	0.8
L3	30	0	7.5	0	0
L4	30	0	7.5	0.7	0.7
LNC	0	0	0	0.7	0.6
Total				4.4	4.3

¹ In cases of overlapping areas, reserve zones take precedence over management areas. Higher order classes take precedence where RMZs overlap or RRZs overlap.

^a Even though only 13.3 ha of total area is in small LNC lakes (compared to 197 ha in L1), the small areas of these lakes translates into a very high total perimeter value.

Table 6.12.3: RRZs and RMZs – Wetlands

Riparian Class	RMZ Width (m)	RRZ Width (m)	Total Reserved Width	Total Reserve ⁽¹⁾ Area (ha)	Total Net Reserve Area (ha)
W2	20	10	15	3.8	3.7
W3	30	0	7.5	1.9	1.9
W4	30	0	7.5	1.0	1.0
W5	40	10	20	9.6	9.6
Total				16.3	16.2

In cases of overlapping areas, reserve zones take precedence over management areas. Higher order classes take precedence where RMZs overlap or RRZs overlap.

Table 6.13: Specific Geographic Area Reductions

Type	Productive Area (ha)	Net Area (ha)
Cannell Watershed	156.1	137.9

Table 6.14a: Reductions for Proposed Roads and Trails

Road Type	Degraded width (m)	Length (km)	Productive Area (ha)	Net Reduction Area (ha)
Proposed	12	19.2	23.2	23.2
Total	12	19.2	23.2	23.2

Table 6.14b: Reductions for Future Roads

Type	Total road area (ha)	Net Area (ha)	Roaded area/accessed area (%)
Existing and proposed network	194.8	5276.8 ^a	3.7
Future Roads	98.0	2057.0 ^b	4.8

^a within 400 m access buffer

^b outside 400 m access buffer

Table 6.16: NSR

Type	Gross Area (ha)	Net Area (ha)
NSR - Backlog	0	0
NSR - Current	56.8	49.9
Total	56.8	49.9

Table 6.17a: Percentage Area Reduction Calculations for WTPs

BEC Variant	Productive Area (ha)	Net Area (ha)	Net logged (ha)	% of net that is logged ¹	% of prod that is net ²	Net ³ > 250 m	Percent net250 /net ⁴	WTP % Gross ⁵	WTP (ha)
CWH dm	6616.9	5284.1	1545.0	29.2	79.9	2088	39.5	7.8	162.4
CWH vm 1	1929.2	1634.3	340.7	20.8	84.7	338	20.6	7.8	26.3
CWH vm 2	704.5	399.3	300.1	75.2	56.7	60	15.0	5.5	3.3
MH mm	423.3	208.4	152.9	73.3	49.2	10	4.8	3.0	0.3
Total	9673.9	7526.1	2338.7			2496			192.3

¹ Percent of the harvestable area which has been logged (<40 years)

² Percent of the productive area which is available for harvest

³ The net harvestable area which is > 250 m from reserve or partial reserve areas

⁴ Percent of the net area > 250 m/ net area

⁵ Gross percentage of a cutblock required as WTP from Table 20(a) in the *Biodiversity Guidebook*

Table 6.17b: Additional WTP Reductions for WTPs

BEC Variant	Productive Area (ha)	Net Area (ha)	WTP Required Total (ha)	WTP Designated (ha)	WTP Additional (ha)	WTP Additional %
CWH dm	6616.9	5284.1	162.4	31.1	131.3	2.50
CWH vm 1	1929.2	1634.3	26.3	14.6	11.7	0.72
CWH vm 2	704.5	399.3	3.3	0.0	3.3	0.82
MH mm	423.3	208.4	0.3	0.0	0.3	0.16
Total	9673.9	7526.1	192.3	45.7	146.6	

Table 6.18: Potential Future Area Additions due to OTTs

Type	Productive Area (ha)	Net Area (ha)
OTTs	157.5	152.4

DISTRICT OF MISSION MISSION MUNICIPAL FOREST



TIMBER SUPPLY ANALYSIS INFORMATION PACKAGE -TREE FARM LICENCE #26 -

**Submitted to the Timber Supply Branch,
B.C. Ministry of Forests**

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Version 2.0

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1.0 INTRODUCTION

The District of Mission - Mission Municipal Forest - is currently preparing Management Plan #8 for Tree Farm Licence #26 (TFL 26). As part of the management plan process, Mission is responsible for preparing a timber supply analysis showing the long-term, strategic timber supply for the land base. This information package documents the procedures, assumptions, data and model to be used in the analysis. Hugh Hamilton Limited (HHL) has been engaged to prepare the information package and conduct the timber supply analysis on behalf of Mission. This package follows the format of the *Provincial Guide for the Submission of Timber Supply Information Packages for Tree Farm Licences, Version 3*.

The purpose of this information package is to:

- provide an opportunity for communication between Mission and the Ministry of Forests (MoF) and the Ministry of Environment, Lands and Parks (MoELP) prior to undertaking the timber supply analysis;
- provide an opportunity for the MoF and MoELP to review the data, procedures and assumptions that will be used in the preparation of the timber supply analysis;
- create a dynamic document which, over time, will ensure that all relevant information is accounted for appropriately in the timber supply analysis; and
- increase the efficiency of the timber supply analysis process by reducing the risk of having analyses discarded due to inappropriate content.

Base data for the timber supply analysis will come from the 1988-1989 re-inventory. In 1991, approximately 1200 ha of land was added to the TFL, through the reversion of Timber Berths back to the Crown and subsequently granted to TFL 26. The inventory of this 1200 ha was completed in 1992.

Other resource emphasis information will be included from Mission's GIS database. Appropriate yield tables will be generated with Variable Density Yield Prediction (VDYP) model for natural growth stands and the Table Interpolation Program for Stand Yields (TIPSY) for managed stands. The TFL was updated for depletions to January 1, 1998 and has been projected for growth to January 1, 2000.

All data summarized in this package used spatial GIS data and forest inventory polygon (FIP) labels, allowing all **FSOS** analyses to be spatially and temporally referenced. **FSOS** (Forest Simulation Optimization System) will be used to determine the achievable harvest level for TFL 26 over a 200-year planning horizon.

Upon acceptance by the Timber Supply Branch, the assumptions used in this information package will be used to guide the development of the timber supply analysis and the twenty-year harvest plan. During the analysis, sensitivity analyses and management options will be tested to determine the influence of various factors on timber flow levels.

All analyses and the final proposed option will be submitted to the Chief Forester for determination of the allowable annual cut (AAC).

2.0 PROCESS

The timber supply analysis is directed through the Statement of Management Objectives, Options and Procedures (SMOOP) for Management Plan 8, which was initially submitted to the Ministry on December 26, 1998 and accepted on May 7, 1999.

This information package will be included as an Appendix in the Timber Supply Analysis report.

The background information which guided the assumptions and processes employed in this information package include the following:

- *Achieving Acceptable Biodiversity Timber Impacts*
- *Forest Practices Code*
 - *Biodiversity Guidebook*
 - *Community Watershed Guidebook*
 - *Riparian Guidebook*
- *Fraser TSA – Timber Supply Review, 1998*
- *Incorporating Biodiversity and Landscape Units in the Timber Supply Review*
- *Site Index Adjustments for Old-Growth Stands Based on Veteran Trees (Working Paper 36, 1998)*
- *Site Index Adjustments for Old-Growth Stands Based on Paired Plots (Working Paper 37, 1998)*
- *Site Index Conversion Equations for Mixed Species Stands- MoF Research Branch, 1998*
- *Timber Supply Review Base Case Modelling Assumptions for Biodiversity and Landscape Units*
- *Tree Farm Licence Information Package Guidelines*
- *TFL #26 Statement of Management Objectives, Options and Procedures, 1999*

2.1 Growth and Yield

The growth and yield data will be generated using the following models:

- VDYP, Version 6.4, for unmanaged stands; and
- TIPSYP, Version 2.1e, for existing and future managed stands.

2.2 Data Preparation and Missing Data

Spatial information was used to generate all of the netdown values through a series of overlays. A master database with the complete resultant polygon list, each with unique identification numbers, was created.

The data reported is only as reliable as the databases which were used to generate it. Though the data is believed to be accurate, there were instances where coverages had to be manipulated in order to approximate a best fit. Other coverages were clipped and an exact match was not always possible. Though values are likely a very close approximation of the actual landscape, caution should always be used when viewing geographic data results.

Though accurate netdown procedures were applied, HHL may modify any data, netdown order or calculation in the future if it will enhance the accuracy of this report. Any modifications to the dataset will be documented in subsequent versions of the information package.

3.0 ANALYSIS OPTIONS AND SENSITIVITY ANALYSIS

3.1 Analysis Options

The analysis options which will be modeled using *FSOS* are listed in Table 3.1. These scenario options will help assess the implications of various management decisions. The unique ability of *FSOS*, and access to different analytical techniques within the same tool will provide insight into the effects of different analysis approaches and management philosophies on timber and non-timber resources.

Table 3.1: Analysis Options

Option	Description
Total THLB Potential	Determines the maximum biological potential of the THLB within the preferred flow parameters. Barriers to timber flow are removed.
Base Case Scenario	Applies current biodiversity, adjacency and seral strategies to determine an initial volume flow. Will be shown as a base case twenty-year plan.
Proposed Scenario	Developed based on understanding of sensitivity analyses and base case and will form the twenty-year plan presented by Mission.

3.2 Sensitivity Analyses

Sensitivity analyses are used to assess issues which have some degree of uncertainty associated with them. For the base case scenario, sensitivity analyses have been grouped into the following categories:

Land base alternatives

- Growth and yield
- Forest cover and patch management
- Management options

Table 3.2: Sensitivity Analyses

Category	Level of Sensitivity
Land base alterations	Adjust land base +/- 10%
	Increase land base based on Old Temporary Tenure additions not yet reverted
	Re-introduce low site and non-merchantable stands
Growth and yield	Apply OGSi adjustments
	Adjust SI +/-5 m
	Apply SI conversion equations for regeneration of managed stands
	Adjust existing stand volumes +/- 10%
	Adjust regenerated stand volumes +/-10%
	Adjust minimum harvest ages +/- 10 years
	Apply 12% and 18% for OAF 1, and 3% and 7% for OAF 2 in managed stands
	Add 2% site degradation to existing and future managed stands
	Alter green-up periods +/-5 years
	Adjust genetic gain to 12% for Fd and 6% for all other species
Forest cover and patch management	Change young stands from VDYP to TIPSy curves following Mission's verification process
	Apply an iterative patch/seral management strategy with the <i>FSOS</i> optimization model
	Apply old growth targets by BEC variant
	Apply Community Watershed requirements to Cannell Lake Watershed
Management options	Visual quality objectives +/-5%
	Apply <i>FSOS</i> optimization modeling and result based management strategies
	Harvest flow alternatives - uneven flow and alternative flows
	Vary rate of retention in riparian zones based on field experience.
	Apply Mission Municipal Forest Landscape Reserve Plan
	Apply full biodiversity; i.e., assume parks etc. do not contribute to biodiversity
	Apply a low emphasis biodiversity strategy without 1/3 draw down

A simulation modeling approach will be used in the base case scenario and most of the sensitivity analyses, as this best reflects Mission's current management strategy. *FSOS* optimization runs will be completed with the base case assumptions, any patch sensitivities and with the proposed management option.

4.0 MODELS

The following software will be used in the preparation of the timber supply and information package for TFL 26:

- *FSOS* time-step simulation model and *FSOS* forest estate optimization model in conjunction with the *FORUM* analysis approach;
- MoF Variable Density Yield Program (VDYP);
- MoF Table Interpolation Program for Stand Yields for Microsoft Windows (WinTIPSY).

4.1 Landscape Design Model - *FSOS*

Model Name: *FSOS*

Model Developer: Guoliang Liu

Model Development: HHL and UBC

Model Type: Landscape Design Model

Description:

FORUM (Forest Optimization and Resource Utilization Management) planning approach was developed by HHL to conduct resource analysis. *FORUM* combines the power of advanced computer modeling techniques and GIS tools with expert professional experience. At the center of *FORUM* is a landscape optimization model called *FSOS* (Forest Simulation Optimization System). The model uses C++ programming language and can be run with both Windows '95 and Windows NT operating systems. The model interfaces directly with Microsoft Access for data management. The Ministry of Forests has reviewed the model and found that it projects reasonable results when compared with FSSIM.

FSOS uses dynamic optimization to schedule harvest units based on 1) patch and seral objectives defined by non-timber (e.g. old-growth, biodiversity, visuals, habitat, watershed, etc.) resource values and 2) timber management objectives (e.g. even flow, volume levels, opening size distribution, species quotas). Harvest levels and approximate operational cutblock shape and size over the planning horizon is an output of the model. Modeling of strict adjacency and seral constraints is accomplished using simulation modeling. The data structure is identical for both optimization and simulation models, which prevents extensive data loading procedures when switching between approaches.

FSOS uses the multiple resultant polygons created by GIS overlay as the basic model unit, allowing great flexibility in creating a variety of potential harvest unit configurations by amalgamating these resultant polygons. Amalgamation of the harvest units through time creates early seral openings and mature and old growth patches consistent with planned patch management strategies as may be defined by higher level plans. Managing for specific patch size distributions within each seral class is also inherent within the model framework and is an effective way to meet long-term biodiversity objectives.

High weightings can be applied to relatively important resource objectives or objectives which are difficult to achieve. The objective function (evaluation equation) provides the means to evaluate the relative "success" between differing solutions. For each iteration, the model calculates a "penalty" based on the deviation of a given solution from the target values. Optimal solutions achieve targets quickly for highly-weighted parameters in order to minimize the total "penalty" over the planning horizon. With optimization, "constraints" can be violated. As all resource values are tracked throughout the planning horizon, where and when this occurs is part of the model output.

The initial inventory data represents the gross land base, which includes both operable and inoperable areas and the contributing and non-contributing timber harvesting land base. This is required as inoperable and other reserve areas contribute to the achievement of non-timber objectives. From GIS overlay, the land base is divided into resultant polygons, each with a unique set of attributes. Treatments are applied to each polygon based on these attributes. Treatments can be defined by analysis unit, forest type, forest age, silvicultural treatment, user allocation, site index, non-timber resource objectives or any other parameter.

FSOS uses individual stand ages to project the current age structure of stands in the analysis area. As stands age, they move into and out of age classes established as a basis for meeting target objectives. For example, age classes may be established as ≤ 40 years, 41-120 years, 121-250 years, and > 250 years.

Generally, **FSOS** runs utilize 5-year periods, as the output is intended to be operationally applicable and reflect 5-year management plan objectives, but 1, 10 or 20 year periods are easily assigned. The middle of the period (year 3 for 5-year periods) is used for reporting.

The planning horizon length can vary as required. **FSOS** can produce spatially and temporally explicit plans over 20 years or for multiple rotations. A unique feature of **FSOS** is its ability to integrate strategic, tactical and operational planning phases into one process. Analysis runs include harvest timing and location for each period, as well as long-term, sustainable harvest levels.

Harvest rules that are used in **FSOS** are:

- minimum stand age before a stand can be harvested;
- maximum stand age, at which the stand is scheduled for cutting within a certain number of years (i.e. 10);
- green-up period required before adjacent patches can be harvested; this is not between openings but between patches. Patch size in early seral can reflect desired cutblock size distributions. Patch size distribution will form part of Mission's planned management strategy.

A range of priorities can also be applied to include the following:

- stands at risk from fire, disease or insects;
- species preferences to meet mill requirements;
- opening size distribution;
- even volume flow; and
- minimizing transportation costs.

All possible regeneration alternatives can be incorporated into the model. Complex harvest systems (i.e. partial cutting) and silvicultural treatments are incorporated by adjusting growth curves or harvesting percentages of the block at specified intervals. **FSOS** can also account for re-entry delays. **FSOS** can apply multiple regeneration assumptions by randomly following the identified percentages.

The road area is non-contributing to forest cover. Road area will only be returned to the timber harvesting land base if the road is scheduled to be permanently rehabilitated.

The reporting functions of **FSOS** are extensive. The data for each period is easily accessible for any analysis unit, zone, polygon, landscape unit, etc. and gives an overview of the forest state at any point in time. Species compositions, age structure, patch distribution, harvest scheduling, and many other variables are tracked and reported by period. Reporting functions are highly effective for the direct comparison of differing sensitivity analysis scenarios. **FSOS** is linked directly to the powerful ArcView environment for the easy production of high-quality map production.

Updates to the land base can be applied by two methods. Changes to applied netdowns occur in the database framework by reapplying netdown percentages. Changes to layer boundaries or additions or subtractions from the land base require the data be altered in the G.I.S. environment.

Cover targets are usually applied by age as a surrogate for height. All cover targets can be achieved by using patch and age class distribution indicators. Age class distribution targets can be set as minimums, maximums, or desired levels. For example, wildlife habitat cover requirements may be achieved by having 70% of the management zone greater than 100 years of age.

Some other capabilities of **FSOS** include:

- negative ages;
- multiple constraints (guidelines) by unit, zone or group;
- yearly age distribution;
- volume Operational Adjustment Factors (OAFs) and land OAFs;
- spatial and temporal referencing of neighbouring polygons;
- multi-species stands;
- no maximum planning horizon;

- opening size distribution;
- flow management;
- landscape metrics options; and
- economic indicators.

5.0 FOREST INVENTORY

All spatial information was received in IGDS (Microstation) format and translated into ARC/INFO. All data is controlled to the North American Datum (NAD) 83 base. The previous re-inventory for TFL 26 updated forest cover spatial and non-spatial attributes to 1988. The forest cover inventory has been updated since the re-inventory for depletions to January 1, 1998 and for growth to January 1, 2000. Annual projections are completed using VDYP. The spatial and attribute data are stored in both the FC1 and FIP file formats as per the provincial inventory standard database. The spatial inventory data is currently managed through ARC/INFO, which maintains the spatial relationships within the forest inventory as well as the other resource inventory information.

The focus of this information package was to use spatial analysis wherever possible. In the GIS database, riparian features and existing and proposed road networks were buffered to provide for specific area reductions as opposed to broad percentage netdowns.

The adjacency file will be set for a tolerance of 17 m. This means that the maximum distance between two polygons must be 17 m or less for the two polygons to be considered adjacent. Polygon aggregation into harvest units and patches is affected by this distance. Road and trail line features within the TFL were buffered to between 3 and 20 m in width. Generating polygon adjacency at 17 m will prevent logging roads (15 m wide) and trails (3 m wide) from being a barrier for adjacency but will prevent adjacencies from occurring across secondary and highway (20 m wide) classifications.

6.0 DESCRIPTION OF LAND BASE

Determination of the timber harvesting land base (THLB) results from a sequential procedure where stands ineligible for harvest due to poor stand quality, non-merchantable species, or site sensitivity are systematically removed from the land base. This section describes the procedures used in determining the THLB. Although portions of the land base are reserved from harvesting, their attributes still contribute to forest cover and patch objectives.

6.1 Land Summary

The total land base of the TFL is 10,560.4 ha, of which 88% are Crown (Schedule B) and 12% are municipal (Schedule A) lands. Table 6.1 shows a summary of Schedule A lands as per survey data. The total of Schedule A lands - 1,257.8 ha - is different from the 1,268.8 ha presented in Table 6.2. The difference is insignificant (less than 1%) and is likely due to small differences between the survey data and the GIS file.

Table 6.1: Schedule A lands in TFL26

Twp	Section	Legal Subdivision / Plan	Hectares	Total Hectares
Block 1				
15	26	Lots 1-14, Plan 1664	54.8	54.8
Block 2				
15	1	6, Plan 3584 Lots 1-6	45.1	
15,18	1,6	Lot 1 of S1 (Twp 15) and S6 (Twp 18) Plan 22833	12.6	
18	3	NW ¼ and NW ½	80.9	
18	4	W ½ of SW ¼ exc. Pcl. B	13.2	
18	6	9,10,15,16 NE ¼ S6 (TWP 18)	64.8	
18	9	8,10,12,15,16	80.4	
18	10	W ½ of SE ¼ plus N ½	159.7	
18	15	3,4,5	47.8	
18	16	8,10	32.2	
18	19	2,7 plus NE ¼	94.5	
18	20	6,13,15,16 exc. 4 ha of LS 6	80.8	
18	21	10,11,12,14,15,16	95.7	
18	22	3,4,10,14	64.8	
18	27	1,3,4,7,11	80.1	
18	28	1,4,5,7,13,16,14(exc. Pt. In Plan 6162)	111.8	
18	29	8,9	32.4	
18	32	LS 9416	32.4	
18	33	1,2,8	41.9	
18	34	4,5	32.4	1203.0
Total Schedule A				1257.8

6.2 Timber Harvesting Land Base

The netdown procedure is an exclusionary process. Once an area has been removed, it cannot be deducted further along in the process. For this reason, the gross area is often greater than the net area removed, a result of overlapping resource issues.

Table 6.2: Timber Harvesting Land base Determination - Base Case Scenario

Classification	Productive Area (ha)	Netdown Area (ha)	Netdown Area as % of Productive Land Base	Schedule A Lands Net Area (ha)	Schedule B Lands Net Area (ha)
Total Land base	10,560.4	10,560.4		1,268.8	9,291.6
Non Forest	724.5	724.5		81.5	643.2
Total Productive Forest	9,835.9	9,835.9	100 %	1,187.5	8,648.4
Reductions to Total Productive Forest:					
Non-commercial	35.9	35.9		2.6	33.3
Inoperable	196.1	192.6		0	192.6
Non-merchantable	196.2	117.6		0	117.6
Environmentally Sensitive Areas	2,379.1	822.8		59.6	763.2
Deciduous leading - not utilized	815.4	732.0		204.1	527.9
Roads and Trails	159.8	141.5		15.8	125.9
Riparian Areas	226.1	167.8		41.8	126.1
Specific Geographic Areas	155.9	137.4		0	137.4
Wildlife Tree Patches		194.3		26.6	167.7
Total Reductions to Productive Forest		2,542.2	25.8 %	350.5	2,191.7
Total Reductions to Land base		3,266.7	33.2 %	432	2,834.9
Total Reduced Land base		7,293.7^a	74.1 %	837	6,456.7
Current Timber Harvesting Land base		7,293.7		837	6,456.7
Future Reductions:					
Proposed Roads	26.1	23.3		4.4	18.9
Future Roads		99.1		12.8	86.3
Total Long-Term Land base		7,171.3	72.9 %	819.8	6,351.5

^a Includes 52.9 net ha of NSR (Schedule A 9.6 ha; Schedule B 43.3 ha)

6.3 Total Area

The THLB and the total long-term land base are identified in Table 6.2 as a result of the netdown process. The gross area of the TFL is 10,560.4 ha of which the total productive land base is 9,835.9 ha. The current timber harvesting land base is 7,293.7 ha.

The area of the THLB is less than that of MP #7, 8,056.7 ha. Some of the differences between MP#7 netdowns and the netdown for this analysis are as follows:

- addition of terrain stability classifications;
- reserves for riparian zones have been applied; and
- removal of the biodiversity corridor.

6.4 Non-Ownership

The Use, Recreation, Enjoyment of the Public areas (UREP) are not part of the TFL and are not part of the netdowns; however, as they will contribute to biodiversity objectives, a summary of the Morgan Lake and Sayres Lake UREPs is listed in Table 6.4.

Table 6.4: UREPs Outside the TFL Boundary

Criteria	Gross Area (ha)
Morgan Lake	90.1
Sayres Lake	200.1
Total	290.2

6.5 Non-Forest

All areas classed as non-forest are removed from the THLB. The distribution of non-forested area removed from the THLB, by class, is given in Table 6.5.

Table 6.5: Non-Forest

Non Forest Descriptor	Netdown Area (ha)
Alpine	60.3
Alpine Forest	147.4
Gravel Bar	2.1
Gravel Pit	29.9
Lake	111.2
Non-Productive	11.8
Non-Productive Brush	64.4
Non-Typed Area	3.3
River	23.9
Rock	33.1
Urban	203.4
Wetland	33.7
Total	724.5

6.6 Non-commercial Cover

Non-commercial cover is removed from the THLB and is identified in the forest inventory database information as type identity 5. Table 6.6 shows the amount of non-commercial cover in the TFL.

Table 6.6: Non-Commercial

Criteria	Productive Area (ha)	Netdown Area (ha)
Non-commercial brush (Type Id 5)	35.9	35.9
Total	35.9	35.9

6.7 Inoperable Land Base

The inoperable area in TFL 26 is presented in Table 6.7.

Table 6.7: Inoperable Land Base

Criteria	Productive Area (ha)	Netdown Area (ha)
Inoperable	196.1	192.6
Total	196.1	192.6

The operability line from Management Plan #7 was maintained for the current THLB determination. There were no changes required to the previous operability line, which was developed based on local knowledge and experience of operations within the TFL. Existing operations have not gone beyond the operability line, however, some areas are considered for helicopter logging. No areas within the operability line have been proposed for harvesting in the past and subsequently deemed inoperable.

6.8 Non-merchantable

Non-merchantable reductions represent conditions within the TFL that are currently uneconomic for harvest due to poor site conditions. A 100% netdown is applied to all stands greater than 200 years in age occurring on generally poorer sites and having crown closures of less than 50%. These criteria are based on operational experience. Due to the small size of TFL 26, Mission have been able to investigate actual non-merchantable conditions and found that these criteria are reasonable. Table 6.8 provides a summary by leading species of these stands.

Table 6.8: Reductions for Non-merchantable

Species	Productive Area (ha)	Net Area Removed (ha)
Balsam	50.9	46.2
Hemlock	145.3	71.4
Total	196.2	117.6

6.9 Environmentally Sensitive Areas

ESA information was derived from forest cover polygon labels. ESAs are present on the TFL and an area reduction of 100% has been applied to stands in ESA1 P (regeneration

concerns) and A (avalanche concern). No reduction has been applied to ESA2 as much of this area has already been removed due to other exclusions (e.g. low productivity, inoperable, unstable terrain etc.). As some harvesting does occur in ESA2, the remaining ESA2 areas were retained as part of the THLB. The productive and THLB area of each ESA2 category are given in Table 6.9a to confirm adequate reductions occur within these polygons. On average, 30.6% of the area within ESA2 polygons has been removed from the THLB due to other land base issues.

Table 6.9a: ESA2 Area Reductions Due to Overlapping Land Base Reductions

ESA Type	ESA Description	Productive Area (ha)	Net Area Remaining in THLB (ha)	Actual Reduction (%)
Ep2	Regeneration	38.3	12.1	31.6
Es2	Unstable soil	92.9	33.6	36.2
Er2	Recreation	74.8	18.0	24.3
Total	All	208.0	63.7	30.6

During 1997-1999, new terrain stability information was collected for TFL 26. A Terrain Survey Intensity Level C inventory was undertaken producing Class I-V terrain polygons. On the northern portion of the TFL, Class IVR was designated over Class IV. Class IVR represents areas that are potentially sensitive to road building, but not harvesting. Based on more recent work by Golder and Associates, IVR has replaced most of Class IV polygons in the southern portion of the TFL as well.

Class V polygons are areas exhibiting unstable soils with sensitivity to both timber harvesting and road construction and have been assigned an 80% productivity netdown. Class IVR polygons are sensitive to road building but generally not timber harvesting and have a 10% reduction applied. Class IV polygons are sensitive to both road building and timber harvesting and a 30% reduction was applied to them. The reductions are based on operational experience and discussions with the Chilliwack Forest District. Table 6.9b shows all reductions for environmentally sensitive areas.

Table 6.9b: Area Reductions for Environmentally Sensitive Areas

ESA Type	ESA Description	Productive Area (ha)	% reduction	Net Area Reduction (ha)
Ea	High avalanche hazard	7.1	100	4.1
Ep	High regeneration concerns	36.9	100	7.8
V	High soil stability concerns	968.5	80	667.1
IV	Sensitive to disturbance	69.4	30	20.8
IVR	Sensitive to road building	1297.2	10	123
Total		2,379.1		822.8

6.10 Deciduous

All deciduous leading stands were excluded from the THLB. Table 6.10 provides a summary of exclusion by leading species.

Table 6.10: Area Reductions for Deciduous Leading Stands

Leading Species (Inv. Type Grp)	Productive Area (ha)	% Netdown	Net Area (ha)
Ac - Cottonwood (35,36)	5.9	100	5.5
Dr - Red Alder (37,38)	705.9	100	637.1
Mb - Bigleaf Maple (39)	61.8	100	47.6
E - Paper Birch (40)	41.8	100	41.8
Total	815.4		732

Volume reductions to yield curves will account for the minor deciduous component in conifer stands (see Tables 8.5 a and b).

6.11 Roads, Trails and Landing

6.11.1 Classified Roads

TFL 26 currently has no classified roads, trails or landings within the TFL boundaries.

6.11.2 Unclassified Roads

All roads in TFL 26 are considered unclassified, that is, they do not have any spatial features within the FC1/FIP database or they only exist as line features. There are four road classifications within the TFL consisting of highway, secondary, logging and trails. The degraded road widths are shown below in Table 6.11.

Degraded road width buffers were added to the road line features by road class in accordance with the line features in Mission's GIS database. All of the area within the buffers was removed from the THLB and will not contribute to forest cover objectives. Logging roads in the TFL are typically no greater than 12m in width.

Table 6.11: Reductions for Existing Roads and Trails

Analysis Unit	Road Type	Degraded width (m)	Length (km)	Productive Area (ha)	Net Reduction area (ha)
All	Highway	20	18.4	26.2	21.1
	Secondary	20	3.3	6.3	5.4
	Logging	12	101.1	113.6	104.8
	Trails	3	53.1	13.7	10.2
Total	All		175.9	159.8	141.5

Degraded width indicates the width between areas expected to sustain forest growth.

6.11.3 Landings

On TFL 26, landings are normally constructed along or at the end of roads and are accounted for in the degraded widths of logging roads. Therefore, no additional reductions were added for landings in the TFL.

6.12 Riparian Areas

6.12.1 Streams

To extract the riparian reserve zones (RRZ's) and riparian management zones (RMZ's), buffers were created in GIS. The spatial netdown area is a combination of the RRZ and the area of the RMZ equal to the volume reduction required for a given stream class. The RRZ reduction is applied as per the *FPC Riparian Management Area Guidebook*, whereas the RMZ reductions reflect current practice. These combined areas will be excluded from harvest. Forest cover information was retained for these buffer polygons and will contribute to the landscape forest cover objectives. Table 6.12.1a shows the RMZ buffer width by stream class.

Table 6.12.1a: Stream Management Zone Reductions

RIPARIAN CLASS	RMZ WIDTH (M)	RMZ VOLUME REDUCTION (%)	RMZ BUFFER REDUCTION (M)
S1	20	50	10
S2	20	50	10
S3	20	25	5
S4	30	5	0
S5	30	5	0
S6	20	0	0

The total gross and netdown area attributable to streams is listed in Table 6.12.1b by stream class.

Table 6.12.1b: RRZs and RMZs – Streams

Riparian Class	Length of Outer Edge (km)	RMZ Width (m)	RRZ Width (m)	Total Reserved Width (m)	Total Reserve ⁽¹⁾ Area (ha)	Total Net Reserve Area (ha)
S1	5.1	20	50	60	20.3	9.5
S2	20.1	20	30	40	89.8	59.5
S3	36.9	20	20	25	93.1	78.0
S4	15.6	30	0	0 ²	0	0
S5	59.4	30	0	0 ²	0	0
S6	295.0	20	0	0	0	0
Total	432.1				203.2	147.0

¹ In cases of overlapping areas, reserve zones take precedence over management areas. Higher order classes take precedence where RMZs or RRZs overlap.

² The 5% retention in these stream classes is assumed to be met by other volume and area reductions such as WTPs, lowsite, deciduous, etc.

6.12.2 Lakes

Similar to streams, lake reserve zone and management zone coverages were generated in GIS using buffers. Forest cover information within these zones will contribute to landscape cover objectives. The *Riparian Management Area Guidebook* was used to apply the reserve and management buffer widths in the GIS database. A 25% retention was assumed for all lake classes as per the guidebook.

The gross and net lakeshore management areas are given in Table 6.12.2. Any lakes that were unclassified in the database were classified using the *Riparian Management Area Guidebook*. Any lakes that remained unclassified through the process were not buffered.

Table 6.12.2: RRZs and RMZs– Lakes

Riparian Class	Length of Outer Edge (km)	RMZ Width (m)	RRZ Width (m)	Total Reserved Width (m)	Productive Reserve ⁽¹⁾ Area (ha)	Total Net Reserve Area (ha)
L1	16.1	0	10	10	3.6	3.2
L2	1.0	20	10	15	0.7	0.7
L3	1.4	30	0	7.5	0	0
L4	2.5	30	0	7.5	0.9	0.8
LNC	22.3 ^a	0	0	0	0	0
Total	43.3				5.2	4.7

¹ In cases of overlapping areas, reserve zones take precedence over management areas. Higher order classes take precedence where RMZs overlap or RRZs overlap.

^a Even though only 13.3 ha of total area is in small LNC lakes (compared to 197 ha in L1), the small areas of these lakes translates into a very high total perimeter value.

6.12.3 Wetlands

Wetland reserve and management zone coverages were generated in GIS using a buffer function. A 25% retention was assumed for all wetland classes as per the *Riparian Management Area Guidebook*.

The gross and net wetland areas are given in Table 6.12.3. Any wetlands that were unclassified in Mission's GIS were classified using the *Key to Wetland Riparian Classification – Riparian Management Area Guidebook*. Any wetlands that remained unclassified through the process were not buffered.

Table 6.12.3: RRZs and RMZs – Wetlands

Riparian Class	Length of Outer Edge (km)	RMZ Width (m)	RRZ Width (m) ²	Total Reserved Width	Total Reserve ⁽¹⁾ Area (ha)	Total Net Reserve Area (ha)
W2	7.3	20	40	15	3.9	3.6
W3	6.0	30	0	7.5	2.9	2.4
W4	1.6	30	0	7.5	1.2	1.1
W5	7.8	40	10	20	9.7	9
Total	22.7				17.7	16.1

¹ In cases of overlapping areas, reserve zones take precedence over management areas. Higher order classes take precedence where RMZs overlap or RRZs overlap.

6.13 Specific Geographic Area Reductions

Within the TFL, there is a specific geographic area that is removed from the THLB; the Cannell Lake Watershed is a community watershed with a 100% reserve status.

Table 6.13: Specific Geographic Area Reductions

Type	Productive Area (ha)	Net Area (ha)
Cannell Watershed	155.9	137.4

6.14 Proposed and Future Roads

Mission has proposed roads for approximately the next 5 years, as determined in their currently approved forest development plan. The same degraded width that was applied to the existing roads was applied to the proposed roads and the resulting area was directly removed from the land base. All future roads will be logging roads.

Table 6.14a: Reductions for Proposed Roads and Trails

Road Type	Degraded width (m)	Length (km)	Productive Area (ha)	Net Reduction Area (ha)
Proposed	12	19.5	26.1	23.3
Total	12	19.5	26.1	23.3

For estimating future access requirements (beyond proposed roads), a 400 m buffer was applied to the current and proposed road network. This buffer depicts all areas that are currently accessible with current and proposed roads. The area of existing and proposed roads within the buffer was then compared to the total buffer area. Terrain class V and reserve areas were assumed to not require future access. The percentage of roaded area required in the accessed buffer network was extrapolated to the area outside the 400 m access buffer to determine the amount of future roads required to completely access the TFL. Because Mission is committed to rehabilitating all temporary access structures (i.e. roads, trails) required to access new block development, no further future road reductions were applied for temporary roads.

Table 6.14b: Reductions for Future Roads

Type	Total road area (ha)	Net Area (ha)	Roaded area/accessed area (%)
Existing and proposed network	178.2	4686 ^a	3.8
Future Roads	99.1	2608 ^b	3.8

^a within 400 m access buffer

^b outside 400 m access buffer

The bolded 99.1 ha future road value in table 6.14b is calculated based on the “roaded area/accessed area” percentage. This amount of future road area is equivalent to a minimum of 82 km of future roads. Future road reductions will be applied as a percentage area reduction *after* the first rotation.

6.15 Site Degradation

6.15.1 Current Site Degradation

As a result of predominately cable harvesting systems being employed in the Mission TFL, there is very little within-block site degradation following harvest. Consequently, sensitivity analysis will be carried out to test timber supply sensitivity to site degradation reduction of 2.0%.

6.15.2 Future Site Degradation

Again, any future openings created by on-block disturbances are also accounted for by OAF 1 as per agreement with Timber Supply Branch.

6.16 Not-Satisfactorily Restocked Conditions

Mission promptly regenerates all harvested areas within 1 year to minimize the time that productive forest land is left non-vegetated. Therefore, at any point in time, there is only a small amount of area that is in a current NSR state (Table 6.16). This area is comprised mainly of the harvest from the previous calendar year, as most areas are replanted the spring following harvest. There is no backlog NSR in TFL 26. The current NSR will be restocked in the first period of the timber supply analysis. NSR is not a reduction to the land base.

Table 6.16: NSR

Type	Gross Area (ha)	Net Area (ha)
NSR - Backlog	0	0
NSR - Current	56.6	52.9
Total	56.6	52.9

6.17 Wildlife Tree Patches

After all other reductions are completed, additional reductions are required to account for the amount of timber retention required for wildlife tree patches (WTPs). The *Biodiversity Guidebook (Table 20 (a))* provides a methodology for determining the reductions for WTPs based on the current state of the land base. On the landscape, there should be no more than 500 m between patches of forest to facilitate the movement of wildlife.

Mission has designated WTPs in their forest development plan (FDP). The polygons representing these WTPs were spatially incorporated in the data and will be used in the analysis. Mission intends to replace these WTPs in the course of time with other areas. However, in the analysis it is assumed that these WTPs are permanently removed from the land base. This simplifies the analysis without compromising its integrity.

The designated WTPs amount to a 51.1 hectare reduction from the THLB. To determine the additional required WTP areas, the following procedure was used:

- The designated, non-buffered, WTPs (51.1 ha) were deducted from the land base.
- For the remaining land base, using GIS analysis, all areas greater than 250 m from an existing reserve area (defined as $\geq 80\%$ retention) were identified. Terrain class IVR were not considered, as areas requiring WTPs as the 10% reduction in these areas is assumed to account for WTP requirements.
- Table 20(a) from the Biodiversity Guidebook was used to derive WTP deductions.

Table 6.17a summarizes the percentage reductions required for each biogeoclimatic variant in the TFL based on the above procedure.

Table 6.17a: Percentage Area Reduction Calculations for WTPs

BEC Variant	Productive Area (ha)	Net Area (ha)	Net logged (ha)	% of net that is logged ¹	% of prod that is net ²	Net ³ > 250 m	Percent net ² 50 /net ⁴	WTP % Gross ⁵	WTP (ha)
CWH dm	6725.7	5126	1488	29.0	76.2	2088	40.7	7.8	162.9
CWH vm 1	1947.7	1589	309	19.4	81.6	338	21.3	8.2	27.7
CWH vm 2	737.5	373	278	74.6	50.6	60	16.1	5.1	3.1
MH mm	424.7	206	154	74.8	48.4	10	4.7	4.8	0.5
Total	9835.6	7290	2229	30.6	74.2	2496	34.2		194.2

¹ Percent of the harvestable area which has been logged (<40 years)

² Percent of the productive area which is available for harvest

³ The net harvestable area which is > 250 m from reserve or partial reserve areas

⁴ Percent of the net area > 250 m / net area

⁵ Gross percentage of a cutblock required as WTP from Table 20(a) in the *Biodiversity Guidebook*

The total requirement for WTPs is 194.2 ha. As 51.1 ha is already reserved for designated WTPs, a further 143.0 ha will be deducted from the THLB. The reduction will be applied as a percentage to each resultant polygon as per table 6.17b.

Table 6.17b: Additional WTP Reductions for WTPs

BEC Variant	Productive Area (ha)	Net Area (ha)	WTP Required Total (ha)	WTP Designated (ha)	WTP Additional (ha)	WTP Additional %
CWH dm	6725.7	5126	162.9	34.7	128.1	2.50
CWH vm 1	1947.7	1589	27.7	16.3	11.5	0.72
CWH vm 2	737.5	373	3.1	0.0	3.1	0.82
MH mm	424.7	206	0.5	0.1	0.3	0.16
Total	9835.6	7290	194.2	51.1	143.0	

6.18 Future Area Additions

The Old Temporary Tenures (OTT) still held by Interfor are currently not considered part of TFL 26 and the future management of these areas is still uncertain. A sensitivity will look at the addition of these areas to the TFL in the future.

Table 6.18: Potential Future Area Additions due to OTTs

Type	Productive Area (ha)	Net Area (ha)
OTTs	157.5	152.4

7.0 INVENTORY AGGREGATION

Inventory aggregation is a process of simplifying the landscape into similar units. It identifies management zones or resource emphasis areas for the application of unique forest cover and spatial structure requirements, as well as for the application of growth and yield information. The aggregation must recognize both the similarities and differences in forest stand productivity as well as management objectives and prescriptions. This section describes the criteria and rationale behind the aggregation.

