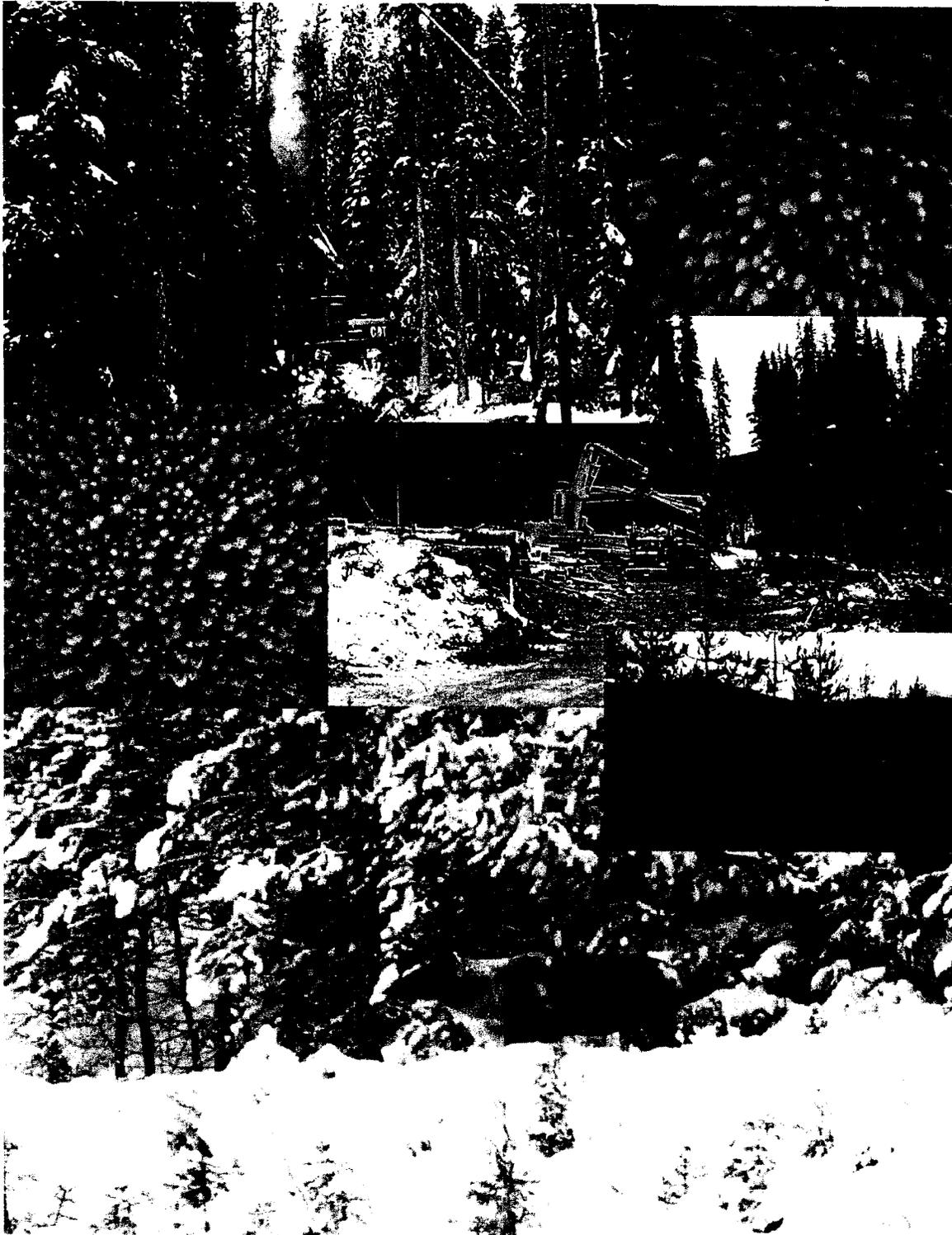


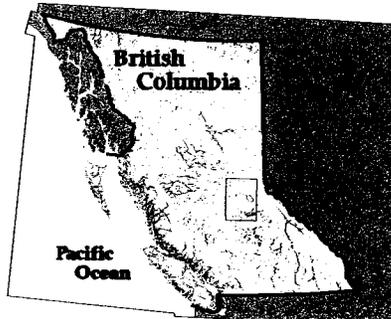
**TFL 52
Twenty Year Harvest Plan
In Support of the Timber Supply
Analysis for Management Plan No. 3**

Final Report

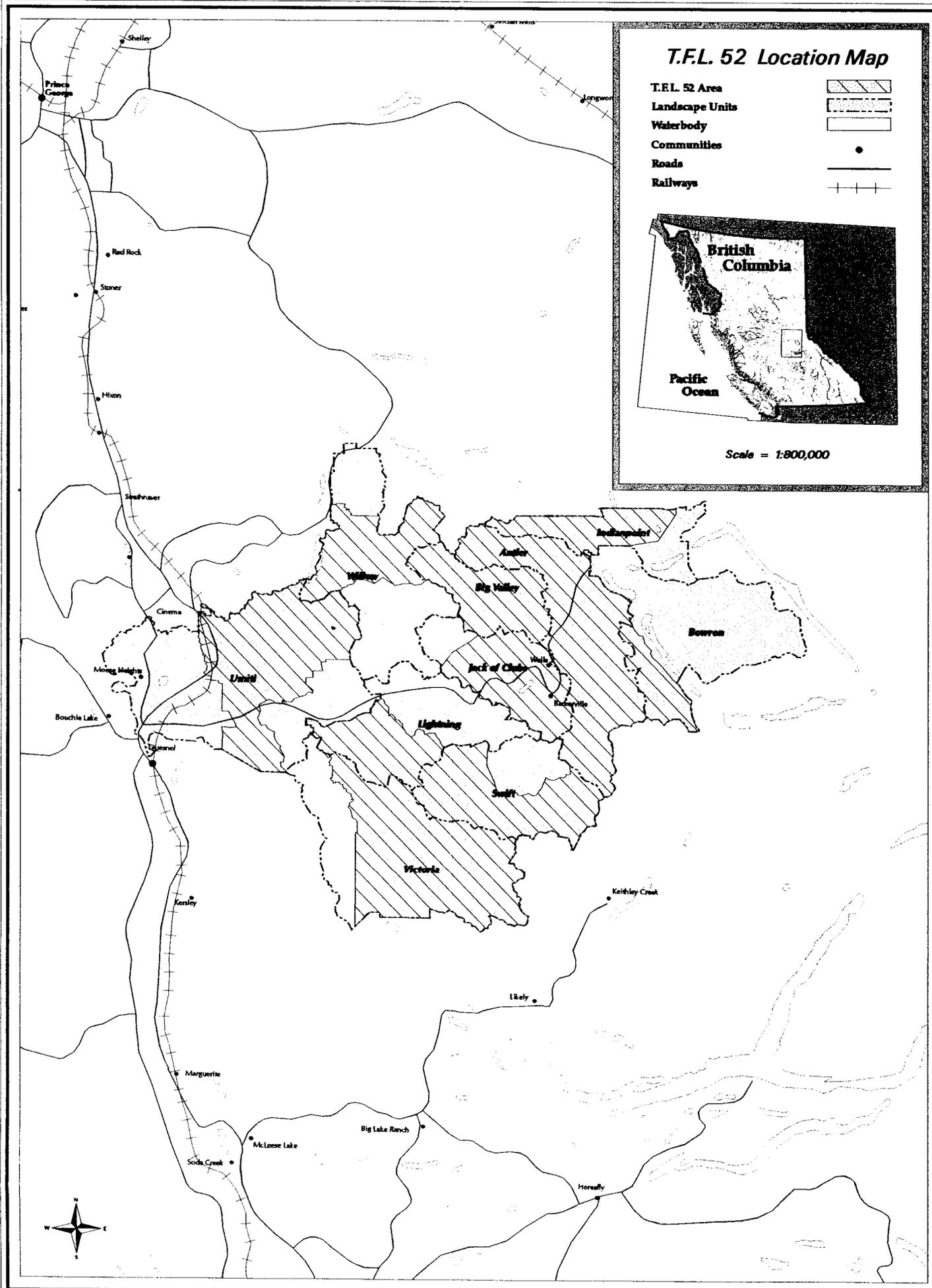


T.F.L. 52 Location Map

- T.F.L. 52 Area 
- Landscape Units 
- Waterbody 
- Communities 
- Roads 
- Railways 



Scale = 1:800,000

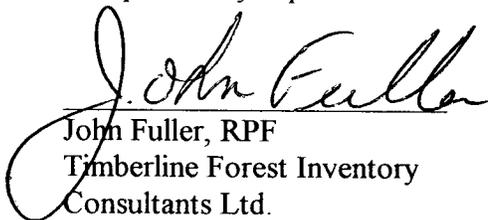


ACKNOWLEDGEMENTS

West Fraser Mills Ltd., Quesnel Division and Timberline Forest Inventory Consultants Ltd., Prince George Divisional Office prepared the Twenty Year Plan

Professional Forester Certification

I certify that this work fulfills acceptable standards and that I did personally supervise the work.


John Fuller, RPF
Timberline Forest Inventory
Consultants Ltd.



Key Map
 Acknowledgements/RPF Certification

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APPENDICES

- Appendix I Seral Stage Distribution Reports
- Seral Stage by L.U. by NDT & Emphasis Option
 - Graphical Representation by NDT
- Appendix II Twenty Year Harvest Plan Patch Size Distribution by L.U. by NDT and Total TFL
- Appendix III TFL 52 Patch Distribution Maps 2000 and 2019
- Appendix IV Final Twenty Year Harvest Plan Maps by Landscape Unit (Pocket – C.D. or Plotted Maps under separate cover)
- Appendix V Twenty Year Harvest Plan and Period Reports for Volume & Area. (under separate cover)
These are organized by L.U., blocks are identified by polygon number, and the reports are collated to Periods as follows;
- 2000-2019, 20 Year Harvest Plan, (Plus Period 4 Blocks)
 - 2000-2008, Period One Development Plan Blocks (9 Years)
 - 2009-2013, Period Two (5 Years)
 - 2014-2019, Period Three (6 Years)
 - 2020-2024, Period Four (5 Years) – Note, this period displays area & volume summaries of blocks that are surplus to the Twenty Year Plan at the current AAC.
- Appendix VI Aerial Photos Displaying Proposed Block and Road Location. Laser copy of a stereo pair from map 93H013 are presented here. Note: Full Set of Photos are Available for Review Upon Request
- Appendix VII Sample Harvest Planning Base Map 93H013 – Originals with Mylar Overlay are Available for Review Upon Request
- Appendix VIII TFL 52 Overview Map, Maturity Status Year 2019



1.0 BACKGROUND

West Fraser Mills Ltd., Quesnel Division (West Fraser) is preparing Management Plan No. 3 for our Cottonwood Tree Farm Licence No.52 (TFL 52), for presentation to the Chief Forester. This Twenty Year Harvest Plan is prepared in support of the TFL 52 Timber Supply Analysis (TSA) which is an integral part of the Management Plan. The purpose of the Twenty Year Harvest Plan is to confirm that the volume indicated in the TSA is available within TFL 52 given the current operational rules and guidelines, which constrain timber harvesting activities. This Twenty Year Harvest Plan will be presented to the District Manager of the Quesnel Forest District for review and acceptance.

