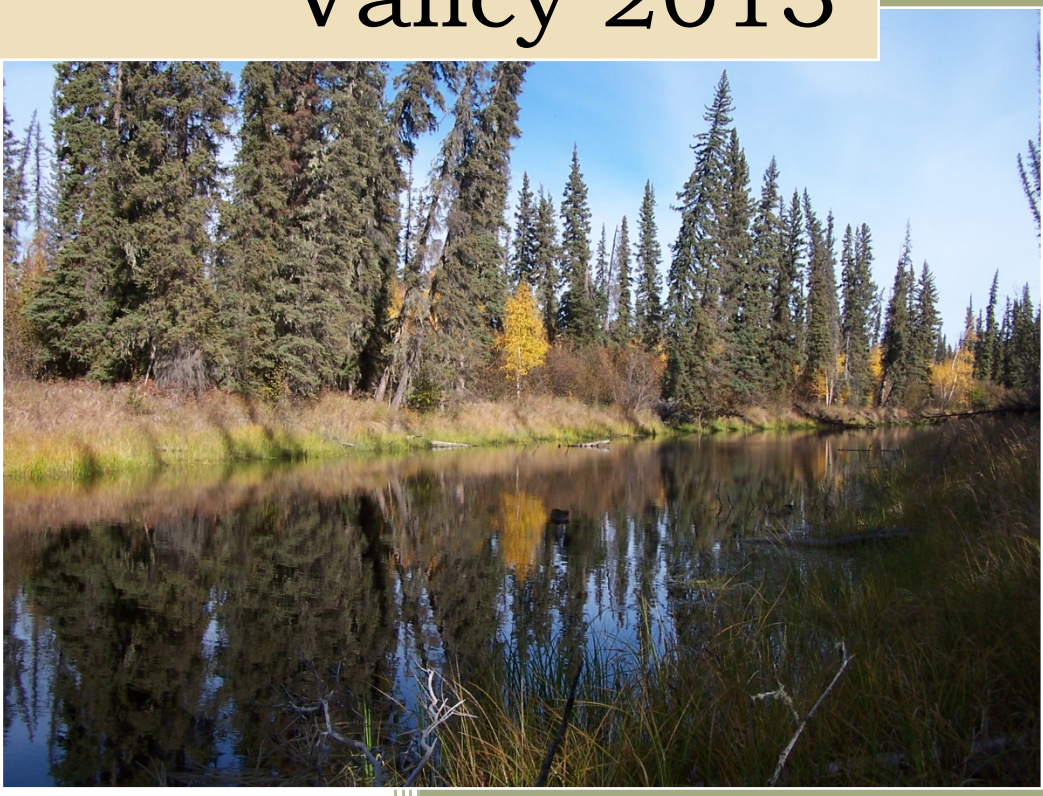
Timber Inventory of State Forest Lands in the Tanana Valley 2013



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I. EXECUTIVE SUMMARY

This report presents findings from a forest inventory conducted on 2,873,239 acres of state land in the Tanana Valley. Field plot measurements collected between 2007 and 2012 form the basis of the data summary and were conducted on two classes of state land including (1) Tanana Valley State Forest and (2) lands classified as a primary forest use under the Tanana Basin Area Plan and its recently revised draft western portion Yukon Tanana Basin Area Plan. The inventory updates a previous report (Crimp et al. 1997) by utilizing the new field plots, revised timber typing and revised property boundaries. It is divided into four forest management areas: Kantishna, Fairbanks, Delta, and Tok.

Management Area	Tanana Valley State Forest Acres	Forest Classified Acres	Total Acres
Kantishna	311,192	258,132	569,324
Fairbanks	594,251	266,115	860,366
Delta	499,625	352,111	851,736
Tok	393,659	198,154	591,813
Totals	**1,798,727**	**1,074,512**	**2,873,239**

TABLE 1. ACREAGE BY MANAGEMENT AREA AND CLASSIFICATION.

Management Area	Timberland Acres	Total Net Cubic Volume (MCF)	Total Net Board Foot Volume (MBF)
Kantishna	438,235	431,486	806,820
Fairbanks	633,292	699,571	1,480,844
Delta	639,801	637,537	1,297,644
Tok	441,607	304,165	472,199
Totals	**2,152,935**	**2,072,759**	**4,057,506**

TABLE 2. MANAGEMENT AREA TIMBERLAND ACREAGE AND VOLUME SUMMARY.

Eight timberland vegetation type classes are described in the inventory. These vegetation type classes represent 16 different strata for which volume estimates have been made. Vegetation type class volume is shown below together with non-timberland types that include non-forest and dwarf forest.