7.1 Management Zones

Management zones are geographically referenced areas that require unique management considerations. Areas requiring the same management regime or the same forest cover requirements are grouped into management zones. Table 7.1 lists the management zones for TFL 26 and the rationale used to define these zones.

Multiple resource issues may be present on the same forest area. For example, the watershed management zone may also have areas which are visually sensitive and require an old growth objective. *FSOS* can accommodate multiple overlapping resource layers. This is done by establishing target levels for each layer. The model then schedules harvest units which best meet the target levels for all resource layers as a whole.

Table 7.1: Management Zones

Management Zone	Net Area (ha)	Gross Area (ha)	Criteria used to Delineate Zone	Rationale/Comment
IRM	3,078	4,120	The area of the TFL that is outside the watershed or VQO management zones described.	The timber harvesting land base which is considered to be free of extraneous constraints.
Watershed: Kenworthy Creek	104	277	The boundary of the watershed was delineated by height of land and the area within the boundaries of TFL26.	This is a community watershed supplying drinking water to residents in Mission and siltation must be minimized to maintain water quality.
BEC Variants MHmm CWHvm1 CWHvm2 CWHdm	206 1,589 373 5,126	425 1,948 738 6,725	Defined in the Biodiversity Guidebook, determine the old growth management objectives within these zones.	Old growth objectives will be applied by variant to ensure representation within each unit. A sensitivity will test applying old growth targets by BEC variant.
VQO PR-H PR-M PR-L M	567 1,433 1,678 480	728 1,922 2,300 564	A private consultant was hired by Mission to identify visual sensitivity zones in the TFL following the Visual Landscape Inventory standards.	Timber harvesting constrained by zone: • PR-H –5% of productive area • PR-M –10% of productive area • PR-L –15% of productive area • M – 20% of productive area Visually effective green-up is 4m.

7.2 Analysis Units

Table 7.2 lists the principal criteria used in the aggregation of stands with similar biological characteristics into larger homogenous units called analysis units (AUs). This

aggregation provides the mechanism for application of stand-level modeling and reporting. Each forest cover polygon will be assigned an AU based on the criteria in Table 7.2. Site index, leading species and biogeoclimatic variant were the dominant criteria for creating the AUs.

Table 7.2: Analysis Units

AU	Leading Species	Inventory Type Group	Biogeoclimatic Zone	SI ₅₀ Range
1	Pure Fir ($\geq 75\%$)	1-8	All	>27
2	Pure Fir ($\geq 75\%$)	1-8	All	20 to 27
3	Pure Fir ($\geq 75\%$)	1-8	All	<20
4	Mixed Fir ($<75\%$)	1-8	All	>27
5	Mixed Fir ($<75\%$)	1-8	All	20 to 27
6	Mixed Fir ($<75\%$)	1-8	All	<20
7	Cedar	9-11	CWHdm, CWHvm1	>25
8	Cedar	9-11	CWHdm, CWHvm1	19 to 25
9	Cedar	9-11	CWHdm, CWHvm1	<19
10	High elev. Cedar	9-11	CWHvm2, MHmm1	>25
11	High elev. Cedar	9-11	CWHvm2, MHmm1	19 to 25
12	High elev. Cedar	9-11	CWHvm2, MHmm1	<19
13	Hemlock/Balsam	12-20	CWHdm, CWHvm1	>27
14	Hemlock/Balsam	12-20	CWHdm, CWHvm1	20 to 27
15	Hemlock/Balsam	12-20	CWHdm, CWHvm1	<20
16	High elev. Hemlock/Balsam	12-20	CWHvm2, MHmm1	>21
17	High elev. Hemlock/Balsam	12-20	CWHvm2, MHmm1	14 to 21
18	High elev. Hemlock/Balsam	12-20	CWHvm2, MHmm1	<14

7.3 VDYP Analysis Units (1-18 -VDYP Natural Stands)

Analysis units 1-18 describe the existing natural stands within TFL 26. The analysis units were designed based on the criteria identified in Table 7.2. Table 7.3a summarizes the stand attribute definitions for the natural stands that will be modeled using VDYP to develop the natural stand yield tables (NSYT) that will be used in the base case.

Table 7.3a: VDYP Analysis Unit Descriptions (1-18 – no age groups)

Analysis Unit	Leading Species	Net Area (ha)	Avg CC %	Avg SI ₅₀	Species Composition (%)	ITG	SI ₅₀ Range
1	Pure Fir (≥75%)	198.9	61.5	34	F ₉₂ H ₆ C ₁ D ₁	1-8	>27
2	Pure Fir (≥75%)	110.2	53.7	25.1	F ₉₂ H ₄ C ₄	1-8	20 to 27
3	Pure Fir (≥75%)	12.0	60.5	17.1	F ₈₃ H ₁₂ C ₅	1-8	<20
4	Mixed Fir (<75%)	473.0	64.3	34.8	F ₅₈ H ₂₈ C ₁₀ E ₃ D ₁	1-8	>27
5	Mixed Fir (<75%)	166.8	65.1	23.3	F ₅₄ H ₂₉ C ₁₇	1-8	20 to 27
6	Mixed Fir (<75%)	91.2	50.5	17.5	F ₅₆ H ₂₂ C ₁₉ D ₃	1-8	<20
7	Cedar	464.4	65.9	29.2	C ₅₄ H ₃₁ F ₁₃ D ₁ E ₁	9-11	>25
8	Cedar	245.2	69.1	22.9	C ₅₇ H ₃₁ F ₉ Yc ₃	9-11	19 to 25
9	Cedar	199.5	52.8	15.6	C ₅₅ H ₃₀ F ₈ B ₆ Yc ₁	9-11	<19
10	High elev. Cedar	0.5	5	29	Yc ₄₀ H ₃₀ C ₂₀ B ₁₀	9-11	>25
11	High elev. Cedar	106.2	12.9	23	Yc ₅₅ C ₂₃ H ₁₀ B ₉ F ₃	9-11	19 to 25
12	High elev. Cedar	43.2	50	17	C ₃₂ Yc ₂₉ H ₂₆ B ₁ I ₃	9-11	<19
13	Hemlock/Balsam	1762.5	65.8	30.2	H ₆₂ C ₂₂ F ₁₂ B ₂ D ₁ E ₁	12-20	>27
14	Hemlock/Balsam	1438.0	67.5	24.5	H ₆₁ C ₂₄ F ₁₂ B ₂ D ₁	12-20	20 to 27
15	Hemlock/Balsam	441.3	57.1	16.1	H ₆₀ C ₂₆ F ₁₂ B ₂	12-20	<20
16	High elev. Hemlock/Balsam	175.6	27.2	22.5	H ₅₆ B ₁₅ C ₁₄ Yc ₁₀ F ₆	12-20	>21
17	High elev. Hemlock/Balsam	45.9	56.5	15.9	H ₄₅ B ₃₅ Yc ₁₂ C ₅ F ₂	12-20	14 to 21
18	High elev. Hemlock/Balsam	76.6	53.7	9.2	H ₅₀ B ₂₆ Yc ₂₁ C ₃	12-20	<14
Total		6,050.9					

In order to account for site index adjustments for old aged stands (age > 140 years), AUs have been created to represent the attributes of stands ≤140 years (Table 7.3b) and greater than 140 years (Table 7.3c). These AUs will be applied in a sensitivity analysis as described in Table 3.2.

Table 7.3b: VDYP Analysis Units - (21 – 38 - ≤ 140 years)

Analysis Unit	Leading Species	Net Area (ha)	Avg CC %	Avg SI ₅₀	Species Composition (%)	ITG	SI ₅₀ Range
21	Pure Fir (≥75%)	191.7	62.2	34.2	F ₉₂ H ₆ C ₁ D ₁	1-8	>27
22	Pure Fir (≥75%)	102.9	52.2	25	F ₉₂ H ₄ C ₄	1-8	20 to 27
23	Pure Fir (≥75%)	12.0	60.5	17.1	F ₈₃ H ₁₂ C ₅	1-8	<20
24	Mixed Fir (<75%)	473.0	64.3	34.8	F ₅₈ H ₂₈ C ₁₀ E ₃ D ₁	1-8	>27
25	Mixed Fir (<75%)	156.3	64.7	23.5	F ₅₅ H ₂₉ C ₁₆	1-8	20 to 27
26	Mixed Fir (<75%)	91.2	50.5	17.5	F ₅₆ H ₂₂ C ₁₉ D ₃	1-8	<20
27	Cedar	464.4	65.9	29.2	C ₅₄ H ₃₁ F ₁₃ D ₁ E ₁	9-11	>25
28	Cedar	241.4	69.2	23	C ₅₇ H ₃₀ F ₉ Yc ₃ D ₁	9-11	19 to 25
29	Cedar	155.0	50.2	15.7	C ₅₆ H ₃₁ F ₈ B ₅	9-11	<19
30	High elev. Cedar	0.5	5	29	Yc ₄₀ H ₃₀ C ₂₀ B ₁₀	9-11	>25
31	High elev. Cedar	106.2	12.9	23	Yc ₅₅ C ₂₃ H ₁₀ B ₉ F ₃	9-11	19 to 25
32	High elev. Cedar	34.3	48.9	17.7	C ₃₈ Yc ₂₅ H ₂₄ B ₁₃	9-11	<19
33	Hemlock/Balsam	1,762.5	65.8	30.2	H ₆₂ C ₂₂ F ₁₂ B ₂ D ₁ E ₁	12-20	>27
34	Hemlock/Balsam	1,430.1	67.5	24.5	H ₆₁ C ₂₄ F ₁₂ B ₂ D ₁	12-20	20 to 27
35	Hemlock/Balsam	369.1	56.8	16.5	H ₅₉ C ₂₇ F ₁₃ B ₁	12-20	<20
36	High elev. Hemlock/Balsam	171.6	26.8	22.5	H ₅₅ B ₁₅ C ₁₄ Yc ₁₀ F ₆	12-20	>21
37	High elev. Hemlock/Balsam	28.4	51.8	16.5	H ₅₀ B ₂₂ Yc ₁₆ C ₈ F ₄	12-20	14 to 21
38	High elev. Hemlock/Balsam	0.0	--	0 --		12-20	<14
Total		5,790.5					

Table 7.3c: VDYP Analysis Unit Descriptions (Yield Ids 41 - 58 - >140 years)

Analysis Unit	Leading Species	Net Area ¹ (ha)	Avg CC %	Avg SI ₅₀	Species Composition (%)	ITG	SI ₅₀ Range
41	Pure Fir (≥75%)	7.2	41.9	29.3	F ₉₀ H ₁₀	1-8	>27
42	Pure Fir (≥75%)	7.2	75	26.5	F ₉₀ H ₁₀	1-8	20 to 27
45	Mixed Fir (<75%)	10.4	70	21.8	F ₄₀ H ₃₀ C ₃₀	1-8	20 to 27
48	Cedar	3.7	60	19.9	C ₄₀ F ₃₀ C ₃₀	9-11	19 to 25
49	Cedar	44.6	60.9	15.1	C ₅₄ H ₂₇ F ₉ B ₈ Yc ₂	9-11	<19
52	High elev. Cedar	9.0	54.9	14.2	Yc ₄₇ H ₃₈ B ₁₀ C ₅	9-11	<19
54	Hemlock/Balsam	7.9	70	24.1	H ₉₀ C ₁₀	12-20	20 to 27
55	Hemlock/Balsam	72.2	58.5	14.6	H ₆₁ C ₂₂ F ₇ B ₇ Yc ₃	12-20	<20
56	High elev. Hemlock/Balsam	4.0	50	21.4	H ₁₀₀	12-20	>21
57	High elev. Hemlock/Balsam	17.5	66.6	14.7	B ₆₃ H ₃₃ Yc ₄ C ₁	12-20	14 to 21
58	High elev. Hemlock/Balsam	76.6	53.7	9.2	H ₅₀ B ₂₆ Yc ₂₁ C ₃	12-20	<14
Total		260.4					

7.4 TIPSy Analysis Units (Existing Managed Stands)

Table 7.4 summarizes the analysis units for the existing managed stands that will be modeled using TIPSy to develop the managed stand yield tables used in the base case.

Table 7.4: TIPSy Analysis Units (Existing Managed Stands)

Analysis Unit	Leading Species	Net Area (ha)	Avg SI ₅₀	Species Composition (%)	ITG	SI ₅₀ Range	Management
61	Pure Fir (≥75%)	41.6	35	F ₈₀ C ₁₈ H ₂	1-8	>27	Planted
62	Pure Fir (≥75%)	264.4	27	F ₈₄ H ₁₂ C ₄	1-8	20 to 27	Planted
63	Pure Fir (≥75%)	4.8	17.7	F ₉₄ C ₆	1-8	<20	Planted
64	Mixed Fir (<75%)	34.7	31.8	F ₅₈ H ₁₈ C ₁₆ B ₈	1-8	>27	Planted
65	Mixed Fir (<75%)	216.7	26.7	F ₅₇ H ₃₁ C ₉ B ₃	1-8	20 to 27	Planted
66	Mixed Fir (<75%)	25.6	18	F ₅₄ H ₃₇ C ₉	1-8	<20	Planted
67	Cedar	24.6	29	C ₄₇ F ₃₄ B ₁₉	9-11	>25	Planted
68	Cedar	36.1	22	C ₅₄ B ₂₄ F ₂₂	9-11	19 to 25	Planted
73	Hemlock/Balsam	83.5	28.3	H ₅₁ F ₃₈ C ₈ B ₃	12-20	>27	Planted
74	Hemlock/Balsam	195.8	22.2	H ₅₂ B ₁₉ F ₁₈ C ₈ Y _{c3}	12-20	20 to 27	Planted
75	Hemlock/Balsam	5.5	14	H ₈₀ C ₁₀ F ₁₀	12-20	<20	Planted
76	HE Hemlock/Balsam	66.6	22.7	H ₃₇ B ₃₈ Y _{c13} C ₆ F ₆	12-20	>21	Planted
77	HE Hemlock/Balsam	18.4	14	B ₄₅ Y _{c30} H ₂₅	12-20	14 to 21	Planted
82	Pure Fir (≥75%)	5.0	27	F ₈₄ H ₁₂ C ₄	1-8	20 to 27	Planted/Spaced
85	Mixed Fir (<75%)	124.8	26.7	F ₅₇ H ₃₁ C ₉ B ₃	1-8	20 to 27	Planted/Spaced
94	Hemlock/Balsam	42.1	22.2	H ₅₂ B ₁₉ F ₁₈ C ₈ Y _{c3}	12-20	20 to 27	Planted/Spaced
Total		1,190.2					

7.5 Age Class Distribution

A summary of the distribution of age class areas and volumes is given in Tables 7.5a and 7.5 b. Aggregation was completed to reflect the proposed biodiversity age categories (see Section 10). A detailed summary of areas and volumes by analysis unit is given in Tables 7.5c and 7.5d.

Table 7.5a : Age Class Distribution by Area

Upper age of age class (yrs)	Productive Area (ha)			Net Area (ha) ¹		
	Natural	Managed	Total	Natural	Managed	Total
20	126	1,126	1,252	74	945	1,019
40	919	271	1,190	647	245	892
60	3,174	0	3,174	2,173		2,173
80	2,307	0	2,307	1,899		1,899
100	602	0	602	508		508
120	291	0	291	212		212
140	314	0	314	277		277
200	186	0	186	139		139
250	66	0	66	20		20
251+	397	0	397	101		101
Total	8,382	1,397	9,779	6,051	1,190	7,241

¹ NSR not included: Prod NSR Area = 56.5 ha; Net NSR Area = 52.9 ha

Table 7.5b : Age Class Distribution by Volume

Upper age of age class (yrs)	Productive Volume (m ³)			Net Volume (m ³) ¹		
	Natural	Managed	Total	Natural	Managed	Total
20	0	0	0	0	0	0
40	45,020	2,274	47,294	32,549	2,037	34,586
60	1,084,643		1,084,643	807,166		807,166
80	1,254,010		1,254,010	1,057,595		1,057,595
100	355,167		355,167	300,713		300,713
120	148,290		148,290	108,184		108,184
140	166,854		166,854	146,377		146,377
200	99,374		99,374	76,481		76,481
250	28,627		28,627	10,281		10,281
251+	168,714		168,714	39,009		39,009
Total	3,350,700	2,274	3,352,974	2,578,354	2,037	2,580,391

¹ NSR not included: Prod NSR Area = 56.5 ha; Net NSR Area = 52.9 ha

Table 7.5c : Distribution of Area by Age and Analysis Unit – Inventory File

AU	Area (ha) within each age class grouping										Total ⁽¹⁾
	1- 20	21-40	41-60	61-80	81-100	101-120	121- 140	141-200	201-250	>250	
1		29	108	33	18		4	7			199
2		34	12	7		20	30	7			110
3		10	1	2							12
4			173	237	63						473
5		4	14	43	17	47	31	10			167
6		60	1	11			20				91
7		4	283	152	26						464
8		10	129	63	21	14	4	4			245
9	21	13	76	3	15	19	9	29	10	6	200
10		1									1
11	52	54	0								106
12	1	6	27					2		6	43
13		46	862	744	90	21					1,762
14		132	428	545	221	42	62	8			1,438
15		87	42	60	14	49	117	62	1	9	441
16		151	7		14					4	176
17		9	11		9			9		8	46
18									9	67	77
61	42										42
62	172	92									264
63	1	4									5
64	35										35
65	176	41									217
66	3	22									26
67	25										25
68	36										36
73	84										84
74	196										196
75	5										5
76	67										67
77	18										18
82		5									5
85	44	81									125
94	42										42
Total	1,019	892	2,173	1,899	508	212	277	139	20	101	7,241

¹ NSR not included: Prod NSR Area = 56.5 ha; Net NSR Area = 52.9 ha

Table 7.5d : Distribution of Volume by Age and Analysis Unit

AU	Volume (m ³) within each age class grouping										Total ⁽¹⁾
	1- 20	21-40	41-60	61-80	81-100	101-120	121-140	141-200	201-250	>250	
1		5,622	42,536	20,692	16,136		3,848	5,963			94,798
2		4,007	3,120	1,944		8,707	17,631	5,419			40,828
3		60	73	162							295
4			85,314	158,507	49,597						293,417
5		372	2,901	16,770	8,308	24,053	20,678	6,491			79,574
6		738	77	2,109			6,026				8,950
7		132	90,536	77,018	14,211						181,898
8		121	27,263	23,557	9,958	8,049	2,516	2,261			73,724
9			9,569	563	3,732	5,747	2,998	13,053	5,196	2,046	42,904
10		14									14
11		94	31								125
12			2,279					1,295		3,001	6,575
13		11,685	391,280	464,718	59,548	12,636					939,868
14		6,709	142,610	272,896	122,196	26,139	38,608	6,266			615,425
15		20	4,680	18,658	5,540	22,852	54,073	31,806	504	4,248	142,382
16		2,832	3,119		8,380					3,213	17,544
17		143	1,778		3,106			3,925		6,356	15,309
18									4,581	20,144	24,725
61											
62		970									970
63											
64											
65		107									107
66											
67											
68											
73											
74											
75											
76											
77											
82											
85		960									960
94											
Total	0	34,586	807,166	1,057,595	300,713	108,184	146,377	76,481	10,281	39,009	2,580,391

¹ NSR not included: Prod NSR Area = 56.5 ha; Net NSR Area = 52.9 ha

Table 7. 5e : Distribution of Volume by Age and Analysis Unit – From Yield Curves

AU	Volume (m ³) within each age class grouping										Total ⁽¹⁾
	1- 20	21-40	41-60	61-80	81-100	101-120	121- 140	141-200	201-250	>250	
1		6,126	43,219	19,415	14,963		4,183	7,818			95,724
2		2,580	3,048	2,225		11,453	18,735	4,694			42,734
3		18	63	250							331
4			93,172	169,221	53,406						315,798
5		304	2,996	16,545	8,389	26,149	19,677	7,068			81,127
6		197	74	1,944			7,202				9,417
7		142	93,743	82,403	18,087						194,375
8		170	26,735	23,489	10,518	8,237	2,795	2,841			74,786
9			4,570	405	3,450	5,655	3,185	12,394	4,818	3,138	37,615
10		5									5
11			27								27
12		9	1,614					1,236		4,075	6,934
13		9,276	383,428	440,484	63,986	16,468					913,642
14		8,444	129,221	250,032	122,263	27,702	43,470	6,051			587,183
15		26	3,240	12,778	4,160	17,599	47,039	30,834	444	5,684	121,805
16		1,764	1,707		5,613					3,061	12,146
17		29	1,548		2,802			4,610		5,996	14,985
18									2,900	23,613	26,512
61											-
62		368									368
63											-
64											-
65		163									163
66											-
67											-
68											-
73											-
74											-
75											-
76											-
77											-
82											-
85		487									487
94											-
Total	-	30,109	788,402	1,019,191	307,636	113,263	146,285	77,546	8,162	45,568	2,536,162

¹ NSR not included: Prod NSR Area = 56.5 ha; Net NSR Area = 52.9 ha

8.0 GROWTH AND YIELD

This section outlines the procedures and assumptions used to develop the yield tables that will be included in the timber supply analysis and the volume information that is reported in this information package. New additions to the growth and yield information consists of the following:

- *Species conversion equations*
- *Old-growth site index adjustments*
- *Genetic seedling improvement*

8.1 Site Index Assignments

The attributes for most stocked stands were revised during the 1988-89 re-inventory of TFL 26. This revision included new site index assignment. For the purposes of the dataset being developed for this information package, existing site index (SI₅₀) was assigned to existing natural stands based on inventory age and height. The site index curves in VDYP Version 6.4 was used for these assignments. Analysis unit site index was derived by an area-weighted average of the site index of each stand in the analysis unit. Table 8.1a describes the source of the site index equations utilized in VDYP, Version 6.4 to generate yield information for the TFL.

Table 8.1a: Source of Site Index Equations

Species	Site Index Reference
Alder	Harrington and Curtis (1987)
Balsam	Kurucz (1985)
Douglas-Fir	Bruce (1981)
Western hemlock	Wiley (1978)
Western redcedar	Kurucz (1985)

There are currently new old growth site index (OGSI) adjustment equations available for adjusting site index from natural old age stands (age > 140 years) regenerating to managed second growth stands. The equations for OGSI adjustment are derived from the report *Site Index Adjustments for Old-growth Stands Based on Veteran Trees, MOF*. The site index adjustments are applied to “old” stands upon harvest to determine the second growth (SG) site index (Table 8.1b). Adjustments will be applied based on the leading species by analysis unit. These adjustments will only apply to the SI_{OG} for managed stands following the guidelines given in the OGSI reports. As there is no locally calibrated reliable OGSI data, the OGSI adjustments will not be used in the base case. The OGSI sensitivity analysis will show the impact of these SI adjustments.

Table 8.1b: Old-Growth Site Index (OGSI) Adjustment Equations

Old-Growth Species ¹	OGSI Adjustment Equation
amabilis fir (Ba)	$SI_{SG} = 22.59$
Douglas-fir (Fd)	$SI_{SG} = 8.883 + 0.8688 * SI_{OG}$
western hemlock (Hw)	$SI_{SG} = 15.47 + 0.7144 * SI_{OG}$
western redcedar (Cw)	$SI_{SG} = 1.326 * SI_{OG}$

¹ Coastal Species

Mission also believes that site index of current natural stands is underestimated and will be doing sensitivity analyses in order to test the expected impacts on timber supply. This will consist of raising and lowering the SI by 5 m.

8.2 Utilization Levels

Table 8.2 identifies the utilization level by species that will be used in the development of the yield tables.

Table 8.2: Utilization Levels

Species	Utilization			Firmwood Standard (%)
	Min DBH	Stump Height	Top DIB	
Fir, Cedar, Hemlock, Balsam	17.5	30.0	10.0	50

8.3 Decay, Waste and Breakage

VDYP-generated volumes (for both current polygon volume and yield table development) are net DWB using forest inventory zone (FIZ) C and loss factors for special cruise 342 (TFL 26).

8.4 Operational Adjustment Factors

The TIPSYP program allows the use of operational adjustment factors to reduce the gross volumes of regenerated stands.

There are two OAFs applied in TIPSYP. OAF1 allows for yield reductions associated with non-productive areas in the stand, uneven spacing of crop trees (clumping), and endemic and random loss. OAF2 allows for volume losses due to maturity, attributable to DWB factors. In the construction of the MSYTs, OAFs were applied as follows:

- OAF 1 - 15% for all species; and
- OAF 2 - 5% for all species.

The OAFs applied are based on MoF values for the development of MSYTs and are consistent with the values used in the *1998 Fraser TSA Analysis Report*. From observations and operational experience on the TFL, it is believed that a 15% and 5% reduction for OAF 1 and 2 in plantation stands may be too high. The OAFs are thought to be excessive, since the TFL consists of very good growing sites, experiences a lot of natural fill-in leading to full stocking, low amounts of rock outcrops and low endemic

accounts of insects and disease. A sensitivity analysis is proposed to test changing OAF 1 and 2 by $\pm 3\%$ and $\pm 2\%$ correspondingly in future managed stands.

8.5 Volume Exclusions

Table 8.5a and 8.5b summarizes the criteria and the volume percentage to be excluded from natural mixed-species stands. These volumes will be removed from the mixed-species stands, based on the average distribution within each analysis unit.

Table 8.5a : Volume Exclusions for Deciduous Species Types

Inventory Type Group	Volume Excluded	% volume exclusion
1-38	All deciduous volume component	100

Table 8.5b : Volume Reductions⁽¹⁾ for Deciduous Species in Conifer Stands

AU	VDYP	VDYP Immature	VDYP mature
	Decid %	Decid %	Decid %
1	1	1	0
2	0	0	0
3	0	0	--
4	1	1	--
5	3	3	0
6	2	2	--
7	0	1	--
8	0	0	0
9	0	0	0
10	0	0	--
11	0	0	--
12	0	0	0
13	2	2	--
14	1	1	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0

¹ Volume reductions are applied to volume curves.

8.6 Yields for Unmanaged Stands

8.6.1 Current Inventory Volume

Volumes reported in this Information Package were developed with the BATCH PROCESS function in VDYP Version 6.4. DWB factors and utilization levels (Table 8.4) were incorporated into the volume calculations for each polygon.

8.6.2 Yields for Unmanaged Stands

The VDYP yield table development involved the following processes:

1. Each polygon in the productive land base was assigned to an analysis unit based on factors such as site index, leading species, percentage of leading species and biogeoclimatic zone (see Table 7.2).
2. Crown closure class, site index and species composition were derived using an area-weighted method.
3. DWB factors for special cruise 342, TFL26, and utilization standards were combined with the other factors to generate the VDYP output.

Once logged, all natural stands will revert to MSYTs. The natural stand attribute inputs to VDYP are presented in Table 7.2. The NSYTs are presented in Appendix I.

8.6.3 Existing Unmanaged Mature Timber Volumes

All existing mature timber volumes will be derived from the natural stand yield tables for each analysis unit.

8.6.4 Existing Unmanaged Immature Timber Volumes

All existing unmanaged immature timber volumes will be derived from the natural stand yield tables for each analysis unit.

8.6.5 Existing Timber Volume Check

The results of the existing timber volume check between the aggregated analysis unit volumes and the inventory polygon-specific volumes are presented in Table 8.6.

Table 8.6: Existing Inventory Check

	Polygon Specific	Analysis Unit
Total Volume	2,580,319	2,536,162
% Difference	1.7	

The difference of 1.7% is well within acceptable limits.

8.7 Yields for Managed Stands

The following section describes the source and methods used to develop the managed stand yield tables that will be used in the timber supply analysis for TFL 26.

8.7.1 Silviculture Management Regimes

This section describes the current regeneration regimes for TFL 26, identifying managed stand conditions for each analysis unit. Mission re-plants all sites after harvesting. Past performance indicates a planting delay of 1 year. As Mission uses 1-year stock, the effective regeneration delay is 0, which has been applied to all TIPSYS curves.

Yield tables for managed stands were developed using TIPSYS. Stocking was set based on conditions at planting (Table 8.7.1a). Table 8.7.1b provides the detailed information used to create the future managed TIPSYS yield curves. The species distribution follows the current practices within the TFL and the information supplied was developed based on local knowledge.

As stand density information in the forest inventory database was incomplete, and accurate average density could not be reliably calculated, accurate existing managed densities could not be obtained. Densities are based on knowledge of historical practices.

Table 8.7.1a: Existing Managed TIPSYS Curves - Planted and Spaced

AU	Area (ha)	Leading Spp	Avg SI ₅₀	Inv. Type Grp	Biogeo Zone	SI Grp	Planted		Spaced				
							Species	Density	AU	Area (ha)	SI ₅₀	Species	Density
61	41.6	Pure Fir (≥75%)	35	1-8	All	>27	F ₈₀ C ₁₈ H ₂	1200					
62	264.4	Pure Fir (≥75%)	27	1-8	All	20 to 27	F ₈₄ H ₁₂ C ₄	1200	82	5	27	F ₉₀ H ₁₀	700
63	4.8	Pure Fir (≥75%)	17.7	1-8	All	<20	F ₉₄ C ₆	1200					
64	34.7	Mixed Fir (<75%)	31.8	1-8	All	>27	F ₅₈ H ₁₈ C ₁₆ B ₈	1200					
65	216.7	Mixed Fir (<75%)	26.7	1-8	All	20 to 27	F ₅₇ H ₃₁ C ₉ B ₃	1200	85	124.8	27	F ₅₁ H ₃₀ C ₁₉	700
66	25.6	Mixed Fir (<75%)	18	1-8	All	<20	F ₅₄ H ₃₇ C ₉	1200					
67	24.6	Cedar	29	9-11	CWHdm/CWHvm1	>25	C ₄₇ F ₃₄ B ₁₉	1200					
68	36.1	Cedar	22	9-11	CWHdm/CWHvm1	19 to 25	C ₅₄ B ₂₄ F ₂₂	1200					
73	83.5	Hemlock/Balsam	28.3	12-20	CWHdm/CWHvm1	>27	H ₅₁ F ₃₈ C ₈ B ₃	1200					
74	195.8	Hemlock/Balsam	22.2	12-20	CWHdm/CWHvm1	20 to 27	H ₅₂ B ₁₉ F ₁₈ C ₈ Yc ₃	1200	94	42.1	22	H ₅₉ F ₂₉ C ₁₂	700
75	5.5	Hemlock/Balsam	14	12-20	CWHdm/CWHvm1	<20	H ₈₀ C ₁₀ F ₁₀	1200					
76	66.6	HE Hemlock/Balsam	22.7	12-20	CWHvm2/MHmml	>21	H ₃₇ B ₃₈ Yc ₁₃ C ₆ F ₆	1200					
77	18.4	HE Hemlock/Balsam	14	12-20	CWHvm2/MHmml	14 to 21	B ₄₅ Yc ₃₀ H ₂₅	1200					
	1018.3									171.9			

Table 8.7.1b: Silviculture Management Regimes and TIPSy Regeneration Assumptions

AU #	Leading Spp	Avg SI ₅₀ ⁽¹⁾	Inv. Type Grp	Biogeo Zone	SI Grp	Planted		Planted and Spaced	
						Species ⁽²⁾	Density	Species ⁽²⁾	Density
101	Pure Fir (>75%)	34.2	1-8	All	>27	n/a	1,200	F80H10C10	700
102	Pure Fir (>75%)	26.4	1-8	All	20 to 27	n/a	1,200	F80H10C10	700
103	Pure Fir (>75%)	17.3	1-8	All	<20	F85C15	1,200		n/a
104	Mixed Fir (<75%)	32.5	1-8	All	>27	n/a	1,200	F60H20C20	700
105	Mixed Fir (<75%)	25.3	1-8	All	20 to 27	n/a	1,200	F60H25C15	700
106	Mixed Fir (<75%)	17.6	1-8	All	<20	F75C25	1,200		n/a
107	Cedar	29.0	9-11	CWHdm, CWHvm1	>25	n/a	1,200	C40F30Ba20H10	700
108	Cedar	22.6	9-11	CWHdm, CWHvm1	19 to 25	n/a	1,200	C40F30Ba20H10	700
109	Cedar	15.6	9-11	CWHdm, CWHvm1	<19	F50C50	1,200		n/a
110	High elev. Cedar	29.0	9-11	CWHvm2, MHmm1	>25	F05C30H20Ba15Yc30	1,200		n/a
111	High elev. Cedar	23.0	9-11	CWHvm2, MHmm1	19 to 25	F05C30H20Ba15Yc30	1,200		n/a
112	High elev. Cedar	14.6	9-11	CWHvm2, MHmm1	<19	F05C30H20Ba15Yc30	1,200		n/a
113	Hemlock/Balsam	28.0	12-20	CWHdm, CWHvm1	>27	n/a	1,200	H40F40C10Ba10	700
114	Hemlock/Balsam	23.8	12-20	CWHdm, CWHvm1	20 to 27	n/a	1,200	H50F30C15Ba15	700
115	Hemlock/Balsam	16.1	12-20	CWHdm, CWHvm1	<20	F60C30Bg05Ba05	1,200		n/a
116	High elev. Hemlock/Balsam	22.6	12-20	CWHvm2, MHmm1	>21	F10C30H10Ba40Yc10	1,200		n/a
117	High elev. Hemlock/Balsam	15.8	12-20	CWHvm2, MHmm1	14 to 21	F5C20H20Ba35Yc20	1,200		n/a
118	High elev. Hemlock/Balsam	9.0	12-20	CWHvm2, MHmm1	<14	F5C10H30Ba25Yc30	1,200		n/a

¹ Applies to both spaced and planted stands² F = Douglas-fir, C = red cedar, H = hemlock, Bg = grand fir, Ba = amabilis fir, Yc = yellow cedar, D = red alder^a Management practices will allow for up to a 30% deciduous component through a combination of deciduous retention and natural regeneration

8.7.2 Species Conversion

Table 8.7.2 outlines the regeneration assumptions to be applied for the base case scenario in the timber supply analysis and twenty-year harvest plan. These values were derived based on historical knowledge of regeneration in TFL26. In instances where species conversion occurs, the site index conversion equations (MoF) will be applied. Regeneration assumptions will apply only to the first rotation and will be applied to existing natural stands only. Further rotations will not result in species conversion.

Stands which require species conversion will be converted as per Table 8.7.2. The site index is converted to the site index of the new species. The appropriate yield curve is identified and, upon harvest, the polygon reverts to the appropriate yield id.

Table 8.7.2: Regeneration Assumptions

Existing	Convert To																		Sum
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	
1	100																		100
2		100																	100
3			100																100
4				100															100
5					100														100
6						100													100
7				40			60												100
8					40			60											100
9						40			60										100
10										100									100
11											100								100
12												100							100
13				60									40						100
14					60									40					100
15						60									40				100
16																100			100
17																	100		100
18																		100	100

The *Site Index Conversion Equations for Mixed Species Stands, MoF (1995)* research report provides site index conversion equations. Where species conversion equations do not exist (for cedar leading AUs), site index will not change. The following equation will be used for Hw to Fd conversions:

$$SI_{Fdc} = 0.480 + 1.11 * SI_{Hw}$$

8.7.3 Genetic Gain Allowances

As a result of an on-going tree improvement program, a rational volume increase is expected for stands regenerating from genetically-improved stock. Current seedlots are exhibiting G+04 for Fd and G+02 for Hw and Cw. Volume adjustments will be applied to the yield curves and will be based on the future managed species distributions presented in Table 8.7.2.

There are indications of Fd seed with a 12% gain and potential increases for other species as well. Based on the uncertainty of future gains, we will undertake a sensitivity analysis based on a 12% gain for Fd and a 6% for all other species.

8.8 Silviculture History

8.8.1 Existing Managed Immature

Table 8.8.1 provides information, by analysis unit and leading species, for the area by age class of planted and spaced second growth immature stands.

Table 8.8.1: Existing Managed Immature¹ by Age Class

AUs	Leading Species	Planted Area (ha)			Spaced Area (san/juv) (ha)			Total (ha)
		1-10	11-20	21-30	1-10	11-20	21-30	
1-3	Pure Fir	101.0	113.8	96.1	0.0	0.0	0.0	310.8
4-6	Mixed Fir	168.2	45.6	63.1	0.0	43.7	5.0	325.6
7-9	Cedar	60.7	0.0	0.0	0.0	0.0	0.0	60.7
10-12	HE Cedar	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-15	Hemlock	100.4	210.3	0.0	0.0	42.1	81.1	433.9
16-18	HE Hemlock	15.5	43.6	0.0	0.0	0.0	0.0	59.1
Total		445.8	413.3	159.2	0.0	85.8	86.1	1,190.2

¹ NSR not included – Net area 52.4 ha

In the base case scenario, the definition of managed immature followed the same assumptions as in the *Fraser TSA Report*, (i.e. all stands harvested over the last 10 years, hemlock stands harvested over the last 20 years, Douglas-fir stands harvested up to 30 years ago and all stands that will be harvested in the future), are assumed to grow according to managed stand volume estimates from TIPSy. Mission is in the process of verifying the status of their managed immature stands within the TFL. As a result, the area of managed immature may increase during the review of this information package or in the timber supply analysis. Active planting and stand management in the TFL has occurred in most areas of the TFL since 1959. A sensitivity will test changing young stands from VDYP to TIPSy curves when the verification process is completed.

8.8.2 Not Satisfactorily Restocked

A description of current NSR and the restocking schedule is given in Section 6.17. The NSR restocking schedule provided reflects Mission's NSR regeneration strategy and is

consistent with regeneration practices on the TFL. In *FSOS*, NSR is modeled using negative ages, which are applied to reflect the NSR restocking schedule.

Table 8.8.2: Summary of NSR Restocking Strategy

Regenerated to	Current NSR Area (ha)
	2001
104	9.5
105	17.3
106	7.2
114	15.9
116	3.0
Total	52.9

9.0 PROTECTION

9.1 Unsalvaged Losses

Unsalvaged losses represent natural events that are non-recoverable and result in a decrease in the productivity of the TFL. These losses focus on the epidemic losses that are not salvaged, whereas the endemic losses are accounted for through operational adjustments and netdown reductions. It should also be considered that the extensive road system in the TFL allows for considerable salvage of insect, disease and fire-affected stands. Table 9.1 reflects only the volume losses on the TFL.

Unsalvaged losses from fire are virtually nonexistent in TFL26. As the TFL occurs in the wettest part of the Fraser Valley, fire occurrence is limited. The virtual elimination of broadcast burns and slash burns, accompanied with good access and extensive patrolling of the TFL, minimizes fire losses. In the past 10 years, there was a loss of approximately 30 m³ due to a recreation fire. Therefore, the annual loss has amounted to approximately 3 m³ per year. We will assume unsalvageable fire losses will be similar for this management plan.

Losses due to blowdown is also a minor reduction within TFL 26. Again, due to good access and recovery, annual blowdown losses are thought to be less than 100 m³. Following the Fraser TSA estimate of approximately 0.2 %, unsalvaged blowdown losses in the TSA would result in a loss of 90 m³ per year for the TFL (based on 45 000 m³ x 0.2%). With the retention of more wildlife tree patches in current and future management, it is expected there will be more opportunity for blowdown to occur. As a conservative estimate, we will increase the blowdown losses 25% for wildlife tree patches that will blowdown and not likely be salvaged. Total unsalvaged losses for blowdown to be applied in this timber supply analysis will be 112 m³ per year.

Table 9.1: Non-Recoverable Losses

Cause	Unsalvaged Loss (m3/year)
Fire	3
Insects (epidemic)	0
Disease (epidemic)	0
Windthrow	112
Other	0
Total	115

This volume will be removed from the modeled harvest levels to represent net available volume.

10.0 Integrated Resource Management

The intent of this section is to provide details on how modeling methodology will integrate non-timber resource values with timber objectives.

10.1 Forest Resource Inventories

This section documents the status of all non-timber resource inventories for TFL 26. Approximate dates of completion and other information are provided.

Table 10.1: Forest Resource Inventory Status

Forest Resource Inventory	Data Source	Date completed/updated	Date Approved	Approved by:	Status
Visual Landscape Inventory	Geoscape Environmental Consultants	1998/99	March 1999	Vancouver Forest Region	current
Watershed Boundaries (Kenworthy Creek, Cannell Lake)	Atticus Resource Consulting	1996	July 1998	Chilliwack Forest District	current
Riparian Classification ¹	FC/HHL	1999	n/a	n/a	current
Terrain Stability	Golder Associates Ltd.	1997/98 Southern part 1998/99 Northern part	March 1998 March 1999	Vancouver Forest Region	current
Operability	MP7	1994		Chilliwack Forest District	current
Forest Inventory	MOF	1988		Inventory Branch	current
Biogeoclimatic Zones	MOE			MOE	current

(1) Riparian classifications created through GIS analysis using Guidebook parameters.

10.2 Forest Cover Requirements

Table 10.2 sets out the forest cover objectives for TFL 26, by management zone for maintaining non-timber values. Forest cover objectives are applied to model biodiversity values, hydrological recovery, and visual quality objectives by placing maximum and minimum boundaries on specific height and age distributions, mainly focusing on young age forests and old age forests.