West Fraser began work on this Twenty Year Harvest Plan in January of 1998 and retained Timberline Forest Inventory Consultants Ltd. at this time to assist. As in the previous plan (1995) we decided that the planning process would be as operational as practicable, and not simply a "paper exercise" organized to meet the minimum requirements of a Twenty Year Harvest Plan.

West Fraser and Ministry of Forests staff recognize that some difficulty in planning occurs as a result of revisions to guidelines. Preparation of the Twenty Year Harvest Plan incurred frequent revisions, some of which are noted in the following paragraphs. During the period that the Twenty Year Harvest Plan has been in preparation, the boundaries of the mountain caribou habitat have been under development by the Regional Caribou Committee to satisfy a requirement of the Cariboo-Chilcotin Land Use Plan (CCLUP). As the final boundaries have not yet been finalized, the boundaries as they were identified in May 2000 have been used in the preparation of this plan.

Consideration for large blocks within the Natural Disturbance Type #3 (NDT3) in excess of the 60 hectare (ha) maximum was deemed to have been achieved through the existence of large contiguous harvest patches resulting from Bowron beetle salvage operations in the 1980's. The 1995 Plan incorporated Forest Ecosystem Networks (FEN) as a surrogate for biodiversity planning. In this plan, FEN were dropped because of the Forest Practices Code requirement to establish riparian management reserves on major streams and wildlife tree patches equaling 9% of the area of each cut block. A stream classification survey was completed in 1999 to assist in establishing riparian reserves and riparian management areas for the Management Plan.

Terrain stability mapping was completed on the TFL in 2000. A review of all Terrain Class IV (potentially unstable) and V (unstable) polygons was done to establish a first approximation of inoperable ground. The areas identified as inoperable are currently excluded from this harvest plan.

West Fraser, in consultation with the involved government agencies, has incorporated current operating guidelines and resource data as they became available, up to May 2000. It is not practicable to revise the Harvest Plan to reflect all changes that may have arisen between May 2000 and the date of submission.

West Fraser has made a considerable effort to respond to the requirements of the Forest Practices Code and the Caribou-Chilcotin Land Use Plan. Those reviewing and critiquing this Harvest Plan are asked to remember that it applies to a five year term only, and that work will begin on the next Management Plan in 2003.

2.0 PLANNING TEAM PARTICIPANTS

West Fraser staff from our harvest and inventory departments, and Timberline planning and GIS staff prepared the Twenty Year Harvest Plan, with frequent contact with involved government agency staff regarding resource planning issues.

Input from the general public and interested groups was solicited during the preparation of the Statement of Management Objectives, Options, and Procedures (SMOOP) and during the recreation inventory. It was West Fraser's objective to undertake the Twenty Year Harvest Planning process with full understanding of the resource planning issues of the involved government agencies. This objective was accomplished by holding joint meetings to review aspects of the plan. All involved agencies are familiar with the process used to prepare this plan and many have had opportunity to review the data referenced in this report. This level of participation was sought to incorporate the concerns of the various agencies, and to address the frequency of changes to guidelines impacting on the harvesting process. We believe that this groundwork will expedite the review and approval of this Twenty Year Harvest Plan by the involved government agencies.

3.0 RESOURCE INVENTORY INFORMATION

The most current data for identified resources on TFL 52 were acquired for the Twenty Year Harvest Plan process. The various types of data used are described below.

3.1 Vegetation Resources Inventory and Update

The vegetation maps are digital (Arc/INFO) BCGS NAD 83 format. An update for forest depletion, reforestation, and silvicultural activities to November 30, 1999 was undertaken to provide the most current vegetation cover planning base. The update was applied to the new Vegetation Resources Inventory (VRI) carried out in 1997/99 for the entire Tree Farm. Forest attribute data was projected to November 1999 and polygon volume by species was calculated using the Variable Density Yield Projection (VDYP) model. Planned and historic harvest activity adjacent to the TFL was obtained from the MoF and added to the planning base. The Ministry of Forests at the Quesnel Forest District office supplied the forest inventory data for the adjacent Bowron Lakes Provincial Park.

3.2 TRIM 2

The new TRIM 2 digital maps with 20 metre contour intervals were used as the source of topographic data. This new mapping contains enhanced planimetric detail for non-forest features such as streams, swamps, rock, and lakes.

3.3 Landscape Units

The harvest planning and attendant tables displayed in this Twenty Year Harvest Plan are based on Landscape Units originating from the CCLUP and subsequent modifications made to the original Landscape Unit boundaries in consultation with the MoF.

The initial planning for this Twenty Year Harvest Plan was based on traditional West Fraser Operating Units rather than Landscape Units until the latter were confirmed. The previous 1995 Harvest Plan was based on Operating Units which were deemed adequate to evaluate landscape issues such as seral age class distribution. A serious deficiency with the use of Landscape Units as a planning base for TFL 52 is the difficulty to plan for future activities and to account for past practices, as management of activities within much of the Landscape Units as they are currently defined, is undertaken by other agencies. A portion of all but one of the ten Landscape Units located on TFL 52 are occupied by one or more other tenures which are managed by other licensees or agencies. The following table shows the area of Landscape Units within and outside the TFL.

Table 1 TFL 52 Landscape Unit Summary (ha)

<u>Emphasis</u>	<u>LU Name</u>	<u>Total Area</u>	<u>Non-TFL</u>	<u>TFL Area</u>	<u>% LU in TFL</u>	<u>% of TFL 52 by LU Emphasis</u>
HIGH	VICTORIA	<u>64207</u>	<u>15911</u>	<u>48296</u>	<u>75.2%</u>	
	sub-total	64207	15911	48296	N/A	18.7%
INTERMED	ANTLER	47139	1120	46019	97.6%	
INTERMED	UMITI	<u>83673</u>	<u>43914</u>	<u>39758</u>	<u>47.5%</u>	
	sub-total	130811	45034	85778	N/A	33.1%
LOW	BOWRON	48431	40087	8343	17.2%	
LOW	BIG VALLEY	19497	4	19493	100.0%	
LOW	LIGHTNING	35905	19766	16139	44.9%	
LOW	SWIFT	36608	9394	27215	74.3%	
LOW	JACK OF CLUBS	26291	5879	20412	77.6%	
LOW	WILLOW	47742	27775	19966	41.8%	
LOW	INDIANPOINT	<u>20343</u>	<u>7117</u>	<u>13226</u>	<u>65.0%</u>	
	subtotal	234816	110022	124795	N/A	48.2%
	TOTALS	429835	231911	258868	60.2%	100.0%

West Fraser has based all of the analysis on the portions of LU within TFL 52.

3.4 Recreation and Landscape Inventories

West Fraser considered the existing Visual Landscape Inventory in the preparation of this Harvest Plan and the labeled landscape polygons are displayed on the planning base maps. An update of the Recreation Features Inventory of TFL 52 was undertaken in 1999. This inventory was designed by West Fraser and Quesnel Forest District staff to co-ordinate with existing recreation inventory data. This inventory was undertaken concurrently with the Harvest Planning. Some recreation features such as hiking trails and cabins were identified on the vegetation cover database. Draft manuscript recreation and landscape maps were referred to during the harvest planning process as they became available. The Twenty Year Harvest Plan will conform to most but perhaps not all current Recreation Features Inventory considerations. It is envisioned that revisions undertaken for Management Plan 4 will fully incorporate these inventory considerations. Operational development planning will identify and address the specific issues regarding historic sites.

3.5 Biogeoclimatic Subzone/Variant

On TFL 52, West Fraser undertook a Terrestrial Ecosystem Mapping (TEM) classification during the term of MP No.2. This classification was used to determine the sub-zone/variant boundaries and subsequently the Natural Disturbance Type (NDT) boundaries within the TFL. The MoF has specified that the SBSwk1 (mountain) variant, which is in NDT 2, applies to all SBS wk1 east of the Fraser River.

3.6 Riparian Management Areas

During the term of MP 2, West Fraser undertook a fish and fish habitat inventory project that provided stream classification interpretations. Gaps in the information were filled by interpretations undertaken by West Fraser staff. Lake classification information on TFL 52 was provided by the MoF. The TRIM 2 data provided enhancements of the S5 and S6 streams. Based on Forest Practice Code guidelines, riparian reserve zones (RRZ), and riparian management zones (RMZ) have been assigned to all stream, lake, and wetland features using GIS. These features were buffered using the appropriate RRZ width and the operational RMZ width as derived from the RMZ basal retention goals (see Table 2). These buffers are displayed on the base maps used in the preparation of the Twenty Year Harvest Plan. These buffers were considered non-harvest zones in the compilation of the block area and volume reports.

The applied exclusions for RRZ and RMZ used in the Twenty Year Harvest Plan are tabled below.

Table 2 Riparian Reserve Zone Buffer Widths, Riparian Management Zone Basal Area Retention Objectives, and Resultant Widths Used for Twenty Year Harvest Plan

RRZ & RMZ Classification	RRZ Width (m)	RMZ Width (m)	Average BA Retention (%)	Map Width of RMZ Buffer (m)
S1	50	20	50	10.0
S2	30	20	50	10.0
S3	20	20	50	10.0
S4	-	30	25	7.5
S5	-	30	25	7.5
L1	10	30	25	7.5
L3	-	30	25	7.5
Class A lake	10	200	100	200
Class B lake	10	150	90	135
Class C lake	10	100	80	80
Class E lake	10	25	50	12.5
W1	10	40	25	10
W3	-	30	25	7.5
W5	10	40	25	10

S6 streams were not included in the GIS buffering exercise because of the small area they represent.

3.7 Mule Deer and Caribou

A portion of the mule deer winter range as defined by the MoELP in the June 1993 draft of the Lower Quesnel Mule Deer Winter Range Plan occurs within the TFL. The related harvest constraints for this designated area were incorporated in this Harvest Plan.

Considerable caribou habitat exists within TFL 52. Extensive and ongoing discussions have been held with the MoELP and MoF in regard to defining caribou habitat zones to meet the goals of the CCLUP. The “no harvest”, “modified harvest”, and “conventional harvest” zones as they were defined as of May 2000 were transferred as a layer to the vegetation cover database and displayed on the map base used for the preparation of the Twenty Year Harvest Plan. Special harvest procedures, employing selective patch harvest with 67% volume retention, have been proposed for the modified harvest zone in the Twenty Year Harvest Plan. At the time of this plan, the boundaries of these zones have not been confirmed nor have modified harvest guidelines been confirmed.



3.8 Aerial Photo Coverage

The complete coverage of TFL 52 mid-elevation aerial photos was obtained specifically for the purpose of preparing this operational Twenty Year Harvest Plan. These are 1997 black and white infra-red aerial photos at 1:15,000 scale (nominal), and are presented as part of the plan as Appendix VI, which will be made available to any interested party. A lasercopy of a typical stereo pair are displayed in Appendix VI in this text.

3.9 Green-up for Adjacent Block Harvest

The following table shows the guidelines that are used for three metre green-up, the required minimum height that satisfactorily regenerated blocks achieve before planned harvest of adjacent stands is considered.