Vegetation Type Class	Acres	% of Area	Total Net Cubic Volume (MCF)	Total Net Board Foot Volume (MBF)
Aspen	80,758	3	169,723	178,742
Birch	218,191	8	354,235	407,868
Black and White Spruce/Hardwood	776,290	27	206,781	188,124
Hardwood	88,359	3	151,681	235,158
White Spruce	167,238	6	419,564	1,344,723
White Spruce/Balsam poplar	27,262	1	45,692	88,061
White Spruce/Birch	144,631	5	245,802	761,953
White Spruce/Hardwood	650,205	23	479,282	852,877
Subtotal Timberland	**2,152,935**	**75**	**2,072,759**	**4,057,506**
Dwarf Forests	400,658	14		
Non-Forest Other	18,422	1		
River	79,261	3		
Shrubland	182,630	6		
Water	13,872	0		
Wetland	25,294	1		
Subtotals Non-Timberland	**720,303**	**25**		
Grand Total	**2,873,239**	**100**		

TABLE 3. INVENTORY ACREAGE AND VOLUME SUMMARY.

FIGURE 2. PERCENT OF AREA BY VEGETATION TYPE CLASS.

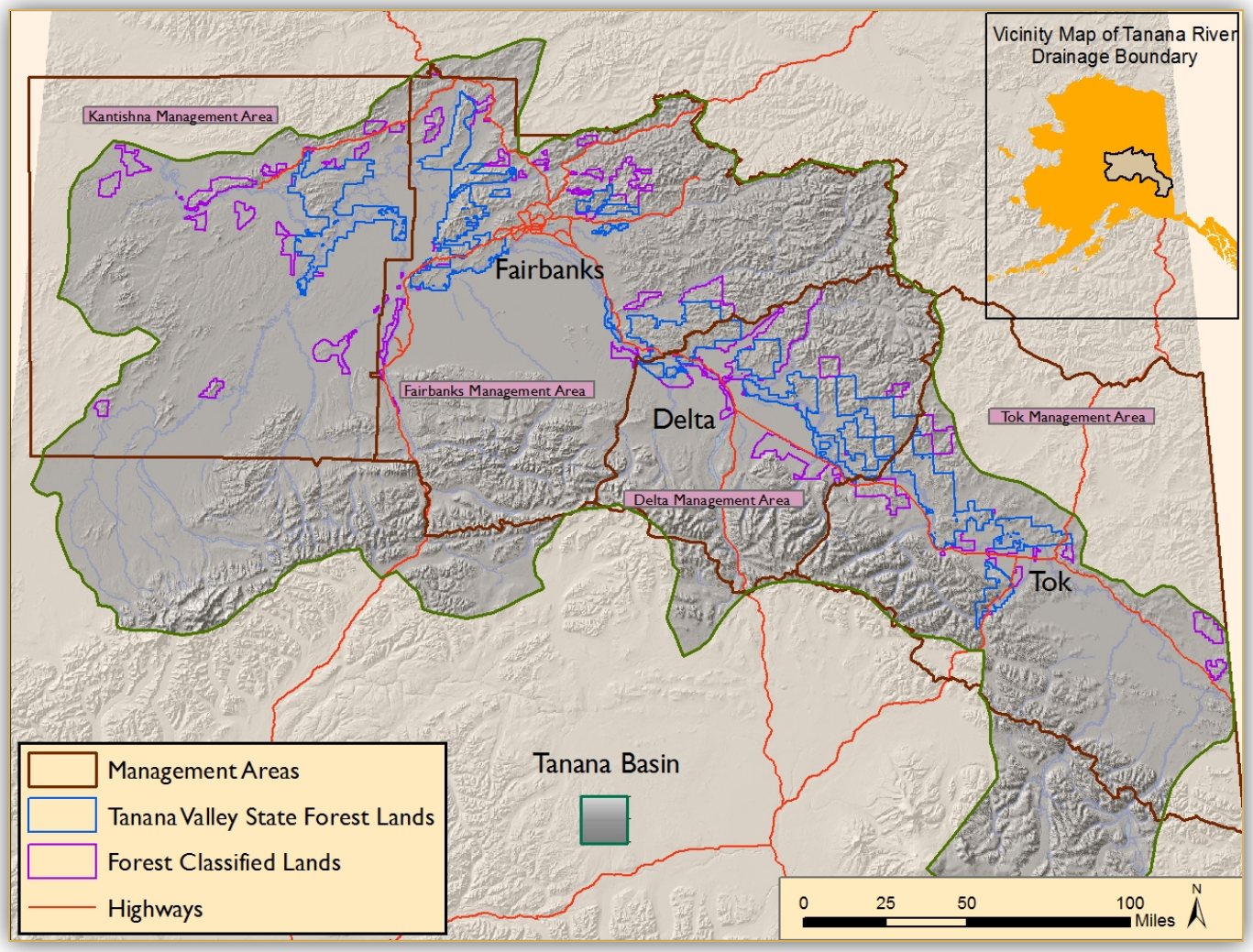

FIGURE 3. FOREST INVENTORY AREA VICINITY MAP.