Mission will be applying Hugh Hamilton Limited's analysis approach, **FORUM**, in the development of the upcoming timber supply and twenty-year harvest analysis. Forest cover objectives can be viewed as either targets or constraints. In simulation mode, forest cover constraints can be applied that must coincide with harvesting actions. In the optimization approach, targets will be set in **FSOS** which will attempt to develop and schedule harvest units to best achieve a spatial forest structure or the pattern, quantity and geographical arrangement of forest conditions. This is basically the integration of an age group and a patch size as a united target. Although there are no required patch objectives

for the TFL, we will undertake a sensitivity analysis based on the *Biodiversity Guidebook* patch objectives by BEC variant.

In the sensitivity analysis, using the optimization approach, these target distributions (Table 10.2) will receive a high-weighting value (as a measure of relative importance compared to timber volume). This means optimal solutions cannot be achieved unless these target distributions, in large part, are met. *FSOS* should prove successful in enhancing the age classes and patch size distributions within BEC variants while reducing the current degree of fragmentation.

Table 10.2: Management Zones and Forest Cover Objectives – Base Case Scenario

Resource	Zone	AU	THLB Area (ha)	Prod Area (ha)	Cover Requirement					
					Ht 1 (m)	Max % < Ht 1	Ht 2 (m)	Min % > Ht 2	Age 3 (years)	Min % > Age 3 0/70/140 yrs
Multiple Use	IRM	All	3,078	4,120	3.0	33	--	--	--	--
Water Supply	Kenworthy Creek	1,4,7,8,13-15,19,20,94	104	277	7.0 ^(a)	30 ^(a)	--	--	--	--
Visual Quality (RVQC)	PR-H	All	567	728	4.0	5	--	--	--	--
	PR-M		1,433	1,922		10				
	PR-L		1,678	2,300		15				
	M		480	564		20				
BEC Variants	MH	All	206	425					250	14.2/17/19.9
	CWHvm1		1,589	1,948					250	9.7/11.6/13.6
	CWHvm2		373	738					250	9.7/11.6/13.6
	CWHdm		5,126	6,725					250	6.7/8.0/9.4

^a Based on 30% ECA requirement.

*Target values still be determined

Note: Cannell Lake Community Watershed will receive 100% netdown.

Only old seral guidelines will be modeled using a 45/45/10 emphasis since no emphasis has been approved for the landscape unit. A one-third biodiversity option will be used in the Base Case where 1/3 of the low emphasis old-growth target is incrementally added every rotation. 1 rotation = 70 years

10.2.1 Spatial Forest Objectives – Base Case Scenario

Table 10.2.1a: Cutblock Size Requirements in Management Zones

Management Zone	Cutblock Size Targets (ha)
IRM	>10 and <40
Kenworthy Watershed	>5 and <20
VQOs	>5 and <20

Table 10.2.1b: BEC/NDT Patch Objectives

NDT Type	BEC Class	Net Area (ha)	Prod Area (ha)	Patch Distribution (%)			
				<40 ha	40-80 ha	80-250 ha	>250 ha ¹
1	MH mm	206	425				
	CWH vm1	1,589	1,948	35	35	30	0
	CWH vm2	373	738				
2	CWH dm	5,126	6,725	35	35	30	0
	Total	7,294	9,836				

¹Though the target is 0, large patch sizes will not be penalized in older stands in the analysis.

Managing for patch size distributions will be part of the sensitivity analyses. With *FSOS*, there is the potential to manage for smaller patches in the early age classes and, through aggregation, still have larger patches in older stands. Sensitivity analysis will further divide the patch objectives by age class to reflect this. The vision of the desired future condition - patch size distribution within the BEC variant or spatial forest structure - will still be retained. Mission intends to investigate various patch size distributions within the Hatzic landscape unit that may better achieve landscape level objectives.

10.2.2 Forest Cover Requirements Rationale

10.2.2.1 Kenworthy Creek Watershed

The Kenworthy Creek Watershed (approximately 277 ha within the TFL) supplies drinking water to the Hatzic Prairie, east of the District of Mission. As this is defined as a community watershed, Mission's actions, strategically and operationally, must account for the integrity of the watershed and maintain water quality, quantity and timing of flow through carefully planned harvesting and harvest scheduling. This is done by applying the concept of maximum allowable equivalent clearcut area (ECA). ECA measures hydrologic recovery after harvesting.

Based on discussions with Mike Younie in MoELP, a 30% ECA is acceptable for Kenworthy Creek Watershed. ECA is essentially the forested area within a watershed that is in a clearcut state with a reduction factor to account for hydrological recovery due to varying stages of forest regeneration. *FSOS* is able to model ECA by applying a hydrological recovery curve to approximate stage of recovery. Within this timber supply

analysis, the following recovery factors given in Table 10.2.2.1 (*Community Watershed Guidebook*) will be applied.

Table 10.2.2.1: Hydrologic Recovery

Average Stand Height (m)	% Recovery
0 - 2.9 m	0
3.0 - 4.9 m	25
5.0 - 6.9 m	50
7.0 - 8.9 m	75
9.0 m - 12 m	90
12 m +	100

The model determines the non-recovered area for each stand, based on the average stand height. As per table 10.2.2.1, a stand with a mean height of 2 m would be 100% non-recovered, or a stand with a mean height of 6 m would be 50% non-recovered. The non-recovered areas for all stands within the watershed are summed up to determine the total non-recovered area. Finally, the hydrological recovery % is established by dividing the total non-recovered area by the total forested area.

The heights required to calculate the recovery for stands within the watershed will be based on MSYTs for each analysis unit.

10.2.2.2 Visual Quality Objectives

Consistent with the objectives of MP #7, visual quality objectives were updated in 1998/99. This update was a new visual landscape inventory, producing recommended visual quality classes (RVQC) for all the visually sensitive areas within the TFL. Each visually sensitive polygon will receive a planimetric forest cover objective based on the appropriate reduction for each class (Table 10.2).

As per Management Plan #7, the green-up height to be applied to these forest cover objectives, based on visual effectiveness, is 4.0 m.

10.2.2.3 Landscape Level Biodiversity

As per the correspondence *Achieving Acceptable Biodiversity Timber Impacts* (08/25/98), *Incorporating Biodiversity and Landscape Units in the Timber Supply Review* (12/01/97), and *Timber Supply Review Base Case Modeling Assumptions for Biodiversity and Landscape Units* (07/27/98), landscape level biodiversity targets in the base case scenario will only consider old seral requirements based on the 10/45/45 proportion. Table 10.2 identifies the targets that will be applied. Sensitivity analysis (Tables 10.2.2.3a and 10.2.2.3b) will consider inclusion of: (1) the early and mature + old seral rules for the draft "low" biodiversity, and (2) will use targets based on the full application of the draft "low" biodiversity emphasis option. BEC variants outlined in the *Biodiversity Guidebook* will provide the basis for setting patch size and age class distributions.

Table 10.2.2.3a : Biodiversity Sensitivity Scenario #1 – Early and Mature + Old Option

Zone	Cover Requirement					
	Age 1	Max % < Age 1	Age 2 (years)	Min % > Age 2 ^a	Age 3 (years)	Min % > Age 3 ^b
MH	40	n/a	120	30.2	250	14.2/17/19.9
CWHvm1	40	n/a	120	29.7	250	9.7/11.6/13.6
CWHvm2	40	n/a	120	29.7	250	9.7/11.6/13.6
CWHdm	40	n/a	80	26.8	250	6.7/8.0/9.4

^a Includes mature and old percentages^b Based on 10/45/45 old growth rule**Table 10.2.2.3b : Biodiversity Sensitivity Scenario #2 – Low Biodiversity Emphasis Option**

BEC Variant	Cover Requirement					
	Age 1	Max % < Age 1	Age 2 (years)	Min % > Age 2	Age 3 (years)	Min % > Age 3 ^a
MH)	--	--	--	--	250	19
CWHvm1	--	--	--	--	250	13
CWHvm2	--	--	--	--	250	13
CWHdm	--	--	--	--	250	9

^a 1/3 biodiversity may be modeled with low emphasis

Sensitivity analysis specified in the *Tree Farm Licence Information Package Guidelines, Appendix III – Incorporating Biodiversity and Landscape Units in the Timber Supply Review* is aimed at determining the effect of cover constraints on the short and long-term timber supply. Mission will test the viability of the biodiversity guidebook seral/patch targets based on spatial and temporal results. If the results of the guidebook targets are not sensible for this landscape, Mission will investigate the opportunity of “other” more reasonable targets. This will require critical assessments by Mission as well as MoF and MoELP of initial results provided from the model.

In order to aid operational planning, Mission Municipal Forest staff have been in the process of preparing a Landscape Reserve Plan. The purpose of the plan is to assist the forest managers in addressing the spatial and non-spatial issues associated with landscape based management. As a first attempt, the landscape reserve plan will serve to address management issues like wildlife tree patch and old growth reserve requirements through targeting the existing permanent and semi-permanent netdown areas that currently exist in TFL 26. The intent is that the landscape reserve plan will be considered in the timber supply analysis and twenty-year harvest plan development and be tested and improved through the analysis capabilities of **FORUM**. As the plan is not yet completed, Mission Municipal Forest proposes to test the plan on timber supply and non-timber condition including spatial forest pattern through the analysis process. This will be undertaken through a sensitivity analysis and results will be presented in the timber supply analysis report.

10.2.2.4 Adjacent Cutblock Green-up

Silvicultural green-up remains part of current management on TFL 26 requiring a specific tree height before adjacent areas can be harvested. In most timber supply analysis, this cannot be modeled strictly and is usually addressed through cover constraints. **FORUM** is able to spatially account for adjacency green-up through the application of a height limit. Green-up height for the purpose of this analysis will be 3 m in the integrated resource management zone. Other management zones will be managed based on their respective objectives as identified in Table 10.2. This green-up adjacency for the integrated management zone will be subject to a 3 m height adjacency based on 25 ha cutblock size target.

Mission is interested in assessing the viability of a patch management strategy for TFL 26 as compared to a cutblock adjacency strategy. This comparison will consider the ability to reach biodiversity targets for the landscape and design the TFL towards a “desired future condition”. It has been proposed that the amalgamation of cutblocks through time can be crucial to the implementation of a patch/seral strategy consistent with higher-level biodiversity objectives. Strict adjacency will be tested in the base case scenario while other sensitivity analysis will test the application of a patch management strategy for the TFL.

10.3 Timber Harvesting

10.3.1 Minimum Merchantability Standards

Tables 10.3.1a and b specify the minimum merchantability standards for TFL 26. This minimum age requirement has been determined from the yield curves where the stand either meets the minimum volume requirement *or* MAI culmination age, whichever is first. “Good” analysis units will be available for harvest at 600 m³/ha, while 500 m³/ha and 400 m³/ha is the volume for the medium and poor analysis units respectively, unless maximum MAI is achieved first.

Table 10.3.1a: Minimum Merchantability Standards ⁽¹⁾ Natural Stands

Existing Stands				Existing Immature Stands				Existing Mature Stands			
Au	Vol	mai	mha	Au	Vol	mai	mha	Au	Vol	mai	mha
1	600	8.85	68	21	600	8.95	67	41	497	6.63	75
2	443	5.21	85	22	438	5.15	85	42	459	6.12	75
3	277	2.64	105	23	277	2.64	105				
4	600	10.1	60	24	600	10.05	60				
5	411	5.48	75	25	418	5.57	75	45	415	4.89	85
6	288	3.03	95	26	288	3.03	95				
7	600	7.62	79	27	600	7.62	79				
8	462	5.43	85	28	462	5.44	85	48	393	4.13	95
9	293	2.79	105	29	293	2.79	105	49	285	2.71	105
10	215	2.53	85	30	215	2.53	85				
11	408	4.29	95	31	408	4.29	95				
12	338	3.22	105	32	326	3.43	95	52	285	2.48	115
13	553	8.51	65	33	553	8.51	65				
14	476	6.36	75	34	500	8.42	60	54	505	6.73	75
15	308	3.25	95	35	400	6.22	65	55	299	2.84	105
16	414	4.87	85	36	410	4.83	85	56	402	5.36	75
17	355	3.73	95	37	329	3.46	95	57	368	3.2	115
18	229	1.48	155					58	229	1.48	155

¹ Stands will be harvested at MAI culmination or at 600 m³/ha, 500 m³/ha or 400 m³/ha for good, medium and poor sites correspondingly.

Table 10.3.1b: Minimum Merchantability Standards ⁽¹⁾ Managed Stands

Existing Managed - Planted				Existing Managed - Spaced				Future Managed - Planted				Future Managed - Planted & Spaced			
Au	Vol	mai	mha	Au	Vol	mai	mha	Au	Vol	mai	mha	Au	Vol	mai	mha
61	600	11.24	55									101	600	10.25	59
62	500	6.81	75	82	500	6.43	78					102	500	6.4	78
63	297	2.59	115					103	300	2.61	115				
64	600	9.75	59									104	600	9.6	62
65	500	6.75	67	85	500	6.98	69					105	500	6.15	82
66	400	3.23	125					106	304	2.89	105				
67	600	9.60	63									107	600	9.35	64
68	500	6.11	82					109	365	2.70	135	108	500	5.95	83
								110	600	10.1	58				
								111	500	6.83	73				
								112	400	2.97	135				
73	600	9.70	62									113	600	9.17	66
74	500	6.55	77	94	500	6.95	83					114	500	6.77	74
75	400	2.90	139					115	318	2.54	125				
76	600	7.20	83					116	600	7.10	85				
77	456	2.94	155					117	496	3.68	135				
								118	220	1.26	175				

¹ Stands will be harvested at MAI culmination or at 600 m³/ha, 500 m³/ha or 400 m³/ha for good, medium and poor sites correspondingly.

It is likely that the management objectives and forest cover requirements will influence the actual age at harvest, shifting it beyond the actual minimums given in Tables 10.3.1.a and b. The actual age at harvest will be provided in the Timber Supply Analysis report.

10.3.2 Initial Harvest Rate

The initial harvest rate is 45,000 m³ per year. This wood supply equals the current approved AAC that is in effect until December 31, 1999. This will form the initial harvest rate for the base case analysis. Sensitivity analysis and other scenarios will attempt a variety of harvest rates. These results will be detailed in the Timber Supply Analysis report.

10.3.3 Harvest Rules

In the base case analysis, an "oldest first" harvest rule will be applied in order to rank stands for harvest. The oldest stands are selected for harvest once they satisfy minimum harvest age. Stand selection and scheduling for harvest will also be determined by the forest cover rules that are in place. Mission will also attempt to maximize harvest benefit by targeting harvest at 600 m³/ha for all analysis units.

10.3.4 Harvest Profile

Several blocks will be fixed in the timber supply analysis for the model runs. Additional fixed blocks may be added in subsequent analyses. The current harvest profile was determined by the current 5 year development plan (Table 10.3.4).

Table 10.3.4: Harvest Profile vs. Inventory Profile

Analysis Unit	Net Area (ha)	% of Harvest Profile	% of Inventory Profile
1	17.9	6.20	3.29
4	12.4	4.29	7.82
5	15.5	5.37	2.76
6	6.9	2.39	1.51
7	23.8	8.24	7.67
8	9.2	3.18	4.05
9	22.5	7.79	3.30
13	52.9	18.30	29.13
14	92.5	32.02	23.76
15	35.3	12.22	7.29
Total	288.9	100.00	90.58

The table shows that Mission's harvesting plan follows the inventory profile. The same pattern by leading species can be seen in Figure 10.3.1.

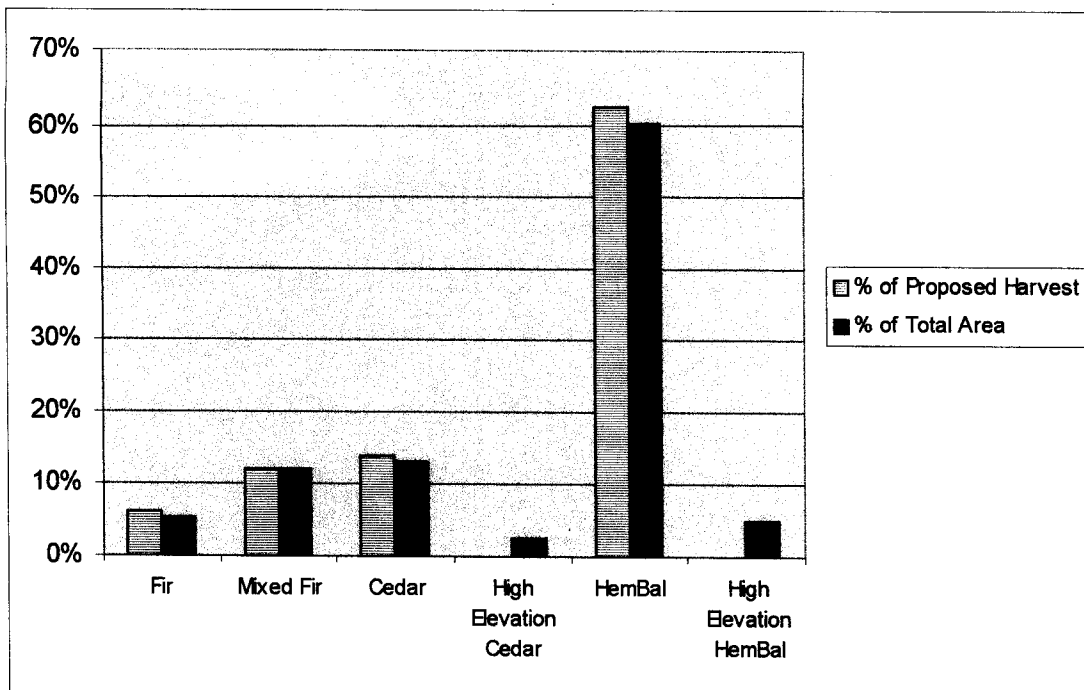


Figure 10.3.1 Harvest Profile by Leading Species

10.3.5 Harvest Flow Objectives

The harvest flow objective will be to achieve an even flow timber level throughout the planning horizon within the base case scenario, while ensuring that the long-term harvest level is appropriately established. If even flow levels result in a decline in the current harvest level of 45,000 m³/year, target levels, which project a declining flow will be implemented over the planning horizon. In case of an even flow at the current harvest level, a long-range maximum harvest level will be investigated by increasing the initial harvest.

Sensitivity analysis with optimization will be based on an even flow objective. Uneven flow will be tested as a sensitivity analysis. The initial runs will guide the direction of further analysis. Following the results of the sensitivity analyses, Mission will select their desired scenario which future management will follow and present it in the Timber Supply/Twenty-Year Analysis report.

APPENDIX I – VDYP Yield Tables

Stand Volume and Diameter Table, Air Method
Douglas Fir 92.0%, Hemlock 6.0%, Western Red Cedar 1.0%
Alder 1.0%

AU1

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 673.7 AGE: 76 MAI: 9.21
LIMIT: 17.5+ VOLUME: 673.7 AGE: 76 MAI: 9.21

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	6.9	0.0	0.0	0.00	0.0	0.0	0.00
25	15.2	22.3	56.8	2.27	22.3	56.8	2.27
35	22.3	25.8	214.9	6.14	25.8	214.9	6.14
45	28.1	29.3	352.0	7.82	29.3	352.0	7.82
55	32.9	33.0	470.8	8.56	33.0	470.8	8.56
65	36.8	36.5	574.1	8.83	36.5	574.1	8.83
75	40.2	40.1	665.2	8.87	40.1	665.2	8.87
85	43.1	43.7	745.0	8.77	43.7	745.0	8.77
95	45.6	47.2	814.3	8.57	47.2	814.3	8.57
105	47.8	50.8	876.1	8.34	50.8	876.1	8.34
115	49.7	54.4	930.7	8.09	54.4	930.7	8.09
125	51.5	57.8	976.0	7.81	57.8	976.0	7.81
135	53.0	61.0	1013.9	7.51	61.0	1013.9	7.51
145	54.4	64.1	1044.4	7.20	64.1	1044.4	7.20
155	55.7	67.1	1067.4	6.89	67.1	1067.4	6.89
165	56.9	69.9	1082.9	6.56	69.9	1082.9	6.56
175	58.0	72.6	1091.1	6.24	72.6	1091.1	6.24
185	59.0	75.4	1098.9	5.94	75.4	1098.9	5.94
195	59.9	78.3	1112.3	5.70	78.3	1112.3	5.70
205	60.8	81.2	1125.9	5.49	81.2	1125.9	5.49
215	61.6	84.1	1139.2	5.30	84.1	1139.2	5.30
225	62.3	87.0	1152.2	5.12	87.0	1152.2	5.12
235	63.0	90.0	1164.9	4.96	90.0	1164.9	4.96
245	63.7	92.9	1177.0	4.80	92.9	1177.0	4.80
255	64.3	94.4	1183.1	4.64	94.4	1183.1	4.64
265	64.9	94.5	1183.5	4.47	94.5	1183.5	4.47
275	65.4	94.6	1183.9	4.31	94.6	1183.9	4.31
285	65.9	94.7	1184.2	4.16	94.7	1184.2	4.16
295	66.4	94.8	1184.4	4.02	94.8	1184.4	4.02

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

NOTE: Species 'CW' Vol/Dia computed using Species Default SI of 30.00

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	Stand Height (m).....	<Not Used>
Core Version Number.....	6.4a	Stand Total Age.....	<Not Used>
Species 1.....	FD (92.0%)	% Crown Closure Supplied.	61.5
Species 2.....	H (6.0%)	Measured Basal Area.....	<Not Used>
Species 3.....	CW (1.0%)	Measured Basal Area Age..	<Not Used>
Species 4.....	DR (1.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
SI (BHA 50) Calc/Supplied	34.0		
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air MethodAU2
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 472.2 AGE: 91 MAI: 5.46
 LIMIT: 17.5+ VOLUME: 472.2 AGE: 91 MAI: 5.46

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	DIA (cm)	(17.5 cm+)			(17.5 cm+)	
			VOL (m**3/ha)	MAI (m**3/ha/yr)		VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	4.6	0.0	0.0	0.00	0.0	0.0	0.00
25	10.7	21.2	0.7	0.03	21.2	0.7	0.03
35	16.0	23.1	76.1	2.17	23.1	76.1	2.17
45	20.3	25.6	172.0	3.82	25.6	172.0	3.82
55	23.8	28.2	254.2	4.62	28.2	254.2	4.62
65	26.7	30.7	325.6	5.01	30.7	325.6	5.01
75	29.2	33.3	388.3	5.18	33.3	388.3	5.18
85	31.3	35.8	443.1	5.21	35.8	443.1	5.21
95	33.1	38.4	490.5	5.16	38.4	490.5	5.16
105	34.6	40.9	532.8	5.07	40.9	532.8	5.07
115	36.0	43.5	570.6	4.96	43.5	570.6	4.96
125	37.3	45.9	602.5	4.82	45.9	602.5	4.82
135	38.4	48.1	628.4	4.65	48.1	628.4	4.65
145	39.4	50.2	648.7	4.47	50.2	648.7	4.47
155	40.3	52.2	663.3	4.28	52.2	663.3	4.28
165	41.1	54.0	672.3	4.07	54.0	672.3	4.07
175	41.8	55.8	675.9	3.86	55.8	675.9	3.86
185	42.5	57.5	679.3	3.67	57.5	679.3	3.67
195	43.1	59.4	686.9	3.52	59.4	686.9	3.52
205	43.7	61.3	694.6	3.39	61.3	694.6	3.39
215	44.3	63.2	702.2	3.27	63.2	702.2	3.27
225	44.8	65.2	709.2	3.15	65.2	709.2	3.15
235	45.3	67.1	715.9	3.05	67.1	715.9	3.05
245	45.7	69.0	722.3	2.95	69.0	722.3	2.95
255	46.1	70.0	725.5	2.85	70.0	725.5	2.85
265	46.5	70.1	725.7	2.74	70.1	725.7	2.74
275	46.9	70.1	725.9	2.64	70.1	725.9	2.64
285	47.3	70.1	726.0	2.55	70.1	726.0	2.55
295	47.6	70.2	726.1	2.46	70.2	726.1	2.46

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (92.0%)	% Crown Closure Supplied. 53.7
Species 2..... H (4.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (4.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 25.1	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU3

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 308.5 AGE: 118 MAI: 2.84
LIMIT: 17.5+ VOLUME: 308.5 AGE: 118 MAI: 2.84

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	DIA (cm)	(17.5 cm+)		DIA (cm)	(17.5 cm+)	
			VOL (m**3/ha)	MAI (m**3/ha/yr)		VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	3.1	0.0	0.0	0.00	0.0	0.0	0.00
25	7.2	0.0	0.0	0.00	0.0	0.0	0.00
35	10.7	21.9	1.9	0.06	21.9	1.9	0.06
45	13.6	22.1	36.7	0.82	22.1	36.7	0.82
55	16.0	23.5	92.2	1.68	23.5	92.2	1.68
65	17.9	25.0	139.7	2.15	25.0	139.7	2.15
75	19.6	26.5	181.3	2.42	26.5	181.3	2.42
85	21.0	28.0	217.5	2.56	28.0	217.5	2.56
95	22.2	29.4	248.9	2.62	29.4	248.9	2.62
105	23.3	30.9	276.8	2.64	30.9	276.8	2.64
115	24.2	32.3	301.6	2.62	32.3	301.6	2.62
125	25.1	33.7	322.6	2.58	33.7	322.6	2.58
135	25.8	34.9	339.7	2.52	34.9	339.7	2.52
145	26.5	36.0	353.1	2.44	36.0	353.1	2.44
155	27.1	36.9	362.9	2.34	36.9	362.9	2.34
165	27.7	37.8	369.0	2.24	37.8	369.0	2.24
175	28.2	38.7	371.6	2.12	38.7	371.6	2.12
185	28.7	39.5	374.0	2.02	39.5	374.0	2.02
195	29.1	40.4	378.5	1.94	40.4	378.5	1.94
205	29.5	41.4	383.1	1.87	41.4	383.1	1.87
215	29.9	42.3	387.5	1.80	42.3	387.5	1.80
225	30.2	43.3	391.6	1.74	43.3	391.6	1.74
235	30.6	44.3	395.6	1.68	44.3	395.6	1.68
245	30.9	45.3	399.2	1.63	45.3	399.2	1.63
255	31.2	45.9	401.3	1.57	45.9	401.3	1.57
265	31.4	45.9	401.9	1.52	45.9	401.9	1.52
275	31.7	46.0	402.5	1.46	46.0	402.5	1.46
285	31.9	46.1	403.0	1.41	46.1	403.0	1.41
295	32.2	46.2	403.5	1.37	46.2	403.5	1.37

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (83.0%)	% Crown Closure Supplied. 60.5
Species 2..... H (12.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (5.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 17.1	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU4
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 699.3 AGE: 69 MAI: 10.51
LIMIT: 17.5+ VOLUME: 699.3 AGE: 69 MAI: 10.51

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	7.1	0.0	0.0	0.00	0.0	0.0	0.00
25	15.6	22.5	80.9	3.24	22.5	80.9	3.24
35	22.9	25.8	262.5	7.50	25.8	262.5	7.50
45	28.8	29.1	417.2	9.27	29.1	417.2	9.27
55	33.7	32.4	547.7	9.96	32.4	547.7	9.96
65	37.8	35.5	659.1	10.14	35.5	659.1	10.14
75	41.2	38.6	755.5	10.07	38.6	755.5	10.07
85	44.2	41.7	837.5	9.85	41.7	837.5	9.85
95	46.7	44.7	904.5	9.52	44.7	904.5	9.52
105	49.0	47.7	961.5	9.16	47.7	961.5	9.16
115	51.0	50.6	1009.4	8.78	50.6	1009.4	8.78
125	52.8	53.5	1051.7	8.41	53.5	1051.7	8.41
135	54.4	56.2	1090.5	8.08	56.2	1090.5	8.08
145	55.9	58.7	1122.2	7.74	58.7	1122.2	7.74
155	57.2	61.1	1147.0	7.40	61.1	1147.0	7.40
165	58.4	63.4	1165.0	7.06	63.4	1165.0	7.06
175	59.5	65.5	1176.9	6.73	65.5	1176.9	6.73
185	60.6	67.7	1188.5	6.42	67.7	1188.5	6.42
195	61.5	70.0	1203.8	6.17	70.0	1203.8	6.17
205	62.4	72.3	1218.9	5.95	72.3	1218.9	5.95
215	63.2	74.6	1233.4	5.74	74.6	1233.4	5.74
225	64.0	76.9	1247.4	5.54	76.9	1247.4	5.54
235	64.7	79.2	1260.8	5.37	79.2	1260.8	5.37
245	65.4	81.4	1273.6	5.20	81.4	1273.6	5.20
255	66.0	82.7	1280.2	5.02	82.7	1280.2	5.02
265	66.6	83.0	1281.0	4.83	83.0	1281.0	4.83
275	67.2	83.3	1281.7	4.66	83.3	1281.7	4.66
285	67.8	83.5	1282.1	4.50	83.5	1282.1	4.50
295	68.3	83.8	1282.4	4.35	83.8	1282.4	4.35

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

NOTE: Species 'CW' Vol/Dia computed using Species Default SI of 30.00

NOTE: Species 'E' Vol/Dia computed using Species Default SI of 25.00

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	34.8
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	FD (58.0%)	Stand Total Age.....	<Not Used>
Species 2.....	H (28.0%)	% Crown Closure Supplied.	64.3
Species 3.....	CW (10.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	E (3.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	DR (1.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU5
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 475.7 AGE: 87 MAI: 5.76
LIMIT: 17.5+ VOLUME: 475.7 AGE: 87 MAI: 5.76

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	DIA (cm)	(17.5 cm+)			(17.5 cm+)	
			VOL (m**3/ha)	MAI (m**3/ha/yr)		VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	4.2	0.0	0.0	0.00	0.0	0.0	0.00
25	9.9	0.0	0.0	0.00	0.0	0.0	0.00
35	14.8	22.5	77.9	2.23	22.5	77.9	2.23
45	18.8	24.6	183.0	4.07	24.6	183.0	4.07
55	22.0	26.7	271.1	4.93	26.7	271.1	4.93
65	24.7	28.8	346.2	5.33	28.8	346.2	5.33
75	27.0	30.8	411.1	5.48	30.8	411.1	5.48
85	28.9	32.8	466.2	5.48	32.8	466.2	5.48
95	30.6	34.7	511.1	5.38	34.7	511.1	5.38
105	32.1	36.6	550.0	5.24	36.6	550.0	5.24
115	33.3	38.6	583.1	5.07	38.6	583.1	5.07
125	34.5	40.4	611.9	4.90	40.4	611.9	4.90
135	35.5	42.1	638.7	4.73	42.1	638.7	4.73
145	36.4	43.6	660.5	4.55	43.6	660.5	4.55
155	37.3	45.0	677.2	4.37	45.0	677.2	4.37
165	38.0	46.4	689.0	4.18	46.4	689.0	4.18
175	38.7	47.6	696.8	3.98	47.6	696.8	3.98
185	39.4	48.8	704.6	3.81	48.8	704.6	3.81
195	39.9	50.1	714.8	3.67	50.1	714.8	3.67
205	40.5	51.4	724.8	3.54	51.4	724.8	3.54
215	41.0	52.7	734.4	3.42	52.7	734.4	3.42
225	41.5	54.1	743.7	3.31	54.1	743.7	3.31
235	41.9	55.4	752.5	3.20	55.4	752.5	3.20
245	42.3	56.8	760.6	3.10	56.8	760.6	3.10
255	42.7	57.6	765.2	3.00	57.6	765.2	3.00
265	43.1	57.8	766.6	2.89	57.8	766.6	2.89
275	43.4	58.0	767.9	2.79	58.0	767.9	2.79
285	43.7	58.2	769.1	2.70	58.2	769.1	2.70
295	44.0	58.4	770.1	2.61	58.4	770.1	2.61

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (54.0%)	% Crown Closure Supplied. 65.1
Species 2..... H (29.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (17.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 23.3	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU6
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
 CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 330.1 AGE: 110 MAI: 3.28
 LIMIT: 17.5+ VOLUME: 330.1 AGE: 110 MAI: 3.28

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	3.2	0.0	0.0	0.00	0.0	0.0	0.00
25	7.4	0.0	0.0	0.00	0.0	0.0	0.00
35	11.0	20.6	3.3	0.09	20.6	3.3	0.09
45	14.0	22.6	54.1	1.20	22.6	54.1	1.20
55	16.4	24.2	117.1	2.13	24.2	117.1	2.13
65	18.4	25.7	170.2	2.62	25.7	170.2	2.62
75	20.1	27.2	215.9	2.88	27.2	215.9	2.88
85	21.5	28.6	255.1	3.00	28.6	255.1	3.00
95	22.8	30.1	288.1	3.03	30.1	288.1	3.03
105	23.9	31.5	316.9	3.02	31.5	316.9	3.02
115	24.8	33.0	341.9	2.97	33.0	341.9	2.97
125	25.7	34.3	363.2	2.91	34.3	363.2	2.91
135	26.4	35.6	382.4	2.83	35.6	382.4	2.83
145	27.1	36.6	397.8	2.74	36.6	397.8	2.74
155	27.8	37.6	409.6	2.64	37.6	409.6	2.64
165	28.3	38.5	417.7	2.53	38.5	417.7	2.53
175	28.9	39.3	422.9	2.42	39.3	422.9	2.42
185	29.3	40.1	428.1	2.31	40.1	428.1	2.31
195	29.8	40.9	434.9	2.23	40.9	434.9	2.23
205	30.2	41.8	441.6	2.15	41.8	441.6	2.15
215	30.6	42.7	448.1	2.08	42.7	448.1	2.08
225	30.9	43.7	454.2	2.02	43.7	454.2	2.02
235	31.3	44.6	460.0	1.96	44.6	460.0	1.96
245	31.6	45.5	465.5	1.90	45.5	465.5	1.90
255	31.9	46.1	468.6	1.84	46.1	468.6	1.84
265	32.2	46.2	469.5	1.77	46.2	469.5	1.77
275	32.4	46.3	470.3	1.71	46.3	470.3	1.71
285	32.7	46.4	471.0	1.65	46.4	471.0	1.65
295	32.9	46.6	471.6	1.60	46.6	471.6	1.60

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (56.0%)	% Crown Closure Supplied. 50.5
Species 2..... H (22.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (19.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... DR (3.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 17.5	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU7
Alder 1.0%, Paper Birch 1.0%
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 756.9 AGE: 103 MAI: 8.18
LIMIT: 17.5+ VOLUME: 756.9 AGE: 103 MAI: 8.18
CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	5.6	0.0	0.0	0.00	0.0	0.0	0.00
25	12.3	21.5	35.7	1.43	21.5	35.7	1.43
35	18.2	24.4	155.8	4.45	24.4	155.8	4.45
45	23.3	27.7	271.2	6.03	27.7	271.2	6.03
55	27.8	31.2	379.4	6.90	31.2	379.4	6.90
65	31.6	34.9	478.7	7.36	34.9	478.7	7.36
75	35.0	38.5	569.9	7.60	38.5	569.9	7.60
85	38.0	42.2	649.3	7.64	42.2	649.3	7.64
95	40.6	45.9	712.4	7.50	45.9	712.4	7.50
105	42.9	49.7	767.2	7.31	49.7	767.2	7.31
115	45.0	53.4	811.7	7.06	53.4	811.7	7.06
125	46.9	57.1	854.2	6.83	57.1	854.2	6.83
135	48.5	60.6	903.5	6.69	60.6	903.5	6.69
145	50.1	63.8	946.7	6.53	63.8	946.7	6.53
155	51.4	66.8	983.4	6.34	66.8	983.4	6.34
165	52.6	69.6	1014.5	6.15	69.6	1014.5	6.15
175	53.7	72.2	1042.9	5.96	72.2	1042.9	5.96
185	54.7	74.6	1071.8	5.79	74.6	1071.8	5.79
195	55.6	77.1	1100.1	5.64	77.1	1100.1	5.64
205	56.5	79.6	1127.1	5.50	79.6	1127.1	5.50
215	57.4	82.4	1157.9	5.39	82.4	1157.9	5.39
225	58.4	85.3	1190.4	5.29	85.3	1190.4	5.29
235	59.3	88.3	1222.0	5.20	88.3	1222.0	5.20
245	60.1	91.2	1252.7	5.11	91.2	1252.7	5.11
255	61.0	92.9	1269.1	4.98	92.9	1269.1	4.98
265	61.7	93.4	1271.8	4.80	93.4	1271.8	4.80
275	62.5	93.9	1274.1	4.63	93.9	1274.1	4.63
285	63.1	94.3	1276.1	4.48	94.3	1276.1	4.48
295	63.8	94.8	1277.9	4.33	94.8	1277.9	4.33

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.
NOTE: Species 'E' Vol/Dia computed using Species Default SI of 25.00
TABLE PROPERTIES:

WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied 29.2
Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... CW (54.0%)	Stand Total Age..... <Not Used>
Species 2..... H (31.0%)	% Crown Closure Supplied. 65.9
Species 3..... FD (13.0%)	Measured Basal Area..... <Not Used>
Species 4..... DR (1.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... E (1.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air MethodAU8

Western Red

DIAMETERS
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 577.8 AGE: 110 MAI: 5.99
 LIMIT: 17.5+ VOLUME: 577.8 AGE: 110 MAI: 5.99

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

(17.5 cm+)					(17.5 cm+)		
TOT	HT	DIA	VOL	MAI	DIA	VOL	MAI
AGE	(m)	(cm)	(m**3/ha)	(m**3/ha/yr)	(cm)	(m**3/ha)	(m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	3.8	0.0	0.0	0.00	0.0	0.0	0.00
25	9.1	0.0	0.0	0.00	0.0	0.0	0.00
35	13.8	22.4	71.8	2.05	22.4	71.8	2.05
45	17.8	24.9	162.4	3.61	24.9	162.4	3.61
55	21.4	27.5	247.3	4.50	27.5	247.3	4.50
65	24.5	30.3	325.8	5.01	30.3	325.8	5.01
75	27.3	33.2	398.2	5.31	33.2	398.2	5.31
85	29.7	36.1	461.9	5.43	36.1	461.9	5.43
95	31.8	39.0	513.1	5.40	39.0	513.1	5.40
105	33.7	42.0	557.7	5.31	42.0	557.7	5.31
115	35.4	45.0	594.0	5.16	45.0	594.0	5.16
125	36.9	47.9	628.0	5.02	47.9	628.0	5.02
135	38.3	50.7	667.7	4.95	50.7	667.7	4.95
145	39.5	53.2	702.5	4.84	53.2	702.5	4.84
155	40.6	55.5	732.5	4.73	55.5	732.5	4.73
165	41.7	57.7	758.0	4.59	57.7	758.0	4.59
175	42.6	59.6	781.3	4.46	59.6	781.3	4.46
185	43.4	61.5	805.4	4.35	61.5	805.4	4.35
195	44.1	63.3	828.8	4.25	63.3	828.8	4.25
205	44.8	65.2	850.9	4.15	65.2	850.9	4.15
215	45.6	67.3	875.2	4.07	67.3	875.2	4.07
225	46.4	69.6	901.3	4.01	69.6	901.3	4.01
235	47.1	71.9	926.7	3.94	71.9	926.7	3.94
245	47.8	74.1	951.4	3.88	74.1	951.4	3.88
255	48.5	75.5	964.9	3.78	75.5	964.9	3.78
265	49.1	75.9	967.5	3.65	75.9	967.5	3.65
275	49.7	76.2	969.8	3.53	76.2	969.8	3.53
285	50.3	76.6	971.9	3.41	76.6	971.9	3.41
295	50.8	77.0	973.8	3.30	77.0	973.8	3.30

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... CW (57.0%)	% Crown Closure Supplied. 69.1
Species 2..... H (31.0%)	Measured Basal Area..... <Not Used>
Species 3..... FD (9.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... YC (3.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 22.9	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU9
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 332.2 AGE: 122 MAI: 3.20
LIMIT: 17.5+ VOLUME: 332.2 AGE: 122 MAI: 3.20

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	2.4	0.0	0.0	0.00	0.0	0.0	0.00
25	5.9	0.0	0.0	0.00	0.0	0.0	0.00
35	9.1	0.0	0.0	0.00	0.0	0.0	0.00
45	11.8	22.1	37.7	0.84	22.1	37.7	0.84
55	14.3	23.6	90.4	1.64	23.6	90.4	1.64
65	16.5	25.3	141.4	2.18	25.3	141.4	2.18
75	18.4	27.1	187.8	2.50	27.1	187.8	2.50
85	20.0	28.9	228.9	2.69	28.9	228.9	2.69
95	21.5	30.7	263.0	2.77	30.7	263.0	2.77
105	22.9	32.6	292.9	2.79	32.6	292.9	2.79
115	24.1	34.5	317.6	2.76	34.5	317.6	2.76
125	25.1	36.4	340.2	2.72	36.4	340.2	2.72
135	26.1	38.1	365.0	2.70	38.1	365.0	2.70
145	27.0	39.6	386.7	2.67	39.6	386.7	2.67
155	27.8	41.0	405.4	2.62	41.0	405.4	2.62
165	28.5	42.3	421.0	2.55	42.3	421.0	2.55
175	29.1	43.4	435.3	2.49	43.4	435.3	2.49
185	29.7	44.4	449.9	2.43	44.4	449.9	2.43
195	30.3	45.4	464.1	2.38	45.4	464.1	2.38
205	30.7	46.5	477.5	2.33	46.5	477.5	2.33
215	31.3	47.6	491.8	2.29	47.6	491.8	2.29
225	31.8	48.9	507.5	2.26	48.9	507.5	2.26
235	32.4	50.2	522.8	2.22	50.2	522.8	2.22
245	32.9	51.6	537.5	2.19	51.6	537.5	2.19
255	33.3	52.4	545.9	2.14	52.4	545.9	2.14
265	33.8	52.7	548.4	2.07	52.7	548.4	2.07
275	34.2	52.9	550.6	2.00	52.9	550.6	2.00
285	34.6	53.2	552.6	1.94	53.2	552.6	1.94
295	35.0	53.5	554.4	1.88	53.5	554.4	1.88