Table 3 Years to Three Metre Green-up Height by Species by Site Index Classes (1)

Species	Biogeoclimatic Subzone	Years to 3 Metres by Site Index			
		Site Index (good site)		Site Index (med-poor site)	
Spruce	ESSF/SBS	17 m	14 years	8 m	16 years
Balsam	ESSF/SBS	17 m	14 years	7 m	16 years
Pine	ESSF/SBS	18 m	9 years	10 m	11 years
Fir	ESSF/SBS	19 m	14 years	9 m	16 years

(1) Years from year of planting: A 2 year regeneration delay (period from year of harvest to year of planting) was assumed.

Whereas the Development Plan blocks, in keeping with current practice, do not indicate a proposed year of harvest, green-up periods were determined by assuming the following harvest and reforestation dates by category as shown below in Table 4.

Table 4 Reforestation Year Assumed for the Development Plan Blocks by Category

Block Category	Harvest Year	Reforestation Year
Cutting Permit Approved	2001	2003
Category A Approved	2003	2005
Category A Proposed	2005	2007
Category I Information	2007	2009

3.10 Terrain Stability Mapping

West Fraser undertook a Terrain Stability Mapping inventory on TFL 52 during the term of MP No.2. This project used aerial photo interpretation combined with ground confirmation to rate all areas on the TFL for potential instability. Some of the polygons were classified as inoperable after review by West Fraser staff and were displayed on the base maps used for the Twenty Year Harvest Plan. Timber harvesting and road construction was not planned for areas classed as inoperable.

4.0 HARVEST PLANNING GUIDELINES

The harvest planning guidelines incorporated in this Twenty Year Harvest Plan are identified below:

4.1 Block Size

- SBS biogeoclimatic Subzone 60 hectares
- ESSF biogeoclimatic Subzone..... 40 hectares
- Caribou modified zone..... selective patch harvest

4.2 Harvest System

- SBS and ESSF subzones, system selection to match terrain; options are:
 - Conventional
 - Cable
 - Helicopter

Note: This plan proposes no helicopter harvesting. However, West Fraser will consider helicopter harvest in appropriate circumstances

4.3 Silvicultural System

- SBS and ESSF subzones, system selection to meet anticipated silvicultural requirements, and landscape and recreation concerns considered, are:
 - Clear-cut
 - Selective harvest - harvest of 50% of the block volume is planned for selective harvest
 - Patch harvest - selective patch harvest is the only system proposed within the ESSF caribou modified harvest zone, with an estimated 33% block volume removal

4.4 Leave Strip Width

- SBS and ESSF, leave strip to be 400 metres minimum width.
- Minor exceptions were permitted where topographical/vegetation features recommended a lesser distance.

- In the instance of small blocks, generally 6 to 20 ha, the minimum leave strip width is equal to the block width.

Almost all leave strips meet or exceed the minimum widths.

4.5 Stream, Wetland, and Lake Riparian Zones

Riparian Reserve Zones and Riparian Management Zones have been accounted for in this Twenty Year Harvest Plan as detailed in the preceding section and as displayed on the harvest maps. The prescriptions for riparian reserves and management zones will be completed for harvest blocks to meet the requirements of the Forest Practices Code when Silvicultural Prescriptions are prepared.

4.6 Wildlife Tree Patches

Wildlife Tree Patches (WTP) have been identified within harvest blocks that are classified as "approved" from the Development Plan harvest blocks. Wildlife Tree Patches are not identified for other blocks in this Twenty Year Harvest Plan. The Quesnel Forest District guideline for WTP is 9% of the block area, and WTP can be in-block, adjacent to a block or aggregated centrally between a number of blocks in the same cutting permit. The designation of WTP on a cutting permit and by block basis will occur when the blocks are developed during the Development Plan process. In the Timber Supply Analysis, a proportional netdown for future WTP has been made.

5.0 TWENTY YEAR HARVEST PLANNING PROCESS

The steps undertaken in the preparation of this operational Twenty Year Harvest Plan are briefly described below.

5.1 Transfer Recent Harvest and Road Activity to Photos

The location of harvesting and roading that occurred after the acquisition date of the 1:15,000 photography used for operational harvest planning were transferred from map to the photos. The proposed blocks and roads from the current Development Plan were also transferred to these the photos.

5.2 Preparation of Planning Base Maps

The forest cover digital data-base was themed at a 1:20,000 scale to identify merchantable timber polygons, regenerated stands less than 3 metres tall and regenerated stands greater than 3 metres tall, NSR, planimetric features (road, water, nonforest polygons), ownership to identify non-TFL lands, and biogeoclimatic subzones. The mule deer winter range habitat zone and caribou habitat zones (as of May 2000) were also displayed to assist in harvest planning.



An overlay mylar was prepared displaying the TRIM 2 20 metre contours, vegetation type polygon boundaries, planimetric features, landscape inventory polygons, and the Development Plan blocks. These mylars were used in conjunction with the prints to provide the planning base maps.

An example of one of the themed base maps and corresponding mylar overlays are displayed in Appendix VII. The full set is available for review if desired.

5.3 Harvest Block and Road Design

The harvest block and roads were designed on aerial photos, viewed in stereo, by experienced layout staff. The current Development Plan blocks were incorporated into the Twenty Year Harvest Plan. Design work was initially undertaken on traditional TFL 52 Operating Areas, and subsequently stratified by Landscape Units when the format for these was determined. The designed blocks and roads were transferred from aerial photos to the mylars. The transfer referenced planimetric and topographic features to ensure accurate transfer. An example of a representative aerial photo used for design by this method is contained in Appendix VI and the whole photo set is available for review by any interested party.

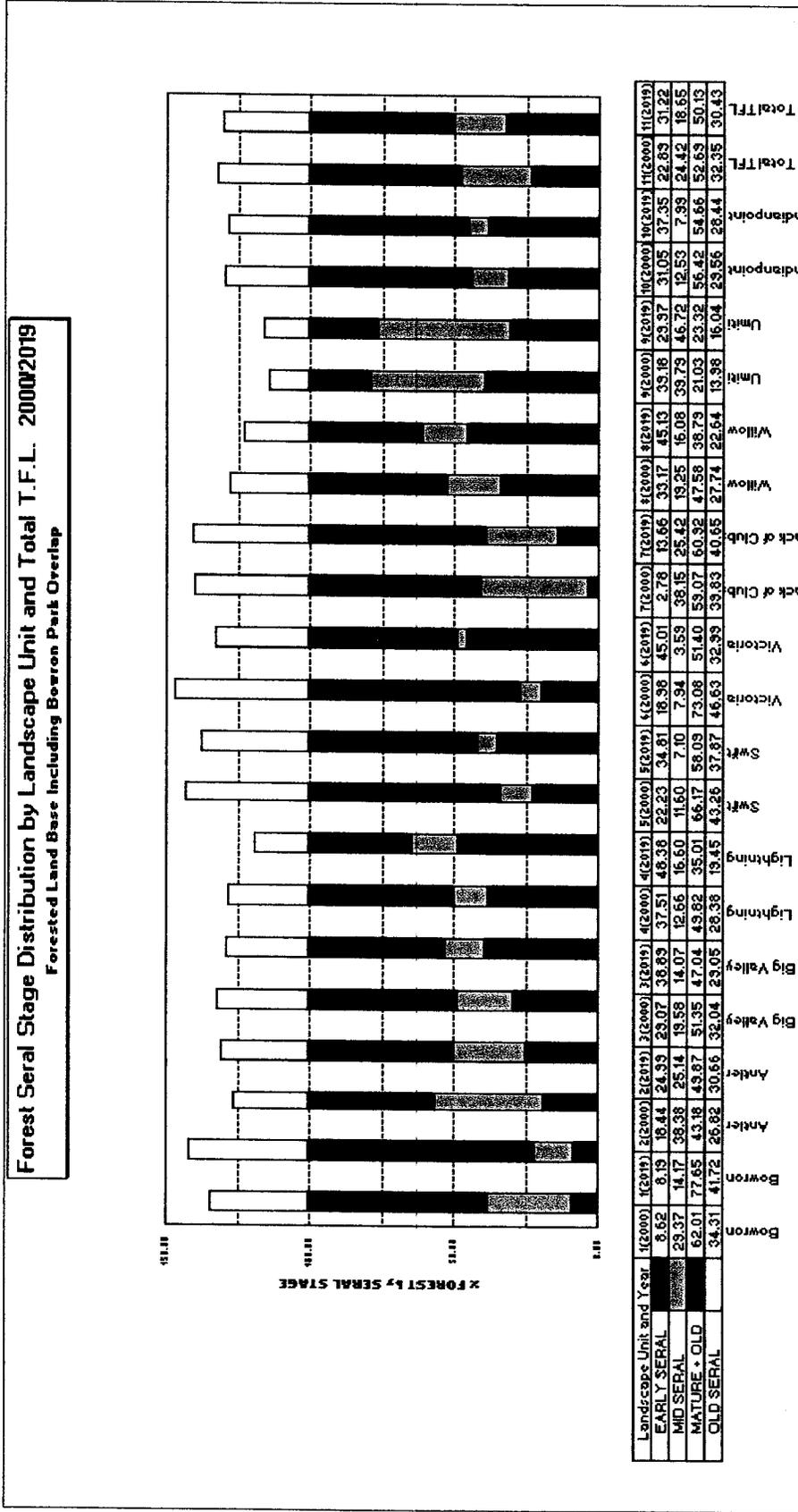
Although the harvest blocks and road design was completed by experienced staff and reviewed by persons knowledgeable of the area, no field verification was undertaken. For this reason, road and block locations may require alteration to meet site specific requirements in the field.

5.4 Digital Loading, Block Area, and Volume Reports

The planned road and block locations were digitized as a layer in the database. Each planned block was assigned a unique polygon number. The GIS generated a block area and volume report. The volume reports were derived using VDYP and the updated vegetation cover database. The volumes are net of decay, waste, and breakage factors. These factors were obtained from F.I.Z. I and PSYU 477 and they are based on current utilization standards.

Initial block area and volume reports were prepared and used to edit block areas to comply with guidelines. Harvest blocks were assigned to harvest year and harvest period and rationalized to provide sufficient volume to meet the current annual allowable cut for the harvest periods. These were initially summarized by traditional Operating Areas and were subsequently subdivided to Landscape Units once the boundaries of the latter had been determined.

Table 5 Graphical Representation of the Change to the TFL 52 Seral Stage Distribution Over the Term of the Twenty Year Harvest Plan, 2000 to 2019



6.2 Area and Volume Reports

The total volume of the blocks proposed in the Development Plan represent over nine years of harvest at the current annual allowable cut for the TFL, therefore the Development Plan will compose the first period of the Twenty Year Plan, years 2000-2008. The balance of the proposed blocks are displayed as period two, a five year period (2009-2013) and as period three, a six year period (2014-2019). Area and volume reports for the twenty year blocks are contained in Appendix V. The reports display the unique harvest block polygon number and BCGS mapsheet to enable blocks to be easily located. The harvest and silviculture systems are displayed on the area tables. The reports are organized by Landscape Units, and by total TFL.

The block volume reports identify the volume by species and total block volume, as derived through VDYP applied to the vegetation inventory updated to November 1999. The proposed harvest and silvicultural systems are indicated for period two and three blocks. Partial harvest as proposed for blocks within the caribou zone and landscape polygons classified as partial retention, intends one third volume removal for first pass harvest.

The following table displays the area and volume proposed by LU for the three Twenty Year Harvest Plan periods.