II. INTRODUCTION

A. LANDS INCLUDED IN INVENTORY

The timber inventory provides data on 2,873,239 acres of state land within the Tanana River Basin (*Figure 3*). The lands extend over 450 miles from near the Canada border westward to the confluence of the Yukon and Tanana Rivers. Two classes of state land are within the inventory and include Tanana Valley State Forest land and Forest Classified land. These lands are administered within four management areas: Kantishna, Fairbanks, Delta and Tok. Both the Kantishna and Fairbanks Areas are administered under the Fairbanks Area Office.

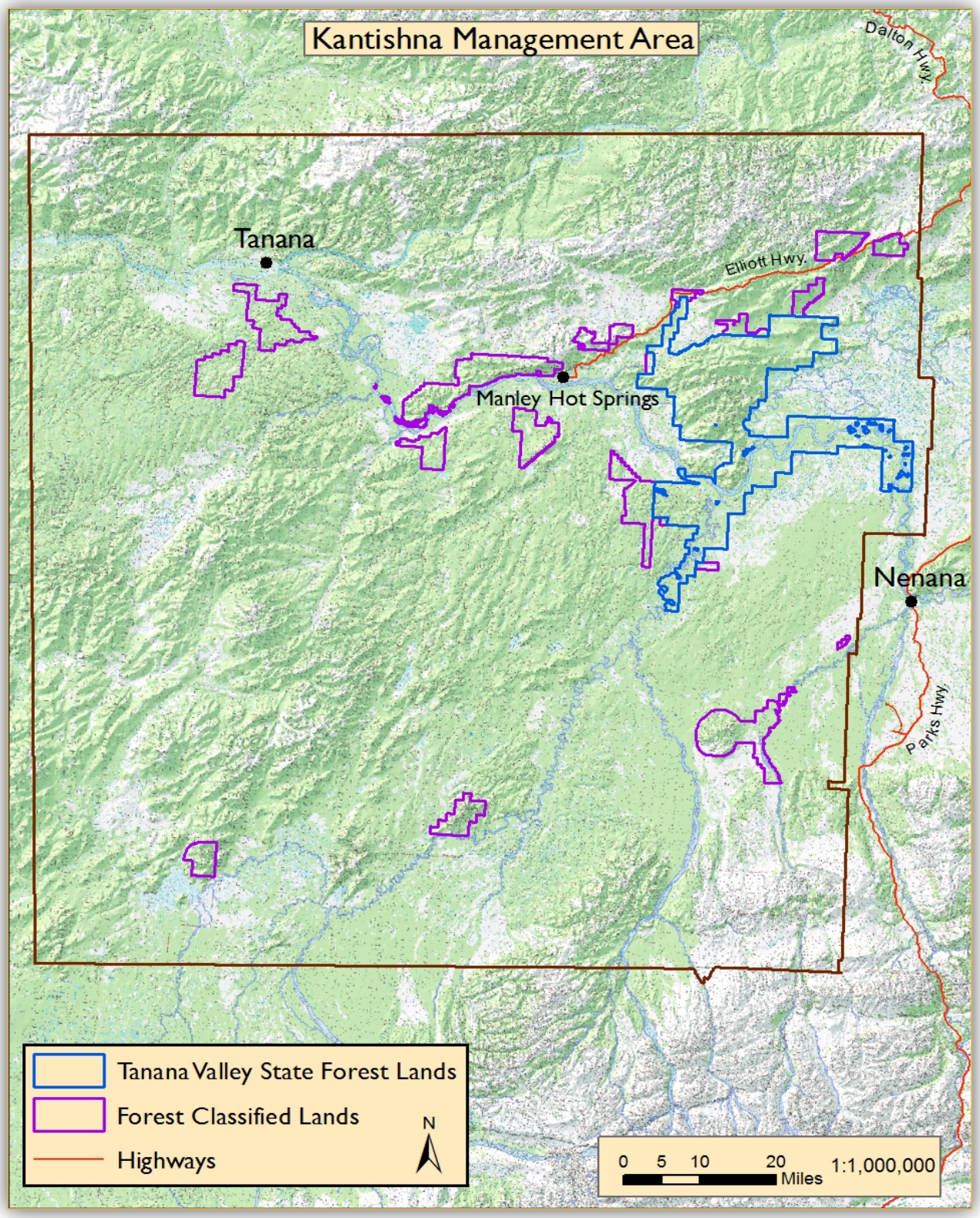

FIGURE 4. KANTISHNA MANAGEMENT AREA.