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied 15.6
Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... CW (55.0%)	Stand Total Age..... <Not Used>
Species 2..... H (30.0%)	% Crown Closure Supplied. 52.8
Species 3..... FD (8.0%)	Measured Basal Area..... <Not Used>
Species 4..... B (6.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... YC (1.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
 Yellow Cedar 40.0%, Hemlock 30.0%, Western Red Cedar 20.0%
 True Fir 10.0%

AU10

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
 CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 269.6 AGE: 110 MAI: 2.73
 LIMIT: 17.5+ VOLUME: 269.6 AGE: 110 MAI: 2.73

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	5.5	0.0	0.0	0.00	0.0	0.0	0.00
25	12.2	21.5	9.7	0.39	21.5	9.7	0.39
35	18.1	24.3	50.6	1.44	24.3	50.6	1.44
45	23.1	27.3	88.5	1.97	27.3	88.5	1.97
55	27.6	30.5	124.1	2.26	30.5	124.1	2.26
65	31.4	33.8	157.0	2.42	33.8	157.0	2.42
75	34.7	37.2	187.5	2.50	37.2	187.5	2.50
85	37.7	40.6	215.1	2.53	40.6	215.1	2.53
95	40.3	44.1	238.6	2.51	44.1	238.6	2.51
105	42.6	47.6	259.8	2.47	47.6	259.8	2.47
115	44.7	51.1	277.8	2.42	51.1	277.8	2.42
125	46.6	54.7	294.6	2.36	54.7	294.6	2.36
135	48.2	58.1	313.0	2.32	58.1	313.0	2.32
145	49.7	61.2	329.3	2.27	61.2	329.3	2.27
155	51.1	64.2	343.5	2.22	64.2	343.5	2.22
165	52.3	67.0	355.8	2.16	67.0	355.8	2.16
175	53.4	69.6	367.6	2.10	69.6	367.6	2.10
185	54.4	72.0	379.9	2.05	72.0	379.9	2.05
195	55.3	74.4	391.9	2.01	74.4	391.9	2.01
205	56.1	76.9	403.4	1.97	76.9	403.4	1.97
215	57.0	79.6	416.1	1.94	79.6	416.1	1.94
225	58.0	82.4	429.5	1.91	82.4	429.5	1.91
235	58.9	85.2	442.6	1.88	85.2	442.6	1.88
245	59.8	88.0	455.4	1.86	88.0	455.4	1.86
255	60.6	89.8	461.9	1.81	89.8	461.9	1.81
265	61.3	90.4	462.2	1.74	90.4	462.2	1.74
275	62.1	91.0	462.5	1.68	91.0	462.5	1.68
285	62.7	91.6	462.6	1.62	91.6	462.6	1.62
295	63.4	92.2	462.7	1.57	92.2	462.7	1.57

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... YC (40.0%)	% Crown Closure Supplied. 5.0
Species 2..... H (30.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (20.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... B (10.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 29.0	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
 Yellow Cedar 55.0%, Western Red Cedar 23.0%, Hemlock 10.0%
 True Fir 9.0%, Douglas Fir 3.0%

AU11

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 485.6 AGE: 115 MAI: 4.78
LIMIT: 17.5+ VOLUME: 485.6 AGE: 115 MAI: 4.78

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	3.9	0.0	0.0	0.00	0.0	0.0	0.00
25	9.2	0.0	0.0	0.00	0.0	0.0	0.00
35	13.8	22.5	52.8	1.51	22.5	52.8	1.51
45	17.9	25.1	122.5	2.72	25.1	122.5	2.72
55	21.5	27.8	188.5	3.43	27.8	188.5	3.43
65	24.7	30.7	250.4	3.85	30.7	250.4	3.85
75	27.4	33.8	308.4	4.11	33.8	308.4	4.11
85	29.8	36.9	361.4	4.25	36.9	361.4	4.25
95	31.9	40.1	407.5	4.29	40.1	407.5	4.29
105	33.8	43.3	449.6	4.28	43.3	449.6	4.28
115	35.5	46.6	485.6	4.22	46.6	485.6	4.22
125	37.1	49.9	518.5	4.15	49.9	518.5	4.15
135	38.5	53.1	554.0	4.10	53.1	554.0	4.10
145	39.7	55.9	585.5	4.04	55.9	585.5	4.04
155	40.8	58.5	613.2	3.96	58.5	613.2	3.96
165	41.8	61.0	637.1	3.86	61.0	637.1	3.86
175	42.7	63.2	659.8	3.77	63.2	659.8	3.77
185	43.6	65.3	683.7	3.70	65.3	683.7	3.70
195	44.3	67.3	706.8	3.62	67.3	706.8	3.62
205	45.0	69.5	729.0	3.56	69.5	729.0	3.56
215	45.8	71.8	753.2	3.50	71.8	753.2	3.50
225	46.6	74.3	779.0	3.46	74.3	779.0	3.46
235	47.3	76.8	804.4	3.42	76.8	804.4	3.42
245	48.0	79.4	829.3	3.38	79.4	829.3	3.38
255	48.7	80.8	842.0	3.30	80.8	842.0	3.30
265	49.3	81.0	842.8	3.18	81.0	842.8	3.18
275	49.9	81.3	843.5	3.07	81.3	843.5	3.07
285	50.5	81.5	844.1	2.96	81.5	844.1	2.96
295	51.0	81.8	844.6	2.86	81.8	844.6	2.86

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI#(BHA 50) Calc/Supplied	23.0
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	YC (55.0%)	Stand Total Age.....	<Not Used>
Species 2.....	CW (23.0%)	% Crown Closure Supplied.	12.9
Species 3.....	H (10.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	B (9.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	FD (3.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU12
True Fir 13.0%

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 372.9 AGE: 118 MAI: 3.62
LIMIT: 17.5+ VOLUME: 372.9 AGE: 118 MAI: 3.62

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	2.6	0.0	0.0	0.00	0.0	0.0	0.00
25	6.5	0.0	0.0	0.00	0.0	0.0	0.00
35	9.9	20.4	4.9	0.14	20.4	4.9	0.14
45	13.0	22.4	60.9	1.35	22.4	60.9	1.35
55	15.7	24.2	119.8	2.18	24.2	119.8	2.18
65	18.0	26.1	173.9	2.68	26.1	173.9	2.68
75	20.1	28.1	223.4	2.98	28.1	223.4	2.98
85	21.9	30.1	267.5	3.15	30.1	267.5	3.15
95	23.5	32.1	304.9	3.21	32.1	304.9	3.21
105	24.9	34.2	338.1	3.22	34.2	338.1	3.22
115	26.2	36.2	365.9	3.18	36.2	365.9	3.18
125	27.4	38.3	391.2	3.13	38.3	391.2	3.13
135	28.5	40.2	418.5	3.10	40.2	418.5	3.10
145	29.4	42.0	442.5	3.05	42.0	442.5	3.05
155	30.3	43.5	463.4	2.99	43.5	463.4	2.99
165	31.0	45.0	481.1	2.92	45.0	481.1	2.92
175	31.8	46.3	497.7	2.84	46.3	497.7	2.84
185	32.4	47.4	514.7	2.78	47.4	514.7	2.78
195	33.0	48.5	530.9	2.72	48.5	530.9	2.72
205	33.5	49.7	546.3	2.67	49.7	546.3	2.67
215	34.1	51.0	562.7	2.62	51.0	562.7	2.62
225	34.7	52.4	580.7	2.58	52.4	580.7	2.58
235	35.2	53.8	598.1	2.55	53.8	598.1	2.55
245	35.8	55.2	614.9	2.51	55.2	614.9	2.51
255	36.3	56.1	624.7	2.45	56.1	624.7	2.45
265	36.8	56.5	627.5	2.37	56.5	627.5	2.37
275	37.3	56.8	630.1	2.29	56.8	630.1	2.29
285	37.7	57.1	632.5	2.22	57.1	632.5	2.22
295	38.1	57.5	634.6	2.15	57.5	634.6	2.15

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	Stand Height (m).....	<Not Used>
Core Version Number.....	6.4a	Stand Total Age.....	<Not Used>
Species 1.....	CW (32.0%)	% Crown Closure Supplied.	50.0
Species 2.....	YC (29.0%)	Measured Basal Area.....	<Not Used>
Species 3.....	H (26.0%)	Measured Basal Area Age..	<Not Used>
Species 4.....	B (13.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
SI (BHA 50) Calc/Supplied	17.0		

Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT

Stand Volume and Diameter Table, Air Method
Hemlock 62.0%, Western Red Cedar 22.0%, Douglas Fir 12.0%
True Fir 2.0%, Alder 1.0%, Paper Birch 1.0%

AU13

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 604.4 AGE: 71 MAI: 8.85

LIMIT: 17.5+ VOLUME: 604.4 AGE: 71 MAI: 8.85

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

(17.5 cm+)			(17.5 cm+)		
TOT	HT	DIA	VOL	MAI	DIA
AGE	(m)	(cm)	(m**3/ha)	(m**3/ha/yr)	(cm)
5	1.3	0.0	0.0	0.00	0.0
15	7.0	0.0	0.0	0.00	0.0
25	14.1	22.8	77.2	3.09	22.8
35	20.4	26.1	223.4	6.38	26.1
45	25.6	29.5	349.4	7.76	29.5
55	30.1	32.8	458.5	8.34	32.8
65	34.0	36.1	553.3	8.51	36.1
75	37.3	39.3	636.3	8.48	39.3
85	40.2	42.4	705.3	8.30	42.4
95	42.7	45.4	758.4	7.98	45.4
105	45.0	48.4	802.9	7.65	48.4
115	47.0	51.3	838.8	7.29	51.3
125	48.8	54.1	873.5	6.99	54.1
135	50.4	56.8	912.7	6.76	56.8
145	51.9	59.3	946.9	6.53	59.3
155	53.3	61.7	976.5	6.30	61.7
165	54.5	64.0	1002.0	6.07	64.0
175	55.6	66.2	1024.7	5.86	66.2
185	56.7	68.3	1046.6	5.66	68.3
195	57.6	70.4	1067.7	5.48	70.4
205	58.5	72.5	1087.4	5.30	72.5
215	59.3	74.6	1105.9	5.14	74.6
225	60.1	76.7	1123.2	4.99	76.7
235	60.8	78.7	1139.4	4.85	78.7
245	61.5	80.8	1154.6	4.71	80.8
255	62.1	82.3	1164.0	4.56	82.3
265	62.7	83.2	1168.0	4.41	83.2
275	63.3	84.2	1171.4	4.26	84.2
285	63.8	85.1	1174.2	4.12	85.1
295	64.3	86.0	1176.5	3.99	86.0

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

NOTE: Species 'CW' Vol/Dia computed using Species Default SI of 30.00

NOTE: Species 'B' Vol/Dia computed using Species Default SI of 30.00

NOTE: Species 'E' Vol/Dia computed using Species Default SI of 25.00

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI ₂ (BHA 50) Calc/Supplied	30.2
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	H (62.0%)	Stand Total Age.....	<Not Used>
Species 2.....	CW (22.0%)	% Crown Closure Supplied.	65.8
Species 3.....	FD (12.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	B (2.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	DR (1.0%)	Stocking Class.....	0
Species 6.....	E (1.0%)	PSYU Special Cruise #....	342
Method.....	Air	PSYU Subcode/TFL Block...	0
Forest Inventory Zone....	C	Starting Total Age.....	5
Utilization Level 1.....	17.5	Finishing Total Age.....	300
Utilization Level 2.....	17.5	Age Increment.....	10
Adjustment Factor.....	1.00		
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air MethodAU14
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

Hemlock 61

CULMINATION VALUES

LIMIT:	17.5+	VOLUME:	543.6	AGE:	86	MAI:	6.68
LIMIT:	17.5+	VOLUME:	543.6	AGE:	86	MAI:	6.68

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	DIA (cm)	(17.5 cm+)		DIA (cm)	(17.5 cm+)	
			VOL (m**3/ha)	MAI (m**3/ha/yr)		VOL (m**3/ha)	MAI (m**3/ha/yr)
5	1.1	0.0	0.0	0.00	0.0	0.0	0.00
15	5.2	0.0	0.0	0.00	0.0	0.0	0.00
25	10.7	21.6	11.5	0.46	21.6	11.5	0.46
35	15.8	23.9	123.2	3.52	23.9	123.2	3.52
45	20.3	26.6	229.1	5.09	26.6	229.1	5.09
55	24.2	29.3	322.1	5.86	29.3	322.1	5.86
65	27.5	32.0	404.1	6.22	32.0	404.1	6.22
75	30.4	34.7	476.7	6.36	34.7	476.7	6.36
85	33.0	37.3	538.4	6.33	37.3	538.4	6.33
95	35.3	39.9	587.3	6.18	39.9	587.3	6.18
105	37.4	42.4	628.9	5.99	42.4	628.9	5.99
115	39.2	45.0	663.2	5.77	45.0	663.2	5.77
125	40.9	47.4	695.9	5.57	47.4	695.9	5.57
135	42.4	49.8	732.4	5.42	49.8	732.4	5.42
145	43.8	52.0	764.6	5.27	52.0	764.6	5.27
155	45.0	54.1	792.9	5.12	54.1	792.9	5.12
165	46.2	56.1	817.5	4.95	56.1	817.5	4.95
175	47.2	58.0	839.5	4.80	58.0	839.5	4.80
185	48.2	59.8	860.8	4.65	59.8	860.8	4.65
195	49.1	61.7	881.1	4.52	61.7	881.1	4.52
205	50.0	63.5	900.3	4.39	63.5	900.3	4.39
215	50.8	65.4	918.4	4.27	65.4	918.4	4.27
225	51.5	67.2	935.4	4.16	67.2	935.4	4.16
235	52.2	69.1	951.3	4.05	69.1	951.3	4.05
245	52.9	70.9	966.4	3.94	70.9	966.4	3.94
255	53.5	72.2	976.1	3.83	72.2	976.1	3.83
265	54.1	73.1	980.8	3.70	73.1	980.8	3.70
275	54.6	73.9	984.9	3.58	73.9	984.9	3.58
285	55.1	74.7	988.5	3.47	74.7	988.5	3.47
295	55.6	75.5	991.6	3.36	75.5	991.6	3.36

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied 24.5
Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... H (61.0%)	Stand Total Age..... <Not Used>
Species 2..... CW (24.0%)	% Crown Closure Supplied. 67.5
Species 3..... FD (12.0%)	Measured Basal Area..... <Not Used>
Species 4..... B (2.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... DR (1.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU15
True Fir 2.0%

Hemlock (

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 372.5 AGE: 117 MAI: 3.60
LIMIT: 17.5+ VOLUME: 372.5 AGE: 117 MAI: 3.60

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	3.3	0.0	0.0	0.00	0.0	0.0	0.00
25	6.5	0.0	0.0	0.00	0.0	0.0	0.00
35	9.9	20.2	1.7	0.05	20.2	1.7	0.05
45	12.9	23.0	55.9	1.24	23.0	55.9	1.24
55	15.6	24.4	119.4	2.17	24.4	119.4	2.17
65	17.9	26.1	175.9	2.71	26.1	175.9	2.71
75	20.1	27.9	226.9	3.03	27.9	226.9	3.03
85	22.0	29.6	271.5	3.19	29.6	271.5	3.19
95	23.7	31.3	308.4	3.25	31.3	308.4	3.25
105	25.3	33.0	340.5	3.24	33.0	340.5	3.24
115	26.7	34.8	367.8	3.20	34.8	367.8	3.20
125	28.0	36.5	393.2	3.15	36.5	393.2	3.15
135	29.2	38.1	420.2	3.11	38.1	420.2	3.11
145	30.3	39.6	444.3	3.06	39.6	444.3	3.06
155	31.3	41.1	465.6	3.00	41.1	465.6	3.00
165	32.2	42.4	484.3	2.93	42.4	484.3	2.93
175	33.1	43.7	501.2	2.86	43.7	501.2	2.86
185	33.9	44.9	517.6	2.80	44.9	517.6	2.80
195	34.7	46.2	533.5	2.74	46.2	533.5	2.74
205	35.4	47.5	548.5	2.68	47.5	548.5	2.68
215	36.0	48.8	562.6	2.62	48.8	562.6	2.62
225	36.6	50.0	576.0	2.56	50.0	576.0	2.56
235	37.2	51.3	588.6	2.50	51.3	588.6	2.50
245	37.8	52.6	600.5	2.45	52.6	600.5	2.45
255	38.3	53.6	608.5	2.39	53.6	608.5	2.39
265	38.8	54.2	612.8	2.31	54.2	612.8	2.31
275	39.2	54.8	616.7	2.24	54.8	616.7	2.24
285	39.7	55.3	620.2	2.18	55.3	620.2	2.18
295	40.1	55.9	623.3	2.11	55.9	623.3	2.11

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... H (60.0%)	% Crown Closure Supplied. 57.1
Species 2..... CW (26.0%)	Measured Basal Area..... <Not Used>
Species 3..... FD (12.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... B (2.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 16.1	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
Hemlock 55.0%, True Fir 15.0%, Western Red Cedar 14.0%
Yellow Cedar 10.0%, Douglas Fir 6.0%

AU16

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 435.1 AGE: 90 MAI: 5.14
LIMIT: 17.5+ VOLUME: 435.1 AGE: 90 MAI: 5.14

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	1.0	0.0	0.0	0.00	0.0	0.0	0.00
15	4.6	0.0	0.0	0.00	0.0	0.0	0.00
25	9.6	0.0	0.0	0.00	0.0	0.0	0.00
35	14.3	23.1	75.5	2.16	23.1	75.5	2.16
45	18.5	25.4	162.9	3.62	25.4	162.9	3.62
55	22.1	27.7	238.8	4.34	27.7	238.8	4.34
65	25.2	30.0	305.4	4.70	30.0	305.4	4.70
75	28.0	32.3	364.1	4.85	32.3	364.1	4.85
85	30.5	34.5	414.1	4.87	34.5	414.1	4.87
95	32.6	36.8	454.5	4.78	36.8	454.5	4.78
105	34.6	39.1	489.1	4.66	39.1	489.1	4.66
115	36.4	41.3	517.9	4.50	41.3	517.9	4.50
125	37.9	43.6	544.8	4.36	43.6	544.8	4.36
135	39.4	45.7	574.0	4.25	45.7	574.0	4.25
145	40.7	47.7	599.8	4.14	47.7	599.8	4.14
155	41.9	49.7	622.5	4.02	49.7	622.5	4.02
165	43.1	51.6	642.3	3.89	51.6	642.3	3.89
175	44.1	53.3	660.2	3.77	53.3	660.2	3.77
185	45.0	55.0	677.5	3.66	55.0	677.5	3.66
195	45.9	56.6	693.6	3.56	56.6	693.6	3.56
205	46.7	58.3	708.6	3.46	58.3	708.6	3.46
215	47.5	59.9	722.6	3.36	59.9	722.6	3.36
225	48.2	61.5	735.6	3.27	61.5	735.6	3.27
235	48.9	63.1	747.8	3.18	63.1	747.8	3.18
245	49.5	64.7	759.0	3.10	64.7	759.0	3.10
255	50.1	65.9	765.9	3.00	65.9	765.9	3.00
265	50.7	66.8	768.4	2.90	66.8	768.4	2.90
275	51.2	67.6	770.6	2.80	67.6	770.6	2.80
285	51.7	68.4	772.2	2.71	68.4	772.2	2.71
295	52.2	69.2	773.5	2.62	69.2	773.5	2.62

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	22.5
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	H (55.0%)	Stand Total Age.....	<Not Used>
Species 2.....	B (15.0%)	% Crown Closure Supplied.	27.2
Species 3.....	CW (14.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	YC (10.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	FD (6.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU17
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 410.7 AGE: 111 MAI: 4.05
 LIMIT: 17.5+ VOLUME: 410.7 AGE: 111 MAI: 4.05

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	3.3	0.0	0.0	0.00	0.0	0.0	0.00
25	6.4	0.0	0.0	0.00	0.0	0.0	0.00
35	9.7	20.6	3.3	0.10	20.6	3.3	0.10
45	12.7	22.7	75.3	1.67	22.7	75.3	1.67
55	15.4	24.4	145.6	2.65	24.4	145.6	2.65
65	17.7	26.1	208.2	3.20	26.1	208.2	3.20
75	19.8	27.7	264.1	3.52	27.7	264.1	3.52
85	21.7	29.4	313.1	3.68	29.4	313.1	3.68
95	23.4	31.2	354.7	3.73	31.2	354.7	3.73
105	25.0	32.9	391.2	3.73	32.9	391.2	3.73
115	26.4	34.6	422.6	3.67	34.6	422.6	3.67
125	27.7	36.3	451.9	3.62	36.3	451.9	3.62
135	28.9	38.0	482.0	3.57	38.0	482.0	3.57
145	29.9	39.6	509.3	3.51	39.6	509.3	3.51
155	30.9	41.2	533.9	3.44	41.2	533.9	3.44
165	31.9	42.7	556.1	3.37	42.7	556.1	3.37
175	32.7	44.1	576.6	3.29	44.1	576.6	3.29
185	33.5	45.4	596.1	3.22	45.4	596.1	3.22
195	34.3	46.6	614.5	3.15	46.6	614.5	3.15
205	35.0	47.8	631.7	3.08	47.8	631.7	3.08
215	35.6	48.9	647.8	3.01	48.9	647.8	3.01
225	36.2	49.9	663.0	2.95	49.9	663.0	2.95
235	36.8	51.0	677.3	2.88	51.0	677.3	2.88
245	37.4	52.2	690.7	2.82	52.2	690.7	2.82
255	37.9	53.2	701.0	2.75	53.2	701.0	2.75
265	38.4	54.0	708.5	2.67	54.0	708.5	2.67
275	38.8	54.8	715.4	2.60	54.8	715.4	2.60
285	39.3	55.6	721.7	2.53	55.6	721.7	2.53
295	39.7	56.4	727.6	2.47	56.4	727.6	2.47

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	15.9
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	H (46.0%)	Stand Total Age.....	<Not Used>
Species 2.....	B (35.0%)	% Crown Closure Supplied.	56.5
Species 3.....	YC (12.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	CW (5.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	FD (2.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU18
 Western Red Cedar 3.0%
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
 CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 236.7 AGE: 160 MAI: 1.65

LIMIT: 17.5+ VOLUME: 236.7 AGE: 160 MAI: 1.65
 CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	2.3	0.0	0.0	0.00	0.0	0.0	0.00
25	3.8	0.0	0.0	0.00	0.0	0.0	0.00
35	5.6	0.0	0.0	0.00	0.0	0.0	0.00
45	7.2	0.0	0.0	0.00	0.0	0.0	0.00
55	8.8	20.6	1.9	0.03	20.6	1.9	0.03
65	10.1	22.0	18.1	0.28	22.0	18.1	0.28
75	11.4	23.0	51.8	0.69	23.0	51.8	0.69
85	12.5	23.9	82.4	0.97	23.9	82.4	0.97
95	13.6	24.9	109.5	1.15	24.9	109.5	1.15
105	14.5	25.9	134.0	1.28	25.9	134.0	1.28
115	15.4	26.9	155.6	1.35	26.9	155.6	1.35
125	16.2	27.9	175.4	1.40	27.9	175.4	1.40
135	17.0	28.8	195.0	1.44	28.8	195.0	1.44
145	17.7	29.7	212.8	1.47	29.7	212.8	1.47
155	18.3	30.6	229.1	1.48	30.6	229.1	1.48
165	18.9	31.4	243.9	1.48	31.4	243.9	1.48
175	19.5	32.1	257.7	1.47	32.1	257.7	1.47
185	20.0	32.7	271.0	1.46	32.7	271.0	1.46
195	20.5	33.3	283.6	1.45	33.3	283.6	1.45
205	21.0	33.9	295.6	1.44	33.9	295.6	1.44
215	21.4	34.4	306.9	1.43	34.4	306.9	1.43
225	21.9	35.0	317.6	1.41	35.0	317.6	1.41
235	22.3	35.5	327.7	1.39	35.5	327.7	1.39
245	22.6	36.1	337.4	1.38	36.1	337.4	1.38
255	23.0	36.6	345.0	1.35	36.6	345.0	1.35
265	23.3	37.0	350.7	1.32	37.0	350.7	1.32
275	23.6	37.4	356.1	1.29	37.4	356.1	1.29
285	23.9	37.9	361.1	1.27	37.9	361.1	1.27
295	24.2	38.3	365.8	1.24	38.3	365.8	1.24

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... H (50.0%)	% Crown Closure Supplied. 53.7
Species 2..... B (26.0%)	Measured Basal Area..... <Not Used>
Species 3..... YC (21.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... CW (3.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment. 10
SI (BHA 50) Calc/Supplied 9.2	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
Douglas Fir 92.0%, Hemlock 6.0%, Western Red Cedar 1.0%
Alder 1.0%

AU21

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 673.0 AGE: 75 MAI: 9.32
LIMIT: 17.5+ VOLUME: 673.0 AGE: 75 MAI: 9.32

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	6.9	0.0	0.0	0.00	0.0	0.0	0.00
25	15.3	22.3	59.2	2.37	22.3	59.2	2.37
35	22.4	25.8	218.6	6.24	25.8	218.6	6.24
45	28.3	29.4	356.9	7.93	29.4	356.9	7.93
55	33.1	33.0	476.7	8.67	33.0	476.7	8.67
65	37.1	36.6	581.0	8.94	36.6	581.0	8.94
75	40.5	40.2	673.0	8.97	40.2	673.0	8.97
85	43.4	43.8	753.6	8.87	43.8	753.6	8.87
95	45.9	47.4	823.6	8.67	47.4	823.6	8.67
105	48.1	51.0	886.1	8.44	51.0	886.1	8.44
115	50.1	54.6	941.0	8.18	54.6	941.0	8.18
125	51.8	58.0	986.8	7.89	58.0	986.8	7.89
135	53.4	61.3	1025.2	7.59	61.3	1025.2	7.59
145	54.8	64.4	1056.1	7.28	64.4	1056.1	7.28
155	56.1	67.4	1079.4	6.96	67.4	1079.4	6.96
165	57.3	70.2	1095.3	6.64	70.2	1095.3	6.64
175	58.4	73.0	1103.7	6.31	73.0	1103.7	6.31
185	59.4	75.8	1111.7	6.01	75.8	1111.7	6.01
195	60.3	78.7	1125.3	5.77	78.7	1125.3	5.77
205	61.2	81.6	1139.1	5.56	81.6	1139.1	5.56
215	62.0	84.5	1152.7	5.36	84.5	1152.7	5.36
225	62.7	87.5	1165.9	5.18	87.5	1165.9	5.18
235	63.4	90.4	1178.8	5.02	90.4	1178.8	5.02
245	64.1	93.4	1191.1	4.86	93.4	1191.1	4.86
255	64.7	94.9	1197.4	4.70	94.9	1197.4	4.70
265	65.3	95.0	1197.8	4.52	95.0	1197.8	4.52
275	65.9	95.1	1198.2	4.36	95.1	1198.2	4.36
285	66.4	95.2	1198.5	4.21	95.2	1198.5	4.21
295	66.9	95.3	1198.7	4.06	95.3	1198.7	4.06

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.
NOTE: Species 'CW' Vol/Dia computed using Species Default SI of 30.00

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (92.0%)	% Crown Closure Supplied. 62.2
Species 2..... H (6.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (1.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... DR (1.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 34.2	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
Douglas Fir 92.0%, Hemlock 4.0%, Western Red Cedar 4.0%
VOLUMES ARE PER HECTARE

AU22

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 467.0 AGE: 91 MAI: 5.40
LIMIT: 17.5+ VOLUME: 467.0 AGE: 91 MAI: 5.40

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	4.6	0.0	0.0	0.00	0.0	0.0	0.00
25	10.7	21.2	0.6	0.02	21.2	0.6	0.02
35	15.9	23.1	74.1	2.12	23.1	74.1	2.12
45	20.2	25.6	169.3	3.76	25.6	169.3	3.76
55	23.7	28.2	250.9	4.56	28.2	250.9	4.56
65	26.6	30.8	321.7	4.95	30.8	321.7	4.95
75	29.1	33.3	383.8	5.12	33.3	383.8	5.12
85	31.1	35.9	438.1	5.15	35.9	438.1	5.15
95	32.9	38.4	485.2	5.11	38.4	485.2	5.11
105	34.5	41.0	527.1	5.02	41.0	527.1	5.02
115	35.9	43.5	564.6	4.91	43.5	564.6	4.91
125	37.1	46.0	596.2	4.77	46.0	596.2	4.77
135	38.2	48.2	621.9	4.61	48.2	621.9	4.61
145	39.2	50.2	642.0	4.43	50.2	642.0	4.43
155	40.1	52.2	656.5	4.24	52.2	656.5	4.24
165	40.9	54.1	665.4	4.03	54.1	665.4	4.03
175	41.6	55.8	668.9	3.82	55.8	668.9	3.82
185	42.3	57.5	672.2	3.63	57.5	672.2	3.63
195	43.0	59.4	679.7	3.49	59.4	679.7	3.49
205	43.6	61.3	687.4	3.35	61.3	687.4	3.35
215	44.1	63.2	695.0	3.23	63.2	695.0	3.23
225	44.6	65.2	701.9	3.12	65.2	701.9	3.12
235	45.1	67.1	708.5	3.02	67.1	708.5	3.02
245	45.5	69.0	714.9	2.92	69.0	714.9	2.92
255	45.9	70.0	718.1	2.82	70.0	718.1	2.82
265	46.3	70.1	718.3	2.71	70.1	718.3	2.71
275	46.7	70.1	718.4	2.61	70.1	718.4	2.61
285	47.1	70.2	718.5	2.52	70.2	718.5	2.52
295	47.4	70.2	718.6	2.44	70.2	718.6	2.44

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (92.0%)	% Crown Closure Supplied. 52.2
Species 2..... H (4.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (4.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 25.0	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU23

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 308.5 AGE: 118 MAI: 2.84

LIMIT: 17.5+ VOLUME: 308.5 AGE: 118 MAI: 2.84

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	3.1	0.0	0.0	0.00	0.0	0.0	0.00
25	7.2	0.0	0.0	0.00	0.0	0.0	0.00
35	10.7	21.9	1.9	0.06	21.9	1.9	0.06
45	13.6	22.1	36.7	0.82	22.1	36.7	0.82
55	16.0	23.5	92.2	1.68	23.5	92.2	1.68
65	17.9	25.0	139.7	2.15	25.0	139.7	2.15
75	19.6	26.5	181.3	2.42	26.5	181.3	2.42
85	21.0	28.0	217.5	2.56	28.0	217.5	2.56
95	22.2	29.4	248.9	2.62	29.4	248.9	2.62
105	23.3	30.9	276.8	2.64	30.9	276.8	2.64
115	24.2	32.3	301.6	2.62	32.3	301.6	2.62
125	25.1	33.7	322.6	2.58	33.7	322.6	2.58
135	25.8	34.9	339.7	2.52	34.9	339.7	2.52
145	26.5	36.0	353.1	2.44	36.0	353.1	2.44
155	27.1	36.9	362.9	2.34	36.9	362.9	2.34
165	27.7	37.8	369.0	2.24	37.8	369.0	2.24
175	28.2	38.7	371.6	2.12	38.7	371.6	2.12
185	28.7	39.5	374.0	2.02	39.5	374.0	2.02
195	29.1	40.4	378.5	1.94	40.4	378.5	1.94
205	29.5	41.4	383.1	1.87	41.4	383.1	1.87
215	29.9	42.3	387.5	1.80	42.3	387.5	1.80
225	30.2	43.3	391.6	1.74	43.3	391.6	1.74
235	30.6	44.3	395.6	1.68	44.3	395.6	1.68
245	30.9	45.3	399.2	1.63	45.3	399.2	1.63
255	31.2	45.9	401.3	1.57	45.9	401.3	1.57
265	31.4	45.9	401.9	1.52	45.9	401.9	1.52
275	31.7	46.0	402.5	1.46	46.0	402.5	1.46
285	31.9	46.1	403.0	1.41	46.1	403.0	1.41
295	32.2	46.2	403.5	1.37	46.2	403.5	1.37

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (83.0%)	% Crown Closure Supplied. 60.5
Species 2..... H (12.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (5.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 17.1	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
Douglas Fir 58.0%, Hemlock 28.0%, Western Red Cedar 10.0%
Paper Birch 3.0%, Alder 1.0%

AU24

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 699.3 AGE: 69 MAI: 10.51
LIMIT: 17.5+ VOLUME: 699.3 AGE: 69 MAI: 10.51

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

(17.5 cm+)

(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	7.1	0.0	0.0	0.00	0.0	0.0	0.00
25	15.6	22.5	80.9	3.24	22.5	80.9	3.24
35	22.9	25.8	262.5	7.50	25.8	262.5	7.50
45	28.8	29.1	417.2	9.27	29.1	417.2	9.27
55	33.7	32.4	547.7	9.96	32.4	547.7	9.96
65	37.8	35.5	659.1	10.14	35.5	659.1	10.14
75	41.2	38.6	755.5	10.07	38.6	755.5	10.07
85	44.2	41.7	837.5	9.85	41.7	837.5	9.85
95	46.7	44.7	904.5	9.52	44.7	904.5	9.52
105	49.0	47.7	961.5	9.16	47.7	961.5	9.16
115	51.0	50.6	1009.4	8.78	50.6	1009.4	8.78
125	52.8	53.5	1051.7	8.41	53.5	1051.7	8.41
135	54.4	56.2	1090.5	8.08	56.2	1090.5	8.08
145	55.9	58.7	1122.2	7.74	58.7	1122.2	7.74
155	57.2	61.1	1147.0	7.40	61.1	1147.0	7.40
165	58.4	63.4	1165.0	7.06	63.4	1165.0	7.06
175	59.5	65.5	1176.9	6.73	65.5	1176.9	6.73
185	60.6	67.7	1188.5	6.42	67.7	1188.5	6.42
195	61.5	70.0	1203.8	6.17	70.0	1203.8	6.17
205	62.4	72.3	1218.9	5.95	72.3	1218.9	5.95
215	63.2	74.6	1233.4	5.74	74.6	1233.4	5.74
225	64.0	76.9	1247.4	5.54	76.9	1247.4	5.54
235	64.7	79.2	1260.8	5.37	79.2	1260.8	5.37
245	65.4	81.4	1273.6	5.20	81.4	1273.6	5.20
255	66.0	82.7	1280.2	5.02	82.7	1280.2	5.02
265	66.6	83.0	1281.0	4.83	83.0	1281.0	4.83
275	67.2	83.3	1281.7	4.66	83.3	1281.7	4.66
285	67.8	83.5	1282.1	4.50	83.5	1282.1	4.50
295	68.3	83.8	1282.4	4.35	83.8	1282.4	4.35

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

NOTE: Species 'CW' Vol/Dia computed using Species Default SI of 30.00

NOTE: Species 'E' Vol/Dia computed using Species Default SI of 25.00

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	34.8
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	FD (58.0%)	Stand Total Age.....	<Not Used>
Species 2.....	H (28.0%)	% Crown Closure Supplied.	64.3
Species 3.....	CW (10.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	E (3.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	DR (1.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU25
Douglas Fir 55.0%, Hemlock 29.0%, Western Red Cedar 16.0%
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 477.9 AGE: 86 MAI: 5.85
LIMIT: 17.5+ VOLUME: 477.9 AGE: 86 MAI: 5.85

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	4.3	0.0	0.0	0.00	0.0	0.0	0.00
25	10.0	0.0	0.0	0.00	0.0	0.0	0.00
35	14.9	22.5	80.8	2.31	22.5	80.8	2.31
45	19.0	24.7	187.0	4.16	24.7	187.0	4.16
55	22.2	26.8	276.1	5.02	26.8	276.1	5.02
65	25.0	28.9	351.9	5.41	28.9	351.9	5.41
75	27.3	30.9	417.5	5.57	30.9	417.5	5.57
85	29.2	32.9	473.1	5.57	32.9	473.1	5.57
95	30.9	34.9	518.5	5.46	34.9	518.5	5.46
105	32.4	36.9	557.9	5.31	36.9	557.9	5.31
115	33.6	38.8	591.4	5.14	38.8	591.4	5.14
125	34.8	40.6	620.5	4.96	40.6	620.5	4.96
135	35.8	42.3	647.5	4.80	42.3	647.5	4.80
145	36.8	43.9	669.3	4.62	43.9	669.3	4.62
155	37.6	45.3	686.1	4.43	45.3	686.1	4.43
165	38.4	46.7	698.0	4.23	46.7	698.0	4.23
175	39.1	47.9	705.7	4.03	47.9	705.7	4.03
185	39.7	49.2	713.4	3.86	49.2	713.4	3.86
195	40.3	50.5	723.5	3.71	50.5	723.5	3.71
205	40.8	51.8	733.4	3.58	51.8	733.4	3.58
215	41.4	53.2	743.0	3.46	53.2	743.0	3.46
225	41.8	54.5	752.2	3.34	54.5	752.2	3.34
235	42.3	55.9	760.8	3.24	55.9	760.8	3.24
245	42.7	57.3	768.8	3.14	57.3	768.8	3.14
255	43.1	58.1	773.4	3.03	58.1	773.4	3.03
265	43.5	58.3	774.8	2.92	58.3	774.8	2.92
275	43.8	58.5	776.1	2.82	58.5	776.1	2.82
285	44.1	58.7	777.2	2.73	58.7	777.2	2.73
295	44.4	58.9	778.2	2.64	58.9	778.2	2.64

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... FD (55.0%)	% Crown Closure Supplied. 64.7
Species 2..... H (29.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (16.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 23.5	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air MethodAU26
Alder 3.0%

Douglas Fir

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 330.1 AGE: 110 MAI: 3.28

LIMIT: 17.5+ VOLUME: 330.1 AGE: 110 MAI: 3.28

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

(17.5 cm+)

(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	3.2	0.0	0.0	0.00	0.0	0.0	0.00
25	7.4	0.0	0.0	0.00	0.0	0.0	0.00
35	11.0	20.6	3.3	0.09	20.6	3.3	0.09
45	14.0	22.6	54.1	1.20	22.6	54.1	1.20
55	16.4	24.2	117.1	2.13	24.2	117.1	2.13
65	18.4	25.7	170.2	2.62	25.7	170.2	2.62
75	20.1	27.2	215.9	2.88	27.2	215.9	2.88
85	21.5	28.6	255.1	3.00	28.6	255.1	3.00
95	22.8	30.1	288.1	3.03	30.1	288.1	3.03
105	23.9	31.5	316.9	3.02	31.5	316.9	3.02
115	24.8	33.0	341.9	2.97	33.0	341.9	2.97
125	25.7	34.3	363.2	2.91	34.3	363.2	2.91
135	26.4	35.6	382.4	2.83	35.6	382.4	2.83
145	27.1	36.6	397.8	2.74	36.6	397.8	2.74
155	27.8	37.6	409.6	2.64	37.6	409.6	2.64
165	28.3	38.5	417.7	2.53	38.5	417.7	2.53
175	28.9	39.3	422.9	2.42	39.3	422.9	2.42
185	29.3	40.1	428.1	2.31	40.1	428.1	2.31
195	29.8	40.9	434.9	2.23	40.9	434.9	2.23
205	30.2	41.8	441.6	2.15	41.8	441.6	2.15
215	30.6	42.7	448.1	2.08	42.7	448.1	2.08
225	30.9	43.7	454.2	2.02	43.7	454.2	2.02
235	31.3	44.6	460.0	1.96	44.6	460.0	1.96
245	31.6	45.5	465.5	1.90	45.5	465.5	1.90
255	31.9	46.1	468.6	1.84	46.1	468.6	1.84
265	32.2	46.2	469.5	1.77	46.2	469.5	1.77
275	32.4	46.3	470.3	1.71	46.3	470.3	1.71
285	32.7	46.4	471.0	1.65	46.4	471.0	1.65
295	32.9	46.6	471.6	1.60	46.6	471.6	1.60