Table 6 Area and Volume Summary by LU for the Three Periods of the Twenty Year Harvest Plan

Landscape Unit	Harvest Period							
	2000 - 2008		2009 - 2013		2014 - 2019		Total	
	area ha	volume m ³	area ha	Volume m ³	area ha	volume m ³	area ha	volume m ³
Antler	1,732	486,069	1,351	361,473	1,090	299,852	4,174.3	1,147,395
Big Valley	1,325	325,399	695	209,805	430	124,856	2,451.3	660,061
Bowron	324	100,124	129	19,985	295	97,892	749.5	218,002
Indianpoint	1,135	368,220	238	77,463	503	129,576	1,877.3	575,259
Jack of Clubs	1,399	337,991	714	144,006	248	55,624	2,361.9	537,623
Lightning	1,132	390,874	605	197,505	1,199	302,160	2,936.7	890,539
Swift	1,631	463,891	1,084	295,767	1,138	313,127	3,853.7	1,072,785
Umiti	1,600	518,964	2,082	602,314	1,112	366,044	4,795.1	1,487,322
Victoria	5,622	1,762,251	2,844	912,521	3,557	1,171,253	12,024.3	3,846,027
Willow	<u>1,443</u>	<u>453,675</u>	<u>716</u>	<u>173,774</u>	<u>758</u>	<u>212,115</u>	<u>2,918.7</u>	<u>839,566</u>
	<u>17,348</u>	<u>5,207,462</u>	<u>10,461</u>	<u>2,994,617</u>	<u>10,333</u>	<u>3,072,503</u>	<u>38,142.8</u>	<u>11,274,584</u>

6.3 Patch Size Distribution

An analysis of patch size distribution was prepared at the beginning of the Twenty Year Harvest Plan (year 2000), and again at the end of the first twenty years (year 2019). The Biodiversity Guidebook recommended process for determination of patch size, using a twenty year period from year of harvest as the term of block contribution to a patch, was employed to define patches on the TFL. The tabular analysis outputs are displayed by NDT's for the Landscape Units in Appendix II. Two maps, see Appendix III, display TFL 52 patches as of year 2000 and year 2019.

The following table displays the resulting patch size distribution for the entire TFL.

Table 7 Change in Patch Size Distribution by NDT for the Twenty Year Harvest Plan on TFL 52

TFL 52 - All Landscape Units

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 250 ha (ha)	250 - 1000 ha (ha)
Guidebook	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
Recommended									
2000	851.97	2639.47	8948.55	770.15	3246.48	10600.46	375.74	3411.69	611.30
2019	5738.61	4469.81	3629.48	3425.20	3857.01	7460.97	1498.62	5120.28	3076.72
	6.85	21.22	71.93	5.27	22.21	72.52	8.54	77.56	13.90
	41.47	32.30	26.23	23.23	26.16	50.61	15.46	52.81	31.73

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note: Patch size totals less than size category are due to patches straddling disturbance types.

6.4 Landscape Unit Twenty Year Harvest Plan Maps

A Twenty Year Harvest Plan has been prepared for each Landscape Unit. These maps display proposed roads and blocks by category for the period one Development Plan blocks, and by the two subsequent periods, 2009-2013 and 2014-2019. The number of blocks designed exceeded the needs of the Twenty Year Harvest Plan. While a portion of these extra blocks are scheduled to the five year period 2020-2024, a significant number of these blocks could be harvested earlier. The blocks placed in the five year period 2020 to 2024 are displayed on the maps by outline only.

The maps also display NSR, immature less than three metres in height and immature greater than three metres in height to confirm planning for adjacency and green-up concerns.

The maps also display roads, streams, swamps, lakes, inoperable areas, riparian reserves and riparian management zone buffers and WTP for category "approved" development plan blocks, caribou habitat, and mule deer habitat. Each block has a unique polygon number identifier and the BCGS 1:20,000 mapsheet number is shown. The Landscape Unit Twenty Year Harvest Plan maps are displayed in Appendix IV.

Due to the volume of data displayed on the harvest plan maps they are presented at a scale of 1:20,000 to facilitate interpretation.

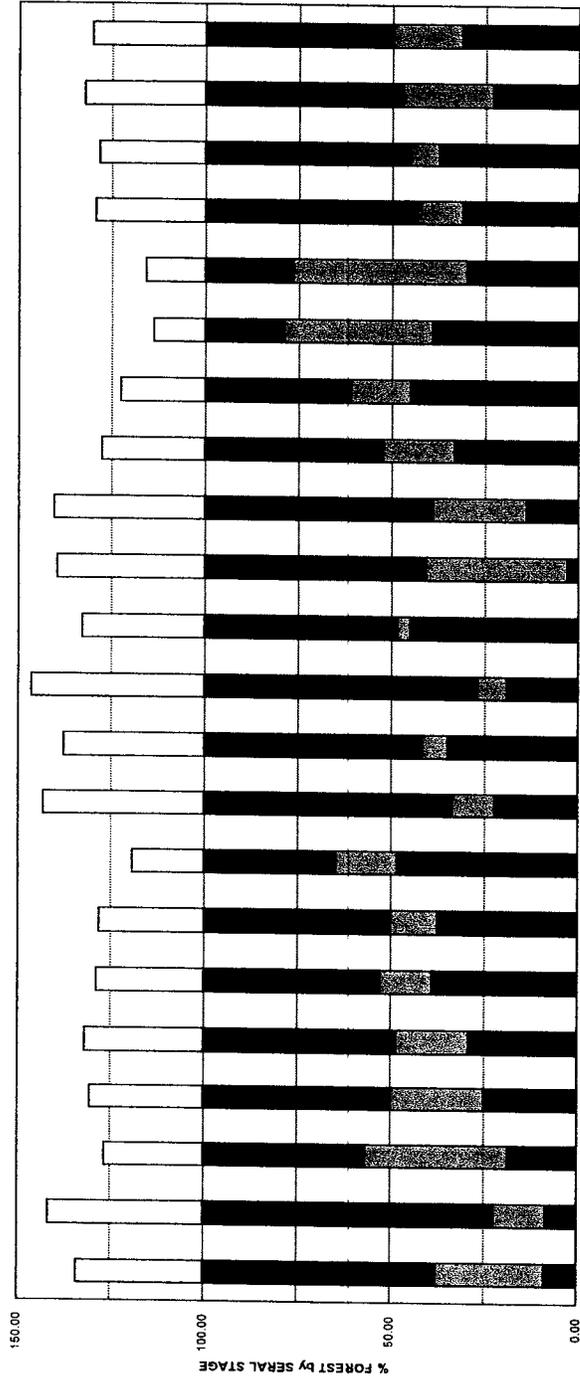
APPENDIX I

SERAL STAGE DISTRIBUTION REPORTS

- Seral Stage by L.U. by NDT by Subzone/variant
- Graphical Presentation by NDT & Total TFL

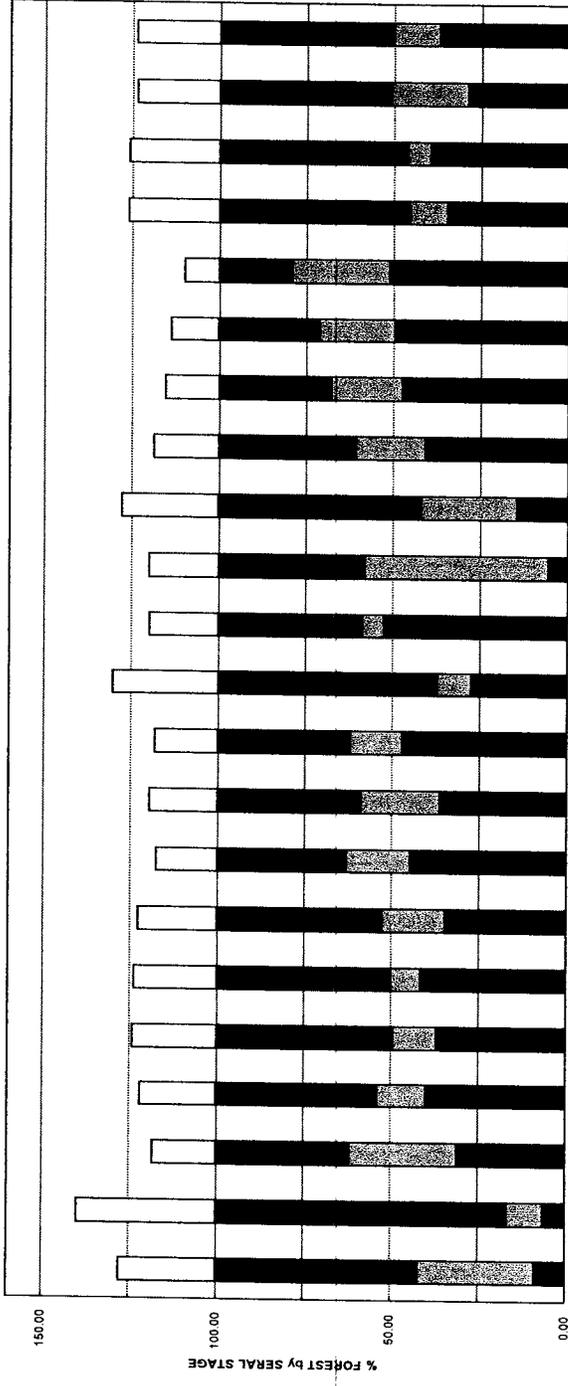


Forest Seral Stage Distribution by Landscape Unit and Total T.F.L. 2000/2019
Forested Land Base Including Bowron Park Overlap



Landscape Unit and Year	1(2000)	1(2019)	2(2000)	2(2019)	3(2000)	3(2019)	4(2000)	4(2019)	5(2000)	5(2019)	6(2000)	6(2019)	7(2000)	7(2019)	8(2000)	8(2019)	9(2000)	9(2019)	10(2000)	10(2019)	11(2000)	11(2019)	Total TFL
EARLY SERAL	8.62	8.19	18.44	24.98	29.07	36.89	37.51	48.38	22.23	34.81	18.98	45.01	2.78	13.66	33.17	45.13	39.18	29.97	31.05	37.35	22.89	31.22	Total TFL
MID SERAL	29.37	14.17	38.38	25.14	19.58	14.07	12.66	16.60	11.60	7.10	7.94	3.59	36.15	25.42	19.25	16.08	39.79	46.72	12.53	7.99	24.42	18.65	Total TFL
MATURE + OLD	62.01	77.65	43.18	49.87	51.35	47.04	49.82	35.01	66.17	58.09	73.08	51.40	59.07	60.92	47.58	38.79	21.03	23.32	56.42	54.66	52.69	50.13	Total TFL
OLD SERAL	34.31	41.72	26.82	30.66	32.04	29.05	28.38	19.45	43.26	37.87	46.63	32.99	39.83	40.65	27.74	22.84	13.98	16.04	29.56	28.44	32.35	30.43	Total TFL

Forest Seral Stage Distribution For NDT 2 by Landscape Unit and Total T.F.L. 2000/2019
 Forested Land Base Including Bowron Park Overlap