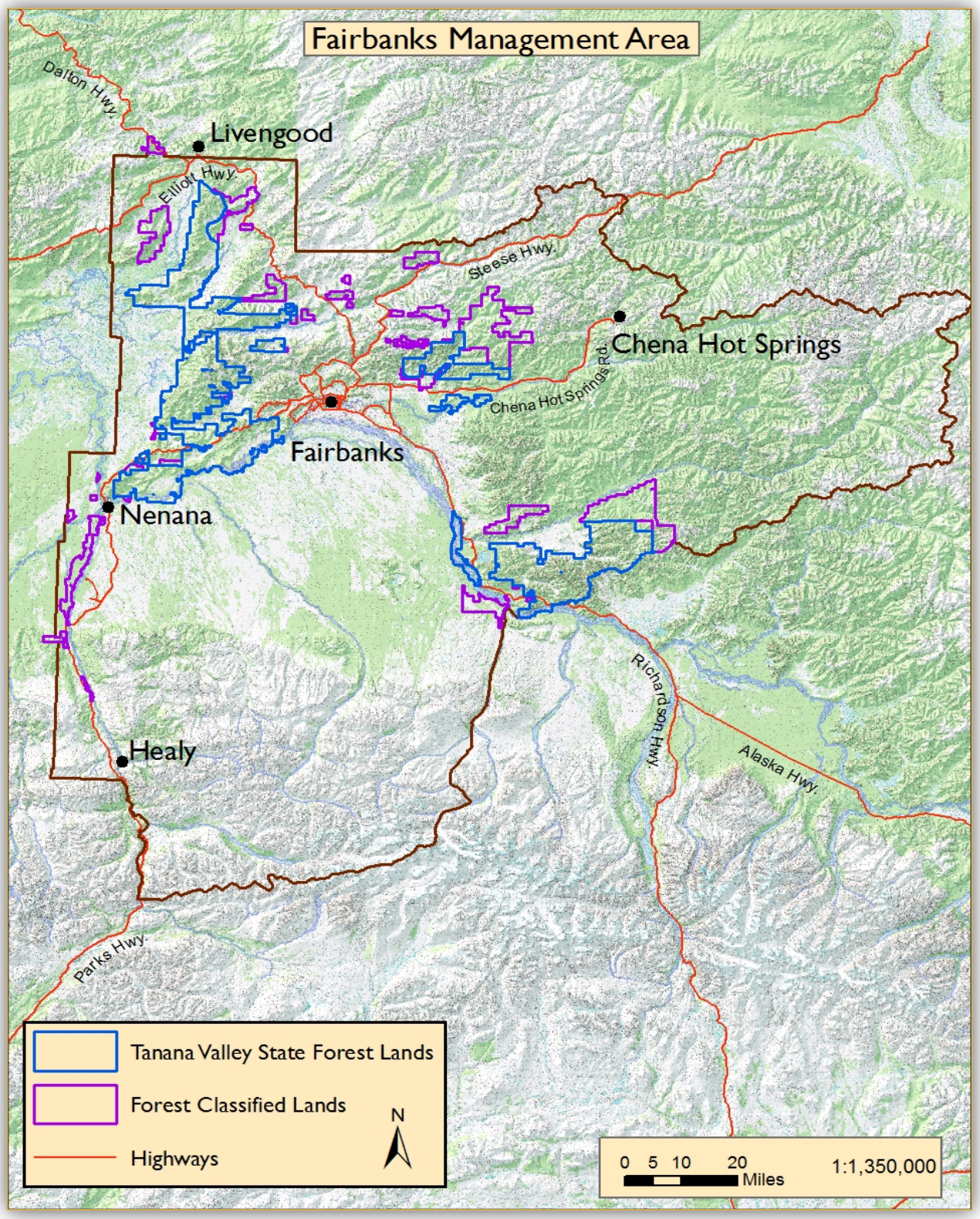

FIGURE 5. FAIRBANKS MANAGEMENT AREA.