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	Stand Height (m).....	<Not Used>
Core Version Number.....	6.4a	Stand Total Age.....	<Not Used>
Species 1.....	FD (56.0%)	% Crown Closure Supplied.	50.5
Species 2.....	H (22.0%)	Measured Basal Area.....	<Not Used>
Species 3.....	CW (19.0%)	Measured Basal Area Age..	<Not Used>
Species 4.....	DR (3.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
SI (BHA 50) Calc/Supplied	17.5		
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method
 Western Red Cedar 54.0%, Hemlock 31.0%, Douglas Fir 13.0%
 Alder 1.0%, Paper Birch 1.0%

AU27

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 756.9 AGE: 103 MAI: 8.18
 LIMIT: 17.5+ VOLUME: 756.9 AGE: 103 MAI: 8.18

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

(17.5 cm+)					(17.5 cm+)		
TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	5.6	0.0	0.0	0.00	0.0	0.0	0.00
25	12.3	21.5	35.7	1.43	21.5	35.7	1.43
35	18.2	24.4	155.8	4.45	24.4	155.8	4.45
45	23.3	27.7	271.2	6.03	27.7	271.2	6.03
55	27.8	31.2	379.4	6.90	31.2	379.4	6.90
65	31.6	34.9	478.7	7.36	34.9	478.7	7.36
75	35.0	38.5	569.9	7.60	38.5	569.9	7.60
85	38.0	42.2	649.3	7.64	42.2	649.3	7.64
95	40.6	45.9	712.4	7.50	45.9	712.4	7.50
105	42.9	49.7	767.2	7.31	49.7	767.2	7.31
115	45.0	53.4	811.7	7.06	53.4	811.7	7.06
125	46.9	57.1	854.2	6.83	57.1	854.2	6.83
135	48.5	60.6	903.5	6.69	60.6	903.5	6.69
145	50.1	63.8	946.7	6.53	63.8	946.7	6.53
155	51.4	66.8	983.4	6.34	66.8	983.4	6.34
165	52.6	69.6	1014.5	6.15	69.6	1014.5	6.15
175	53.7	72.2	1042.9	5.96	72.2	1042.9	5.96
185	54.7	74.6	1071.8	5.79	74.6	1071.8	5.79
195	55.6	77.1	1100.1	5.64	77.1	1100.1	5.64
205	56.5	79.6	1127.1	5.50	79.6	1127.1	5.50
215	57.4	82.4	1157.9	5.39	82.4	1157.9	5.39
225	58.4	85.3	1190.4	5.29	85.3	1190.4	5.29
235	59.3	88.3	1222.0	5.20	88.3	1222.0	5.20
245	60.1	91.2	1252.7	5.11	91.2	1252.7	5.11
255	61.0	92.9	1269.1	4.98	92.9	1269.1	4.98
265	61.7	93.4	1271.8	4.80	93.4	1271.8	4.80
275	62.5	93.9	1274.1	4.63	93.9	1274.1	4.63
285	63.1	94.3	1276.1	4.48	94.3	1276.1	4.48
295	63.8	94.8	1277.9	4.33	94.8	1277.9	4.33

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.
 NOTE: Species 'E' Vol/Dia computed using Species Default SI of 25.00

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	29.2
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	CW (54.0%)	Stand Total Age.....	<Not Used>
Species 2.....	H (31.0%)	% Crown Closure Supplied.	65.9
Species 3.....	FD (13.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	DR (1.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	E (1.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method
 Western Red Cedar 57.0%, Hemlock 30.0%, Douglas Fir 9.0%
 Yellow Cedar 3.0%, Alder 1.0%

AU28

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 577.9 AGE: 110 MAI: 5.99
 LIMIT: 17.5+ VOLUME: 577.9 AGE: 110 MAI: 5.99

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	3.9	0.0	0.0	0.00	0.0	0.0	0.00
25	9.2	0.0	0.0	0.00	0.0	0.0	0.00
35	13.8	22.4	72.9	2.08	22.4	72.9	2.08
45	17.9	24.9	163.5	3.63	24.9	163.5	3.63
55	21.5	27.6	248.4	4.52	27.6	248.4	4.52
65	24.7	30.4	326.8	5.03	30.4	326.8	5.03
75	27.4	33.3	398.9	5.32	33.3	398.9	5.32
85	29.8	36.2	462.2	5.44	36.2	462.2	5.44
95	31.9	39.1	513.3	5.40	39.1	513.3	5.40
105	33.8	42.1	557.9	5.31	42.1	557.9	5.31
115	35.5	45.0	594.1	5.17	45.0	594.1	5.17
125	37.1	48.0	628.1	5.02	48.0	628.1	5.02
135	38.5	50.8	667.7	4.95	50.8	667.7	4.95
145	39.7	53.2	702.4	4.84	53.2	702.4	4.84
155	40.8	55.6	732.4	4.73	55.6	732.4	4.73
165	41.8	57.7	757.8	4.59	57.7	757.8	4.59
175	42.7	59.7	781.1	4.46	59.7	781.1	4.46
185	43.6	61.5	805.2	4.35	61.5	805.2	4.35
195	44.3	63.3	828.6	4.25	63.3	828.6	4.25
205	45.0	65.3	850.7	4.15	65.3	850.7	4.15
215	45.8	67.4	874.9	4.07	67.4	874.9	4.07
225	46.6	69.7	901.1	4.01	69.7	901.1	4.01
235	47.3	71.9	926.6	3.94	71.9	926.6	3.94
245	48.0	74.2	951.3	3.88	74.2	951.3	3.88
255	48.7	75.5	964.7	3.78	75.5	964.7	3.78
265	49.3	75.9	967.2	3.65	75.9	967.2	3.65
275	49.9	76.3	969.5	3.53	76.3	969.5	3.53
285	50.5	76.6	971.6	3.41	76.6	971.6	3.41
295	51.0	77.0	973.4	3.30	77.0	973.4	3.30

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	23.0
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	CW (57.0%)	Stand Total Age.....	<Not Used>
Species 2.....	H (30.0%)	% Crown Closure Supplied.	69.2
Species 3.....	FD (9.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	YC (3.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	DR (1.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU29
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
LIMIT: 17.5+ VOLUME: 332.0 AGE: 122 MAI: 3.20
LIMIT: 17.5+ VOLUME: 332.0 AGE: 122 MAI: 3.20

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	2.4	0.0	0.0	0.00	0.0	0.0	0.00
25	5.9	0.0	0.0	0.00	0.0	0.0	0.00
35	9.1	20.2	0.2	0.00	20.2	0.2	0.00
45	11.9	22.1	38.1	0.85	22.1	38.1	0.85
55	14.4	23.7	91.0	1.65	23.7	91.0	1.65
65	16.6	25.4	142.0	2.18	25.4	142.0	2.18
75	18.5	27.2	188.3	2.51	27.2	188.3	2.51
85	20.2	29.0	229.4	2.70	29.0	229.4	2.70
95	21.7	30.9	263.3	2.77	30.9	263.3	2.77
105	23.0	32.8	293.1	2.79	32.8	293.1	2.79
115	24.2	34.7	317.6	2.76	34.7	317.6	2.76
125	25.3	36.5	340.0	2.72	36.5	340.0	2.72
135	26.3	38.3	364.7	2.70	38.3	364.7	2.70
145	27.1	39.8	386.3	2.66	39.8	386.3	2.66
155	27.9	41.2	404.9	2.61	41.2	404.9	2.61
165	28.7	42.5	420.5	2.55	42.5	420.5	2.55
175	29.3	43.6	434.7	2.48	43.6	434.7	2.48
185	29.9	44.6	449.3	2.43	44.6	449.3	2.43
195	30.5	45.6	463.4	2.38	45.6	463.4	2.38
205	30.9	46.8	476.7	2.33	46.8	476.7	2.33
215	31.5	48.0	490.9	2.28	48.0	490.9	2.28
225	32.0	49.3	506.6	2.25	49.3	506.6	2.25
235	32.6	50.6	521.8	2.22	50.6	521.8	2.22
245	33.1	52.0	536.4	2.19	52.0	536.4	2.19
255	33.5	52.8	544.8	2.14	52.8	544.8	2.14
265	34.0	53.1	547.1	2.06	53.1	547.1	2.06
275	34.4	53.3	549.1	2.00	53.3	549.1	2.00
285	34.8	53.6	551.0	1.93	53.6	551.0	1.93
295	35.2	53.9	552.7	1.87	53.9	552.7	1.87

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... CW (56.0%)	% Crown Closure Supplied. 50.2
Species 2..... H (31.0%)	Measured Basal Area..... <Not Used>
Species 3..... FD (8.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... B (5.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 15.7	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU30
True Fir 10.0%

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 269.6 AGE: 110 MAI: 2.73

LIMIT: 17.5+ VOLUME: 269.6 AGE: 110 MAI: 2.73

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	5.5	0.0	0.0	0.00	0.0	0.0	0.00
25	12.2	21.5	9.7	0.39	21.5	9.7	0.39
35	18.1	24.3	50.6	1.44	24.3	50.6	1.44
45	23.1	27.3	88.5	1.97	27.3	88.5	1.97
55	27.6	30.5	124.1	2.26	30.5	124.1	2.26
65	31.4	33.8	157.0	2.42	33.8	157.0	2.42
75	34.7	37.2	187.5	2.50	37.2	187.5	2.50
85	37.7	40.6	215.1	2.53	40.6	215.1	2.53
95	40.3	44.1	238.6	2.51	44.1	238.6	2.51
105	42.6	47.6	259.8	2.47	47.6	259.8	2.47
115	44.7	51.1	277.8	2.42	51.1	277.8	2.42
125	46.6	54.7	294.6	2.36	54.7	294.6	2.36
135	48.2	58.1	313.0	2.32	58.1	313.0	2.32
145	49.7	61.2	329.3	2.27	61.2	329.3	2.27
155	51.1	64.2	343.5	2.22	64.2	343.5	2.22
165	52.3	67.0	355.8	2.16	67.0	355.8	2.16
175	53.4	69.6	367.6	2.10	69.6	367.6	2.10
185	54.4	72.0	379.9	2.05	72.0	379.9	2.05
195	55.3	74.4	391.9	2.01	74.4	391.9	2.01
205	56.1	76.9	403.4	1.97	76.9	403.4	1.97
215	57.0	79.6	416.1	1.94	79.6	416.1	1.94
225	58.0	82.4	429.5	1.91	82.4	429.5	1.91
235	58.9	85.2	442.6	1.88	85.2	442.6	1.88
245	59.8	88.0	455.4	1.86	88.0	455.4	1.86
255	60.6	89.8	461.9	1.81	89.8	461.9	1.81
265	61.3	90.4	462.2	1.74	90.4	462.2	1.74
275	62.1	91.0	462.5	1.68	91.0	462.5	1.68
285	62.7	91.6	462.6	1.62	91.6	462.6	1.62
295	63.4	92.2	462.7	1.57	92.2	462.7	1.57

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... YC (40.0%)	% Crown Closure Supplied. 5.0
Species 2..... H (30.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (20.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... B (10.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 29.0	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
 Yellow Cedar 55.0%, Western Red Cedar 23.0%, Hemlock 10.0%
 True Fir 9.0%, Douglas Fir 3.0%

AU31

VOLUMES ARE PER HECTARE

QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 485.6 AGE: 115 MAI: 4.78
 LIMIT: 17.5+ VOLUME: 485.6 AGE: 115 MAI: 4.78

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	3.9	0.0	0.0	0.00	0.0	0.0	0.00
25	9.2	0.0	0.0	0.00	0.0	0.0	0.00
35	13.8	22.5	52.8	1.51	22.5	52.8	1.51
45	17.9	25.1	122.5	2.72	25.1	122.5	2.72
55	21.5	27.8	188.5	3.43	27.8	188.5	3.43
65	24.7	30.7	250.4	3.85	30.7	250.4	3.85
75	27.4	33.8	308.4	4.11	33.8	308.4	4.11
85	29.8	36.9	361.4	4.25	36.9	361.4	4.25
95	31.9	40.1	407.5	4.29	40.1	407.5	4.29
105	33.8	43.3	449.6	4.28	43.3	449.6	4.28
115	35.5	46.6	485.6	4.22	46.6	485.6	4.22
125	37.1	49.9	518.5	4.15	49.9	518.5	4.15
135	38.5	53.1	554.0	4.10	53.1	554.0	4.10
145	39.7	55.9	585.5	4.04	55.9	585.5	4.04
155	40.8	58.5	613.2	3.96	58.5	613.2	3.96
165	41.8	61.0	637.1	3.86	61.0	637.1	3.86
175	42.7	63.2	659.8	3.77	63.2	659.8	3.77
185	43.6	65.3	683.7	3.70	65.3	683.7	3.70
195	44.3	67.3	706.8	3.62	67.3	706.8	3.62
205	45.0	69.5	729.0	3.56	69.5	729.0	3.56
215	45.8	71.8	753.2	3.50	71.8	753.2	3.50
225	46.6	74.3	779.0	3.46	74.3	779.0	3.46
235	47.3	76.8	804.4	3.42	76.8	804.4	3.42
245	48.0	79.4	829.3	3.38	79.4	829.3	3.38
255	48.7	80.8	842.0	3.30	80.8	842.0	3.30
265	49.3	81.0	842.8	3.18	81.0	842.8	3.18
275	49.9	81.3	843.5	3.07	81.3	843.5	3.07
285	50.5	81.5	844.1	2.96	81.5	844.1	2.96
295	51.0	81.8	844.6	2.86	81.8	844.6	2.86

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied 23.0
Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... YC (55.0%)	Stand Total Age..... <Not Used>
Species 2..... CW (23.0%)	% Crown Closure Supplied. 12.9
Species 3..... H (10.0%)	Measured Basal Area..... <Not Used>
Species 4..... B (9.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... FD (3.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU32
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 391.4 AGE: 116 MAI: 3.86
 LIMIT: 17.5+ VOLUME: 391.4 AGE: 116 MAI: 3.86

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	(17.5 cm+)			(17.5 cm+)		
		DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	2.8	0.0	0.0	0.00	0.0	0.0	0.00
25	6.8	0.0	0.0	0.00	0.0	0.0	0.00
35	10.4	20.6	10.1	0.29	20.6	10.1	0.29
45	13.5	22.7	72.4	1.61	22.7	72.4	1.61
55	16.3	24.6	133.5	2.43	24.6	133.5	2.43
65	18.8	26.6	190.0	2.92	26.6	190.0	2.92
75	20.9	28.7	241.6	3.22	28.7	241.6	3.22
85	22.8	30.8	287.6	3.38	30.8	287.6	3.38
95	24.5	33.0	326.3	3.43	33.0	326.3	3.43
105	26.0	35.2	360.5	3.43	35.2	360.5	3.43
115	27.3	37.4	389.0	3.38	37.4	389.0	3.38
125	28.5	39.6	415.1	3.32	39.6	415.1	3.32
135	29.6	41.7	443.7	3.29	41.7	443.7	3.29
145	30.6	43.5	468.9	3.23	43.5	468.9	3.23
155	31.5	45.2	490.7	3.17	45.2	490.7	3.17
165	32.3	46.8	509.4	3.09	46.8	509.4	3.09
175	33.1	48.2	526.8	3.01	48.2	526.8	3.01
185	33.7	49.4	544.7	2.94	49.4	544.7	2.94
195	34.3	50.6	561.9	2.88	50.6	561.9	2.88
205	34.9	51.9	578.2	2.82	51.9	578.2	2.82
215	35.4	53.3	595.7	2.77	53.3	595.7	2.77
225	36.1	54.8	614.7	2.73	54.8	614.7	2.73
235	36.7	56.3	633.2	2.69	56.3	633.2	2.69
245	37.2	57.9	651.1	2.66	57.9	651.1	2.66
255	37.8	58.9	661.3	2.59	58.9	661.3	2.59
265	38.3	59.2	664.0	2.51	59.2	664.0	2.51
275	38.8	59.5	666.4	2.42	59.5	666.4	2.42
285	39.2	59.9	668.7	2.35	59.9	668.7	2.35
295	39.7	60.2	670.7	2.27	60.2	670.7	2.27

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... CW (38.0%)	% Crown Closure Supplied. 48.9
Species 2..... YC (25.0%)	Measured Basal Area..... <Not Used>
Species 3..... H (24.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... B (13.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 17.7	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU33
 True Fir 2.0%, Alder 1.0%, Paper Birch 1.0%
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 604.4 AGE: 71 MAI: 8.85
 LIMIT: 17.5+ VOLUME: 604.4 AGE: 71 MAI: 8.85

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	1.3	0.0	0.0	0.00	0.0	0.0	0.00
15	7.0	0.0	0.0	0.00	0.0	0.0	0.00
25	14.1	22.8	77.2	3.09	22.8	77.2	3.09
35	20.4	26.1	223.4	6.38	26.1	223.4	6.38
45	25.6	29.5	349.4	7.76	29.5	349.4	7.76
55	30.1	32.8	458.5	8.34	32.8	458.5	8.34
65	34.0	36.1	553.3	8.51	36.1	553.3	8.51
75	37.3	39.3	636.3	8.48	39.3	636.3	8.48
85	40.2	42.4	705.3	8.30	42.4	705.3	8.30
95	42.7	45.4	758.4	7.98	45.4	758.4	7.98
105	45.0	48.4	802.9	7.65	48.4	802.9	7.65
115	47.0	51.3	838.8	7.29	51.3	838.8	7.29
125	48.8	54.1	873.5	6.99	54.1	873.5	6.99
135	50.4	56.8	912.7	6.76	56.8	912.7	6.76
145	51.9	59.3	946.9	6.53	59.3	946.9	6.53
155	53.3	61.7	976.5	6.30	61.7	976.5	6.30
165	54.5	64.0	1002.0	6.07	64.0	1002.0	6.07
175	55.6	66.2	1024.7	5.86	66.2	1024.7	5.86
185	56.7	68.3	1046.6	5.66	68.3	1046.6	5.66
195	57.6	70.4	1067.7	5.48	70.4	1067.7	5.48
205	58.5	72.5	1087.4	5.30	72.5	1087.4	5.30
215	59.3	74.6	1105.9	5.14	74.6	1105.9	5.14
225	60.1	76.7	1123.2	4.99	76.7	1123.2	4.99
235	60.8	78.7	1139.4	4.85	78.7	1139.4	4.85
245	61.5	80.8	1154.6	4.71	80.8	1154.6	4.71
255	62.1	82.3	1164.0	4.56	82.3	1164.0	4.56
265	62.7	83.2	1168.0	4.41	83.2	1168.0	4.41
275	63.3	84.2	1171.4	4.26	84.2	1171.4	4.26
285	63.8	85.1	1174.2	4.12	85.1	1174.2	4.12
295	64.3	86.0	1176.5	3.99	86.0	1176.5	3.99

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.
 NOTE: Species 'CW' Vol/Dia computed using Species Default SI of 30.00
 NOTE: Species 'B' Vol/Dia computed using Species Default SI of 30.00
 NOTE: Species 'E' Vol/Dia computed using Species Default SI of 25.00

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	30.2
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	H (62.0%)	Stand Total Age.....	<Not Used>
Species 2.....	CW (22.0%)	% Crown Closure Supplied.	65.8
Species 3.....	FD (12.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	B (2.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	DR (1.0%)	Stocking Class.....	0
Species 6.....	E (1.0%)	PSYU Special Cruise #....	342
Method.....	Air	PSYU Subcode/TFL Block...	0
Forest Inventory Zone....	C	Starting Total Age.....	5
Utilization Level 1.....	17.5	Finishing Total Age.....	300
Utilization Level 2.....	17.5	Age Increment.....	10
Adjustment Factor.....	1.00		
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method
Hemlock 61.0%, Western Red Cedar 24.0%, Douglas Fir 12.0%
True Fir 2.0%, Alder 1.0%

AU34

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 543.6 AGE: 86 MAI: 6.68
LIMIT: 17.5+ VOLUME: 543.6 AGE: 86 MAI: 6.68

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

			(17.5 cm+)			(17.5 cm+)		
TOT	HT	DIA	VOL	MAI		DIA	VOL	MAI
AGE	(m)	(cm)	(m**3/ha)	(m**3/ha/yr)		(cm)	(m**3/ha)	(m**3/ha/yr)
5	1.1	0.0	0.0	0.00		0.0	0.0	0.00
15	5.2	0.0	0.0	0.00		0.0	0.0	0.00
25	10.7	21.6	11.5	0.46		21.6	11.5	0.46
35	15.8	23.9	123.2	3.52		23.9	123.2	3.52
45	20.3	26.6	229.1	5.09		26.6	229.1	5.09
55	24.2	29.3	322.1	5.86		29.3	322.1	5.86
65	27.5	32.0	404.1	6.22		32.0	404.1	6.22
75	30.4	34.7	476.7	6.36		34.7	476.7	6.36
85	33.0	37.3	538.4	6.33		37.3	538.4	6.33
95	35.3	39.9	587.3	6.18		39.9	587.3	6.18
105	37.4	42.4	628.9	5.99		42.4	628.9	5.99
115	39.2	45.0	663.2	5.77		45.0	663.2	5.77
125	40.9	47.4	695.9	5.57		47.4	695.9	5.57
135	42.4	49.8	732.4	5.42		49.8	732.4	5.42
145	43.8	52.0	764.6	5.27		52.0	764.6	5.27
155	45.0	54.1	792.9	5.12		54.1	792.9	5.12
165	46.2	56.1	817.5	4.95		56.1	817.5	4.95
175	47.2	58.0	839.5	4.80		58.0	839.5	4.80
185	48.2	59.8	860.8	4.65		59.8	860.8	4.65
195	49.1	61.7	881.1	4.52		61.7	881.1	4.52
205	50.0	63.5	900.3	4.39		63.5	900.3	4.39
215	50.8	65.4	918.4	4.27		65.4	918.4	4.27
225	51.5	67.2	935.4	4.16		67.2	935.4	4.16
235	52.2	69.1	951.3	4.05		69.1	951.3	4.05
245	52.9	70.9	966.4	3.94		70.9	966.4	3.94
255	53.5	72.2	976.1	3.83		72.2	976.1	3.83
265	54.1	73.1	980.8	3.70		73.1	980.8	3.70
275	54.6	73.9	984.9	3.58		73.9	984.9	3.58
285	55.1	74.7	988.5	3.47		74.7	988.5	3.47
295	55.6	75.5	991.6	3.36*		75.5	991.6	3.36

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	24.5
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	H (61.0%)	Stand Total Age.....	<Not Used>
Species 2.....	CW (24.0%)	% Crown Closure Supplied.	67.5
Species 3.....	FD (12.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	B (2.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	DR (1.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU35
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 381.8 AGE: 116 MAI: 3.72
 LIMIT: 17.5+ VOLUME: 381.8 AGE: 116 MAI: 3.72

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

		(17.5 cm+)			(17.5 cm+)		
TOT	HT	DIA	VOL	MAI	DIA	VOL	MAI
AGE	(m)	(cm)	(m**3/ha)	(m**3/ha/yr)	(cm)	(m**3/ha)	(m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	3.4	0.0	0.0	0.00	0.0	0.0	0.00
25	6.7	0.0	0.0	0.00	0.0	0.0	0.00
35	10.1	20.3	3.0	0.09	20.3	3.0	0.09
45	13.2	22.9	62.0	1.38	22.9	62.0	1.38
55	16.0	24.6	126.7	2.30	24.6	126.7	2.30
65	18.4	26.4	184.3	2.84	26.4	184.3	2.84
75	20.6	28.2	236.2	3.15	28.2	236.2	3.15
85	22.5	29.9	281.5	3.31	29.9	281.5	3.31
95	24.3	31.7	319.1	3.36	31.7	319.1	3.36
105	25.9	33.5	351.7	3.35	33.5	351.7	3.35
115	27.3	35.3	379.4	3.30	35.3	379.4	3.30
125	28.7	37.1	405.2	3.24	37.1	405.2	3.24
135	29.9	38.8	432.7	3.20	38.8	432.7	3.20
145	31.0	40.3	457.1	3.15	40.3	457.1	3.15
155	32.0	41.8	478.7	3.09	41.8	478.7	3.09
165	32.9	43.2	497.6	3.02	43.2	497.6	3.02
175	33.8	44.5	514.7	2.94	44.5	514.7	2.94
185	34.6	45.8	531.3	2.87	45.8	531.3	2.87
195	35.4	47.1	547.4	2.81	47.1	547.4	2.81
205	36.1	48.4	562.6	2.74	48.4	562.6	2.74
215	36.8	49.7	577.0	2.68	49.7	577.0	2.68
225	37.4	51.1	590.6	2.62	51.1	590.6	2.62
235	38.0	52.4	603.4	2.57	52.4	603.4	2.57
245	38.6	53.7	615.6	2.51	53.7	615.6	2.51
255	39.1	54.7	623.6	2.45	54.7	623.6	2.45
265	39.6	55.3	627.7	2.37	55.3	627.7	2.37
275	40.0	55.9	631.3	2.30	55.9	631.3	2.30
285	40.5	56.5	634.6	2.23	56.5	634.6	2.23
295	40.9	57.0	637.6	2.16	57.0	637.6	2.16

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... H (59.0%)	% Crown Closure Supplied. 56.8
Species 2..... CW (27.0%)	Measured Basal Area..... <Not Used>
Species 3..... FD (13.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... B (1.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 16.5	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU36
Yellow Cedar 10.0%, Douglas Fir 6.0%
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
LIMIT: 17.5+ VOLUME: 431.4 AGE: 90 MAI: 5.09
LIMIT: 17.5+ VOLUME: 431.4 AGE: 90 MAI: 5.09
CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	1.0	0.0	0.0	0.00	0.0	0.0	0.00
15	4.6	0.0	0.0	0.00	0.0	0.0	0.00
25	9.6	0.0	0.0	0.00	0.0	0.0	0.00
35	14.3	23.1	74.8	2.14	23.1	74.8	2.14
45	18.5	25.4	161.4	3.59	25.4	161.4	3.59
55	22.1	27.7	236.7	4.30	27.7	236.7	4.30
65	25.2	30.0	302.7	4.66	30.0	302.7	4.66
75	28.0	32.3	360.9	4.81	32.3	360.9	4.81
85	30.5	34.5	410.5	4.83	34.5	410.5	4.83
95	32.6	36.8	450.7	4.74	36.8	450.7	4.74
105	34.6	39.1	485.0	4.62	39.1	485.0	4.62
115	36.4	41.3	513.6	4.47	41.3	513.6	4.47
125	37.9	43.6	540.4	4.32	43.6	540.4	4.32
135	39.4	45.7	569.4	4.22	45.7	569.4	4.22
145	40.7	47.7	595.0	4.10	47.7	595.0	4.10
155	41.9	49.7	617.5	3.98	49.7	617.5	3.98
165	43.1	51.6	637.2	3.86	51.6	637.2	3.86
175	44.1	53.3	655.0	3.74	53.3	655.0	3.74
185	45.0	55.0	672.2	3.63	55.0	672.2	3.63
195	45.9	56.6	688.2	3.53	56.6	688.2	3.53
205	46.7	58.3	703.1	3.43	58.3	703.1	3.43
215	47.5	59.9	717.1	3.34	59.9	717.1	3.34
225	48.2	61.5	730.0	3.24	61.5	730.0	3.24
235	48.9	63.1	742.1	3.16	63.1	742.1	3.16
245	49.5	64.7	753.3	3.07	64.7	753.3	3.07
255	50.1	66.0	760.1	2.98	66.0	760.1	2.98
265	50.7	66.8	762.7	2.88	66.8	762.7	2.88
275	51.2	67.6	764.8	2.78	67.6	764.8	2.78
285	51.7	68.4	766.4	2.69	68.4	766.4	2.69
295	52.2	69.3	767.7	2.60	69.3	767.7	2.60

NOTE: Culmination Age and MAI determined from Net Decay Volumes only..

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	SI (BHA 50) Calc/Supplied	22.5
Core Version Number.....	6.4a	Stand Height (m).....	<Not Used>
Species 1.....	H (55.0%)	Stand Total Age.....	<Not Used>
Species 2.....	B (15.0%)	% Crown Closure Supplied.	26.8
Species 3.....	CW (14.0%)	Measured Basal Area.....	<Not Used>
Species 4.....	YC (10.0%)	Measured Basal Area Age..	<Not Used>
Species 5.....	FD (6.0%)	Stocking Class.....	0
Method.....	Air	PSYU Special Cruise #....	342
Forest Inventory Zone....	C	PSYU Subcode/TFL Block...	0
Utilization Level 1.....	17.5	Starting Total Age.....	5
Utilization Level 2.....	17.5	Finishing Total Age.....	300
Adjustment Factor.....	1.00	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU37
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 383.6 AGE: 112 MAI: 3.78
 LIMIT: 17.5+ VOLUME: 383.6 AGE: 112 MAI: 3.78

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

(17.5 cm+)					(17.5 cm+)		
TOT	HT	DIA	VOL	MAI	DIA	VOL	MAI
AGE	(m)	(cm)	(m**3/ha)	(m**3/ha/yr)	(cm)	(m**3/ha)	(m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	3.4	0.0	0.0	0.00	0.0	0.0	0.00
25	6.7	0.0	0.0	0.00	0.0	0.0	0.00
35	10.1	20.4	2.6	0.08	20.4	2.6	0.08
45	13.2	22.9	69.7	1.55	22.9	69.7	1.55
55	16.0	24.6	134.8	2.45	24.6	134.8	2.45
65	18.4	26.3	192.8	2.97	26.3	192.8	2.97
75	20.6	28.0	244.8	3.26	28.0	244.8	3.26
85	22.5	29.8	290.4	3.42	29.8	290.4	3.42
95	24.3	31.5	328.9	3.46	31.5	328.9	3.46
105	25.9	33.3	362.7	3.45	33.3	362.7	3.45
115	27.3	35.1	391.7	3.41	35.1	391.7	3.41
125	28.7	36.8	418.6	3.35	36.8	418.6	3.35
135	29.9	38.5	446.5	3.31	38.5	446.5	3.31
145	31.0	40.1	471.6	3.25	40.1	471.6	3.25
155	32.0	41.7	494.1	3.19	41.7	494.1	3.19
165	32.9	43.2	514.0	3.12	43.2	514.0	3.12
175	33.8	44.5	532.4	3.04	44.5	532.4	3.04
185	34.6	45.8	550.2	2.97	45.8	550.2	2.97
195	35.4	47.0	567.0	2.91	47.0	567.0	2.91
205	36.1	48.3	582.8	2.84	48.3	582.8	2.84
215	36.8	49.5	597.7	2.78	49.5	597.7	2.78
225	37.4	50.6	611.7	2.72	50.6	611.7	2.72
235	38.0	51.8	624.9	2.66	51.8	624.9	2.66
245	38.6	53.1	637.4	2.60	53.1	637.4	2.60
255	39.1	54.0	646.2	2.53	54.0	646.2	2.53
265	39.6	54.7	651.6	2.46	54.7	651.6	2.46
275	40.0	55.4	656.5	2.39	55.4	656.5	2.39
285	40.5	56.1	661.0	2.32	56.1	661.0	2.32
295	40.9	56.8	665.1	2.25	56.8	665.1	2.25

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied 16.5
Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... H (50.0%)	Stand Total Age..... <Not Used>
Species 2..... B (22.0%)	% Crown Closure Supplied. 51.8
Species 3..... YC (16.0%)	Measured Basal Area..... <Not Used>
Species 4..... CW (8.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... FD (4.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU41
Douglas Fir 90.0%, Hemlock 10.0%
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
LIMIT: 17.5+ VOLUME: 529.9 AGE: 80 MAI: 6.90
LIMIT: 17.5+ VOLUME: 529.9 AGE: 80 MAI: 6.90

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	5.6	0.0	0.0	0.00	0.0	0.0	0.00
25	12.8	22.8	3.2	0.13	22.8	3.2	0.13
35	18.9	24.9	135.5	3.87	24.9	135.5	3.87
45	24.0	28.0	247.7	5.51	28.0	247.7	5.51
55	28.1	31.1	343.3	6.24	31.1	343.3	6.24
65	31.5	34.2	425.5	6.55	34.2	425.5	6.55
75	34.3	37.3	497.3	6.63	37.3	497.3	6.63
85	36.8	40.4	559.6	6.58	40.4	559.6	6.58
95	38.9	43.5	613.2	6.45	43.5	613.2	6.45
105	40.8	46.6	660.7	6.29	46.6	660.7	6.29
115	42.4	49.7	703.1	6.11	49.7	703.1	6.11
125	43.8	52.6	739.1	5.91	52.6	739.1	5.91
135	45.1	55.3	768.8	5.69	55.3	768.8	5.69
145	46.3	57.9	791.8	5.46	57.9	791.8	5.46
155	47.4	60.4	808.0	5.21	60.4	808.0	5.21
165	48.4	62.8	818.2	4.96	62.8	818.2	4.96
175	49.3	65.0	822.5	4.70	65.0	822.5	4.70
185	50.1	67.3	826.6	4.47	67.3	826.6	4.47
195	50.8	69.7	835.0	4.28	69.7	835.0	4.28
205	51.5	72.1	843.6	4.12	72.1	843.6	4.12
215	52.2	74.5	852.2	3.96	74.5	852.2	3.96
225	52.8	76.9	860.4	3.82	76.9	860.4	3.82
235	53.4	79.4	868.4	3.70	79.4	868.4	3.70
245	53.9	81.8	876.0	3.58	81.8	876.0	3.58
255	54.4	83.1	879.9	3.45	83.1	879.9	3.45
265	54.9	83.2	880.2	3.32	83.2	880.2	3.32
275	55.3	83.3	880.4	3.20	83.3	880.4	3.20
285	55.8	83.4	880.6	3.09	83.4	880.6	3.09
295	56.2	83.5	880.7	2.99	83.5	880.7	2.99

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Total Age..... <Not Used>
Core Version Number..... 6.4a	% Crown Closure Supplied. 41.9
Species 1..... FD (90.0%)	Measured Basal Area..... <Not Used>
Species 2..... H (10.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 29.3	Age Increment..... 10
Stand Height (m)..... <Not Used>	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

CULMINATION VALUES
LIMIT: 17.5+ VOLUME: 520.1 AGE: 85 MAI: 6.40
LIMIT: 17.5+ VOLUME: 520.1 AGE: 85 MAI: 6.40
CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	4.9	0.0	0.0	0.00	0.0	0.0	0.00
25	11.4	22.5	1.7	0.07	22.5	1.7	0.07
35	17.0	23.0	107.3	3.07	23.0	107.3	3.07
45	21.5	25.5	215.5	4.79	25.5	215.5	4.79
55	25.2	28.0	308.3	5.61	28.0	308.3	5.61
65	28.3	30.5	388.6	5.98	30.5	388.6	5.98
75	30.9	33.0	458.9	6.12	33.0	458.9	6.12
85	33.1	35.5	520.1	6.12	35.5	520.1	6.12
95	35.0	37.9	572.9	6.03	37.9	572.9	6.03
105	36.7	40.4	619.7	5.90	40.4	619.7	5.90
115	38.1	42.8	661.5	5.75	42.8	661.5	5.75
125	39.4	45.1	696.7	5.57	45.1	696.7	5.57
135	40.6	47.3	725.4	5.37	47.3	725.4	5.37
145	41.6	49.3	747.9	5.16	49.3	747.9	5.16
155	42.6	51.2	764.3	4.93	51.2	764.3	4.93
165	43.5	53.0	774.5	4.69	53.0	774.5	4.69
175	44.3	54.7	778.6	4.45	54.7	778.6	4.45
185	45.0	56.4	782.3	4.23	56.4	782.3	4.23
195	45.7	58.3	790.0	4.05	58.3	790.0	4.05
205	46.3	60.1	797.7	3.89	60.1	797.7	3.89
215	46.9	62.0	805.2	3.75	62.0	805.2	3.75
225	47.4	63.9	812.5	3.61	63.9	812.5	3.61
235	47.9	65.7	819.5	3.49	65.7	819.5	3.49
245	48.4	67.6	826.2	3.37	67.6	826.2	3.37
255	48.8	68.6	829.8	3.25	68.6	829.8	3.25
265	49.3	68.7	830.5	3.13	68.7	830.5	3.13
275	49.7	68.8	831.2	3.02	68.8	831.2	3.02
285	50.0	69.0	831.8	2.92	69.0	831.8	2.92
295	50.4	69.1	832.3	2.82	69.1	832.3	2.82

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Total Age..... <Not Used>
Core Version Number..... 6.4a	% Crown Closure Supplied. 15.0
Species 1..... FD (90.0%)	Measured Basal Area..... <Not Used>
Species 2..... H (10.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 26.5	Age Increment..... 10
Stand Height (m)..... <Not Used>	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
Douglas Fir 40.0%, Hemlock 30.0%, Western Red Cedar 30.0%
VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

AU45

CULMINATION VALUES
LIMIT: 17.5+ VOLUME: 440.3 AGE: 91 MAI: 5.16
LIMIT: 17.5+ VOLUME: 440.3 AGE: 91 MAI: 5.16
CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	3.9	0.0	0.0	0.00	0.0	0.0	0.00
25	9.2	0.0	0.0	0.00	0.0	0.0	0.00
35	13.8	22.0	60.1	1.72	22.0	60.1	1.72
45	17.5	23.9	155.6	3.46	23.9	155.6	3.46
55	20.6	25.9	236.0	4.29	25.9	236.0	4.29
65	23.1	27.8	304.8	4.69	27.8	304.8	4.69
75	25.2	29.7	364.7	4.86	29.7	364.7	4.86
85	27.0	31.5	415.2	4.89	31.5	415.2	4.89
95	28.6	33.3	455.8	4.80	33.3	455.8	4.80
105	29.9	35.1	490.6	4.67	35.1	490.6	4.67
115	31.1	36.9	519.5	4.52	36.9	519.5	4.52
125	32.2	38.6	545.0	4.36	38.6	545.0	4.36
135	33.2	40.2	570.6	4.23	40.2	570.6	4.23
145	34.0	41.6	591.7	4.08	41.6	591.7	4.08
155	34.8	42.8	608.4	3.92	42.8	608.4	3.92
165	35.5	44.0	620.7	3.76	44.0	620.7	3.76
175	36.1	45.1	630.0	3.60	45.1	630.0	3.60
185	36.7	46.1	639.7	3.46	46.1	639.7	3.46
195	37.3	47.1	651.0	3.34	47.1	651.0	3.34
205	37.8	48.3	661.9	3.23	48.3	661.9	3.23
215	38.3	49.4	672.6	3.13	49.4	672.6	3.13
225	38.7	50.6	682.8	3.03	50.6	682.8	3.03
235	39.1	51.8	692.5	2.95	51.8	692.5	2.95
245	39.5	52.9	701.9	2.86	52.9	701.9	2.86
255	39.9	53.6	707.3	2.77	53.6	707.3	2.77
265	40.2	53.8	708.9	2.68	53.8	708.9	2.68
275	40.5	54.0	710.5	2.58	54.0	710.5	2.58
285	40.9	54.2	711.9	2.50	54.2	711.9	2.50
295	41.1	54.4	713.2	2.42	54.4	713.2	2.42

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	Stand Height (m).....	<Not Used>
Core Version Number.....	6.4a	Stand Total Age.....	<Not Used>
Species 1.....	FD (40.0%)	% Crown Closure Supplied	70.0
Species 2.....	H (30.0%)	Measured Basal Area	<Not Used>
Species 3.....	CW (30.0%)	Measured Basal Area Age..	<Not Used>
Method.....	Air	Stocking Class.....	0
Forest Inventory Zone....	C	PSYU Special Cruise #....	342
Utilization Level 1.....	17.5	PSYU Subcode/TFL Block...	0
Utilization Level 2.....	17.5	Starting Total Age.....	5
Adjustment Factor.....	1.00	Finishing Total Age.....	300
SI (BHA 50) Calc/Supplied	21.8	Age Increment.....	10
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method AU48
 Western Red Cedar 40.0%, Douglas Fir 30.0%, Western Red Cedar 30.0%
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 479.0 AGE: 120 MAI: 4.70
 LIMIT: 17.5+ VOLUME: 479.0 AGE: 120 MAI: 4.70