Landscape Unit and Year	1(2019)	2(2000)	2(2019)	3(2000)	3(2019)	4(2000)	4(2019)	5(2000)	5(2019)	6(2000)	6(2019)	7(2000)	7(2019)	8(2000)	8(2019)	9(2000)	9(2019)	10(2000)	10(2019)	11(2000)	11(2019)	Total TFL
EARLY SERAL	6.51	30.92	39.88	36.95	41.46	34.54	44.51	36.16	46.99	27.32	52.39	5.22	14.35	40.66	47.30	49.53	51.12	34.46	39.48	28.92	36.98	Total TFL
MID SERAL	33.60	10.64	31.02	14.22	12.56	8.62	18.19	22.76	15.12	9.89	6.49	52.96	27.69	20.21	20.68	21.96	28.14	11.11	6.67	21.83	13.21	Total TFL
MATURE + OLD SERAL	57.89	83.23	38.06	45.91	50.48	49.71	47.27	41.08	37.89	62.79	41.11	41.82	57.97	39.13	32.02	28.52	20.74	54.42	53.85	49.24	49.81	Total TFL
OLD SERAL	27.79	39.95	18.27	22.03	24.23	23.86	22.69	17.62	19.72	30.14	19.74	20.07	27.82	18.78	15.37	13.69	9.95	26.12	25.85	23.64	23.91	Total TFL

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
 All Landscape Units Including Bowron Park Overlap

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT			EARLY SERAL			MID-SERAL			MATURE + OLD			OLD GROWTH		
			AREA (ha.)	% of UNIT	TFL	AREA (ha.)	% of UNIT	TFL	AREA (ha.)	% of UNIT	TFL	AREA (ha.)	% of UNIT	TFL	AREA (ha.)	% of UNIT	TFL
NDT1	ESSFWC3	H	2102.9	18.18	0.14	382.3	0.2	0.00	0.01	1720.4	0.63	81.81	1187.1	0.43	56.45		
NDT1	ESSFWC3	I	12743.3	5.48	0.26	698.2	3846.8	1.41	30.19	8198.3	3.00	64.33	5656.8	2.07	44.39		
NDT1	ESSFWC3	L	21819.3	11.29	0.90	2464.4	1979.8	0.72	9.07	17375.0	6.36	79.63	11988.8	4.39	54.95		
NDT1	ESSFWk1	H	6203.3	31.42	0.71	1949.1	67.3	0.02	1.09	4186.9	1.53	67.49	2889.0	1.06	46.57		
NDT1	ESSFWk1	I	18585.4	32.66	2.22	6070.3	4656.2	1.70	25.05	7858.9	2.88	42.29	5422.6	1.98	29.18		
NDT1	ESSFWk1	L	51404.8	33.29	6.26	17111.3	8735.8	3.20	16.99	25557.7	9.35	49.72	17634.8	6.45	34.31		
NDT1	ICHwk4	L	626.2	45.00	0.10	281.8	1.3	0.00	0.21	343.1	0.13	54.79	188.7	0.07	30.14		
NDT1 Subtotal			113485.2	25.52	10.60	28957.4	19287.4	7.06	17.00	65240.3	23.87	57.49	44967.8	16.45	39.62		
NDT2	SBSwk1	H	17016.4	8915.3	3.26	8915.3	1104.8	0.40	6.49	6996.2	2.56	41.11	3358.2	1.23	19.74		
NDT2	SBSwk1	I	20591.3	8875.5	3.25	8875.5	3750.2	1.37	18.21	7965.6	2.91	38.68	3823.5	1.40	18.57		
NDT2	SBSwk1	L	67802.8	21807.2	7.98	21807.2	9230.1	3.38	13.61	36765.5	13.45	54.22	17647.5	6.46	26.03		
NDT2	ICHmk3	L	3463.7	660.4	0.24	660.4	297.8	0.11	8.60	2505.4	0.92	72.33	1202.6	0.44	34.72		
NDT2 Subtotal			108874.2	40258.5	14.73	40258.5	14382.8	5.26	13.21	54232.8	19.84	49.81	26031.8	9.52	23.91		
NDT3	SBSdw1	I	1637.6	138.1	0.05	138.1	472.2	0.17	28.83	1027.3	0.38	62.73	750.0	0.27	45.80		
NDT3	SBSmh3	I	67.4	21.4	0.01	21.4	1.2	0.00	1.80	44.8	0.02	66.43	32.7	0.01	48.49		
NDT3	SBSmw3	H	18722.2	8585.3	3.14	8585.3	410.5	0.15	2.19	9726.5	3.56	51.95	7100.3	2.60	37.92		
NDT3	SBSmw3	I	26250.9	6172.5	2.26	6172.5	15218.8	5.57	57.97	4859.6	1.78	18.51	3547.5	1.30	13.51		
NDT3	SBSmw3	L	2971.2	1193.6	0.44	1193.6	785.8	0.29	26.45	991.8	0.36	33.38	724.0	0.26	24.37		
NDT3 Subtotal			49649.3	16110.9	5.89	16110.9	16888.4	6.18	34.02	16650.0	6.09	33.54	12154.5	4.45	24.48		
NDT5			1302.3	7.2	0.00	7.2	416.4	0.15	31.98	878.7	0.32	67.47	9.9	0.00	0.76		
TFL Summary			273311.0	85334.0	31.22	85334.0	50975.1	18.65	137001.9	50.13	83163.9	30.43					

TFL52 Plus Bowron Overlap Summary

TOTAL FORESTED LAND	NDT	FORESTED	NON-FOREST	TOTAL AREA
273311.0	NDT1	113485.2	11161.1	124646.3
32757.8	NDT2	108874.2	12814.6	121688.8
306068.9	NDT3	49649.3	5368.2	55017.5
	NDT5	1302.3	3413.9	4716.3
	TOTAL	137001.9	83163.9	30.43

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
Bowron Landscape Unit Including Bowron Park Overlap

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL		MID-SERAL		MATURE + OLD		OLD GROWTH			
				AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU		
NDT1	ESSFWC3	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NDT1	ESSFWC3	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NDT1	ESSFWC3	L	3726.0	101.7	2.73	770.1	2.20	2854.2	8.14	76.60	52.86		
NDT1	ESSFWK1	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NDT1	ESSFWK1	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NDT1	ESSFWK1	L	8517.1	861.4	10.11	2140.0	6.11	5515.7	15.74	64.76	44.68		
NDT1	ICHWK4	L	626.2	211.1	33.72	1.3	0.00	413.7	1.18	66.07	36.34		
NDT1 Subtotal			12869.3	1174.3	9.12	2911.4	8.31	8783.6	25.06	68.25	6002.8	17.13	46.64
NDT2	SBSWK1	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT2	SBSWK1	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT2	SBSWK1	L	18171.4	985.8	5.43	6450.8	18.40	10734.8	30.63	59.08	5152.7	14.70	28.36
NDT2	ICHMK3	L	3463.7	855.2	24.69	818.1	2.33	1790.3	5.11	51.69	859.4	2.45	24.81
NDT2 Subtotal			21635.1	1841.1	8.51	7269.0	20.74	12525.1	35.73	57.89	6012.1	17.15	27.79
NDT3	SBSdw1	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT3	SBSnh3	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT3	SBSnw3	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT3	SBSnw3	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT3	SBSnw3	L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT3 Subtotal			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT5			546.5	6.7	0.02	114.1	0.33	425.7	1.21	77.89	9.8	0.03	1.80
LU Summary			35050.9	3022.0	8.62	10294.5	29.37	21734.4	62.01	12024.7	34.31		

LU AREA

	NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND		35050.9		
NON-FOREST AREA		13379.6		
TOTAL LU AREA		48430.5		
	NDT1	12869.3	6186.5	19055.8
	NDT2	21635.1	4144.9	25780.1
	NDT3	0.0	0.0	0.0
	NDT5	546.5	3048.1	3594.6

I.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Bowron Landscape Unit Including Bowron Park Overlay

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH			
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	
NDT1	ESSFWC3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFWC3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFWC3	L	3726.0	121.6	0.35	3.26	1.69	593.3	3011.1	8.59	15.92	3011.1	8.59	2077.6	5.93	55.76
NDT1	ESSFWk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFWk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFWk1	L	8517.1	1132.8	3.23	13.30	5.76	2019.0	5365.3	15.31	23.71	5365.3	15.31	3702.1	10.56	43.47
NDT1	ICHWk4	L	626.2	281.8	0.80	45.00	0.00	1.3	343.1	0.98	0.21	343.1	0.98	188.7	0.54	30.14
NDT1 Subtotal			12869.3	1536.1	4.38	11.94	7.46	2613.6	8719.5	24.88	20.31	8719.5	24.88	5968.4	17.03	46.38
NDT2	SBSWk1	H	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT2	SBSWk1	I	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT2	SBSWk1	L	18171.4	666.4	1.90	3.67	5.72	2003.2	15501.8	44.23	11.02	15501.8	44.23	7440.9	21.23	40.95
NDT2	ICHnk3	L	3463.7	660.4	1.88	19.07	0.85	297.8	2505.4	7.15	8.60	2505.4	7.15	1202.6	3.43	34.72
NDT2 Subtotal			21635.1	1326.8	3.79	6.13	6.56	2301.1	18007.2	51.37	10.64	18007.2	51.37	8643.5	24.66	39.95
NDT3	SBSGw1	I	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSrw3	H	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSnw3	L	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
NDT5			546.5	6.7	0.02	1.23	0.14	50.8	489.0	1.40	9.30	489.0	1.40	9.9	0.03	1.81
LU Summary			35050.9	2869.7	8.19	4965.5	14.17	27215.7	77.65	27215.7	77.65	14621.8	41.72	14621.8	41.72	41.72

LU AREA

	NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND		35050.9		
NON-FOREST AREA	NDT1	12869.3	6186.5	19055.8
	NDT2	21635.1	4144.9	25780.1
	NDT3	0.0	0.0	0.0
	NDT5	546.5	3048.1	3594.6

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
Antler Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFWC3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWC3	I	12345.6	365.4	0.85	2.96	10.86	4696.3	10.86	7283.9	16.85	59.00	5025.9	11.63	40.71
NDT1	ESSFWC3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWk1	I	15562.4	3010.3	6.96	19.34	16.01	6919.6	16.01	5632.5	13.03	36.19	3886.4	8.99	24.97
NDT1	ESSFWk1	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1 Subtotal			27907.9	3375.7	7.81	12.10	11615.9	26.87	41.62	12916.4	29.88	46.28	8912.3	20.61	31.93
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	I	14682.9	4540.0	10.50	30.92	10.53	4554.5	10.53	5588.4	12.93	38.06	2682.4	6.20	18.27
NDT2	SBSwk1	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	ICHnk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			14682.9	4540.0	10.50	30.92	4554.5	10.53	31.02	5588.4	12.93	38.06	2682.4	6.20	18.27
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT5			641.3	55.2	0.13	8.60	423.8	0.98	66.09	162.3	0.38	25.30	0.0	0.00	0.00
LU Summary			43232.2	7970.9	18.44	16594.2	38.38	18667.1	43.18	11594.7	26.82				

LU AREA WITHIN TFL52

	NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND		43232.2		
NON-FOREST AREA	NDT1	27907.9	1175.1	29083.0
	NDT2	14682.9	1495.4	16178.3
	NDT3	0.0	0.0	0.0
TOTAL LU AREA	NDT5	641.3	116.5	757.8