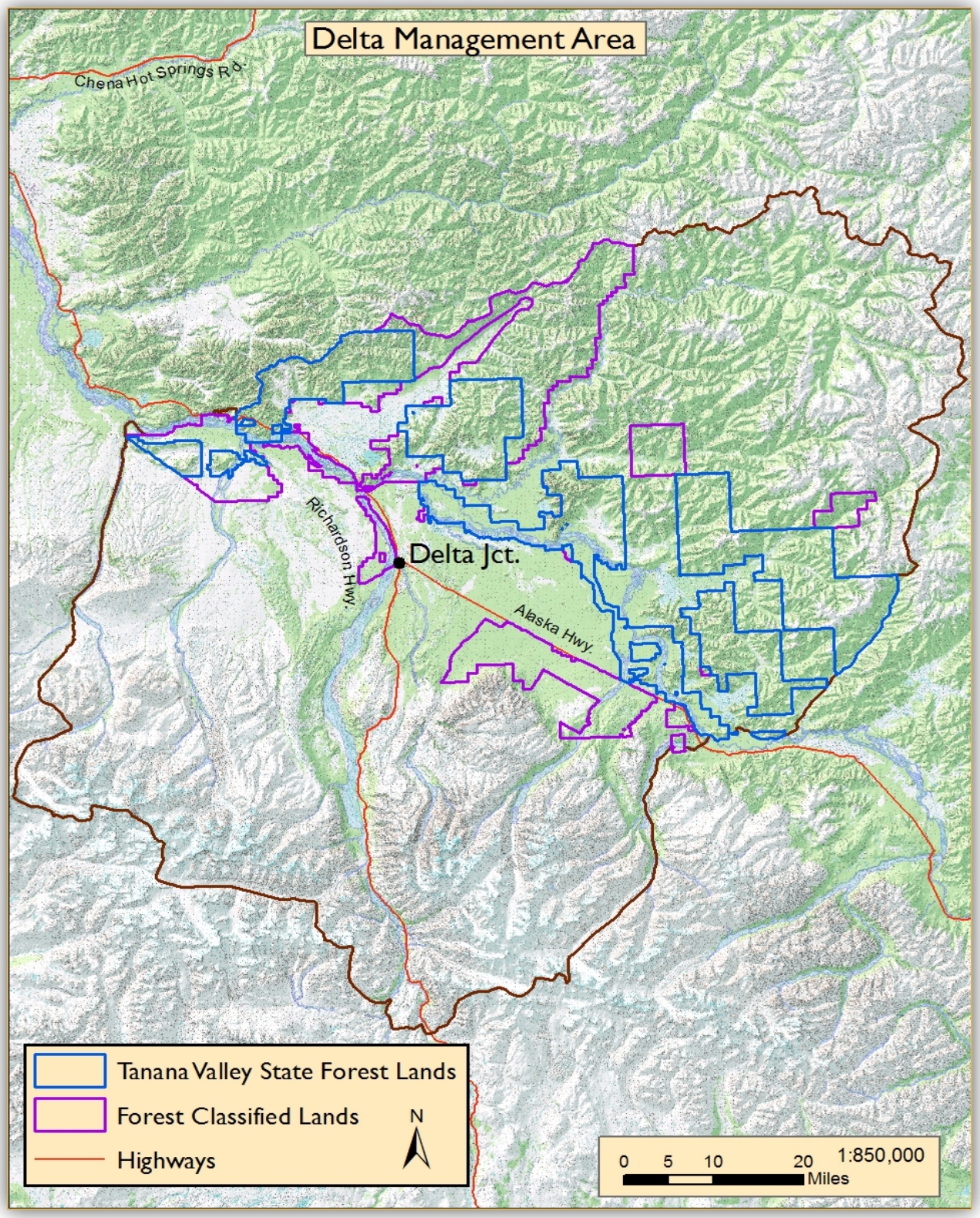

FIGURE 6. DELTA MANAGEMENT AREA.