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.7	0.0	0.0	0.00	0.0	0.0	0.00
15	3.2	0.0	0.0	0.00	0.0	0.0	0.00
25	7.7	0.0	0.0	0.00	0.0	0.0	0.00
35	11.8	21.5	36.9	1.06	21.5	36.9	1.06
45	15.3	23.9	105.9	2.35	23.9	105.9	2.35
55	18.5	26.5	172.3	3.13	26.5	172.3	3.13
65	21.2	29.3	235.4	3.62	29.3	235.4	3.62
75	23.6	32.2	294.7	3.93	32.2	294.7	3.93
85	25.7	35.2	348.2	4.10	35.2	348.2	4.10
95	27.6	38.3	392.7	4.13	38.3	392.7	4.13
105	29.3	41.4	432.5	4.12	41.4	432.5	4.12
115	30.8	44.6	465.6	4.05	44.6	465.6	4.05
125	32.1	47.8	495.8	3.97	47.8	495.8	3.97
135	33.3	50.8	529.2	3.92	50.8	529.2	3.92
145	34.4	53.4	558.1	3.85	53.4	558.1	3.85
155	35.4	55.9	582.4	3.76	55.9	582.4	3.76
165	36.3	58.1	602.2	3.65	58.1	602.2	3.65
175	37.1	60.2	619.6	3.54	60.2	619.6	3.54
185	37.8	62.1	638.3	3.45	62.1	638.3	3.45
195	38.5	64.0	657.6	3.37	64.0	657.6	3.37
205	39.1	66.1	676.3	3.30	66.1	676.3	3.30
215	39.8	68.4	697.0	3.24	68.4	697.0	3.24
225	40.5	70.9	719.7	3.20	70.9	719.7	3.20
235	41.1	73.4	742.1	3.16	73.4	742.1	3.16
245	41.8	75.9	763.9	3.12	75.9	763.9	3.12
255	42.4	77.1	774.7	3.04	77.1	774.7	3.04
265	42.9	77.1	774.7	2.92	77.1	774.7	2.92
275	43.5	77.1	774.7	2.82	77.1	774.7	2.82
285	44.0	77.1	774.7	2.72	77.1	774.7	2.72
295	44.4	77.1	774.7	2.63	77.1	774.7	2.63

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... CW (40.0%)	% Crown Closure Supplied. 60.0
Species 2..... FD (30.0%)	Measured Basal Area..... <Not Used>
Species 3..... CW (30.0%)	Measured Basal Area Age.. <Not Used>
Method..... Air	Stocking Class..... 0
Forest Inventory Zone.... C	PSYU Special Cruise #.... 342
Utilization Level 1..... 17.5	PSYU Subcode/TFL Block... 0
Utilization Level 2..... 17.5	Starting Total Age..... 5
Adjustment Factor..... 1.00	Finishing Total Age..... 300
SI (BHA 50) Calc/Supplied 19.9	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU49
 True Fir 8.0%, Yellow Cedar 2.0%
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
 CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 330.0 AGE: 124 MAI: 3.12
 LIMIT: 17.5+ VOLUME: 330.0 AGE: 124 MAI: 3.12

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	DIA (cm)	(17.5 cm+) VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	(17.5 cm+) VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	2.3	0.0	0.0	0.00	0.0	0.0	0.00
25	5.7	0.0	0.0	0.00	0.0	0.0	0.00
35	8.8	0.0	0.0	0.00	0.0	0.0	0.00
45	11.5	21.8	33.0	0.73	21.8	33.0	0.73
55	13.8	23.2	83.6	1.52	23.2	83.6	1.52
65	15.9	24.9	134.2	2.06	24.9	134.2	2.06
75	17.8	26.5	180.1	2.40	26.5	180.1	2.40
85	19.4	28.3	220.9	2.60	28.3	220.9	2.60
95	20.8	30.1	255.0	2.68	30.1	255.0	2.68
105	22.1	31.8	285.1	2.71	31.8	285.1	2.71
115	23.3	33.6	310.0	2.70	33.6	310.0	2.70
125	24.3	35.4	332.7	2.66	35.4	332.7	2.66
135	25.3	37.1	357.4	2.65	37.1	357.4	2.65
145	26.1	38.6	378.9	2.61	38.6	378.9	2.61
155	26.9	39.9	397.4	2.56	39.9	397.4	2.56
165	27.6	41.1	412.9	2.50	41.1	412.9	2.50
175	28.2	42.1	427.1	2.44	42.1	427.1	2.44
185	28.8	43.1	441.6	2.39	43.1	441.6	2.39
195	29.3	44.0	455.6	2.34	44.0	455.6	2.34
205	29.8	45.0	469.0	2.29	45.0	469.0	2.29
215	30.3	46.1	483.1	2.25	46.1	483.1	2.25
225	30.8	47.3	498.8	2.22	47.3	498.8	2.22
235	31.3	48.6	513.9	2.19	48.6	513.9	2.19
245	31.8	49.8	528.5	2.16	49.8	528.5	2.16
255	32.3	50.6	537.1	2.11	50.6	537.1	2.11
265	32.7	50.9	539.8	2.04	50.9	539.8	2.04
275	33.1	51.1	542.3	1.97	51.1	542.3	1.97
285	33.5	51.4	544.6	1.91	51.4	544.6	1.91
295	33.9	51.6	546.7	1.85	51.6	546.7	1.85

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied 15.1
Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... CW (54.0%)	Stand Total Age..... <Not Used>
Species 2..... H (27.0%)	% Crown Closure Supplied. 60.9
Species 3..... FD (9.0%)	Measured Basal Area..... <Not Used>
Species 4..... B (8.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... YC (2.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA-1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
 Yellow Cedar 47.0%, Hemlock 38.0%, True Fir 10.0%
 Western Red Cedar 5.0%

AU52

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES

LIMIT:	17.5+	VOLUME:	307.6	AGE:	125	MAI:	2.78
LIMIT:	17.5+	VOLUME:	307.6	AGE:	125	MAI:	2.78

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

TOT AGE	HT (m)	(17.5 cm+)			(17.5 cm+)		
		DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.6	0.0	0.0	0.00	0.0	0.0	0.00
15	2.2	0.0	0.0	0.00	0.0	0.0	0.00
25	5.4	0.0	0.0	0.00	0.0	0.0	0.00
35	8.2	0.0	0.0	0.00	0.0	0.0	0.00
45	10.7	21.2	18.9	0.42	21.2	18.9	0.42
55	13.0	23.0	69.8	1.27	23.0	69.8	1.27
65	15.0	24.5	116.4	1.79	24.5	116.4	1.79
75	16.7	26.0	158.5	2.11	26.0	158.5	2.11
85	18.2	27.6	196.4	2.31	27.6	196.4	2.31
95	19.6	29.1	229.5	2.42	29.1	229.5	2.42
105	20.8	30.7	259.3	2.47	30.7	259.3	2.47
115	21.9	32.3	284.7	2.48	32.3	284.7	2.48
125	22.8	33.9	307.6	2.46	33.9	307.6	2.46
135	23.7	35.4	330.7	2.45	35.4	330.7	2.45
145	24.5	36.7	351.1	2.42	36.7	351.1	2.42
155	25.2	37.9	368.8	2.38	37.9	368.8	2.38
165	25.9	38.9	384.0	2.33	38.9	384.0	2.33
175	26.5	39.9	397.9	2.27	39.9	397.9	2.27
185	27.0	40.7	412.1	2.23	40.7	412.1	2.23
195	27.5	41.5	425.5	2.18	41.5	425.5	2.18
205	28.0	42.4	438.1	2.14	42.4	438.1	2.14
215	28.4	43.3	451.4	2.10	43.3	451.4	2.10
225	29.0	44.4	466.0	2.07	44.4	466.0	2.07
235	29.4	45.4	480.0	2.04	45.4	480.0	2.04
245	29.9	46.5	493.6	2.01	46.5	493.6	2.01
255	30.3	47.2	502.0	1.97	47.2	502.0	1.97
265	30.7	47.6	505.4	1.91	47.6	505.4	1.91
275	31.1	47.9	508.6	1.85	47.9	508.6	1.85
285	31.5	48.2	511.5	1.79	48.2	511.5	1.79
295	31.9	48.6	514.2	1.74	48.6	514.2	1.74

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... YC (47.0%)	% Crown Closure Supplied. 54.9
Species 2..... H (38.0%)	Measured Basal Area..... <Not Used>
Species 3..... B (10.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... CW (5.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 14.2	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU54
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 531.5 AGE: 79 MAI: 7.02
LIMIT: 17.5+ VOLUME: 531.5 AGE: 79 MAI: 7.02

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	1.1	0.0	0.0	0.00	0.0	0.0	0.00
15	5.0	0.0	0.0	0.00	0.0	0.0	0.00
25	10.5	21.9	11.1	0.44	21.9	11.1	0.44
35	15.5	24.6	139.2	3.98	24.6	139.2	3.98
45	19.9	27.3	250.9	5.58	27.3	250.9	5.58
55	23.7	29.9	347.8	6.32	29.9	347.8	6.32
65	27.1	32.5	431.8	6.64	32.5	431.8	6.64
75	30.0	34.9	504.9	6.73	34.9	504.9	6.73
85	32.5	37.3	565.7	6.66	37.3	565.7	6.66
95	34.8	39.6	612.7	6.45	39.6	612.7	6.45
105	36.8	41.9	651.5	6.21	41.9	651.5	6.21
115	38.6	44.1	683.0	5.94	44.1	683.0	5.94
125	40.3	46.2	713.6	5.71	46.2	713.6	5.71
135	41.8	48.2	748.6	5.55	48.2	748.6	5.55
145	43.2	50.1	779.9	5.38	50.1	779.9	5.38
155	44.4	52.0	807.9	5.21	52.0	807.9	5.21
165	45.6	53.8	832.8	5.05	53.8	832.8	5.05
175	46.6	55.5	855.4	4.89	55.5	855.4	4.89
185	47.6	57.2	876.4	4.74	57.2	876.4	4.74
195	48.5	58.8	895.6	4.59	58.8	895.6	4.59
205	49.4	60.5	913.2	4.45	60.5	913.2	4.45
215	50.1	62.1	929.4	4.32	62.1	929.4	4.32
225	50.9	63.6	944.2	4.20	63.6	944.2	4.20
235	51.6	65.2	957.7	4.08	65.2	957.7	4.08
245	52.2	66.7	970.2	3.96	66.7	970.2	3.96
255	52.8	68.1	979.8	3.84	68.1	979.8	3.84
265	53.4	69.3	986.7	3.72	69.3	986.7	3.72
275	53.9	70.5	992.8	3.61	70.5	992.8	3.61
285	54.4	71.7	998.2	3.50	71.7	998.2	3.50
295	54.9	72.8	1002.9	3.40	72.8	1002.9	3.40

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number...	1.0	Stand Total Age.....	<Not Used>
Core Version Number.....	6.4a	% Crown Closure Supplied.	70.0
Species 1.....	H (90.0%)	Measured Basal Area.....	<Not Used>
Species 2.....	CW (10.0%)	Measured Basal Area Age..	<Not Used>
Method.....	Air	Stocking Class.....	0
Forest Inventory Zone....	C	PSYU Special Cruise #....	342
Utilization Level 1.....	17.5	PSYU Subcode/TFL Block...	0
Utilization Level 2.....	17.5	Starting Total Age.....	5
Adjustment Factor.....	1.00	Finishing Total Age.....	300
SI (BHA 50) Calc/Supplied	24.1	Age Increment.....	10
Stand Height (m).....	<Not Used>		
Waste and Breakage File..	C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT		

Stand Volume and Diameter Table, Air Method
Hemlock 61.0%, Western Red Cedar 22.0%, Douglas Fir 7.0%
True Fir 7.0%, Yellow Cedar 3.0%

AU55

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 337.5 AGE: 121 MAI: 3.17
LIMIT: 17.5+ VOLUME: 337.5 AGE: 121 MAI: 3.17

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
(17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.9	0.0	0.0	0.00	0.0	0.0	0.00
15	3.0	0.0	0.0	0.00	0.0	0.0	0.00
25	5.9	0.0	0.0	0.00	0.0	0.0	0.00
35	8.9	0.0	0.0	0.00	0.0	0.0	0.00
45	11.6	22.4	36.2	0.80	22.4	36.2	0.80
55	14.1	23.7	91.9	1.67	23.7	91.9	1.67
65	16.2	25.2	144.5	2.22	25.2	144.5	2.22
75	18.2	26.8	191.8	2.56	26.8	191.8	2.56
85	20.0	28.3	233.3	2.74	28.3	233.3	2.74
95	21.6	29.8	268.1	2.82	29.8	268.1	2.82
105	23.0	31.4	298.5	2.84	31.4	298.5	2.84
115	24.3	32.9	324.3	2.82	32.9	324.3	2.82
125	25.5	34.5	348.5	2.79	34.5	348.5	2.79
135	26.7	36.0	374.0	2.77	36.0	374.0	2.77
145	27.7	37.3	396.8	2.74	37.3	396.8	2.74
155	28.6	38.6	417.3	2.69	38.6	417.3	2.69
165	29.5	39.9	435.4	2.64	39.9	435.4	2.64
175	30.3	41.0	452.0	2.58	41.0	452.0	2.58
185	31.1	42.1	468.1	2.53	42.1	468.1	2.53
195	31.8	43.2	483.5	2.48	43.2	483.5	2.48
205	32.4	44.3	498.0	2.43	44.3	498.0	2.43
215	33.1	45.5	511.6	2.38	45.5	511.6	2.38
225	33.6	46.6	524.5	2.33	46.6	524.5	2.33
235	34.2	47.7	536.7	2.28	47.7	536.7	2.28
245	34.7	48.8	548.2	2.24	48.8	548.2	2.24
255	35.2	49.7	556.3	2.18	49.7	556.3	2.18
265	35.7	50.3	561.3	2.12	50.3	561.3	2.12
275	36.1	50.9	565.9	2.06	50.9	565.9	2.06
285	36.5	51.5	570.0	2.00	51.5	570.0	2.00
295	36.9	52.1	573.8	1.95	52.1	573.8	1.95

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:WinVDYP Version Number... 1.0	SI (BHA 50) Calc/Supplied
14.6Core Version Number..... 6.4a	Stand Height (m)..... <Not Used>
Species 1..... H (61.0%)	Stand Total Age..... <Not Used>
Species 2..... CW (22.0%)	% Crown Closure Supplied. 58.5
Species 3..... FD (7.0%)	Measured Basal Area..... <Not Used>
Species 4..... B (7.0%)	Measured Basal Area Age.. <Not Used>
Species 5..... YC (3.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method

AU56

CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 449.2 AGE: 84 MAI: 5.61
 LIMIT: 17.5+ VOLUME: 449.2 AGE: 84 MAI: 5.61

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME

		(17.5 cm+)				(17.5 cm+)	
TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	1.0	0.0	0.0	0.00	0.0	0.0	0.00
15	4.4	0.0	0.0	0.00	0.0	0.0	0.00
25	9.1	0.0	0.0	0.00	0.0	0.0	0.00
35	13.5	23.5	80.9	2.31	23.5	80.9	2.31
45	17.5	25.6	180.3	4.01	25.6	180.3	4.01
55	20.9	27.7	265.6	4.83	27.7	265.6	4.83
65	24.0	29.6	338.8	5.21	29.6	338.8	5.21
75	26.7	31.5	401.7	5.36	31.5	401.7	5.36
85	29.0	33.4	453.7	5.34	33.4	453.7	5.34
95	31.1	35.1	494.1	5.20	35.1	494.1	5.20
105	33.0	36.8	527.1	5.02	36.8	527.1	5.02
115	34.7	38.4	553.9	4.82	38.4	553.9	4.82
125	36.3	39.9	579.5	4.64	39.9	579.5	4.64
135	37.7	41.4	607.7	4.50	41.4	607.7	4.50
145	39.0	42.9	632.9	4.36	42.9	632.9	4.36
155	40.2	44.3	655.2	4.23	44.3	655.2	4.23
165	41.3	45.7	675.1	4.09	45.7	675.1	4.09
175	42.3	47.1	692.8	3.96	47.1	692.8	3.96
185	43.2	48.4	708.6	3.83	48.4	708.6	3.83
195	44.1	49.7	722.6	3.71	49.7	722.6	3.71
205	44.9	50.9	735.0	3.59	50.9	735.0	3.59
215	45.7	52.2	746.0	3.47	52.2	746.0	3.47
225	46.4	53.4	755.8	3.36	53.4	755.8	3.36
235	47.0	54.6	764.3	3.25	54.6	764.3	3.25
245	47.7	55.8	771.8	3.15	55.8	771.8	3.15
255	48.2	57.0	778.3	3.05	57.0	778.3	3.05
265	48.8	58.1	783.9	2.96	58.1	783.9	2.96
275	49.3	59.2	788.7	2.87	59.2	788.7	2.87
285	49.6	60.4	792.7	2.78	60.4	792.7	2.78
295	50.3	61.5	796.0	2.70	61.5	796.0	2.70

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Total Age..... <Not Used>
Core Version Number..... 6.4a	% Crown Closure Supplied. 50.0
Species 1..... H (100.0%)	Measured Basal Area..... <Not Used>
Method..... Air	Measured Basal Area Age.. <Not Used>
Forest Inventory Zone.... C	Stocking Class..... 0
Utilization Level 1..... 17.5	PSYU Special Cruise #.... 342
Utilization Level 2..... 17.5	PSYU Subcode/TFL Block... 0
Adjustment Factor..... 1.00	Starting Total Age..... 5
SI (BHA 50) Calc/Supplied 21.4	Finishing Total Age..... 300
Stand Height (m)..... <Not Used>	Age Increment..... 10
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method
 True Fir 62.0%, Hemlock 33.0%, Yellow Cedar 4.0%
 Western Red Cedar 1.0%

AU57

VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS
 CULMINATION VALUES

LIMIT: 17.5+ VOLUME: 423.0 AGE: 132 MAI: 3.51
 LIMIT: 17.5+ VOLUME: 423.0 AGE: 132 MAI: 3.51

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)	DIA (cm)	VOL (m**3/ha)	MAI (m**3/ha/yr)
5	0.5	0.0	0.0	0.00	0.0	0.0	0.00
15	1.3	0.0	0.0	0.00	0.0	0.0	0.00
25	4.3	0.0	0.0	0.00	0.0	0.0	0.00
35	7.4	0.0	0.0	0.00	0.0	0.0	0.00
45	10.2	20.7	11.1	0.25	20.7	11.1	0.25
55	12.7	22.5	77.1	1.40	22.5	77.1	1.40
65	15.2	24.0	146.6	2.26	24.0	146.6	2.26
75	17.3	25.4	202.0	2.69	25.4	202.0	2.69
85	19.2	26.9	251.4	2.96	26.9	251.4	2.96
95	20.9	28.4	294.7	3.10	28.4	294.7	3.10
105	22.5	29.9	333.3	3.17	29.9	333.3	3.17
115	23.9	31.4	367.7	3.20	31.4	367.7	3.20
125	25.3	32.9	400.0	3.20	32.9	400.0	3.20
135	26.5	34.5	432.5	3.20	34.5	432.5	3.20
145	27.7	36.0	462.5	3.19	36.0	462.5	3.19
155	28.8	37.6	490.3	3.16	37.6	490.3	3.16
165	29.8	39.1	516.1	3.13	39.1	516.1	3.13
175	30.8	40.6	540.2	3.09	40.6	540.2	3.09
185	31.7	41.8	562.9	3.04	41.8	562.9	3.04
195	32.6	42.9	584.2	3.00	42.9	584.2	3.00
205	33.4	44.0	604.3	2.95	44.0	604.3	2.95
215	34.1	45.0	623.1	2.90	45.0	623.1	2.90
225	34.8	45.8	640.9	2.85	45.8	640.9	2.85
235	35.5	46.7	657.6	2.80	46.7	657.6	2.80
245	36.2	47.8	673.4	2.75	47.8	673.4	2.75
255	36.8	48.8	687.7	2.70	48.8	687.7	2.70
265	37.4	49.8	700.5	2.64	49.8	700.5	2.64
275	37.9	50.8	712.7	2.59	50.8	712.7	2.59
285	38.4	51.8	724.1	2.54	51.8	724.1	2.54
295	39.0	52.8	734.9	2.49	52.8	734.9	2.49

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... B (62.0%)	% Crown Closure Supplied. 66.6
Species 2..... H (33.0%)	Measured Basal Area..... <Not Used>
Species 3..... YC (4.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... CW (1.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 14.7	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

Stand Volume and Diameter Table, Air Method AU58
 VOLUMES ARE PER HECTARE QUADRATIC STAND DIAMETERS

CULMINATION VALUES
 LIMIT: 17.5+ VOLUME: 236.7 AGE: 160 MAI: 1.65
 LIMIT: 17.5+ VOLUME: 236.7 AGE: 160 MAI: 1.65

CLOSE UTILIZATION LESS DECAY, WASTE 2 & BREAKAGE VOLUME
 (17.5 cm+) (17.5 cm+)

TOT AGE	HT (m)	DIA (cm)	VOL (m**3/ha) (17.5 cm+)	MAI (m**3/ha/yr) (17.5 cm+)	DIA (cm)	VOL (m**3/ha) (17.5 cm+)	MAI (m**3/ha/yr) (17.5 cm+)
5	0.8	0.0	0.0	0.00	0.0	0.0	0.00
15	2.3	0.0	0.0	0.00	0.0	0.0	0.00
25	3.8	0.0	0.0	0.00	0.0	0.0	0.00
35	5.6	0.0	0.0	0.00	0.0	0.0	0.00
45	7.2	0.0	0.0	0.00	0.0	0.0	0.00
55	8.8	20.6	1.9	0.03	20.6	1.9	0.03
65	10.1	22.0	18.1	0.28	22.0	18.1	0.28
75	11.4	23.0	51.8	0.69	23.0	51.8	0.69
85	12.5	23.9	82.4	0.97	23.9	82.4	0.97
95	13.6	24.9	109.5	1.15	24.9	109.5	1.15
105	14.5	25.9	134.0	1.28	25.9	134.0	1.28
115	15.4	26.9	155.6	1.35	26.9	155.6	1.35
125	16.2	27.9	175.4	1.40	27.9	175.4	1.40
135	17.0	28.8	195.0	1.44	28.8	195.0	1.44
145	17.7	29.7	212.8	1.47	29.7	212.8	1.47
155	18.3	30.6	229.1	1.48	30.6	229.1	1.48
165	18.9	31.4	243.9	1.48	31.4	243.9	1.48
175	19.5	32.1	257.7	1.47	32.1	257.7	1.47
185	20.0	32.7	271.0	1.46	32.7	271.0	1.46
195	20.5	33.3	283.6	1.45	33.3	283.6	1.45
205	21.0	33.9	295.6	1.44	33.9	295.6	1.44
215	21.4	34.4	306.9	1.43	34.4	306.9	1.43
225	21.9	35.0	317.6	1.41	35.0	317.6	1.41
235	22.3	35.5	327.7	1.39	35.5	327.7	1.39
245	22.6	36.1	337.4	1.38	36.1	337.4	1.38
255	23.0	36.6	345.0	1.35	36.6	345.0	1.35
265	23.3	37.0	350.7	1.32	37.0	350.7	1.32
275	23.6	37.4	356.1	1.29	37.4	356.1	1.29
285	23.9	37.9	361.1	1.27	37.9	361.1	1.27
295	24.2	38.3	365.8	1.24	38.3	365.8	1.24

NOTE: Culmination Age and MAI determined from Net Decay Volumes only.

TABLE PROPERTIES:

WinVDYP Version Number... 1.0	Stand Height (m)..... <Not Used>
Core Version Number..... 6.4a	Stand Total Age..... <Not Used>
Species 1..... H (50.0%)	% Crown Closure Supplied. 53.7
Species 2..... B (26.0%)	Measured Basal Area..... <Not Used>
Species 3..... YC (21.0%)	Measured Basal Area Age.. <Not Used>
Species 4..... CW (3.0%)	Stocking Class..... 0
Method..... Air	PSYU Special Cruise #.... 342
Forest Inventory Zone.... C	PSYU Subcode/TFL Block... 0
Utilization Level 1..... 17.5	Starting Total Age..... 5
Utilization Level 2..... 17.5	Finishing Total Age..... 300
Adjustment Factor..... 1.00	Age Increment..... 10
SI (BHA 50) Calc/Supplied 9.2	
Waste and Breakage File.. C:\PROGRA~1\VDYP\VDYP_CFG\WBS.DAT	

APPENDIX II – TIPS Y Yield Tables - Current Managed

FILE : AU61.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 18/99; 10:32:04REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 Trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 80% Coastal Douglas-fir Potential: 35.00 (site
 index) TASS v2.05.24b 97-OCT-09 18% Western Redcedar Potential: 35.00 (site index)
 TASS v2.05.24b 97-OCT-09 2% Coastal Western Hemlock Potential: 31.04 (site index) TASS
 v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CCIM Vol (%)	Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.4	0	0	0.00	0	0.4	1014	1	0	0.0	0
15.0	7.3	10	0	0.00	4	7.0	925	53	0	0.0	0
25.0	15.7	122	70	2.81	21	17.4	888	83	52	21.7	67
35.0	22.9	303	259	7.41	38	23.5	872	84	151	31.0	50
45.0	28.9	496	450	9.99	52	28.3	832	83	299	39.4	42
55.0	33.8	670	618	11.24	63	32.4	766	83	459	45.9	39
65.0	38.0	836	775	11.92	71	36.2	692	82	631	51.2	36
75.0	41.5	979	902	12.03	76	40.1	604	82	790	55.5	34
85.0	44.6	1107	1011	11.89	80	44.0	529	81	940	58.8	32
95.0	47.3	1230	1103	11.61	83	48.4	450	81	1088	61.9	31
105.0	49.6	1338	1179	11.23	84	52.6	387	81	1223	64.4	30
115.0	51.7	1434	1246	10.84	85	56.3	342	80	1346	66.6	29
125.0	53.6	1525	1308	10.46	86	59.4	312	80	1465	68.6	28
135.0	55.2	1604	1363	10.09	87	62.1	288	79	1572	70.2	27
145.0	56.8	1671	1411	9.73	88	64.4	271	79	1666	71.6	26
155.0	58.1	1731	1452	9.37	89	66.4	256	78	1751	72.8	26
165.0	59.4	1783	1485	9.00	89	68.1	244	78	1825	73.7	25
175.0	60.5	1831	1515	8.66	89	69.9	233	73	1895	74.6	25

User requests exceeded database limits

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
12.03	75.0	902	Merchantable 17.5+

FILE : AU62.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 18/99; 10:31:31REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 84% Coastal Douglas-fir Potential: 27.00 (site
 index) TASS v2.05.24b 97-OCT-09 12% Coastal Western Hemlock Potential: 23.84 (site index)
 TASS v2.05.24b 97-OCT-09 4% Western Redcedar Potential: 27.00 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.3	0	0	0.00	0	0.4	1017	1	0	0.0	0
15.0	5.0	3	0	0.00	1	4.1	950	30	0	0.0	0
25.0	11.5	48	4	0.17	12	12.7	902	78	18	16.2	70
35.0	17.1	150	102	2.91	24	18.5	891	83	65	23.3	63
45.0	21.7	260	217	4.83	34	22.3	879	83	125	29.0	53
55.0	25.5	365	321	5.84	43	25.2	858	83	197	33.9	46
65.0	28.6	470	424	6.53	50	27.7	829	82	280	38.3	43
75.0	31.3	558	510	6.81	56	29.9	793	82	358	41.7	41
85.0	33.6	637	587	6.91	60	31.8	757	81	434	44.6	39
95.0	35.6	711	657	6.92	64	33.5	723	81	508	47.1	38
105.0	37.4	775	717	6.83	66	35.1	686	81	577	49.2	37
115.0	38.9	832	769	6.68	69	36.6	651	80	640	51.1	36
125.0	40.3	882	811	6.49	70	38.2	612	80	700	52.7	35
135.0	41.5	927	850	6.30	71	39.7	577	79	754	54.0	35
145.0	42.7	969	885	6.10	72	41.0	547	79	806	55.3	34
155.0	43.7	1006	916	5.91	73	42.3	522	78	856	56.4	33
165.0	44.6	1040	944	5.72	74	43.4	499	78	900	57.3	33
175.0	45.5	1070	967	5.53	74	44.6	476	78	941	58.2	32
185.0	46.2	1098	985	5.33	74	45.9	450	77	982	59.1	32
195.0	47.0	1123	1002	5.14	74	47.1	426	77	1020	59.8	32
205.0	47.6	1148	1017	4.96	74	48.4	405	76	1057	60.6	32
215.0	48.3	1170	1032	4.80	74	49.6	385	76	1091	61.3	31
225.0	48.9	1190	1045	4.64	74	50.7	368	75	1125	61.9	31
235.0	49.4	1208	1056	4.49	74	51.6	355	75	1157	62.5	31
245.0	49.9	1224	1065	4.35	74	52.5	342	74	1186	63.0	31
255.0	50.4	1239	1074	4.21	74	53.4	330	74	1214	63.5	30
265.0	50.9	1253	1082	4.08	74	54.3	318	74	1240	64.0	30
275.0	51.3	1266	1090	3.96	74	55.2	308	73	1265	64.4	30
285.0	51.7	1279	1097	3.85	74	56.1	298	73	1289	64.8	30
295.0	52.1	1287	1101	3.73	73	56.7	290	72	1313	65.2	30

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.92	95.0	657	Merchantable 17.5+

DISTRICT OF MISSION MISSION MUNICIPAL FOREST



TIMBER SUPPLY ANALYSIS INFORMATION PACKAGE -TREE FARM LICENCE #26 -

**Submitted to the Timber Supply Branch,
B.C. Ministry of Forests**

August 30, 2000

Version 2.0

Prepared with assistance from:

**Hugh Hamilton Limited
#210 - 275 Fell Avenue, North Vancouver, B.C.
V7P 3R5**

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1.0 INTRODUCTION

The District of Mission - Mission Municipal Forest - is currently preparing Management Plan #8 for Tree Farm Licence #26 (TFL 26). As part of the management plan process, Mission is responsible for preparing a timber supply analysis showing the long-term, strategic timber supply for the land base. This information package documents the procedures, assumptions, data and model to be used in the analysis. Hugh Hamilton Limited (HHL) has been engaged to prepare the information package and conduct the timber supply analysis on behalf of Mission. This package follows the format of the *Provincial Guide for the Submission of Timber Supply Information Packages for Tree Farm Licences, Version 3*.

The purpose of this information package is to:

- provide an opportunity for communication between Mission and the Ministry of Forests (MoF) and the Ministry of Environment, Lands and Parks (MoELP) prior to undertaking the timber supply analysis;
- provide an opportunity for the MoF and MoELP to review the data, procedures and assumptions that will be used in the preparation of the timber supply analysis;
- create a dynamic document which, over time, will ensure that all relevant information is accounted for appropriately in the timber supply analysis; and
- increase the efficiency of the timber supply analysis process by reducing the risk of having analyses discarded due to inappropriate content.

Base data for the timber supply analysis will come from the 1988-1989 re-inventory. In 1991, approximately 1200 ha of land was added to the TFL, through the reversion of Timber Berths back to the Crown and subsequently granted to TFL 26. The inventory of this 1200 ha was completed in 1992.

Other resource emphasis information will be included from Mission's GIS database. Appropriate yield tables will be generated with Variable Density Yield Prediction (VDYP) model for natural growth stands and the Table Interpolation Program for Stand Yields (TIPSY) for managed stands. The TFL was updated for depletions to January 1, 1998 and has been projected for growth to January 1, 2000.

All data summarized in this package used spatial GIS data and forest inventory polygon (FIP) labels, allowing all **FSOS** analyses to be spatially and temporally referenced. **FSOS** (Forest Simulation Optimization System) will be used to determine the achievable harvest level for TFL 26 over a 200-year planning horizon.

Upon acceptance by the Timber Supply Branch, the assumptions used in this information package will be used to guide the development of the timber supply analysis and the twenty-year harvest plan. During the analysis, sensitivity analyses and management options will be tested to determine the influence of various factors on timber flow levels.

All analyses and the final proposed option will be submitted to the Chief Forester for determination of the allowable annual cut (AAC).

FILE : AU63.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 18/99; 10:33:42REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 94% Coastal Douglas-fir Potential: 17.70 (site
 index) TASS v2.05.24b 97-OCT-09 6% Western Redcedar Potential: 17.70 (site index)
 TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+			250 Prime 12.5+			
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+		(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.1	0	0	0.00	0	0.2	1018	0	0	0.0	0
15.0	3.2	1	0	0.00	0	1.7	966	13	0	0.0	0
25.0	7.4	11	0	0.00	4	7.2	918	55	0	0.0	0
35.0	11.1	43	3	0.10	10	12.2	892	78	15	15.7	69
45.0	14.1	85	32	0.71	17	15.5	879	82	35	19.2	69
55.0	16.6	134	84	1.52	22	17.9	873	82	58	22.4	64
65.0	18.6	181	135	2.08	27	19.8	867	82	81	25.1	58
75.0	20.3	220	177	2.36	30	21.1	861	82	104	27.2	54
85.0	21.8	254	212	2.49	33	22.3	852	81	125	29.0	51
95.0	23.1	284	242	2.55	36	23.2	842	81	145	30.6	49
105.0	24.2	312	269	2.56	38	24.1	834	81	165	32.0	48
115.0	25.2	340	297	2.59	40	24.9	824	80	189	33.5	46
125.0	26.1	365	323	2.58	42	25.6	815	80	210	34.7	45
135.0	26.9	388	345	2.56	44	26.3	807	79	230	35.9	43
145.0	27.6	408	365	2.52	45	26.8	797	79	249	36.9	43
155.0	28.3	427	383	2.47	46	27.4	786	78	268	37.8	42
165.0	28.9	443	400	2.42	47	27.9	777	76	285	38.7	42
175.0	29.4	459	415	2.37	48	28.3	768	77	301	39.4	41
185.0	29.9	473	429	2.32	49	28.7	760	77	316	40.1	41
195.0	30.4	486	442	2.26	50	29.1	751	77	330	40.8	41
205.0	30.8	495	451	2.20	50	29.4	741	76	343	41.3	41
215.0	31.2	505	460	2.14	51	29.8	731	76	356	41.8	40
225.0	31.6	513	469	2.08	51	30.1	721	75	368	42.3	40
235.0	31.9	521	477	2.03	52	30.4	712	75	380	42.7	40
245.0	32.3	529	484	1.98	52	30.6	704	74	390	43.2	40
255.0	32.6	536	491	1.92	52	30.9	696	74	400	43.6	39
265.0	32.9	542	497	1.88	53	31.2	689	74	410	43.9	39
275.0	33.2	548	503	1.83	53	31.4	682	73	419	44.3	39
285.0	33.4	554	508	1.78	53	31.6	674	73	427	44.6	39
295.0	33.7	557	512	1.73	53	31.8	666	72	437	44.9	39

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.59	115.0	297	Merchantable 17.5+

FILE : AU65.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:45:25REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 rees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 57% Coastal Douglas-fir Potential: 26.70 (site
 index) TASS v2.05.24b 97-OCT-09 34% Coastal Western Hemlock Potential: 23.57 (site index)
 TASS v2.05.24b 97-OCT-09 9% Western Redcedar Potential: 26.70 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+			250 Prime 12.5+			
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+		(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.4	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	4.9	3	0	0.00	1	3.9	959	26	0	0.0	0
25.0	11.0	43	4	0.17	11	12.3	918	74	16	15.9	69
35.0	16.4	144	97	2.77	24	18.4	906	83	62	23.2	66
45.0	20.9	259	218	4.84	35	22.2	897	83	124	28.8	56
55.0	24.7	368	326	5.93	43	25.0	879	83	195	33.5	50
65.0	27.8	480	436	6.71	51	27.6	850	82	280	37.8	45
75.0	30.6	577	531	7.08	56	29.7	815	82	361	41.2	43
85.0	33.0	667	618	7.27	61	31.6	779	81	444	44.2	41
95.0	35.0	752	699	7.36	65	33.4	742	81	527	46.8	40
105.0	36.9	826	769	7.32	68	35.1	704	81	605	49.0	38
115.0	38.5	892	826	7.19	70	36.7	663	80	677	51.0	37
125.0	40.0	951	877	7.02	72	38.3	623	80	745	52.6	36
135.0	41.3	1006	924	6.84	73	39.8	587	79	811	54.1	36
145.0	42.5	1057	967	6.67	74	41.3	555	79	873	55.5	35
155.0	43.5	1104	1006	6.49	75	42.6	529	78	933	56.7	34
165.0	44.5	1147	1042	6.32	76	43.8	507	78	988	57.8	34
175.0	45.4	1183	1071	6.12	77	44.9	485	78	1036	58.7	33
185.0	46.3	1215	1094	5.92	77	46.1	463	77	1082	59.6	33
195.0	47.1	1244	1115	5.72	77	47.2	441	77	1125	60.4	33
205.0	47.8	1273	1134	5.53	77	48.4	421	76	1167	61.1	32
215.0	48.4	1300	1154	5.37	77	49.5	403	76	1209	61.8	32
225.0	49.1	1326	1172	5.21	78	50.6	386	75	1248	62.5	32
235.0	49.7	1349	1189	5.06	78	51.5	372	75	1286	63.1	32
245.0	50.2	1369	1203	4.91	78	52.4	360	75	1322	63.7	31
255.0	50.8	1387	1214	4.76	77	53.2	348	74	1355	64.2	31
265.0	51.3	1404	1225	4.62	77	54.0	338	74	1387	64.7	31
275.0	51.7	1420	1235	4.49	77	54.8	328	73	1416	65.2	31
285.0	52.2	1434	1245	4.37	77	55.6	318	73	1444	65.6	30
295.0	52.6	1448	1254	4.25	77	56.4	309	72	1471	66.0	30

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.36	95.0	699	Merchantable 17.5+

FILE : AU66.TIPAGENCY : MOF Research Branch
 2.1ePROJECT : Existing Managed - Planted
 Planted trees/ha
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81
 TOP HEIGHT (m @ BH AGE 50) TASS v2.05.24b 97-OCT-09 37% Coastal Western Hemlock
 index) TASS v2.05.24b 97-OCT-09 9% Western Redcedar
 v2.05.24b 97-OCT-09
 DATE : Nov 18/99; 10:46:49
 DELAY : 1 years (Regeneration)
 : Plant 1 year old stock
 DENSITY : 1200
 TREAT. : Untreated
 SPECIES
 Potential: 18.00 (site index)
 Potential: 15.75 (site index)
 Potential: 18.00 (site index) TASS

Multiple Species option aggregates pure stands for forest-level planning. It is NOT VALID for mixed-species SILVICULTURAL applications.