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Antler Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	I	12345.6	491.1	1.14	3.98	8.90	3847.0	8.90	18.52	64.86	5525.1	12.78	44.75	
NDT1	ESSFwc3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT1	ESSFwk1	I	15562.4	4457.2	10.31	28.64	10.62	4592.7	10.62	15.06	41.85	4493.6	10.39	28.87	
NDT1	ESSFwk1	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT1 Subtotal			27907.9	4948.3	11.45	17.73	19.52	8439.7	19.52	33.59	52.03	10018.7	23.17	35.90	
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT2	SBSwk1	I	14682.9	5854.8	13.54	39.88	4.83	2087.7	4.83	15.59	45.91	3235.4	7.48	22.03	
NDT2	SBSwk1	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT2 Subtotal			14682.9	5854.8	13.54	39.88	4.83	2087.7	4.83	15.59	45.91	3235.4	7.48	22.03	
NDT3	SBSdwl	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT3	SBSrw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT3	SBSrw3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT3	SBSrw3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	
NDT5			641.3	0.4	0.00	0.07	0.79	341.5	0.79	0.69	46.69	0.0	0.00	0.00	
LU Summary			43232.2	10803.6	24.99		10868.9	25.14	21559.6	49.87		13254.1	30.66		

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	NDT	FORESTED	NON-FOREST	TOTAL AREA
43232.2		21559.6	13254.1	30.66
NON-FOREST AREA	NDT1	27907.9	1175.1	29083.0
	NDT2	14682.9	1495.4	16178.3
	NDT3	0.0	0.0	0.0
TOTAL LU AREA	NDT5	641.3	116.5	757.8

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Big Valley Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH			
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	
NDT1	ESSFWC3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00	0.00
NDT1	ESSFWC3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00	0.00
NDT1	ESSFWC3	L	3007.6	532.9	2.88	17.72	492.0	2.66	16.36	1982.8	10.71	65.93	1368.1	7.39	45.49	0.00
NDT1	ESSFWk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00
NDT1	ESSFWk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00
NDT1	ESSFWk1	L	9557.0	4208.2	22.73	44.03	1587.8	8.57	16.61	3761.0	20.31	39.35	2595.1	14.01	27.15	0.00
NDT1	ICHWk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT1 Subtotal			12564.6	4741.1	25.60	37.73	2079.7	11.23	16.55	5743.8	31.02	45.71	3963.2	21.40	31.54	0.00
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT2	SBSwk1	L	5933.6	2460.2	13.29	41.46	523.6	2.83	8.82	2949.8	15.93	49.71	1415.9	7.65	23.86	0.00
NDT2	ICHnk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT2 Subtotal			5933.6	2460.2	13.29	41.46	523.6	2.83	8.82	2949.8	15.93	49.71	1415.9	7.65	23.86	0.00
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmw3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT5			19.1	0.0	0.00	0.00	2.3	0.01	12.26	16.7	0.09	87.74	0.0	0.00	0.00	0.00
LU Summary			18517.3	7201.3	38.89		2605.6	14.07		8710.3	47.04		5379.1	29.05		

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	18517.3		
NON-FOREST AREA	975.5		
TOTAL LU AREA	19492.8		
NDT	FORESTED	NON-FOREST	TOTAL AREA
NDT1	12564.6	391.4	12956.0
NDT2	5933.6	527.6	6461.2
NDT3	0.0	0.0	0.0
NDT5	19.1	56.5	75.6

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
Lightning Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL AREA (ha.)	EARLY SERAL			MID-SERAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	L	302.2	6.3	2.10	10.4	0.07	285.5	1.90	94.47	197.0	1.31	65.19	0.00	0.00
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	L	3181.8	1418.5	44.58	122.0	0.81	1641.3	10.92	51.58	1132.5	7.54	35.59	0.00	0.00
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1 Subtotal			3484.0	1424.8	9.48	132.4	0.88	1926.8	12.82	55.30	1329.5	8.85	38.16		
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	L	9505.9	3283.0	21.85	1729.3	11.51	4493.6	29.91	47.27	2156.9	14.36	22.69	0.00	0.00
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			9505.9	3283.0	21.85	1729.3	11.51	4493.6	29.91	47.27	2156.9	14.36	22.69		
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	L	2034.5	928.6	6.18	40.6	0.27	1065.3	7.09	52.36	777.6	5.18	38.22	0.00	0.00
NDT3 Subtotal			2034.5	928.6	6.18	40.6	0.27	1065.3	7.09	52.36	777.6	5.18	38.22		
NDT5			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
LU Summary			15024.4	5636.4	37.51	1902.3	12.66	7485.7	49.82	4264.1	28.38				

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	15024.4	5636.4	37.51	1902.3	12.66	7485.7	49.82	4264.1	28.38
NON-FOREST AREA	1114.4								
TOTAL LU AREA	16138.8								
NDT	FORESTED	NON-FOREST	TOTAL AREA						
NDT1	3484.0	140.2	3624.2						
NDT2	9505.9	610.9	10116.7						
NDT3	2034.5	363.3	2397.8						
NDT5	0.0	0.0	0.0						

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Lightning Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL		MID-SERAL		MATURE + OLD		OLD GROWTH		
				AREA (ha.)	% of LU							
NDT1	ESSFWC3	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT1	ESSFWC3	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT1	ESSFWC3	L	302.2	80.9	26.77	15.5	5.13	205.8	1.37	68.10	0.95	
NDT1	ESSFWk1	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT1	ESSFWk1	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT1	ESSFWk1	L	3181.8	1864.5	58.60	378.6	11.90	938.8	6.25	29.50	4.31	
NDT1	ICHwk4	L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NDT1 Subtotal			3484.0	1945.3	55.84	394.1	11.31	1144.6	7.62	32.85	5.26	22.67
NDT2	SBSwk1	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT2	SBSwk1	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT2	SBSwk1	L	9505.9	4231.4	44.51	1784.2	18.77	3490.3	23.23	36.72	1675.3	17.62
NDT2	ICHmk3	L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT2 Subtotal			9505.9	4231.4	44.51	1784.2	18.77	3490.3	23.23	36.72	1675.3	17.62
NDT3	SBSdw1	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT3	SBSmh3	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT3	SBSnw3	H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT3	SBSnw3	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDT3	SBSnw3	L	2034.5	1092.8	53.71	316.2	15.54	625.5	4.16	30.75	456.6	22.44
NDT3 Subtotal			2034.5	1092.8	53.71	316.2	15.54	625.5	4.16	30.75	456.6	22.44
NDT5			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LU Summary			15024.4	7269.5	48.38	2494.5	16.60	5260.4	35.01	2921.7	19.45	

LU AREA WITHIN TFL52

NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND	15024.4		
NON-FOREST AREA	1114.4		
TOTAL LU AREA	16138.8		
NDT1	3484.0	140.2	3624.2
NDT2	9505.9	610.9	10116.7
NDT3	2034.5	363.3	2397.8
NDT5	0.0	0.0	0.0

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
Swift Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	L	7223.4	376.8	1.47	5.22	2.15	6293.9	24.53	87.13	4342.8	16.93	60.12	0.0	0.00
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	L	11418.5	2795.9	10.90	24.49	3.23	7793.2	30.37	68.25	5377.3	20.96	47.09	0.0	0.00
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1 Subtotal			18641.8	3172.8	12.37	17.02	5.39	14087.1	54.90	75.57	9720.1	37.88	52.14		
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	L	6999.2	2531.1	9.86	36.16	6.21	2875.2	11.21	41.08	1380.1	5.38	19.72	0.0	0.00
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			6999.2	2531.1	9.86	36.16	6.21	2875.2	11.21	41.08	1380.1	5.38	19.72		
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT5			17.0	0.0	0.00	0.00	0.00	16.5	0.06	97.30	0.0	0.00	0.00	0.0	0.00
LU Summary			25658.0	5703.8	22.23	2975.5	11.60	16978.7	66.17	11100.2	43.26				

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	25658.0	NON-FORESTED	18641.8	TOTAL AREA	44299.8
NON-FOREST AREA	1556.4	FORESTED	6999.2	NON-FOREST	19258.6
TOTAL LU AREA	27214.4	FORESTED	17.0	NON-FOREST	7938.8
NDT1	616.7	18641.8	19258.6		
NDT2	939.6	6999.2	7938.8		
NDT3	0.0	0.0	0.0		
NDT5	0.0	17.0	17.0		

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Swift Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	L	7223.4	863.7	3.37	308.0	1.20	4.26	6051.7	23.59	83.78	4175.7	16.27	57.81	
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	L	11418.5	4779.0	18.63	454.2	1.77	3.98	6185.2	24.11	54.17	4267.8	16.63	37.38	
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1 Subtotal			18641.8	5642.7	21.99	762.2	2.97	4.09	12237.0	47.69	65.64	8443.5	32.91	45.29	
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	L	6999.2	3289.2	12.82	1057.9	4.12	15.12	2652.1	10.34	37.89	1273.0	4.96	18.19	
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			6999.2	3289.2	12.82	1057.9	4.12	15.12	2652.1	10.34	37.89	1273.0	4.96	18.19	
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnh3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT5			17.0	0.0	0.00	0.5	0.00	2.70	16.5	0.06	97.30	0.0	0.00	0.0	0.00
LU Summary			25658.0	8931.9	34.81	1820.6	7.10	14905.5	58.09	9716.5	37.87				

LU AREA WITHIN TFL52

NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND	25658.0		
NON-FOREST AREA	1556.4	616.7	19258.6
TOTAL LU AREA	27214.4	939.6	7938.8
		0.0	0.0
	17.0	0.0	17.0

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
Victoria Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL AREA (ha.)	EARLY SERAL		MID-SERIAL		MATURE + OLD		OLD GROWTH	
				AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU
NDT1	ESSFwc3	H	2102.9	0.0	0.00	14.5	0.03	2088.4	4.74	1441.0	3.27
NDT1	ESSFwc3	I	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	L	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	H	6203.3	689.6	1.57	695.9	1.58	4817.8	10.93	3324.3	7.54
NDT1	ESSFwk1	I	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	L	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT1	ICHwk4	L	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT1 subtotal			8306.2	689.6	1.57	710.4	1.61	6906.2	15.67	4765.3	10.82
NDT2	SBSwk1	H	17016.4	4648.4	10.55	1683.5	3.82	10684.6	24.25	5128.6	11.64
NDT2	SBSwk1	I	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	L	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT2	ICHmk3	L	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			17016.4	4648.4	10.55	1683.5	3.82	10684.6	24.25	5128.6	11.64
NDT3	SBSdw1	I	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmh3	I	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	H	18722.2	3026.2	6.87	1103.3	2.50	14592.7	33.12	10652.7	24.18
NDT3	SBSmw3	I	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	L	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00
NDT3 Subtotal			18722.2	3026.2	6.87	1103.3	2.50	14592.7	33.12	10652.7	24.18
NDT5			14.8	0.0	0.00	0.0	0.00	14.8	0.03	0.0	0.00
LU Summary			44059.6	8364.2	18.98	3497.1	7.94	32198.3	73.08	20546.5	46.63

LU AREA WITHIN TFL52

NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND	44059.6		
NON-FOREST AREA	4236.5		
TOTAL LU AREA	48296.1		
NDT1	8306.2	128.7	8434.9
NDT2	17016.4	1345.1	18361.5
NDT3	18722.2	2762.7	21484.9
NDT5	14.8	0.0	14.8
LU Summary	32198.3	73.08	46.63