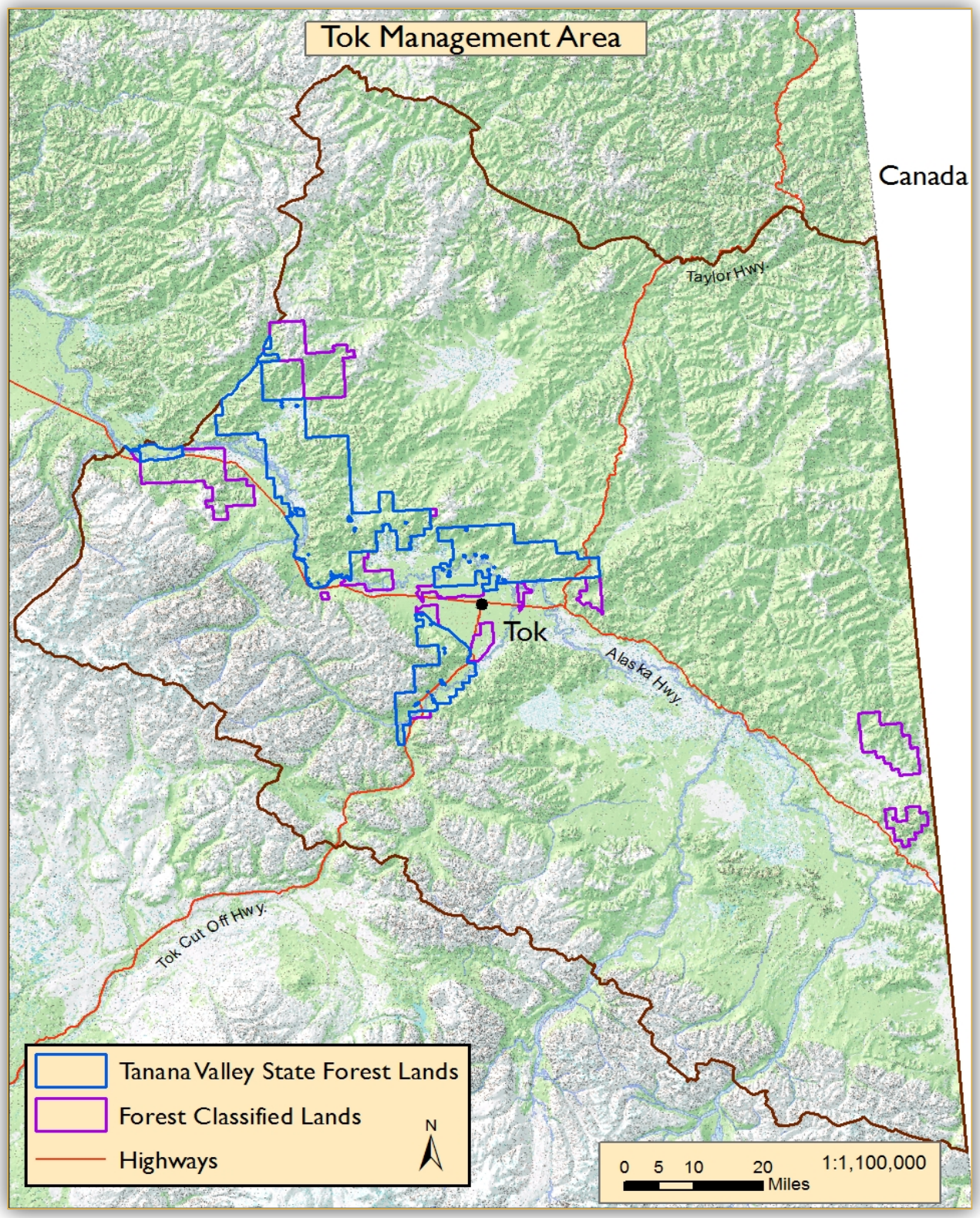

FIGURE 7. TOK MANAGEMENT AREA.

1. Tanana Valley State Forest

Lands within the Tanana Valley State Forest (TVSF) are legislatively designated areas established under Alaska Statute 41.17.400. The primary purpose of state forests is multiple use management providing for utilization of timber resources while perpetuating other beneficial resource use. The 2001 update to the TVSF Management Plan recommended changes to the boundaries of the TVSF in a series of property additions and deletions. These changes were adopted by the Legislature in 2008 and resulted in an amendment to AS 41.17.400(d). Other area changes reflect the deletion of acres that are private in-holdings within the overall TVSF boundaries.

2. Forest Classified Lands

Forest classified lands are state lands designated under the Tanana Basin Area Plan with a primary Forestry classification. These lands, although not legislatively designated, are included within the overall timber base and allowable harvest calculations. The designation of lands within the area plans can change however, with the update of these plans. Currently the Tanana Basin Area Plan is in update with the plan now divided into western and eastern portions (Yukon Tanana Basin Area Plan (YTAP) and Eastern Tanana Basin Area Plan (ETAP) respectively). The YTAP is in public review and the revised forest classified lands are likely to be the final version. Some existing forest classified lands east of Nenana included in ETAP are likely to change and will result in a change to volume figures presented in this report. Volume per acre data will remain unchanged and will have to be applied to the new acreage figures when the updates are complete. Future revisions to the TVSF land base will attempt to legislatively designate some of the forest classified lands as state forest and will result in a more stable land base.

B. Physical Description

1. Topography

The Tanana Valley is located in Interior Alaska and is drained by the large silt bearing Tanana River. The river is fed from the south by numerous glacial tributaries originating in the Alaska Range and from the north by mostly clear streams flowing from the Yukon-Tanana uplands. Much of the valley floor is a wide alluvial plain with the Tanana River constrained to the north by the uplands. Valley elevations range from about 2,000 feet near the Canada border to 400 feet to the west.

2. Climate

The Tanana Valley is within the continental climatic zone and is characterized by large temperature differences between seasons and low annual precipitation. It is one of the warmest and coldest areas of the state with an average summer temperature of 63˚ F and an average winter temperature of -10˚ F. Annual precipitation averages 10.5 inches. During the

summer, the warmest portion of the valley is near Fairbanks where temperatures of 80˚ or higher occur on about 10 days each summer.

3. SOILS

Soils have developed in various types of parent material across the valley. The lower slopes of hills are underlain by a thick mantle of silty micaceous loess derived mostly from outwash plains adjacent to and south of the Tanana River. Loess depth varies, but usually is thinner on higher hills and ridges where wind and water action have eroded the loess downward. On lee sides of lower hills and ridges, loess depth can be quite thick due to the eddying effect of wind. The Tanana lowlands are alluvial in origin and underlain by unconsolidated deposits of gravel, sand, outwash fans, and loess. Along larger streams and rivers, silts and sands predominate. The well drained upland soils in which loess is no longer being deposited are considered mature soils with defined horizons or layers. Soils forming in the continuing deposits of alluvial plains are young and have not had time for horizon differentiation. Poorly drained soils on both alluvial and upland sites show little horizon differentiation.