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+			
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)	
5.0	0.3	0	0	0.00	0	0.5	1016	1	0	0.0	0	
15.0	3.2	1	0	0.00	0	1.8	976	11	0	0.0	0	
25.0	7.1	9	0	0.00	3	6.6	939	46	0	0.0	0	
35.0	10.6	38	3	0.09	10	11.7	917	71	13	15.4	69	
45.0	13.7	82	32	0.72	17	15.4	905	80	34	19.3	69	
55.0	16.2	140	93	1.70	24	18.3	899	82	61	23.1	66	
65.0	18.4	195	153	2.35	29	20.4	894	82	89	25.9	62	
75.0	20.3	244	204	2.73	33	21.9	887	82	118	28.3	58	
85.0	22.0	288	249	2.92	37	23.1	879	81	145	30.2	54	
95.0	23.5	330	289	3.05	40	24.2	869	81	172	32.0	52	
105.0	24.8	371	330	3.14	43	25.2	857	81	202	33.6	49	
115.0	26.0	411	369	3.21	45	26.2	843	80	233	35.2	47	
125.0	27.0	446	404	3.23	47	27.0	830	80	261	36.6	46	
135.0	28.0	478	435	3.22	49	27.7	818	79	288	37.8	45	
145.0	28.9	506	463	3.19	51	28.4	804	79	314	38.9	44	
155.0	29.7	534	490	3.16	52	29.0	791	78	341	39.9	43	
165.0	30.4	559	515	3.12	54	29.6	779	78	366	40.9	43	
175.0	31.1	584	539	3.08	55	30.1	768	78	391	41.8	43	
185.0	31.7	606	560	3.03	56	30.7	755	77	414	42.6	42	
195.0	32.3	625	579	2.97	56	31.1	741	77	437	43.3	42	
205.0	32.8	643	596	2.91	57	31.6	728	76	458	44.0	41	
215.0	33.3	660	612	2.85	58	32.0	716	76	479	44.6	41	
225.0	33.8	676	627	2.79	58	32.5	704	75	498	45.2	41	
235.0	34.3	689	639	2.72	59	32.9	691	75	517	45.8	40	
245.0	34.7	701	650	2.65	59	33.2	679	74	534	46.3	40	
255.0	35.1	713	660	2.59	59	33.6	667	74	551	46.7	40	
265.0	35.5	724	670	2.53	59	34.0	655	74	566	47.2	40	
275.0	35.8	733	678	2.46	59	34.3	643	73	582	47.6	39	
285.0	36.2	742	685	2.40	60	34.6	632	73	597	48.0	39	
295.0	36.5	750	692	2.35	60	34.9	622	72	613	48.4	39	

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
3.23	125.0	404	Merchantable 17.5+

FILE : AU67.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:46:45REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 :rees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81
 SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE 47% Western Redcedar
 Potential: 29.00 (site index) TASS v2.05.24b 97-OCT-09 34% Coastal Douglas-fir
 Potential: 29.00 (site index) TASS v2.05.24b 97-OCT-09 19% Coastal Western Hemlock
 Potential: 29.00 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC M (%)	Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.5	0	0	0.00	0	0.5	1014	1	0	0.0	0
15.0	5.7	4	0	0.00	2	4.6	947	31	0	0.0	0
25.0	12.6	69	20	0.80	15	14.6	904	80	28	18.2	70
35.0	18.5	217	175	5.01	31	21.1	895	84	100	26.9	61
45.0	23.6	372	330	7.34	44	25.2	880	83	193	33.6	50
55.0	27.9	534	489	8.89	55	28.7	850	83	316	39.7	44
65.0	31.5	681	632	9.73	64	31.7	810	82	448	44.8	42
75.0	34.7	819	765	10.20	71	34.4	761	82	588	49.2	39
85.0	37.4	947	884	10.40	76	37.1	704	81	727	53.0	37
95.0	39.9	1063	988	10.40	80	39.6	651	81	861	56.1	36
105.0	42.0	1168	1082	10.30	84	42.0	603	81	987	58.8	34
115.0	43.9	1261	1162	10.10	86	44.4	558	80	1101	61.1	33
125.0	45.6	1349	1236	9.89	89	46.5	521	80	1213	63.1	32
135.0	47.1	1429	1304	9.66	91	48.6	489	79	1317	64.9	31
145.0	48.5	1498	1359	9.38	92	50.4	460	79	1409	66.4	30
155.0	49.7	1559	1408	9.09	93	52.3	434	78	1493	67.8	29
165.0	50.9	1613	1452	8.80	94	53.8	413	78	1570	68.9	29
175.0	51.9	1661	1492	8.52	95	55.2	396	78	1640	70.0	28
185.0	52.8	1706	1529	8.26	96	56.5	381	77	1708	71.0	27
195.0	53.7	1749	1563	8.02	96	57.7	368	77	1773	71.8	27
205.0	54.5	1787	1594	7.78	97	58.8	356	76	1833	72.7	27
215.0	55.3	1826	1626	7.56	97	59.9	346	76	1896	73.5	26
225.0	56.1	1862	1656	7.36	98	60.8	337	75	1957	74.2	26
235.0	56.9	1896	1683	7.16	98	61.8	328	75	2015	75.0	25
245.0	57.6	1928	1710	6.98	99	62.7	320	75	2070	75.6	25
255.0	58.2	1959	1736	6.81	99	63.6	313	74	2126	76.3	25
265.0	58.9	1988	1761	6.64	100	64.4	306	74	2180	76.9	24
275.0	59.5	2014	1784	6.49	100	65.1	300	73	2232	77.5	24
285.0	60.0	2039	1806	6.34	100	65.8	295	73	2280	78.0	24
295.0	60.6	2063	1826	6.19	101	66.5	289	72	2329	78.5	23

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
10.40	95.0	988	Merchantable 17.5+

FILE : AU68.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:48:14REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 54% Western Redcedar Potential: 22.00 (site
 index) TASS v2.05.24b 97-OCT-09 24% Coastal Western Hemlock Potential: 22.00 (site index)
 TASS v2.05.24b 97-OCT-09 22% Coastal Douglas-fir Potential: 22.00 (site index) TASS
 v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+		(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.4	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	3.9	1	0	0.00	1	2.6	966	15	0	0.0	0
25.0	9.0	21	0	0.02	6	9.5	921	62	5	12.9	64
35.0	13.5	90	42	1.21	18	15.9	902	81	38	19.8	70
45.0	17.4	192	150	3.33	29	20.3	895	83	87	25.8	64
55.0	20.8	298	258	4.69	38	23.4	888	83	148	30.6	55
65.0	23.8	389	348	5.35	45	25.6	875	82	206	34.2	50
75.0	26.3	485	442	5.89	52	27.7	856	82	278	37.9	47
85.0	28.5	574	528	6.22	57	29.5	835	81	352	41.0	44
95.0	30.5	655	608	6.40	62	31.1	812	81	427	43.8	43
105.0	32.3	723	674	6.42	65	32.5	789	81	496	46.2	42
115.0	33.8	793	742	6.45	69	33.9	762	80	571	48.4	40
125.0	35.2	860	805	6.44	72	35.3	733	80	646	50.5	39
135.0	36.5	917	857	6.35	74	36.6	704	79	713	52.3	38
145.0	37.7	968	903	6.23	76	37.7	676	79	776	53.8	37
155.0	38.7	1015	945	6.10	77	38.8	652	78	834	55.2	37
165.0	39.7	1059	984	5.96	78	39.8	631	78	892	56.5	36
175.0	40.5	1099	1020	5.83	80	40.7	612	78	946	57.6	35
185.0	41.3	1135	1052	5.69	81	41.6	595	77	995	58.6	35
195.0	42.0	1167	1080	5.54	82	42.4	578	77	1041	59.5	34
205.0	42.7	1194	1102	5.38	82	43.1	562	76	1081	60.3	34
215.0	43.4	1222	1125	5.23	83	43.9	546	76	1123	61.1	34
225.0	44.1	1250	1148	5.10	83	44.7	529	75	1166	61.9	33
235.0	44.7	1277	1170	4.98	84	45.5	513	75	1210	62.7	33
245.0	45.3	1304	1193	4.87	84	46.2	500	74	1255	63.5	32
255.0	45.9	1329	1214	4.76	84	47.0	487	74	1297	64.2	32
265.0	46.4	1353	1235	4.66	85	47.7	475	74	1337	64.8	32
275.0	46.9	1376	1254	4.56	85	48.4	464	73	1375	65.5	31
285.0	47.4	1394	1269	4.45	85	49.0	454	73	1410	66.0	31
295.0	47.9	1409	1281	4.34	86	49.5	445	72	1442	66.5	31

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.45	115.0	742	Merchantable 17.5+

FILE : AU73.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:49:17REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 54% Coastal Western Hemlock Potential: 28.30 (site
 index) TASS v2.05.24b 97-OCT-09 38% Coastal Douglas-fir Potential: 31.96 (site index)
 TASS v2.05.24b 97-OCT-09 8% Western Redcedar Potential: 28.30 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+		(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.8	0	0	0.00	0	0.7	1013	2	0	0.0	0
15.0	6.2	5	0	0.00	2	5.2	958	35	0	0.0	0
25.0	13.3	79	31	1.23	17	15.2	927	80	32	19.1	70
35.0	19.5	231	191	5.46	33	21.4	919	84	107	27.5	61
45.0	24.7	387	346	7.69	45	25.2	899	83	203	33.8	51
55.0	29.0	550	505	9.19	55	28.7	851	83	324	39.3	45
65.0	32.7	696	647	9.96	62	31.6	798	82	448	43.7	42
75.0	35.9	834	778	10.37	68	34.3	740	82	578	47.6	40
85.0	38.7	955	885	10.41	72	37.1	668	81	702	50.9	39
95.0	41.1	1064	977	10.29	75	39.9	599	81	821	53.6	37
105.0	43.3	1168	1064	10.13	77	42.4	546	81	938	56.0	36
115.0	45.2	1265	1142	9.93	79	45.0	498	80	1051	58.2	35
125.0	46.9	1347	1203	9.62	80	47.5	452	80	1150	60.0	34
135.0	48.4	1420	1254	9.29	81	49.7	416	79	1241	61.6	33
145.0	49.8	1491	1305	9.00	81	51.8	386	79	1331	63.0	33
155.0	51.1	1555	1351	8.72	82	53.7	363	78	1416	64.3	32
165.0	52.3	1610	1389	8.42	82	55.4	343	78	1491	65.5	32
175.0	53.3	1659	1423	8.13	83	56.9	325	78	1560	66.5	31
185.0	54.3	1702	1453	7.85	83	58.3	311	77	1622	67.3	30
195.0	55.2	1743	1483	7.61	83	59.5	300	77	1685	68.2	30
205.0	56.1	1782	1512	7.37	84	60.7	289	76	1745	68.9	30
215.0	56.8	1817	1537	7.15	84	61.8	280	76	1800	69.6	29
225.0	57.6	1847	1558	6.92	84	62.8	272	75	1851	70.2	29
235.0	58.3	1873	1576	6.71	84	63.6	265	75	1897	70.8	29
245.0	58.9	1897	1593	6.50	84	64.5	258	75	1941	71.3	29
255.0	59.6	1919	1608	6.31	84	65.3	252	74	1982	71.8	28

User requests exceeded database limits

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
10.41	85.0	885	Merchantable 17.5+

FILE : AU74.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:51:48REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 Trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 71% Coastal Western Hemlock Potential: 22.20 (site
 index) TASS v2.05.24b 97-OCT-09 18% Coastal Douglas-fir Potential: 25.17 (site index)
 TASS v2.05.24b 97-OCT-09 11% Western Redcedar Potential: 22.20 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning. It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.7	0	0	0.00	0	0.7	1014	2	0	0.0	0
15.0	4.5	2	0	0.00	1	3.3	978	18	0	0.0	0
25.0	9.6	27	2	0.07	8	10.4	947	62	8	14.4	68
35.0	14.4	108	62	1.77	21	16.9	934	81	46	21.2	70
45.0	18.5	215	176	3.90	32	21.0	928	83	98	26.9	65
55.0	22.0	320	282	5.12	40	23.7	917	83	160	31.1	57
65.0	25.1	424	384	5.91	47	25.9	897	82	227	34.7	51
75.0	27.8	528	486	6.49	53	28.0	865	82	303	38.0	47
85.0	30.2	618	574	6.75	58	29.8	834	81	375	40.7	45
95.0	32.2	709	661	6.96	62	31.4	802	81	454	43.3	44
105.0	34.1	790	739	7.04	65	33.0	767	81	531	45.6	43
115.0	35.8	867	811	7.05	68	34.5	732	80	607	47.7	41
125.0	37.3	932	868	6.94	70	36.0	689	80	678	49.4	40
135.0	38.7	990	918	6.80	71	37.4	648	79	742	51.0	39
145.0	39.9	1049	966	6.66	73	38.8	614	79	811	52.4	39
155.0	41.0	1103	1011	6.52	74	40.1	583	78	874	53.8	38
165.0	42.1	1153	1053	6.38	75	41.3	557	78	936	55.0	37
175.0	43.0	1200	1093	6.25	76	42.4	536	78	995	56.1	37
185.0	43.9	1243	1130	6.11	76	43.4	516	77	1050	57.1	36
195.0	44.8	1279	1158	5.94	77	44.4	497	77	1100	58.0	36
205.0	45.5	1310	1180	5.76	77	45.3	479	76	1143	58.7	35
215.0	46.2	1339	1202	5.59	77	46.2	461	76	1185	59.4	35
225.0	46.9	1366	1222	5.43	77	47.1	445	75	1225	60.1	35
235.0	47.6	1393	1241	5.28	78	47.9	430	75	1267	60.8	35
245.0	48.2	1419	1260	5.14	78	48.7	417	75	1309	61.4	34
255.0	48.7	1443	1278	5.01	78	49.5	404	74	1349	62.0	34
265.0	49.3	1466	1295	4.89	78	50.2	393	74	1386	62.6	34
275.0	49.8	1487	1311	4.77	78	51.0	382	73	1421	63.1	34
285.0	50.3	1504	1323	4.64	78	51.7	371	73	1454	63.6	33
295.0	50.7	1518	1332	4.52	78	52.3	362	72	1484	64.0	33

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.05	115.0	811	Merchantable 17.5+

FILE : AU75.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 18/99; 10:54:33REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 rees/ha : Plant 1 year old stockTREAT. : Untreated
 perational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 80% Coastal Western Hemlock Potential: 14.00 (site
 index) TASS v2.05.24b 97-OCT-09 10% Western Redcedar Potential: 14.00 (site index)
 TASS v2.05.24b 97-OCT-09 10% Coastal Douglas-fir Potential: 16.05 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+	MAI	(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.5	0	0	0.00	0	0.6	1015	1	0	0.0	0
15.0	2.9	1	0	0.00	0	1.4	991	7	0	0.0	0
25.0	5.7	3	0	0.00	1	4.3	968	26	0	0.0	0
35.0	8.6	18	0	0.00	6	8.9	951	53	0	0.0	0
45.0	11.2	46	8	0.17	12	12.8	939	71	18	16.6	69
55.0	13.5	89	44	0.80	19	16.0	931	79	38	20.1	71
65.0	15.6	139	97	1.49	25	18.5	925	81	62	23.3	70
75.0	17.4	188	148	1.98	30	20.3	920	82	86	25.8	68
85.0	19.1	233	195	2.30	34	21.6	915	81	111	27.8	65
95.0	20.6	275	238	2.51	37	22.7	909	81	136	29.5	61
105.0	21.9	316	279	2.66	40	23.7	901	81	162	31.0	58
115.0	23.1	353	316	2.75	42	24.5	892	80	186	32.4	56
125.0	24.2	390	352	2.82	44	25.4	880	80	211	33.6	53
135.0	25.3	426	388	2.87	46	26.1	866	79	237	34.8	52
145.0	26.2	460	421	2.91	48	26.9	852	79	262	35.9	50
155.0	27.0	491	451	2.91	50	27.5	839	78	287	37.0	49
165.0	27.8	518	478	2.90	51	28.1	826	78	310	37.9	48
175.0	28.6	543	502	2.87	52	28.6	814	78	332	38.7	47
185.0	29.3	566	525	2.84	54	29.1	802	77	352	39.5	46
195.0	29.9	590	548	2.81	55	29.6	790	77	376	40.3	46
205.0	30.5	612	570	2.78	55	30.1	778	76	399	41.0	45
215.0	31.1	633	591	2.75	56	30.5	767	76	421	41.7	45
225.0	31.6	654	610	2.71	57	31.0	756	75	442	42.4	45
235.0	32.1	673	629	2.68	58	31.4	746	75	462	43.0	44
245.0	32.6	689	645	2.63	58	31.8	734	74	482	43.6	44
255.0	33.1	705	659	2.59	59	32.2	722	74	502	44.2	44
265.0	33.5	719	673	2.54	59	32.5	710	74	521	44.7	44
275.0	33.9	733	686	2.49	59	32.9	699	73	539	45.2	43
285.0	34.3	746	698	2.45	60	33.2	689	73	556	45.6	43
295.0	34.6	758	709	2.40	60	33.5	679	72	572	46.1	43

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.91	155.0	451	Merchantable 17.5+

FILE : AU76.TIPAGENCY : MOF Research Branch
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:52:45REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 trees/ha : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 75% Coastal Western Hemlock Potential: 22.70 (site
 index) TASS v2.05.24b 97-OCT-09 19% Western Redcedar Potential: 22.70 (site index)
 TASS v2.05.24b 97-OCT-09 6% Coastal Douglas-fir Potential: 25.73 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.7	0	0	0.00	0	0.7	1013	2	0	0.0	0
15.0	4.5	2	0	0.00	1	3.2	979	17	0	0.0	0
25.0	9.7	28	2	0.08	8	10.5	950	62	9	14.6	68
35.0	14.4	114	69	1.97	22	17.3	937	81	49	21.7	71
45.0	18.6	226	188	4.18	33	21.4	931	83	105	27.4	66
55.0	22.2	340	302	5.50	42	24.1	920	83	171	31.7	57
65.0	25.4	452	412	6.33	49	26.4	896	82	244	35.4	51
75.0	28.1	562	519	6.92	55	28.6	864	82	325	38.8	47
85.0	30.5	661	616	7.25	60	30.4	832	81	406	41.7	45
95.0	32.7	757	709	7.46	65	32.1	800	81	491	44.4	44
105.0	34.6	845	792	7.54	68	33.7	761	81	577	46.8	42
115.0	36.4	927	867	7.54	71	35.4	720	80	662	49.0	41
125.0	37.9	997	928	7.42	73	37.0	674	80	738	50.8	40
135.0	39.3	1063	984	7.29	74	38.6	633	79	813	52.5	39
145.0	40.6	1127	1037	7.15	75	40.0	599	79	888	54.0	38
155.0	41.8	1186	1086	7.01	77	41.4	569	78	959	55.4	38
165.0	42.9	1242	1134	6.87	78	42.6	546	78	1028	56.7	37
175.0	43.9	1293	1178	6.73	79	43.8	524	78	1093	57.8	36
185.0	44.8	1336	1213	6.56	80	44.8	504	77	1150	58.9	36
195.0	45.7	1372	1239	6.35	80	45.8	484	77	1201	59.7	35
205.0	46.4	1406	1264	6.16	80	46.8	465	76	1248	60.5	35
215.0	47.2	1438	1287	5.99	80	47.8	447	76	1294	61.3	35
225.0	47.9	1471	1313	5.83	80	48.7	432	75	1345	62.0	34
235.0	48.6	1503	1337	5.69	81	49.6	418	75	1394	62.8	34
245.0	49.2	1533	1360	5.55	81	50.4	406	75	1440	63.5	34
255.0	49.8	1560	1381	5.42	81	51.3	394	74	1484	64.1	34
265.0	50.4	1585	1400	5.28	81	52.1	383	74	1524	64.7	33
275.0	50.9	1603	1412	5.14	81	52.7	373	73	1560	65.2	33
285.0	51.4	1620	1424	5.00	81	53.4	363	73	1595	65.6	33
295.0	51.9	1636	1436	4.87	81	54.0	355	72	1628	66.1	32

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.54	105.0	792	Merchantable 17.5+

FILE : AU77.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Existing Managed - Planted DATE : Nov 22/99; 09:53:43REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 rees/ha : Plant 1 year old stockTREAT. : Untreated
 perational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 70% Coastal Western Hemlock Potential: 14.00 (site
 index) TASS v2.05.24b 97-OCT-09 30% Western Redcedar Potential: 14.00 (site index)
 TASS v2.05.24b 97-OCT-09Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC M (%)	Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.5	0	0	0.00	0	0.6	1015	1	0	0.0	0
15.0	2.7	1	0	0.00	0	1.3	991	6	0	0.0	0
25.0	5.5	2	0	0.00	1	4.0	966	24	0	0.0	0
35.0	8.4	16	0	0.00	6	8.6	947	51	0	0.0	0
45.0	11.0	43	7	0.15	11	12.5	934	70	16	16.3	69
55.0	13.3	86	41	0.75	18	15.8	925	79	37	19.8	71
65.0	15.3	137	95	1.45	25	18.5	918	81	61	23.2	71
75.0	17.1	187	147	1.96	30	20.3	913	82	86	25.7	69
85.0	18.8	233	196	2.30	34	21.7	908	81	111	27.9	65
95.0	20.3	277	241	2.54	37	22.9	903	81	138	29.7	61
105.0	21.6	320	284	2.70	40	23.9	895	81	165	31.4	58
115.0	22.8	359	322	2.80	43	24.8	887	80	189	32.8	55
125.0	23.9	395	358	2.86	45	25.6	876	80	215	34.1	53
135.0	24.9	431	393	2.91	47	26.4	862	79	241	35.3	52
145.0	25.9	465	426	2.93	49	27.1	850	79	265	36.4	50
155.0	26.7	495	456	2.94	51	27.8	837	78	291	37.5	49
165.0	27.5	523	483	2.93	52	28.4	825	78	315	38.4	48
175.0	28.3	549	508	2.90	53	28.9	814	77	337	39.3	47
185.0	28.9	572	531	2.87	55	29.4	803	77	358	40.1	46
195.0	29.8	596	554	2.84	56	29.9	792	77	381	40.9	46
205.0	30.1	618	576	2.81	57	30.4	781	76	404	41.7	46
215.0	30.7	639	596	2.77	57	30.8	770	76	427	42.4	45
225.0	31.2	660	617	2.74	58	31.3	760	75	449	43.1	45
235.0	31.8	680	636	2.70	59	31.7	750	75	469	43.8	44
245.0	32.3	697	652	2.66	60	32.1	738	75	491	44.4	44
255.0	32.7	713	668	2.62	60	32.5	727	74	511	45.0	44
265.0	33.2	728	681	2.57	61	32.8	716	74	530	45.6	43
275.0	33.6	741	694	2.52	61	33.2	705	73	549	46.1	43
285.0	34.0	754	706	2.48	61	33.5	694	73	566	46.6	43
295.0	34.3	766	717	2.43	62	33.8	685	72	583	47.0	43

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.94	155.0	456	Merchantable 17.5+

FILE : AU82.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Exist Managed-Planted&Spaced DATE : Nov 18/99; 11:28:22REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 : Plant 1 year old stockTREAT. : PC thinned to 700
 trees/ha
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 90% Coastal Douglas-fir Potential: 27.00 (site
 index) TASS v2.05.24b 97-OCT-09 10% Coastal Western Hemlock Potential: 23.84 (site index)
 TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+		(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.2	0	0	0.00	0	0.4	1017	1	0	0.0	0
15.0	5.0	3	0	0.00	1	4.1	949	31	0	0.0	0
25.0	11.5	38	6	0.23	9	14.0	566	70	18	16.5	70
35.0	17.1	121	96	2.74	19	20.9	559	81	68	24.4	67
45.0	21.7	219	194	4.31	29	25.6	556	83	133	30.5	57
55.0	25.5	319	292	5.30	37	29.3	551	83	209	35.6	49
65.0	28.7	421	391	6.02	45	32.4	543	82	295	40.1	45
75.0	31.3	507	476	6.34	51	34.7	533	82	374	43.5	42
85.0	33.6	584	550	6.47	55	36.7	521	81	449	46.3	40
95.0	35.6	655	619	6.52	59	38.5	510	81	522	48.7	38
105.0	37.3	718	679	6.47	63	40.1	496	81	590	50.8	37
115.0	38.8	773	731	6.36	65	41.5	483	80	651	52.6	36
125.0	40.2	821	775	6.20	67	42.8	466	80	709	54.0	35
135.0	41.4	864	815	6.04	69	44.1	451	79	761	55.4	35
145.0	42.5	904	851	5.87	70	45.3	436	79	811	56.5	34
155.0	43.5	939	882	5.69	72	46.4	422	78	857	57.6	33
165.0	44.4	971	910	5.51	73	47.5	410	78	900	58.6	33
175.0	45.3	1000	934	5.34	73	48.5	397	78	939	59.4	32
185.0	46.0	1027	954	5.16	74	49.6	381	77	979	60.2	32
195.0	46.7	1052	972	4.99	74	50.7	367	77	1016	61.0	32
205.0	47.4	1076	990	4.83	74	51.7	354	76	1051	61.7	32
215.0	48.0	1097	1006	4.68	75	52.7	341	76	1084	62.3	31
225.0	48.6	1116	1019	4.53	75	53.7	330	75	1115	62.9	31
235.0	49.1	1133	1029	4.38	74	54.5	319	75	1146	63.5	31
245.0	49.6	1148	1037	4.23	74	55.4	309	74	1174	64.0	31
255.0	50.1	1162	1046	4.10	74	56.2	299	74	1200	64.5	31
265.0	50.5	1175	1053	3.97	74	57.0	290	74	1225	64.9	30
275.0	50.9	1187	1061	3.86	74	57.8	282	73	1248	65.3	30
285.0	51.3	1199	1067	3.74	74	58.6	274	73	1270	65.7	30
295.0	51.7	1207	1071	3.63	74	59.2	268	72	1293	66.1	30

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.52	95.0	619	Merchantable 17.5+

FILE : AU85.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Exist Managed-Planted&Spaced DATE : Nov 18/99; 11:29:00REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 trees/ha : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 51% Coastal Douglas-fir Potential: 27.00 (site
 index) TASS v2.05.24b 97-OCT-09 30% Coastal Western Hemlock Potential: 23.84 (site index)
 TASS v2.05.24b 97-OCT-09 19% Western Redcedar Potential: 27.00 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
		0.0+	17.5+	MAI	(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)
5.0	0.4	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	5.0	3	0	0.00	1	3.9	957	26	0	0.0	0
25.0	11.2	36	6	0.24	8	13.7	570	64	17	16.3	69
35.0	16.6	123	99	2.83	20	21.2	563	80	71	24.7	69
45.0	21.2	233	209	4.65	30	26.2	559	82	146	31.3	60
55.0	25.0	345	319	5.79	39	30.0	555	83	231	36.5	53
65.0	28.3	464	435	6.69	47	33.2	547	82	331	41.2	48
75.0	31.1	566	534	7.12	54	35.7	537	82	424	44.8	44
85.0	33.5	666	632	7.43	59	37.9	526	81	523	48.0	42
95.0	35.7	757	721	7.58	64	39.9	512	81	619	50.7	40
105.0	37.6	838	798	7.60	68	41.7	497	81	708	53.1	38
115.0	39.2	910	865	7.53	71	43.4	481	80	790	55.0	37
125.0	40.7	975	925	7.40	73	44.9	464	80	868	56.8	36
135.0	42.1	1034	980	7.26	76	46.4	448	79	940	58.3	35
145.0	43.3	1091	1031	7.11	77	47.8	432	79	1012	59.7	34
155.0	44.4	1142	1077	6.95	79	49.0	418	78	1079	60.9	34
165.0	45.4	1187	1117	6.77	80	50.2	405	78	1138	62.0	33
175.0	46.4	1225	1149	6.57	81	51.3	393	78	1191	63.0	32
185.0	47.2	1260	1177	6.36	82	52.4	379	77	1241	63.8	32
195.0	48.0	1292	1203	6.17	82	53.5	367	77	1288	64.6	32
205.0	48.7	1323	1228	5.99	83	54.4	356	76	1335	65.4	31
215.0	49.4	1353	1253	5.83	83	55.4	346	76	1380	66.1	31
225.0	50.1	1381	1276	5.67	84	56.3	337	75	1424	66.8	31
235.0	50.7	1407	1297	5.52	84	57.2	328	75	1468	67.4	30
245.0	51.3	1430	1314	5.36	84	58.0	319	74	1508	68.0	30
255.0	51.9	1451	1330	5.22	84	58.8	311	74	1546	68.6	30
265.0	52.4	1470	1345	5.08	85	59.6	304	74	1581	69.1	30
275.0	52.9	1488	1358	4.94	85	60.3	296	73	1615	69.6	29
285.0	53.4	1505	1371	4.81	85	61.0	290	73	1646	70.0	29
295.0	53.8	1519	1381	4.68	85	61.6	284	72	1679	70.4	29

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.60	105.0	798	Merchantable 17.5+

FILE : AU94.TIPAGENCY : MOF Research Branch VERSION : TIPSy Version
 2.1ePROJECT : Exist Managed-Planted&Spaced DATE : Nov 18/99; 11:29:43REGEN :
 Planted DELAY : 1 years (Regeneration)DENSITY : 1200
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81SPECIES
 TOP HEIGHT (m @ BH AGE 50) SOURCE 59% Coastal Western Hemlock Potential: 22.00 (site
 index) TASS v2.05.24b 97-OCT-09 29% Coastal Douglas-fir Potential: 24.95 (site index)
 TASS v2.05.24b 97-OCT-09 12% Western Redcedar Potential: 22.00 (site index) TASS
 v2.05.24b 97-OCT-09

Multiple Species option aggregates pure stands for forest-level planning.It is NOT VALID
 for mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		-----			-----				-----		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.6	0	0	0.00	0	0.6	1015	1	0	0.0	0
15.0	4.4	2	0	0.00	1	3.3	974	19	0	0.0	0
25.0	9.7	22	2	0.07	6	11.4	577	50	8	14.3	68
35.0	14.4	82	56	1.59	15	18.6	568	73	46	21.5	71
45.0	18.5	169	148	3.29	25	23.7	565	81	102	27.9	68
55.0	22.1	261	239	4.34	33	27.2	562	82	169	32.7	62
65.0	25.1	357	331	5.10	40	30.1	557	82	242	36.6	55
75.0	27.7	455	427	5.70	46	32.6	549	82	322	40.2	51
85.0	30.0	540	511	6.01	51	34.6	541	81	397	43.1	48
95.0	32.0	625	594	6.25	56	36.5	532	81	476	45.6	45
105.0	33.9	702	669	6.37	59	38.1	521	81	553	47.9	44
115.0	35.5	775	739	6.42	63	39.6	508	80	627	49.9	42
125.0	36.9	838	799	6.39	65	41.0	494	80	697	51.6	41
135.0	38.3	894	851	6.31	67	42.3	480	79	761	53.1	40
145.0	39.5	948	902	6.22	69	43.5	467	79	825	54.6	39
155.0	40.6	999	948	6.11	71	44.7	453	78	886	55.8	38
165.0	41.6	1045	990	6.00	72	45.7	441	78	944	57.0	37
175.0	42.5	1089	1030	5.88	74	46.7	429	78	1000	58.0	37
185.0	43.3	1129	1066	5.76	75	47.7	419	77	1052	59.0	37
195.0	44.1	1165	1097	5.63	76	48.6	409	77	1100	59.8	36
205.0	44.9	1193	1121	5.47	76	49.3	398	76	1142	60.6	36
215.0	45.6	1220	1143	5.32	77	50.1	389	76	1182	61.3	35
225.0	46.2	1246	1164	5.17	77	50.9	380	75	1220	61.9	35
235.0	46.8	1270	1184	5.04	78	51.6	371	75	1257	62.5	34
245.0	47.4	1294	1204	4.91	78	52.3	363	75	1297	63.1	34
255.0	48.0	1316	1223	4.79	78	52.9	355	74	1334	63.7	34
265.0	48.5	1337	1240	4.68	78	53.6	348	74	1370	64.3	33
275.0	49.0	1357	1257	4.57	79	54.2	341	73	1403	64.8	33
285.0	49.4	1375	1272	4.46	79	54.8	334	73	1435	65.2	33
295.0	49.9	1389	1283	4.35	79	55.4	328	72	1464	65.7	33

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.42	115.0	739	Merchantable 17.5+

APPENDIX III – TIPSy Yield Tables - Future Managed

FILE : AU103.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 15:55:03REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 85% Coastal Douglas-fir Potential: 17.30 (site index) TASS
 v2.05.24b 97-OCT-09 15% Western Redcedar Potential: 17.30 (site
 index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.1	0	0	0.00	0	0.2	1018	0	0	0.0	0
15.0	3.1	1	0	0.00	0	1.5	967	12	0	0.0	0
25.0	7.2	10	0	0.00	3	6.9	920	52	0	0.0	0
35.0	10.8	40	3	0.09	10	11.8	893	76	13	15.3	69
45.0	13.7	81	29	0.64	16	15.2	880	81	33	18.9	69
55.0	16.1	129	78	1.42	21	17.7	873	82	55	22.1	65
65.0	18.2	177	132	2.02	26	19.7	868	82	79	24.9	59
75.0	19.9	219	176	2.34	30	21.1	861	82	104	27.1	55
85.0	21.4	254	212	2.50	33	22.3	854	81	125	29.0	52
95.0	22.7	285	243	2.56	36	23.2	845	81	146	30.5	50
105.0	23.8	314	272	2.59	38	24.1	836	81	167	32.0	48
115.0	24.9	343	300	2.61	40	24.9	827	80	189	33.4	47
125.0	25.8	369	327	2.61	42	25.7	818	80	213	34.7	45
135.0	26.6	393	350	2.60	44	26.3	809	79	234	35.9	44
145.0	27.3	415	372	2.57	46	26.9	802	79	253	37.0	43
155.0	27.9	434	390	2.52	47	27.4	792	78	272	37.9	43
165.0	28.5	451	407	2.47	48	27.9	782	78	290	38.7	42
175.0	29.1	466	422	2.41	49	28.4	773	77	307	39.5	42
185.0	29.6	480	436	2.36	50	28.8	764	77	322	40.2	41
195.0	30.1	494	450	2.31	51	29.2	756	77	338	40.9	41
205.0	30.5	507	463	2.26	51	29.5	748	76	353	41.5	41
215.0	30.9	518	474	2.20	52	29.9	739	76	367	42.1	41
225.0	31.3	528	484	2.15	52	30.2	729	75	382	42.6	40
235.0	31.7	538	493	2.10	53	30.5	720	75	396	43.1	40
245.0	32.0	546	501	2.04	53	30.8	710	74	408	43.6	40
255.0	32.3	553	508	1.99	53	31.1	701	74	420	44.0	40
265.0	32.6	560	515	1.94	54	31.4	693	73	432	44.4	39
275.0	32.9	567	522	1.90	54	31.6	685	73	442	44.8	39
285.0	33.2	573	528	1.85	54	31.9	678	73	452	45.1	39
295.0	33.5	579	533	1.81	54	32.1	671	72	462	45.5	39

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.61	125.0	327	Merchantable 17.5+

FILE : AU106.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:02:24REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 75% Coastal Douglas-fir Potential: 17.60 (site index) TASS
 v2.05.24b 97-OCT-09 25% Western Redcedar Potential: 17.60 (site
 index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.2	0	0	0.00	0	0.2	1017	0	0	0.0	0
15.0	3.1	1	0	0.00	0	1.6	967	12	0	0.0	0
25.0	7.2	10	0	0.00	3	6.9	919	52	0	0.0	0
35.0	10.9	41	3	0.10	10	12.0	893	76	14	15.5	69
45.0	13.9	86	34	0.76	17	15.6	880	81	35	19.3	69
55.0	16.4	140	91	1.65	23	18.2	873	82	61	22.8	65
65.0	18.5	193	148	2.28	28	20.2	868	82	88	25.7	58
75.0	20.3	239	197	2.63	32	21.8	861	82	115	28.1	54
85.0	21.9	278	236	2.78	35	23.0	853	81	140	30.1	51
95.0	23.3	313	270	2.85	38	24.0	844	81	164	31.8	49
105.0	24.5	346	304	2.89	41	25.0	835	81	189	33.4	47
115.0	25.5	380	337	2.93	43	25.9	825	80	217	34.9	46
125.0	26.5	410	367	2.93	45	26.6	816	80	244	36.3	45
135.0	27.3	437	393	2.91	47	27.3	807	79	268	37.6	44
145.0	28.1	461	417	2.87	49	27.9	797	79	291	38.7	43
155.0	28.8	481	437	2.82	50	28.5	786	73	314	39.7	42
165.0	29.4	500	455	2.76	51	29.0	776	78	334	40.6	42
175.0	30.0	517	472	2.70	52	29.5	767	77	352	41.4	41
185.0	30.5	534	489	2.64	53	29.9	758	77	372	42.2	41
195.0	31.0	551	505	2.59	54	30.4	750	77	391	42.9	41
205.0	31.5	564	518	2.53	55	30.7	739	76	408	43.5	40
215.0	31.9	576	530	2.47	55	31.1	729	76	426	44.1	40
225.0	32.3	589	543	2.41	56	31.5	719	75	444	44.8	40
235.0	32.7	600	554	2.36	56	31.9	709	75	460	45.3	39
245.0	33.1	610	563	2.30	57	32.2	699	74	475	45.8	39
255.0	33.4	619	572	2.24	57	32.5	690	74	490	46.3	39
265.0	33.8	628	581	2.19	58	32.8	681	74	504	46.7	39
275.0	34.1	637	589	2.14	58	33.1	673	73	517	47.1	38
285.0	34.4	645	597	2.09	58	33.4	665	73	529	47.5	38
295.0	34.7	651	603	2.04	58	33.6	657	72	542	47.9	38

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.93	125.0	367	Merchantable 17.5+

File AU109 AGENCY : MOF Research Branch TIPSy Version 3.0
 PROJECT : Future Managed -Planted SINDEx Version 1.14
 REGEN. : Planted DELAY : 1 years (Regeneration)
 DENSITY : 1200 trees/ha : Plant 1 year old stock
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF: 0.81
 SPECIES 50% Interior Douglas-fir, site curve *Thrower and Goudie (1992)
 TOP HEIGHT (m @ BH AGE 50) : 15.60 (site index)
 TABLE SOURCE : TASS v2.05.24b 97-OCT-09
 50% Western Redcedar, site curve *Kurucz (1985)
 TOP HEIGHT (m @ BH AGE 50) : 15.60 (site index)
 TABLE SOURCE : TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning. It is NOT VALID for mixed-species SILVICULTURAL applications.