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Victoria Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	2102.9	382.2	0.87	18.18	0.2	0.00	0.01	1720.4	3.90	81.81	1187.1	2.69	56.45
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT1	ESSFwc3	L	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT1	ESSFwk1	H	6203.3	1949.1	4.42	31.42	67.3	0.15	1.09	4186.9	9.50	67.49	2888.9	6.56	46.57
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT1	ESSFwk1	L	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT1 Subtotal			8306.2	2331.3	5.29	28.07	67.6	0.15	0.81	5907.3	13.41	71.12	4076.0	9.25	49.07
NDT2	SBSwk1	H	17016.4	8915.3	20.23	52.39	1104.8	2.51	6.49	6996.2	15.88	41.11	3358.2	7.62	19.74
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT2	SBSwk1	L	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT2 Subtotal			17016.4	8915.3	20.23	52.39	1104.8	2.51	6.49	6996.2	15.88	41.11	3358.2	7.62	19.74
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT3	SBSsh3	I	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT3	SBSsw3	H	18722.2	8585.3	19.49	45.86	410.5	0.93	2.19	9726.5	22.08	51.95	7100.3	16.12	37.92
NDT3	SBSsw3	I	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT3	SBSsw3	L	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT3 Subtotal			18722.2	8585.3	19.49	45.86	410.5	0.93	2.19	9726.5	22.08	51.95	7100.3	16.12	37.92
NDT5			14.8	0.0	0.00	0.00	0.0	0.00	0.00	14.8	0.03	100.00	0.0	0.00	0.00
LU Summary			44059.6	19831.9	45.01	1582.8	3.59	3.59	22644.9	51.40	14534.6	32.99			

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	NDT	FORESTED	NON-FOREST	TOTAL AREA
NON-FOREST AREA	NDT1	8306.2	128.7	8434.9
	NDT2	17016.4	1345.1	18361.5
	NDT3	18722.2	2762.7	21484.9
	NDT5	14.8	0.0	14.8
TOTAL LU AREA		44059.6	48296.1	92355.7

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISURBANCE TYPE - BASE YEAR 2000
 Jack of Clubs Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFwc3	L	6718.0	69.0	0.36	1.03	5.49	15.71	1055.1	5593.9	29.11	83.27	3859.8	20.08	57.45
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT1	ESSFwk1	L	10489.2	363.5	1.89	3.47	27.02	49.51	5192.8	4932.9	25.67	47.03	3403.7	17.71	32.45
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT1 Subtotal			17207.1	432.5	2.25	2.51	32.51	36.31	6247.9	10526.7	54.77	61.18	7263.4	37.79	42.21
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT2	SBSwk1	L	1949.2	101.8	0.53	5.22	5.37	52.96	1032.3	815.2	4.24	41.82	391.3	2.04	20.07
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT2 Subtotal			1949.2	101.8	0.53	5.22	5.37	52.96	1032.3	815.2	4.24	41.82	391.3	2.04	20.07
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSmw3	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT3	SBSmw3	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00
NDT5			62.5	0.0	0.00	0.00	0.27	82.32	51.4	11.0	0.06	17.68	0.0	0.00	0.00
LU Summary			19218.9	534.4	2.78	7331.6	38.15	11352.9	7654.7	59.07	39.83	7654.7	39.83		

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	NDT	FORESTED	NON-FOREST	TOTAL AREA
19218.9	NDT1	17207.1	744.3	17951.4
1193.3	NDT2	1949.2	439.2	2388.4
20412.2	NDT3	0.0	0.0	0.0
	NDT5	62.5	9.9	72.3

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
 Jack of Clubs Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NDT1	ESSFwc3	L	6718.0	722.2	3.76	570.8	2.97	8.50	5425.0	28.23	80.75	3743.2	19.48	55.72	
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1	ESSFwk1	L	10489.2	1622.6	8.44	3754.4	19.54	35.79	5112.2	26.60	48.74	3527.4	18.35	33.63	
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1 Subtotal			17207.1	2344.8	12.20	4325.2	22.50	25.14	10537.2	54.83	61.24	7270.6	37.83	42.25	
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT2	SBSwk1	L	1949.2	279.7	1.46	539.7	2.81	27.69	1129.9	5.88	57.97	542.4	2.82	27.82	
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT2 Subtotal			1949.2	279.7	1.46	539.7	2.81	27.69	1129.9	5.88	57.97	542.4	2.82	27.82	
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3	SBSrw3	H	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3	SBSrw3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3	SBSrw3	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT5			62.5	0.0	0.00	21.4	0.11	34.19	41.1	0.21	65.81	0.0	0.00	0.00	
LU Summary			19218.9	2624.5	13.66	4886.2	25.42	11708.2	60.92	7813.0	40.65				

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	19218.9		
NON-FOREST AREA	1193.3		
TOTAL LU AREA	20412.2		
NDT1	17207.1	744.3	17951.4
NDT2	1949.2	439.2	2388.4
NDT3	0.0	0.0	0.0
NDT5	62.5	9.9	72.3
TOTAL	19218.9	1293.7	20412.2

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
Willow Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	L	658.3	33.9	0.18	8.0	0.04	1.22	0.00	616.4	3.29	93.64	425.3	2.27	64.61
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	L	5439.5	1424.1	7.61	469.4	2.51	8.63	0.00	3546.0	18.94	65.19	2446.7	13.07	44.98
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
NDT1 Subtotal			6097.8	1458.0	7.79	477.4	2.55	7.83	4162.4	22.23	68.26	2872.1	15.34	47.10	
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT2	SBSwk1	L	11689.4	4752.9	25.38	2362.2	12.62	20.21	4574.3	24.43	39.13	2195.6	11.73	18.78	
NDT2	ICHnk3	L	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
NDT2 Subtotal			11689.4	4752.9	25.38	2362.2	12.62	20.21	4574.3	24.43	39.13	2195.6	11.73	18.78	
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmw3	H	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT3	SBSmw3	L	936.7	0.0	0.00	764.3	4.08	81.59	172.4	0.92	18.41	125.9	0.67	13.44	
NDT3 Subtotal			936.7	0.0	0.00	764.3	4.08	81.59	172.4	0.92	18.41	125.9	0.67	13.44	
NDT5			0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00
LU Summary			18723.9	6210.9	33.17	3603.9	19.25	8909.1	47.58	5193.6	27.74				

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	18723.9	TOTAL LU FORESTED LAND	18723.9
NON-FOREST AREA	1242.2	NON-FOREST AREA	1242.2
TOTAL LU AREA	19966.1	TOTAL LU AREA	19966.1
NDT1	61.9	NDT1	61.9
NDT2	1148.8	NDT2	1148.8
NDT3	31.6	NDT3	31.6
NDT5	0.0	NDT5	0.0
FORESTED	6097.8	FORESTED	6097.8
NON-FOREST	6159.7	NON-FOREST	6159.7
TOTAL AREA	12838.1	TOTAL AREA	12838.1
	968.3		968.3
	0.0		0.0

T.F.I. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
Willow Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT		EARLY SERAL		MID-SERAL		MATURE + OLD		OLD GROWTH	
			AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU
NDT1	ESSFWC3	H	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWC3	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWC3	L	658.3	140.5	0.75	21.34	0.2	0.00	517.6	2.76	357.2	1.91
NDT1	ESSFWk1	H	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWk1	I	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWk1	L	5439.5	2679.5	14.31	49.26	124.2	0.66	2635.8	14.08	1818.7	9.71
NDT1	ICHwk4	L	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1 Subtotal			6097.8	2820.0	15.06	46.25	124.4	0.66	3153.4	16.84	2175.9	11.62
NDT2	SBSwk1	H	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	I	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	L	11689.4	5529.2	29.53	47.30	2417.5	12.91	3742.7	19.99	1796.5	9.59
NDT2	ICHnk3	L	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			11689.4	5529.2	29.53	47.30	2417.5	12.91	3742.7	19.99	1796.5	9.59
NDT3	SBSgw1	I	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnh3	I	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	H	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	I	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSnw3	L	936.7	100.9	0.54	10.77	469.6	2.51	366.3	1.96	267.4	1.43
NDT3 Subtotal			936.7	100.9	0.54	10.77	469.6	2.51	366.3	1.96	267.4	1.43
NDT5			0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0	0.00
LU Summary			18723.9	8450.0	45.13	3011.5	16.08	7262.4	38.79	4239.7	22.64	

LU AREA WITHIN TFL52

NDT	FORESTED	NON-FOREST	TOTAL AREA
TOTAL LU FORESTED LAND	18723.9	18723.9	
NON-FOREST AREA	1242.2	1242.2	6159.7
TOTAL LU AREA	19966.1	19966.1	12838.1
			968.3
			0.0

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2000
 Umiti Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERIAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00
NDT1	ESSFwc3	I	398.1	157.5	0.42	39.57	0.0	0.00	240.6	0.65	60.43	166.0	0.45	41.70	
NDT1	ESSFwc3	L	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1	ESSFwk1	I	3023.0	972.6	2.61	32.17	65.1	0.17	1985.3	5.32	65.67	1369.9	3.67	45.31	
NDT1	ESSFwk1	L	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1	ICHwk4	L	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT1 Subtotal			3421.1	1130.1	3.03	33.03	65.1	0.17	2225.9	5.97	65.06	1535.9	4.12	44.89	
NDT2	SBSwk1	H	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT2	SBSwk1	I	5908.3	2926.3	7.85	49.53	1297.3	3.48	1684.8	4.52	28.52	808.7	2.17	13.69	
NDT2	SBSwk1	L	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT2	ICHmk3	L	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT2 Subtotal			5908.3	2926.3	7.85	49.53	1297.3	3.48	1684.8	4.52	28.52	808.7	2.17	13.69	
NDT3	SBSdw1	I	1637.6	105.5	0.28	6.44	1176.1	3.15	356.1	0.96	21.74	259.9	0.70	15.87	
NDT3	SBSmh3	I	67.4	1.2	0.00	1.80	41.8	0.11	24.4	0.07	36.14	17.8	0.05	26.38	
NDT3	SBSmw3	H	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3	SBSmw3	I	26250.9	10444.9	28.01	39.79	12257.0	32.87	3549.0	9.52	13.52	2590.8	6.95	9.87	
NDT3	SBSmw3	L	0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
NDT3 Subtotal			27955.9	10551.6	28.30	37.74	13474.8	36.14	3929.5	10.54	14.06	2868.5	7.69	10.26	
NDT5			0.0	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	
LU Summary			37285.3	14607.9	39.18		14837.2	39.79	7840.2	21.03		5213.1	13.98		

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	NDT	FORESTED	NON-FOREST	TOTAL AREA
37285.3	NDT1	3421.1	49.4	3470.5
	NDT2	5908.3	211.9	6120.3
	NDT3	27955.9	2210.6	30166.5
	NDT5	0.0	0.0	0.0