Many of the soils are poorly drained and contain permafrost at shallow depths. Productive timberland in these areas is limited and may support only slow growing dwarf forests comprised mostly of black spruce. The most productive soils are on alluvial sites along rivers and on the Yukon-Tanana Uplands on aspects other than north.

III. OBJECTIVES

The objective of this report is to provide reliable inventory data to assist in the management of forest resources in the Tanana Valley. Determination of an operable land base, sustainable harvest rate and management planning all require accurate volume data and geographically referenced spatial locations of individual stands. The inventory provides the following items useful for development and planning:

- Spatially accurate stand polygons overlaid on geographically rectified photo base.
- Accurate acreage determination of forest cover.
- Statistically valid sampling design that produces a variety of tree and stand attributes.
- Field sampling of tree and stand productivity variables useful for determining sustainable harvest rates.
- Geographic Information System (GIS) mapping access of spatial data with volume and acreage querying capabilities.
- Relational database information storage with ability to update volume figures from future land base acreage changes.

IV. METHODS

Forest inventory information was collected through a stratified random sampling design. The project area was divided into subpopulations (timber types) in order to account for variation in species composition. Each timber type was then treated as a random sample population. The number of stands sampled within each timber type was based on the overall area occupied and achievement of acceptable statistics within the available field work funding constraints. A total of 487 individual timber stands were field sampled between 2007 and 2012. These field samples comprise 4,870 individual measurement plots. The sample timber types were selected randomly and access to the stands was by foot, helicopter, boat and four-wheeler. Field measurements were made in the selected stands to provide estimates of volume, stocking, defect and growth by individual tree species.

C. BASE IMAGERY

Scanned color infrared aerial photographs at the scale of 1:15,840 (1 inch = ¼ mile) and natural color digital ortho photographs at 1:40,000 (1 inch = .63 miles) were used for the project. The dates of aerial photo coverage ranged from 1994 to 1995. The dates of the digital ortho photographs were 2007 to 2009. The scanned color infrared photos were orthorectified and geo-referenced to existing Spot satellite images and individual photo scenes were mosaiced into photo groups. This was accomplished utilizing PCI image processing software. The natural color photos were received by the Division of Forestry already orthorectified, geo-referenced and mosaiced.

D. VEGETATION CLASSIFICATION

Stereo digital pairs were created from the geographically referenced photos utilizing the PCI software. The project area was vegetation typed directly on a computer screen utilizing DAT/EM Summit Evolution photogrammetic hardware and software which allows the operator to view the images in stereo. In the vegetation typing process, boundaries of individual features (polygons) were determined from the stereo image of the photos and drawn with the computer mouse on the computer screen. The software was linked to ESRI ArcMap GIS software where attributed vegetation polygons were stored. In the process of delineating polygons, a GIS feature class was created. The feature class stores the geographic location of the polygons as well as specific attributes such as the timber type designation. The smallest size of the polygons drawn was approximately 1/2 acre. Sawtimber, poletimber and reproduction stands were classified as timberland and represent the areas of greater productivity. They are a component of a larger class of ground cover called forestland. Forestland is defined as land that is at least 10% covered by trees. Delineation of timberland types was based on tree species, size class and stand density. The most prevalent species determined the timber type. In mixed timber types, the secondary species represented at least 30% density of the type in question.

Aids used in the interpretation of timber types on the imagery included color, texture, hue, tree height and physical location of the stand in question. The other component of forestland; dwarf forests, generally comprise black spruce stands that are less than 25 feet tall at maturity. These stands were not sampled in the inventory, are of low productivity, and do not have a volume estimate.

E. Field Inventory Design

The variable plot radius sampling method was used for field data collection of poletimber and sawtimber size trees. The basal area factor utilized was 20 square feet. In each timber stand sampled, ten plots were spaced uniformly on a traverse located systematically through the stand. The traverse was located in such a manner as to attempt to sample the variation within a stand. To minimize travel time, plots were generally located with a maximum interval of 300 feet. Tally trees were selected or rejected with a relascope prism. On five of the ten plots, species, tree vigor, crown ratio, defect type, estimated defect percentage and a GPS reading were recorded and tree diameter, total tree height, bark thickness, and ten-year growth were measured (measure plots). Tree diameters were measured 4.5 feet above ground, commonly known as "diameter breast height" or dbh. Co-dominate and dominant trees were cored at dbh to determine average age and site index of the sample stand. On the other alternating five plots, only the number of trees by species and size class selected by the relascope were recorded (count plots). Count plots generally serve to lower the sample error by increasing the overall plot numbers, but economize time spent in the field collecting data. Only trees five inches dbh and greater were measured utilizing the variable plot sampling method.