Managed Stand Yield Table

Volume (m3/ha)		and MAI			All Trees 0.0+			250 Prime 12.5+			
Age	Top	Gross	Merch	MAI	BA	DBHg	TREES	CC	M Vol	DBHg	LC
(yr)	(m)	0.0+17.5+	MAI	(m2)	(cm)	(#/ha)	(%)	(/ha)	(cm)	(%)	
5.0	0.3	0	0	0.00	0	0.2	1015	1	0	0.0	0
15.0	2.5	0	0	0.00	0	1.1	975	7	0	0.0	0
25.0	6.0	3	0	0.00	2	4.5	930	35	0	0.0	0
35.0	9.1	21	0	0.00	6	9.4	901	67	5	13.4	68
45.0	11.9	53	5	0.11	12	13.3	884	79	21	16.5	69
55.0	14.4	99	46	0.84	18	16.3	874	82	42	20.0	67
65.0	16.5	145	98	1.51	23	18.4	869	82	66	23.0	61
75.0	18.4	189	145	1.93	27	20.1	864	82	90	25.6	55
85.0	20.1	236	194	2.28	31	21.6	857	81	118	28.0	51
95.0	21.6	276	234	2.46	35	22.8	849	81	144	30.0	49
105.0	22.9	309	269	2.56	37	23.8	841	81	168	31.7	48
115.0	24.1	340	301	2.62	40	24.7	833	80	190	33.3	46
125.0	25.2	375	332	2.66	42	25.6	824	80	220	34.9	45
135.0	26.2	406	365	2.70	45	26.4	816	79	246	36.4	44
145.0	27.1	433	391	2.70	47	27.1	806	79	271	37.6	43
155.0	27.9	458	415	2.68	48	27.8	796	78	295	38.8	42
165.0	28.6	481	440	2.67	50	28.4	784	78	319	39.8	42
175.0	29.2	502	460	2.63	51	29.0	773	77	341	40.8	41
185.0	29.8	522	476	2.57	52	29.5	763	77	361	41.7	41
195.0	30.4	538	495	2.54	53	29.9	754	77	380	42.4	41
205.0	30.9	551	508	2.48	54	30.3	745	76	397	43.1	40
215.0	31.4	564	522	2.43	55	30.7	736	76	414	43.8	40
225.0	31.9	578	533	2.37	55	31.1	727	75	431	44.5	39
235.0	32.4	590	546	2.32	56	31.5	718	75	448	45.1	39
245.0	32.8	601	555	2.27	56	31.8	709	75	463	45.7	39
255.0	33.2	613	569	2.23	57	32.2	699	74	482	46.3	38
265.0	33.6	626	582	2.20	57	32.6	690	74	500	46.8	38
275.0	34.0	637	592	2.15	58	32.9	681	73	518	47.4	38
285.0	34.4	648	604	2.12	58	33.2	673	73	535	47.9	37
295.0	34.7	659	614	2.08	59	33.6	664	72	552	48.4	37

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.70	135.0	365	Merchantable 17.5+

FILE : AU110.TIPAGENCY : MOF Research Branch
 : TIPSy Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:08:33REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 60% Western Redcedar Potential: 29.00 (site index) TASS
 v2.05.24b 97-OCT-09 35% Coastal Western Hemlock Potential: 29.00 (site
 index) TASS v2.05.24b 97-OCT-09 5% Coastal Douglas-fir Potential:
 29.00 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.7	0	0	0.00	0	0.6	1012	2	0	0.0	0
15.0	5.9	4	0	0.00	2	4.6	953	29	0	0.0	0
25.0	12.7	73	26	1.03	16	15.0	915	80	30	18.7	70
35.0	18.6	234	195	5.57	33	21.6	907	84	109	27.8	62
45.0	23.6	407	366	8.12	47	25.8	892	83	213	34.6	51
55.0	28.0	585	540	9.82	58	29.4	859	83	347	40.8	46
65.0	31.8	749	700	10.77	68	32.4	817	82	493	46.0	43
75.0	35.1	908	852	11.36	75	35.3	765	82	654	50.7	40
85.0	38.0	1053	985	11.59	81	38.3	698	81	814	54.7	38
95.0	40.5	1187	1104	11.62	85	41.1	640	81	969	58.0	36
105.0	42.8	1311	1213	11.56	89	43.7	591	81	1118	61.0	35
115.0	44.8	1421	1307	11.37	92	46.2	547	80	1252	63.4	33
125.0	46.6	1523	1393	11.14	94	48.5	509	80	1383	65.6	32
135.0	48.2	1618	1472	10.91	96	50.6	478	79	1505	67.6	31
145.0	49.7	1698	1539	10.62	98	52.4	453	79	1613	69.1	30
155.0	51.0	1769	1598	10.31	99	54.2	431	78	1709	70.5	29
165.0	52.3	1830	1650	10.00	100	55.5	415	78	1797	71.7	28
175.0	53.3	1886	1697	9.70	102	56.8	401	78	1877	72.8	27
185.0	54.3	1938	1743	9.42	103	57.9	390	77	1956	73.8	27
195.0	55.3	1988	1785	9.15	104	58.9	379	77	2032	74.7	26
205.0	56.1	2033	1823	8.89	104	59.9	370	76	2101	75.6	26
215.0	57.0	2078	1863	8.66	105	60.9	361	76	2174	76.4	26
225.0	57.8	2120	1899	8.44	106	61.8	353	75	2245	77.2	25
235.0	58.7	2160	1934	8.23	107	62.7	345	75	2313	78.0	25
245.0	59.4	2197	1966	8.03	107	63.6	338	75	2376	78.7	24
255.0	60.2	2234	1999	7.84	108	64.4	331	74	2442	79.4	24
265.0	60.9	2268	2031	7.66	108	65.1	325	74	2507	80.1	24
275.0	61.5	2301	2061	7.49	109	65.8	320	73	2568	80.7	23
285.0	62.1	2332	2089	7.33	109	66.5	315	73	2626	81.3	23
295.0	62.7	2362	2116	7.17	110	67.3	309	72	2685	81.9	23

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
11.62	95.0	1104	Merchantable 17.5+

FILE : AU111.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:09:24REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 60% Western Redcedar Potential: 23.00 (site index) TASS
 v2.05.24b 97-OCT-09 35% Coastal Western Hemlock Potential: 23.00 (site
 index) TASS v2.05.24b 97-OCT-09 5% Coastal Douglas-fir Potential:
 23.00 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DPHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.5	0	0	0.00	0	0.5	1014	1	0	0.0	0
15.0	4.2	1	0	0.00	1	2.9	968	16	0	0.0	0
25.0	9.4	26	1	0.06	8	10.2	926	64	7	14.2	68
35.0	14.2	110	64	1.84	21	17.1	909	82	47	21.2	71
45.0	18.3	225	186	4.14	33	21.4	902	83	105	27.5	63
55.0	21.9	347	308	5.60	42	24.6	893	83	177	32.5	54
65.0	25.0	456	414	6.37	50	27.0	876	82	251	36.5	49
75.0	27.8	568	524	6.99	57	29.2	852	82	338	40.4	46
85.0	30.2	672	625	7.35	63	31.2	826	81	429	43.8	44
95.0	32.3	760	711	7.48	68	32.8	798	81	515	46.6	42
105.0	34.2	848	795	7.57	72	34.5	766	81	607	49.3	41
115.0	35.9	935	876	7.62	75	36.2	731	80	703	51.9	40
125.0	37.5	1007	942	7.54	78	37.8	693	80	787	54.0	38
135.0	38.9	1074	1001	7.42	80	39.3	659	79	868	55.8	37
145.0	40.1	1136	1056	7.28	82	40.7	629	79	945	57.5	36
155.0	41.3	1194	1107	7.14	83	41.9	604	78	1020	59.0	36
165.0	42.3	1246	1154	6.99	85	43.1	582	78	1088	60.3	35
175.0	43.3	1293	1194	6.82	86	44.2	561	78	1152	61.5	34
185.0	44.1	1332	1226	6.63	87	45.2	540	77	1208	62.5	34
195.0	44.9	1367	1254	6.43	87	46.2	521	77	1259	63.4	33
205.0	45.7	1399	1280	6.24	88	47.1	504	76	1306	64.3	33
215.0	46.4	1435	1310	6.09	89	48.0	488	76	1362	65.2	32
225.0	47.2	1474	1342	5.96	89	49.0	473	75	1421	66.1	32
235.0	47.9	1509	1372	5.84	90	49.9	459	75	1477	67.0	31
245.0	48.5	1543	1400	5.72	91	50.9	446	75	1529	67.8	31
255.0	49.2	1570	1423	5.58	91	51.6	434	74	1575	68.5	30
265.0	49.8	1593	1441	5.44	91	52.3	424	74	1618	69.1	30
275.0	50.3	1614	1458	5.30	91	53.0	414	73	1659	69.7	30
285.0	50.9	1635	1475	5.18	92	53.7	404	73	1698	70.2	29
295.0	51.4	1654	1491	5.05	92	54.4	395	72	1735	70.8	29

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.62	115.0	876	Merchantable 17.5+

FILE : AU112.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:10:08REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 60% Western Redcedar Potential: 14.60 (site index) TASS
 v2.05.24b 97-OCT-09 35% Coastal Western Hemlock Potential: 14.60 (site
 index) TASS v2.05.24b 97-OCT-09 5% Coastal Douglas-fir Potential:
 14.60 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.4	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	2.6	0	0	0.00	0	1.2	984	6	0	0.0	0
25.0	5.7	3	0	0.00	1	4.1	949	27	0	0.0	0
35.0	8.6	18	0	0.00	6	9.0	925	57	0	0.0	0
45.0	11.3	48	7	0.16	12	13.0	910	74	18	16.6	70
55.0	13.6	96	50	0.91	19	16.3	900	80	41	20.3	71
65.0	15.7	148	105	1.62	25	18.9	893	82	67	23.6	70
75.0	17.5	199	159	2.12	30	20.7	889	82	93	26.3	65
85.0	19.1	248	210	2.47	34	22.2	883	81	121	28.6	61
95.0	20.6	296	258	2.71	38	23.5	877	81	150	30.7	57
105.0	21.9	338	300	2.85	41	24.5	870	81	177	32.4	54
115.0	23.0	374	335	2.91	44	25.4	862	80	202	33.8	52
125.0	24.1	408	369	2.95	46	26.2	852	80	226	35.2	51
135.0	25.1	442	401	2.97	48	27.0	842	79	252	36.4	49
145.0	25.9	474	433	2.99	50	27.7	831	79	279	37.7	48
155.0	26.7	503	462	2.98	52	28.4	821	78	304	38.8	47
165.0	27.5	530	488	2.96	53	28.9	812	78	327	39.8	46
175.0	28.2	555	512	2.93	55	29.5	802	78	351	40.7	46
185.0	28.8	578	535	2.89	56	30.0	792	77	375	41.6	45
195.0	29.3	599	556	2.85	57	30.4	782	77	397	42.4	45
205.0	29.9	619	575	2.80	58	30.9	773	76	418	43.1	44
215.0	30.4	638	594	2.76	59	31.3	764	76	439	43.9	44
225.0	30.9	657	613	2.72	60	31.8	754	75	461	44.6	44
235.0	31.4	674	629	2.68	60	32.2	743	75	483	45.3	43
245.0	31.9	689	643	2.63	61	32.5	733	74	503	45.9	43
255.0	32.4	703	657	2.58	62	32.9	723	74	522	46.5	42
265.0	32.8	716	670	2.53	62	33.3	714	74	540	47.1	42
275.0	33.2	729	681	2.48	62	33.6	705	73	557	47.6	42
285.0	33.6	739	691	2.42	63	33.9	695	73	573	48.1	41
295.0	33.9	749	700	2.37	63	34.2	685	72	589	48.6	41

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.99	145.0	433	Merchantable 17.5+

FILE : AU115.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:14:02REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 60% Coastal Douglas-fir Potential: 16.10 (site index) TASS
 v2.05.24b 97-OCT-09 30% Western Redcedar Potential: 16.10 (site
 index) TASS v2.05.24b 97-OCT-09 10% Coastal Western Hemlock Potential:
 14.04 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.2	0	0	0.00	0	0.3	1017	1	0	0.0	0
15.0	2.8	1	0	0.00	0	1.1	973	9	0	0.0	0
25.0	6.5	6	0	0.00	2	5.7	930	42	0	0.0	0
35.0	9.7	28	1	0.04	8	10.4	904	69	8	14.1	67
45.0	12.5	63	14	0.32	14	14.1	889	79	25	17.6	70
55.0	14.8	106	55	1.00	19	16.8	881	82	45	20.9	69
65.0	16.8	155	109	1.67	25	18.9	875	82	69	23.8	64
75.0	18.5	199	156	2.08	29	20.5	870	82	93	26.2	60
85.0	20.0	240	198	2.33	32	21.8	864	81	117	28.2	56
95.0	21.3	273	232	2.45	35	22.8	858	81	137	29.8	53
105.0	22.4	303	262	2.49	38	23.7	850	80	157	31.2	51
115.0	23.5	332	291	2.53	40	24.5	842	80	179	32.5	50
125.0	24.4	359	318	2.54	42	25.3	834	80	200	33.8	48
135.0	25.2	385	343	2.54	44	25.9	825	79	221	34.9	47
145.0	26.0	409	367	2.53	45	26.6	816	79	243	36.0	46
155.0	26.6	431	389	2.51	47	27.1	807	78	264	37.0	45
165.0	27.3	451	408	2.48	48	27.6	798	78	282	37.9	45
175.0	27.8	469	426	2.43	49	28.1	791	78	299	38.7	44
185.0	28.4	484	441	2.38	50	28.5	783	77	315	39.4	43
195.0	28.8	498	454	2.33	51	28.8	774	77	331	40.1	43
205.0	29.3	510	467	2.28	51	29.2	765	76	346	40.7	42
215.0	29.7	522	479	2.23	52	29.5	757	76	361	41.3	42
225.0	30.2	534	491	2.18	53	29.9	748	75	376	41.9	42
235.0	30.6	547	504	2.14	53	30.2	740	75	393	42.5	42
245.0	30.9	560	516	2.11	54	30.6	731	74	410	43.1	41
255.0	31.3	572	527	2.07	54	30.9	723	74	426	43.6	41
265.0	31.6	583	538	2.03	55	31.2	715	74	441	44.1	41
275.0	32.0	594	549	2.00	55	31.5	708	73	456	44.6	41
285.0	32.3	603	558	1.96	56	31.8	701	73	469	45.1	40
295.0	32.6	610	565	1.92	56	32.1	692	72	482	45.5	40

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
2.54	135.0	343	Merchantable 17.5+

FILE : AU116.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:16:28REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 50% Coastal Western Hemlock Potential: 22.60 (site index) TASS
 v2.05.24b 97-OCT-09 40% Western Redcedar Potential: 22.60 (site
 index) TASS v2.05.24b 97-OCT-09 10% Coastal Douglas-fir Potential:
 25.62 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning. It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

		Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
Age (yr)	Top Ht (m)	Gross 0.0+	Merch 17.5+ MAI		BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.6	0	0	0.00	0	0.6	1014	1	0	0.0	0
15.0	4.3	2	0	0.00	1	3.0	972	17	0	0.0	0
25.0	9.5	26	1	0.06	8	10.3	935	63	8	14.2	68
35.0	14.3	109	63	1.81	21	17.0	919	81	47	21.2	70
45.0	18.4	221	182	4.04	32	21.3	913	83	102	27.2	64
55.0	22.0	336	298	5.41	42	24.2	903	83	170	31.9	55
65.0	25.1	442	401	6.18	49	26.5	884	82	240	35.7	50
75.0	27.8	551	508	6.78	56	28.7	857	82	323	39.4	46
85.0	30.2	649	604	7.10	61	30.6	828	81	406	42.5	45
95.0	32.3	740	691	7.28	65	32.3	799	81	489	45.3	43
105.0	34.2	822	770	7.33	69	33.9	766	81	572	47.7	42
115.0	35.9	905	847	7.37	72	35.5	730	80	660	50.1	40
125.0	37.4	976	911	7.29	75	37.1	691	80	740	52.1	39
135.0	38.8	1039	966	7.16	76	38.6	654	79	814	53.8	38
145.0	40.1	1099	1018	7.02	78	40.0	621	79	886	55.4	37
155.0	41.2	1155	1066	6.87	79	41.3	593	78	956	56.8	37
165.0	42.2	1207	1111	6.73	81	42.4	570	78	1023	58.1	36
175.0	43.2	1254	1152	6.58	82	43.5	550	78	1084	59.3	35
185.0	44.1	1295	1187	6.41	83	44.5	530	77	1141	60.3	35
195.0	44.9	1329	1213	6.22	83	45.5	510	77	1190	61.2	34
205.0	45.6	1361	1237	6.03	83	46.4	492	76	1236	62.0	34
215.0	46.4	1392	1261	5.87	84	47.4	474	76	1282	62.8	34
225.0	47.1	1426	1288	5.72	84	48.3	459	75	1335	63.6	33
235.0	47.8	1458	1314	5.59	85	49.2	444	75	1386	64.4	33
245.0	48.4	1489	1338	5.46	85	50.1	431	75	1434	65.2	32
255.0	49.0	1517	1361	5.34	85	51.0	418	74	1479	65.9	32
265.0	49.6	1542	1381	5.21	86	51.7	407	74	1521	66.5	32
275.0	50.1	1562	1396	5.08	86	52.4	397	73	1559	67.0	31
285.0	50.7	1579	1409	4.94	86	53.1	387	73	1595	67.5	31
295.0	51.1	1596	1421	4.82	86	53.7	378	72	1629	68.0	31

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.37	115.0	847	Merchantable 17.5+

FILE : AU117.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:18:35REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 55% Coastal Western Hemlock Potential: 15.80 (site index) TASS
 v2.05.24b 97-OCT-09 40% Western Redcedar Potential: 15.80 (site
 index) TASS v2.05.24b 97-OCT-09 5% Coastal Douglas-fir Potential:
 18.05 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.5	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	2.9	1	0	0.00	0	1.6	985	7	0	0.0	0
25.0	6.3	4	0	0.00	2	5.0	954	31	0	0.0	0
35.0	9.6	27	2	0.05	8	10.4	933	62	8	14.4	68
45.0	12.5	66	20	0.44	15	14.6	920	78	27	18.3	70
55.0	15.0	129	85	1.55	23	18.1	912	81	57	22.7	71
65.0	17.3	191	151	2.33	30	20.4	907	82	88	25.9	67
75.0	19.3	250	212	2.83	35	22.1	902	82	121	28.6	62
85.0	21.1	307	269	3.17	39	23.6	895	81	155	30.9	57
95.0	22.7	358	320	3.37	43	24.8	886	81	188	32.8	54
105.0	24.2	406	367	3.49	46	25.9	874	81	220	34.6	52
115.0	25.5	453	413	3.59	49	26.9	860	80	255	36.2	50
125.0	26.6	498	457	3.66	52	27.9	845	80	290	37.8	48
135.0	27.7	538	496	3.68	54	28.7	832	79	323	39.2	47
145.0	28.7	575	532	3.67	56	29.4	818	79	355	40.4	46
155.0	29.6	610	567	3.66	57	30.2	804	78	389	41.6	45
165.0	30.4	644	599	3.63	59	30.8	791	78	421	42.7	45
175.0	31.2	674	629	3.60	60	31.4	779	78	451	43.7	44
185.0	31.9	702	656	3.55	62	32.0	766	77	480	44.7	44
195.0	32.5	726	679	3.48	62	32.5	751	77	508	45.5	43
205.0	33.1	748	700	3.41	63	33.0	738	76	534	46.2	43
215.0	33.7	769	720	3.35	64	33.5	725	76	559	47.0	42
225.0	34.3	790	740	3.29	65	34.0	712	75	585	47.7	42
235.0	34.9	808	755	3.21	65	34.5	697	75	609	48.4	41
245.0	35.4	825	771	3.15	66	35.0	682	75	634	49.0	41
255.0	35.9	843	787	3.09	66	35.5	668	74	660	49.7	41
265.0	36.3	860	802	3.03	66	36.0	654	74	684	50.3	40
275.0	36.8	876	816	2.97	67	36.4	641	73	707	50.9	40
285.0	37.2	891	829	2.91	67	36.9	628	73	730	51.5	40
295.0	37.6	905	841	2.85	67	37.3	617	72	753	52.0	39

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
3.68	135.0	496	Merchantable 17.5+

FILE : AU118.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed - Planted
 : Nov 19/99; 16:21:32REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : Untreated
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 55% Coastal Western Hemlock Potential: 10.00 (site index) TASS
 v2.05.24b 97-OCT-09 40% Western Redcedar Potential: 10.00 (site
 index) TASS v2.05.24b 97-OCT-09 5% Coastal Douglas-fir Potential:
 11.60 (site index) TASS v2.05.24b 97-OCT-09Multiple Species option
 aggregates pure stands for forest-level planning.It is NOT VALID for
 mixed-species SILVICULTURAL applications.-----

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+			250 Prime 12.5+			
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.4	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	2.2	0	0	0.00	0	1.1	993	5	0	0.0	0
25.0	4.0	1	0	0.00	1	2.8	970	14	0	0.0	0
35.0	6.0	3	0	0.00	2	4.5	950	28	0	0.0	0
45.0	7.8	13	0	0.00	4	7.8	936	46	0	0.0	0
55.0	9.4	25	1	0.02	7	10.1	924	61	7	14.2	68
65.0	10.8	41	6	0.09	11	12.3	914	70	16	16.1	69
75.0	12.1	59	15	0.20	14	14.1	906	76	24	17.8	70
85.0	13.3	84	39	0.46	18	15.8	900	78	36	19.7	71
95.0	14.3	109	65	0.68	21	17.2	894	79	48	21.5	71
105.0	15.3	132	90	0.85	23	18.3	889	79	60	22.9	71
115.0	16.1	154	113	0.98	26	19.2	884	80	71	24.2	70
125.0	16.9	174	135	1.08	28	20.0	879	79	82	25.3	68
135.0	17.6	193	155	1.15	29	20.7	874	79	93	26.2	67
145.0	18.3	210	173	1.19	31	21.2	869	79	104	27.1	65
155.0	18.9	226	190	1.22	32	21.7	864	78	113	27.9	63
165.0	19.5	241	205	1.24	33	22.2	860	78	123	28.6	62
175.0	20.0	255	220	1.26	34	22.6	854	77	132	29.3	60
185.0	20.5	269	233	1.26	35	23.0	848	77	142	29.9	59
195.0	20.9	281	246	1.26	36	23.3	842	77	151	30.4	58
205.0	21.3	293	258	1.26	37	23.7	836	76	159	30.9	57
215.0	21.7	304	269	1.25	38	24.0	831	76	168	31.4	56
225.0	22.1	316	280	1.25	38	24.3	826	75	176	31.9	56
235.0	22.5	327	291	1.24	39	24.6	820	75	184	32.4	55
245.0	22.9	337	302	1.23	40	24.9	812	75	193	32.9	54
255.0	23.2	347	312	1.22	40	25.2	805	74	202	33.3	53
265.0	23.5	355	320	1.21	41	25.4	798	74	209	33.7	53
275.0	23.8	363	328	1.19	41	25.7	790	73	217	34.1	52
285.0	24.1	370	335	1.17	41	25.9	783	73	224	34.5	52
295.0	24.4	377	342	1.16	42	26.1	777	72	231	34.8	51

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
1.26	185.0	233	Merchantable 17.5+

FILE : AU101.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:10:59REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 80% Coastal Douglas-fir Potential: 34.20 (site index) TASS
 v2.05.24b 97-OCT-09 10% Coastal Western Hemlock Potential: 30.32 (site
 index) TASS v2.05.24b 97-OCT-09 10% Western Redcedar Potential:
 34.20 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.4	0	0	0.00	0	0.5	1014	1	0	0.0	0
15.0	7.0	8	0	0.00	2	7.2	586	38	0	0.0	0
25.0	15.2	87	58	2.30	15	18.7	562	80	48	21.7	71
35.0	22.2	242	216	6.18	31	26.5	559	83	149	31.7	56
45.0	28.0	419	390	8.66	45	32.2	550	83	290	39.8	46
55.0	32.8	585	551	10.01	56	36.5	534	83	440	46.0	41
65.0	36.8	744	705	10.85	65	40.2	511	82	602	51.1	37
75.0	40.2	881	834	11.12	71	43.5	480	82	751	55.1	35
85.0	43.2	1001	943	11.09	76	46.7	445	81	988	58.3	33
95.0	45.7	1114	1040	10.94	80	49.9	408	81	1021	61.1	32
105.0	48.0	1217	1121	10.68	82	53.5	367	81	1147	63.6	31
115.0	50.0	1307	1185	10.31	84	56.7	331	80	1262	65.6	30
125.0	51.8	1390	1244	9.95	85	59.6	304	80	1369	67.5	29
135.0	53.4	1467	1298	9.62	86	62.2	282	79	1471	69.1	29
145.0	54.9	1532	1346	9.28	87	64.3	267	79	1561	70.5	28
155.0	56.2	1589	1388	8.95	88	66.0	256	78	1641	71.7	27
165.0	57.4	1640	1425	8.64	88	67.6	246	78	1715	72.7	27
175.0	58.5	1683	1453	8.30	89	69.1	236	78	1779	73.5	26
185.0	59.5	1723	1478	7.99	89	70.6	227	77	1839	74.3	26

User requests exceeded database limits

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
11.12	75.0	834	Merchantable 17.5+

FILE : AU102.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:12:04REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 80% Coastal Douglas-fir Potential: 26.40 (site index) TASS
 v2.05.24b 97-OCT-09 10% Coastal Western Hemlock Potential: 23.30 (site
 index) TASS v2.05.24b 97-OCT-09 10% Western Redcedar Potential:
 26.40 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch. 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.3	0	0	0.00	0	0.4	1016	1	0	0.0	0
15.0	4.9	3	0	0.00	1	3.9	951	28	0	0.0	0
25.0	11.2	35	5	0.21	8	13.6	567	67	16	16.1	69
35.0	16.6	116	90	2.56	19	20.6	559	81	65	24.0	68
45.0	21.2	215	190	4.23	28	25.5	556	83	131	30.3	58
55.0	24.9	314	287	5.21	37	29.1	552	83	205	35.3	51
65.0	28.0	417	388	5.97	44	32.2	545	82	292	39.9	46
75.0	30.7	508	477	6.36	51	34.7	535	82	374	43.4	43
85.0	32.9	586	553	6.50	56	36.7	525	81	451	46.3	41
95.0	34.9	662	626	6.59	60	38.5	513	81	530	48.8	39
105.0	36.7	728	690	6.57	63	40.1	501	81	602	51.0	37
115.0	38.2	787	746	6.49	66	41.5	488	80	669	52.8	36
125.0	39.6	839	795	6.36	69	42.9	475	80	730	54.5	35
135.0	40.8	885	838	6.20	70	44.2	460	79	787	55.8	35
145.0	41.9	927	876	6.04	72	45.4	445	79	840	57.0	34
155.0	42.9	966	911	5.88	73	46.5	432	78	891	58.2	34
165.0	43.9	1001	942	5.71	74	47.5	420	78	938	59.2	33
175.0	44.7	1032	969	5.54	75	48.5	408	78	980	60.1	32
185.0	45.5	1059	992	5.36	76	49.4	398	77	1019	60.9	32
195.0	46.2	1084	1012	5.19	77	50.3	385	77	1057	61.6	32
205.0	46.8	1107	1030	5.02	77	51.3	372	76	1093	62.3	31
215.0	47.5	1130	1047	4.87	77	52.2	361	76	1129	62.9	31
225.0	48.1	1151	1064	4.73	77	53.1	350	75	1163	63.6	31
235.0	48.6	1171	1080	4.60	78	54.0	340	75	1195	64.2	31
245.0	49.1	1189	1093	4.46	78	54.8	331	75	1226	64.7	30
255.0	49.6	1204	1103	4.33	78	55.5	322	74	1256	65.2	30
265.0	50.1	1218	1112	4.20	78	56.2	313	74	1284	65.7	30
275.0	50.5	1232	1121	4.08	78	56.9	305	73	1311	66.1	30
285.0	50.9	1244	1129	3.96	78	57.6	297	73	1336	66.5	30
295.0	51.3	1255	1136	3.85	77	58.3	290	72	1360	66.9	29

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.59	95.0	626	Merchantable 17.5+

FILE : AU104.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:13:21REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 60% Coastal Douglas-fir Potential: 32.50 (site index) TASS
 v2.05.24b 97-OCT-09 20% Coastal Western Hemlock Potential: 28.79 (site
 index) TASS v2.05.24b 97-OCT-09 20% Western Redcedar Potential:
 32.50 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.5	0	0	0.00	0	0.5	1014	1	0	0.0	0
15.0	6.5	6	0	0.00	2	6.4	588	31	0	0.0	0
25.0	14.1	74	44	1.76	14	17.8	564	76	40	20.5	71
35.0	20.7	218	195	5.56	29	25.6	561	83	134	30.5	60
45.0	26.2	380	352	7.81	42	31.0	555	83	256	38.1	49
55.0	30.8	548	516	9.38	53	35.4	542	83	404	44.4	44
65.0	34.6	702	666	10.25	62	38.9	525	82	555	49.4	40
75.0	37.9	843	802	10.69	70	42.0	502	82	704	53.5	37
85.0	40.8	966	917	10.79	75	44.9	473	81	843	56.8	36
95.0	43.3	1078	1018	10.72	79	47.6	444	81	973	59.6	34
105.0	45.5	1184	1112	10.59	83	50.3	415	81	1100	62.1	32
115.0	47.4	1279	1190	10.35	85	53.1	384	80	1217	64.2	32
125.0	49.2	1360	1254	10.03	87	55.6	357	80	1322	66.0	31
135.0	50.8	1434	1311	9.71	88	57.9	333	79	1419	67.6	30
145.0	52.2	1504	1366	9.42	89	60.0	315	79	1514	69.0	29
155.0	53.5	1568	1414	9.13	90	61.9	300	78	1601	70.4	29
165.0	54.6	1623	1456	8.82	91	63.5	286	78	1679	71.5	28
175.0	55.7	1670	1492	8.53	92	64.8	278	78	1749	72.4	27
185.0	56.7	1714	1527	8.26	92	66.0	269	77	1816	73.3	27
195.0	57.6	1756	1560	8.00	93	67.2	262	77	1879	74.2	26
205.0	58.4	1790	1585	7.73	93	68.3	255	76	1935	74.8	26
215.0	59.2	1824	1610	7.49	93	69.3	247	76	1991	75.5	26
225.0	60.0	1857	1635	7.27	94	70.4	241	75	2047	76.1	25
235.0	60.8	1889	1658	7.05	94	71.5	234	75	2100	76.7	25

User requests exceeded database limits

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
10.79	85.0	917	Merchantable 17.5+

FILE : AU105.TIPAGENCY : MOF Research Branch
 : TIPSy Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:15:17REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 60% Coastal Douglas-fir Potential: 25.30 (site index) TASS
 v2.05.24b 97-OCT-09 25% Coastal Western Hemlock Potential: 22.31 (site
 index) TASS v2.05.24b 97-OCT-09 15% Western Redcedar Potential:
 25.30 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.4	0	0	0.00	0	0.5	1016	1	0	0.0	0
15.0	4.6	2	0	0.00	1	3.6	959	24	0	0.0	0
25.0	10.4	29	4	0.14	7	12.5	571	60	12	15.3	69
35.0	15.6	99	72	2.06	17	19.6	562	78	55	22.7	70
45.0	19.9	193	170	3.78	27	24.7	559	82	117	29.2	63
55.0	23.5	285	260	4.72	35	28.2	555	82	184	33.9	55
65.0	26.5	386	358	5.51	42	31.2	550	82	265	38.3	49
75.0	29.1	481	451	6.02	49	33.8	542	82	348	42.0	46
85.0	31.4	560	528	6.22	53	35.7	533	81	422	44.8	44
95.0	33.4	639	605	6.37	58	37.5	523	81	501	47.4	41
105.0	35.1	711	675	6.43	62	39.2	511	81	577	49.7	40
115.0	36.7	774	736	6.40	65	40.6	500	80	646	51.6	38
125.0	38.1	830	783	6.31	67	41.9	486	80	712	53.2	37
135.0	39.3	880	836	6.19	69	43.1	474	79	771	54.7	37
145.0	40.5	927	873	6.06	71	44.3	461	79	829	56.0	36
155.0	41.5	969	918	5.92	73	45.4	448	78	882	57.2	35
165.0	42.4	1008	953	5.78	74	46.4	436	78	934	58.2	35
175.0	43.3	1044	986	5.64	75	47.4	425	78	982	59.2	34
185.0	44.1	1077	1015	5.49	76	48.3	414	77	1027	60.1	34
195.0	44.8	1104	1039	5.33	77	49.1	404	77	1067	60.8	33
205.0	45.5	1129	1059	5.17	77	49.9	395	76	1104	61.5	33
215.0	46.1	1152	1079	5.02	78	50.6	386	76	1139	62.2	32
225.0	46.7	1175	1098	4.88	78	51.4	377	75	1174	62.8	32
235.0	47.3	1196	1115	4.74	78	52.1	368	75	1210	63.4	32
245.0	47.9	1215	1131	4.62	79	52.8	359	74	1244	64.0	32
255.0	48.4	1234	1146	4.49	79	53.5	351	74	1276	64.5	31
265.0	48.8	1251	1160	4.38	79	54.1	343	74	1306	65.0	31
275.0	49.3	1268	1174	4.27	79	54.8	336	73	1336	65.5	31
285.0	49.7	1282	1185	4.16	79	55.4	329	73	1363	65.9	31
295.0	50.1	1295	1195	4.05	79	56.0	322	72	1389	66.3	30

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.43	105.0	675	Merchantable 17.5+

FILE : AU107.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:16:26REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 40% Western Redcedar Potential: 29.00 (site index) TASS
 v2.05.24b 97-OCT-09 30% Coastal Douglas-fir Potential: 29.00 (site
 index) TASS v2.05.24b 97-OCT-09 30% Coastal Western Hemlock Potential:
 29.00 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.6	0	0	0.00	0	0.6	1013	1	0	0.0	0
15.0	5.8	4	0	0.00	1	4.7	834	28	0	0.0	0
25.0	12.7	56	24	0.94	12	16.2	568	71	29	18.8	70
35.0	18.7	182	160	4.56	26	24.2	563	82	110	28.5	67
45.0	23.7	330	304	6.76	38	29.5	559	83	217	35.7	55
55.0	28.0	493	463	8.43	49	33.8	551	83	351	42.0	48
65.0	31.7	645	612	9.42	59	37.3	539	82	490	47.0	44
75.0	34.8	789	752	10.02	66	40.2	522	82	636	51.3	41
85.0	37.6	919	876	10.31	73	43.0	501	81	779	54.9	38
95.0	40.0	1038	989	10.41	78	45.4	480	81	915	58.0	36
105.0	42.2	1147	1090	10.38	82	47.7	458	81	1045	60.6	35
115.0	44.1	1243	1177	10.24	85	49.8	437	80	1162	62.7	34
125.0	45.8	1331	1254	10.03	88	51.8	416	80	1273	64.7	33
135.0	47.3	1412	1326	9.82	90	53.6	399	79	1377	66.4	32
145.0	48.7	1483	1387	9.57	92	55.3	382	79	1471	67.8	31
155.0	50.0	1545	1440	9.29	93	56.9	366	78	1556	69.1	30
165.0	51.1	1600	1487	9.01	95	58.3	354	78	1634	70.2	29
175.0	52.2	1650	1529	8.74	96	59.6	343	78	1705	71.3	29
185.0	53.1	1697	1568	8.48	96	60.7	333	77	1775	72.2	28
195.0	54.0	1740	1605	8.23	97	61.9	324	77	1842	73.1	28
205.0	54.8	1780	1638	7.99	98	62.9	315	76	1903	73.9	28
215.0	55.6	1819	1670	7.77	99	63.9	307	76	1965	74.6	27
225.0	56.4	1855	1700	7.56	99	64.8	300	75	2026	75.4	27
235.0	57.1	1888	1729	7.36	100	65.7	294	75	2084	76.1	26
245.0	57.8	1920	1755	7.16	100	66.6	288	75	2138	76.7	26
255.0	58.5	1951	1781	6.98	100	67.4	282	74	2193	77.3	26
265.0	59.1	1979	1806	6.81	101	68.1	277	74	2247	77.9	25
275.0	59.7	2005	1829	6.65	101	68.8	272	73	2298	78.5	25
285.0	60.3	2030	1850	6.49	102	69.5	268	73	2346	79.0	25
295.0	60.8	2054	1871	6.34	102	70.1	264	72	2394	79.5	24

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
10.41	95.0	989	Merchantable 17.5+

FILE : AU108.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:17:05REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 40% Western Redcedar Potential: 22.60 (site index) TASS
 v2.05.24b 97-OCT-09 30% Coastal Douglas-fir Potential: 22.60 (site
 index) TASS v2.05.24b 97-OCT-09 30% Coastal Western Hemlock Potential:
 22.60 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.4	0	0	0.00	0	0.5	1015	1	0	0.0	0
15.0	4.1	2	0	0.00	1	2.9	966	17	0	0.0	0
25.0	9.4	19	1	0.04	5	10.9	575	51	6	14.0	68
35.0	14.0	78	50	1.43	15	18.2	564	75	43	21.0	71
45.0	18.1	166	144	3.20	24	23.5	560	82	100	27.7	68
55.0	21.5	264	240	4.37	33	27.4	557	82	170	32.9	60
65.0	24.5	354	327	5.03	40	30.3	552	82	238	36.8	54
75.0	27.0	452	423	5.64	46	32.9	547	82	319	40.6	49
85.0	29.3	542	511	6.01	52	35.1	539	81	400	43.8	46
95.0	31.3	623	591	6.22	57	36.9	532	81	478	46.5	44
105.0	33.0	695	661	6.29	61	38.5	523	81	553	48.8	42
115.0	34.6	769	732	6.37	65	40.1	511	80	634	51.0	41
125.0	36.0	833	794	6.35	68	41.5	499	80	707	52.9	40
135.0	37.3	889	847	6.27	70	42.7	488	79	774	54.5	39
145.0	38.5	942	897	6.18	72	43.9	477	79	837	56.0	38
155.0	39.5	990	942	6.08	74	45.0	467	78	899	57.3	37
165.0	40.5	1035	984	5.96	76	45.9	457	78	957	58.5	36
175.0	41.3	1076	1022	5.84	77	46.8	447	78	1011	59.6	36
185.0	42.1	1111	1054	5.70	78	47.7	438	77	1060	60.5	35
195.0	42.9	1141	1080	5.54	79	48.4	429	77	1103	61.3	34
205.0	43.5	1168	1104	5.39	80	49.1	421	76	1143	62.1	34
215.0	44.2	1195	1127	5.24	80	49.9	412	76	1184	62.8	34
225.0	44.9	1225	1154	5.13	81	50.6	403	75	1230	63.6	33
235.0	45.5	1253	1179	5.02	82	51.4	395	75	1275	64.3	33
245.0	46.1	1279	1202	4.91	83	52.1	388	74	1317	65.0	32
255.0	46.7	1304	1225	4.80	83	52.7	381	74	1356	65.7	32
265.0	47.2	1325	1243	4.69	84	53.3	374	74	1392	66.2	32
275.0	47.7	1342	1258	4.57	84	53.9	368	73	1425	66.7	31
285.0	48.2	1358	1271	4.46	84	54.4	362	73	1457	67.2	31
295.0	48.6	1372	1283	4.35	84	54.9	356	72	1487	67.6	31

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
6.37	115.0	732	Merchantable 17.5+

FILE : AU113.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:19:16REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 50% Coastal Western Hemlock Potential: 28.00 (site index) TASS
 v2.05.24b 97-OCT-09 40% Coastal Douglas-fir Potential: 31.62 (site
 index) TASS v2.05.24b 97-OCT-09 10% Western Redcedar Potential:
 28.00 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning.It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht. (m)	Volume (m3/ha) and MAI			All Trees 0.0+				250 Prime 12.5+		
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DBHg (cm)	LC (%)
5.0	0.7	0	0	0.00	0	0.7	1013	2	0	0.0	0
15.0	6.1	4	0	0.00	1	5.4	625	26	0	0.0	0
25.0	13.1	58	28	1.11	12	16.5	570	70	31	19.2	70
35.0	19.3	183	161	4.60	26	24.2	566	82	111	28.6	66
45.0	24.4	327	301	6.70	38	29.2	562	83	216	35.5	56
55.0	28.7	483	454	8.26	48	33.3	551	83	343	41.3	49
65.0	32.4	627	594	9.15	56	36.6	537	82	472	45.9	44
75.0	35.6	763	727	9.69	63	39.4	518	82	605	49.8	41
85.0	38.3	886	842	9.91	69	42.1	493	81	733	53.0	39
95.0	40.7	993	942	9.91	73	44.6	466	81	852	55.7	38
105.0	42.8	1095	1034	9.85	76	46.9	441	81	969	58.1	36
115.0	44.7	1191	1118	9.72	79	49.2	416	80	1082	60.2	35
125.0	46.4	1273	1187	9.50	81	51.4	390	80	1182	62.0	34
135.0	48.0	1346	1243	9.21	82	53.4	367	79	1274	63.6	33
145.0	49.4	1414	1297	8.95	83	55.3	347	79	1362	65.0	33
155.0	50.6	1477	1348	8.69	84	57.0	330	78	1446	66.2	32
165.0	51.8	1533	1391	8.43	85	58.6	317	78	1522	67.4	32
175.0	52.8	1582	1427	8.16	86	60.0	304	78	1591	68.4	31
185.0	53.8	1625	1460	7.89	86	61.2	294	77	1654	69.2	31
195.0	54.7	1665	1491	7.65	87	62.2	286	77	1714	70.0	30
205.0	55.5	1702	1521	7.42	87	63.2	279	76	1772	70.8	30
215.0	56.3	1738	1550	7.21	88	64.2	272	76	1828	71.5	29
225.0	57.0	1771	1575	7.00	88	65.1	266	75	1881	72.2	29
235.0	57.7	1796	1594	6.78	88	65.9	259	75	1928	72.7	29
245.0	58.4	1820	1610	6.57	88	66.6	253	75	1972	73.2	28
255.0	59.0	1842	1626	6.38	88	67.4	248	74	2013	73.7	28
265.0	59.6	1862	1641	6.19	88	68.1	243	74	2052	74.1	28

User requests exceeded database limits

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
9.91	95.0	942	Merchantable 17.5+

FILE : AU114.TIPAGENCY : MOF Research Branch
 : TIPS Version 2.1ePROJECT : Future Managed-Planted&Spaced
 : Nov 22/99; 10:22:34REGEN : Planted
 : 1 years (Regeneration)DENSITY : 1200 trees/ha
 : Plant 1 year old stockTREAT. : PC thinned to 700
 Operational Adjustment Factors: OAF1: 0.85 OAF2: 0.95 Combined OAF:
 0.81SPECIES TOP HEIGHT (m @ BH AGE 50) SOURCE
 55% Coastal Western Hemlock Potential: 23.80 (site index) TASS
 v2.05.24b 97-OCT-09 30% Coastal Douglas-fir Potential: 26.95 (site
 index) TASS v2.05.24b 97-OCT-09 15% Western Redcedar Potential:
 23.80 (site index) TASS v2.05.24b 97-OCT-09
 Multiple Species option aggregates pure stands for forest-level
 planning. It is NOT VALID for mixed-species SILVICULTURAL applications.--

MANAGED STAND YIELD TABLE

Age (yr)	Top Ht (m)	Volume (m3/ha) and MAI			All Trees 0.0+			250 Prime 12.5+			
		Gross 0.0+	Merch 17.5+	MAI	BA (m2)	DBHg (cm)	TREES (#/ha)	CC (%)	M Vol (/ha)	DRHg (cm)	LC (%)
5.0	0.6	0	0	0.00	0	0.6	1014	1	0	0.0	0
15.0	4.8	2	0	0.00	1	3.7	969	23	0	0.0	0
25.0	10.6	30	5	0.19	8	12.9	575	57	14	15.7	69
35.0	15.8	108	85	2.43	19	20.4	567	77	62	23.8	70
45.0	20.2	211	189	4.20	29	25.4	564	82	132	30.2	65
55.0	23.9	320	296	5.38	37	29.1	560	82	212	35.2	57
65.0	27.2	436	409	6.29	45	32.2	553	82	305	39.6	51
75.0	30.0	541	512	6.82	51	34.7	543	82	396	43.2	48
85.0	32.4	643	611	7.19	57	36.9	533	81	491	46.3	45
95.0	34.6	736	701	7.38	62	38.8	520	81	582	48.9	43
105.0	36.5	823	785	7.48	65	40.7	504	81	675	51.3	41
115.0	38.2	898	855	7.44	68	42.3	487	80	757	53.3	39
125.0	39.7	967	920	7.36	71	43.9	469	80	837	55.1	38
135.0	41.1	1033	980	7.26	73	45.4	453	79	915	56.7	38
145.0	42.4	1094	1035	7.14	75	46.7	438	78	989	58.2	37
155.0	43.5	1150	1086	7.01	77	48.0	425	78	1059	59.5	36
165.0	44.6	1200	1131	6.85	78	49.2	411	78	1123	60.6	35
175.0	45.5	1241	1165	6.65	79	50.3	399	78	1179	61.6	35
185.0	46.4	1279	1195	6.46	80	51.3	386	77	1231	62.5	34
195.0	47.2	1315	1224	6.28	80	52.4	373	77	1281	63.3	34
205.0	48.0	1350	1253	6.11	81	53.3	363	76	1333	64.1	33
215.0	48.7	1384	1282	5.96	82	54.3	353	76	1382	64.9	33
225.0	49.4	1415	1308	5.82	82	55.2	343	75	1430	65.6	33
235.0	50.1	1443	1331	5.66	83	56.0	335	75	1475	66.2	32
245.0	50.7	1466	1348	5.50	83	56.8	326	75	1515	66.8	32
255.0	51.2	1487	1364	5.35	83	57.5	318	74	1553	67.3	32
265.0	51.8	1507	1379	5.20	83	58.3	311	74	1588	67.9	32
275.0	52.3	1526	1393	5.07	83	58.9	304	73	1622	68.3	31
285.0	52.8	1543	1406	4.93	83	59.6	298	73	1654	68.8	31
295.0	53.2	1558	1418	4.81	83	60.1	293	72	1688	69.2	31

MAXIMUM MEAN ANNUAL INCREMENT TABLE

Max MAI (m3/ha)	Age (yr)	Volume (m3/ha)	Utilization Standards
7.48	105.0	785	Merchantable 17.5+