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
 Umiti Landscape Unit

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL			MID-SERAL			MATURE + OLD			OLD GROWTH		
				AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT	AREA (ha.)	% of LU	% of UNIT
NDT1	ESSFWC3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFWC3	I	398.1	207.1	0.56	52.03	0.0	191.0	0.51	47.97	131.8	0.35	33.10		
NDT1	ESSFWC3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00		
NDT1	ESSFWk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00		
NDT1	ESSFWk1	I	3023.0	1613.2	4.33	53.36	0.17	1346.4	3.61	44.54	929.0	2.49	30.73		
NDT1	ESSFWk1	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00		
NDT1	ICHWk4	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00		
NDT1 Subtotal			3421.1	1820.3	4.88	53.21	0.17	1537.3	4.12	44.94	1060.8	2.84	31.01		
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00		
NDT2	SBSwk1	I	5908.3	3020.6	8.10	51.12	4.46	1225.3	3.29	20.74	588.1	1.58	9.95		
NDT2	SBSwk1	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00		
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00		
NDT2 Subtotal			5908.3	3020.6	8.10	51.12	4.46	1225.3	3.29	20.74	588.1	1.58	9.95		
NDT3	SBSdw1	I	1637.6	138.1	0.37	8.43	1.27	1027.3	2.76	62.73	750.0	2.01	45.80		
NDT3	SBSmh3	I	67.4	21.4	0.06	31.77	1.2	44.8	0.12	66.43	32.7	0.09	48.49		
NDT3	SBSmw3	H	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00		
NDT3	SBSmw3	I	26250.9	6172.5	16.55	23.51	40.82	4859.6	13.03	18.51	3547.5	9.51	13.51		
NDT3	SBSmw3	L	0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00		
NDT3 Subtotal			27955.9	6332.0	16.98	22.65	42.09	5931.7	15.91	21.22	4330.1	11.61	15.49		
NDT5			0.0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.00	0.00		
LU Summary			37285.3	11172.9	29.97	17418.1	46.72	8694.3	23.32	5979.0	16.04				

LU AREA WITHIN TFL52

TOTAL LU FORESTED LAND	NDT	FORESTED	NON-FOREST	TOTAL AREA
37285.3	NDT1	3421.1	49.4	3470.5
2472.0	NDT2	5908.3	211.9	6120.3
39757.3	NDT3	27955.9	2210.6	30166.5
	NDT5	0.0	0.0	0.0

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISURBANCE TYPE - BASE YEAR 2000
 Indianpoint Landscape Unit Including Bowron Park Overlap

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT AREA (ha.)	EARLY SERAL		MID-SERAL		MATURE + OLD		OLD GROWTH	
				AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU	AREA (ha.)	% of LU
NDT1	ESSFwc3	H	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFwc3	I	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFwc3	L	175.6	2.7	0.02	0.0	172.9	1.05	119.3	0.72	67.92
NDT1	ESSFwk1	H	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFwk1	I	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT1	ESSFwk1	L	2809.7	462.0	2.79	565.8	1781.9	10.77	1229.5	7.43	43.76
NDT1	ICHwk4	L	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT1 Subtotal			2985.3	464.8	2.81	565.8	1954.7	11.82	1348.8	8.15	45.18
NDT2	SBSwk1	H	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT2	SBSwk1	I	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT2	SBSwk1	L	13554.0	4671.3	28.24	1506.1	7376.6	44.60	3540.8	21.41	26.12
NDT2	ICHmk3	L	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT2 Subtotal			13554.0	4671.3	28.24	1506.1	7376.6	44.60	3540.8	21.41	26.12
NDT3	SBSdw1	I	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT3	SBSmh3	I	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT3	SBSmw3	H	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT3	SBSmw3	I	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT3	SBSmw3	L	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT3 Subtotal			0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00
NDT5			1.0	0.0	0.00	0.0	1.0	0.01	0.0	0.00	0.00
LU Summary			16540.3	5136.1	31.05	2071.9	9332.3	56.42	4889.6	29.56	

LU AREA

TOTAL LU FORESTED LAND	16540.3	TOTAL LU NON-FORESTED LAND	16540.3	TOTAL LU AREA	33080.6
NON-FOREST AREA	3800.9	NON-FOREST AREA	1666.7	NON-FOREST AREA	4652.0
TOTAL LU AREA	20341.3	TOTAL LU AREA	1951.1	TOTAL LU AREA	15505.2
		FORESTED	0.0	NON-FORESTED	0.0
		NDT1	2985.3	NDT1	1666.7
		NDT2	13554.0	NDT2	1951.1
		NDT3	0.0	NDT3	0.0
		NDT5	1.0	NDT5	183.1
		FORESTED	56.42	NON-FORESTED	4889.6
		TOTAL LU FORESTED LAND	16540.3	TOTAL LU NON-FORESTED LAND	16540.3

T.F.L. 52 FORESTED LAND BASE: SERAL STAGE DISTRIBUTION BY NATURAL DISTURBANCE TYPE - BASE YEAR 2019
 Indianpoint Landscape Unit Including Bowron Park Overlap

NDT	BIOGEO UNIT	BIODIV OPTION	TOTAL UNIT		EARLY SERAL		MID-SERIAL		MATURE + OLD		OLD GROWTH	
			AREA (ha.)	% of UNIT	AREA (ha.)	% of LU						
NDT1	ESSFwc3	H	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwc3	L	175.6	1.56	2.7	0.02	0.0	0.00	172.9	1.05	119.3	0.72
NDT1	ESSFwk1	H	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1	ESSFwk1	L	2809.7	29.35	824.7	4.99	417.5	14.86	1567.5	9.48	1081.6	6.54
NDT1	ICHwk4	L	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT1 Subtotal			2985.3	27.72	827.5	5.00	417.5	13.99	1740.4	10.52	1200.8	7.26
NDT2	SBSwk1	H	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2	SBSwk1	L	13554.0	39.48	5351.1	32.35	903.9	6.67	7299.0	44.13	3503.5	21.18
NDT2	ICHmk3	L	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT2 Subtotal			13554.0	39.48	5351.1	32.35	903.9	6.67	7299.0	44.13	3503.5	21.18
NDT3	SBSdw1	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmh3	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	H	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	I	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3	SBSmw3	L	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT3 Subtotal			0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
NDT5			1.0	0.00	0.0	0.00	0.0	0.00	1.0	0.01	0.0	0.00
LU Summary			16540.3	37.35	6178.6	37.35	1321.4	7.99	9040.3	54.66	4704.4	28.44

LU AREA

TOTAL LU FORESTED LAND	FORESTED	NON-FOREST	TOTAL AREA
16540.3	2985.3	1666.7	4652.0
NON-FOREST AREA	13554.0	1951.1	15505.2
TOTAL LU AREA	0.0	0.0	0.0
	1.0	183.1	184.1

APPENDIX II

**TWENTY YEAR HARVEST PLAN PATCH SIZE
DISTRIBUTION BY L.U. BY NDT AND TOTAL TFL**



TFL 52 - Landscape Unit: Big Valley

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 250 ha (ha)	250 - 1000 ha (ha)
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	82.77	502.77	2210.19	22.75	469.30	762.43	0.00	0.00	0.00
2019	636.34	444.45	700.76	354.73	286.79	28.27	0.00	0.00	0.00

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note: Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Bowron

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 250 ha (ha)	250 - 1000 ha (ha)
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	73.23	129.62	600.12	5.21	6.45	605.72	0.00	0.00	0.00
2019	203.64	117.33	0.00	172.97	151.70	103.74	0.00	0.00	0.00

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note: Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Indianpoint

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 250 ha (ha)	250 - 1000 ha (ha)
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	1.22	141.98	182.95	20.76	100.34	2227.65	0.00	0.00	0.00
2019	145.14	105.76	187.49	375.39	386.23	676.75	0.00	0.00	0.00

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note: Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Jack Of Clubs

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 80 ha (ha)	> 80 ha (ha)	0 - 40 ha (ha)	40 - 250 ha (ha)	250 - 1000 ha (ha)
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	93.30	139.24	0.00	0.00	25.03	0.00	0.00	0.00	0.00
2019	1148.45	502.59	477.86	94.72	82.11	77.82	0.00	0.00	0.00

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note: Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Lightning

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 250 ha (ha) %	250 - 1000 ha (ha) %
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	30.58	46.32	720.68	65.53	160.98	1302.75	96.07	82.70	283.50
2019	111.57	351.71	362.31	257.03	409.79	1008.36	90.64	115.14	250.47

Note : NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note : Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Swift

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 250 ha (ha) %	250 - 1000 ha (ha) %
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	139.32	714.15	1182.39	154.62	237.57	410.93	0.00	0.00	0.00
2019	1062.29	1090.85	459.55	370.33	397.99	472.43	0.00	0.00	0.00

Note : NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note : Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Umiti

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 250 ha (ha) %	250 - 1000 ha (ha) %
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	107.56	48.82	697.20	85.91	158.76	346.68	188.93	887.34	272.07
2019	479.54	233.88	0.06	160.65	207.54	430.96	690.19	2067.65	594.71

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

Note: Patch size totals less than size category are due to patches straddling disturbance types.

TFL 52 - Landscape Unit: Victoria

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 250 ha (ha) %	250 - 1000 ha (ha) %
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	28.6434	245.494	373.5882	92.297	1064.4268	1582.685	90.7314	2441.64	55.7326
2019	634.873	263.023	744.6073	493.183	547.24031	3556.6639	709.832	2844.57	2231.53

Note: NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

TFL 52 - Landscape Unit: Willow

	NDT 1			NDT 2			NDT 3		
	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 80 ha (ha) %	> 80 ha (ha) %	0 - 40 ha (ha) %	40 - 250 ha (ha) %	250 - 1000 ha (ha) %
Guidebook Recommended	30-40%	30-40%	20-40%	30-40%	30-40%	20-40%	10-20%	10-20%	60-80%
2000	93.83	131.79	1088.65	116.69	483.44	1450.86	0.00	0.003	0.00
2019	277.90	669.90	437.27	480.03	647.51	304.15	7.96	92.91	0.00
	7.14	10.03	82.82	5.69	23.57	70.74	0.00	100.00	0.00
	20.06	48.37	31.57	33.53	45.23	21.24	7.89	92.11	0.00

Note : NDT 5 figures are not represented in this table as there are no patch size guidelines for this type.

APPENDIX III

TFL 52 PATCH DISTRIBUTION MAPS 2000 2019
(under separate cover)



APPENDIX IV

**FINAL TWENTY YEAR HARVEST PLAN MAPS BY
LANDSCAPE UNIT
(under separate cover)**

APPENDIX V**TWENTY YEAR HARVEST PLAN AND PERIOD REPORTS FOR
VOLUME & AREA
(under separate cover)**

These are organized by L.U., blocks are identified by polygon number, and the reports are collated to Periods as follows;

- 2000-2019, 20 Year Harvest Plan, (Plus Period 4 Blocks)
- 2000-2008, Period One Development Plan Blocks (9 Years)
- 2009-2013, Period Two (5 Years)
- 2014-2019, Period Three (6 Years)
- 2020-2024, Period Four (5 Years), Note, this period displays area & volume summaries of blocks that are surplus to the Twenty Year Plan at the current AAC.

APPENDIX VI

AERIAL PHOTOS DISPLAYING PROPOSED BLOCK AND ROAD LOCATION

Laser copy of a stereo pair from map 93H013 are presented here.
Note: Full Set of Photos are Available for Review Upon Request

APPENDIX VIII

TFL 52 OVERVIEW, MATURITY STATUS YEAR 2019