The fixed plot sampling method was used for field data collection of trees less than five inches dbh. At every other plot in the ten plot traverse (measure plots) seedling and sapling size trees were measured. Species and quality were recorded and tree diameter and total tree height were measured. The fixed plot was a circular 1/250th acre plot (7.45 foot radius).

A. Data Summary

Upon completion of the fieldwork, sampled stand data were entered into TCruise, a timber inventory software program. The inventory software calculated volume attributes for the individual sampled stands. These stands were then grouped into strata and re-processed in TCruise. The inventory contains 16 separate sample strata for which estimates of gross and net volume per acre have been calculated. Strata have been divided and processed into two volume units. This processing step was performed to better represent the volume differences across the project area. The first volume unit was applied to strata from the Kantishna, Fairbanks and Delta Management areas (373 sampled stands, 1,711,328 acres). These three

LAND COVER KEY	
FOREST SPECIES	
1 Black Spruce	31 White Spruce-Birch
2 White Spruce	32 White Spruce-Black Spruce-Birch
3 Black Spruce-White Spruce	33 Black Spruce-Aspen
16 Balsam Poplar	34 White Spruce-Aspen
17 Birch	35 White Spruce-Black Spruce-Aspen
18 Aspen	37 White Spruce-Birch-Aspen
19 Birch-Aspen	38 White Spruce-Balsam Poplar
30 Black Spruce-Birch	39 White Spruce-Black Spruce-Birch-Aspen
DESCRIPTORS (Forests - Tree Size Class)	
S Sawtimber	≥ 9.0 inches DBH
P Poletimber	5.0 inches to 8.9 inches DBH
R Reproduction	< 5.0 inches DBH
D Dwarf	< 25 feet at maturity
BR Recently Burned	
W Wetland	
FOREST DENSITY	
X 60-100% Calls are based Y 25-59% on crown closure Z 10-24% percent.	
NON-FOREST	
68 Mixed Tall Shrub	95 Urban-Suburban
71 Mixed Low Shrub	96 Agriculture
76 Dry Midgrass-Herb-Sedge	97 Gravel pits, mines, quarries
79 Wet Sedge-Grass	98 Roads
80 Lakes-Ponds	99 Pipelines/Power lines
88 Rivers-Flowing Water	100 Clouds
94 Bare Ground	101 Timber Sales Harvested

TABLE 4. LAND COVER KEY.

management areas were deemed similar enough to each other to combine the sampled stands for volume processing. The second volume unit was applied to strata from the Tok Management area (114 sampled stands, 441,607 acres). This management area had overall lower volumes per acre and was processed separately. A total of 487 individual timber stands containing 4,870 plots were sampled. Field data from some sampled stands were similar enough to each other to allow combining of different stand timber types into like strata. Un-sampled timber types deemed similar enough were also combined into the strata. Combinations of sampled and un-sampled timber types into strata are shown in Appendix A. Total inventory forest volume was calculated by expanding the average per acre volume unit

figures for each sample strata by the number of acres each sample strata represents. These calculations were performed in a Microsoft Access database and utilize the GIS acreage figures. Since numbers were rounded in the database, totals within some of the tables may not add up precisely because of this rounding. Output reports written in the Access database display numerous stand attributes from the associated database tables and queries.

B. Geographic Information System

The GIS coverage contains several feature classes. The inventory polygons comprise the largest dataset. This feature class has been clipped to the boundaries of the TVSF and forest classified land base. Its significant attributes include vegetation type, acreage, state land class and management area. Other feature classes include the individual sample stand polygons and the sample plot locations. All these features can be joined to the associated database tables to calculate per acre and total stand volume, tree data list files and calculated sample stand volume.

Stratum	Description	Acres	Percent
1	White Spruce Sawtimber	72,616	3%
2	White Spruce Poletimber	94,622	4%
3	Birch Closed	200,884	9%
4	Birch Open	17,306	1%
5	Aspen Closed	75,563	4%
6	Aspen Open	5,195	<1%
7	Birch-Aspen Closed	77,167	4%
8	Birch-Aspen Open	11,193	1%
9	White Spruce-Birch Sawtimber	47,162	2%
10	White Spruce-Birch Poletimber	97,469	5%
11	White Spruce-Birch-Aspen Sawtimber	18,737	1%
12	White Spruce-Birch-Aspen Poletimber	108,561	5%
13	White Spruce-Balsam Poplar	27,262	1%
14	Black and White Spruce-Birch-Aspen	44,065	2%
15	White Spruce-Hardwood Reproduction	549,348	26%
16	Black and White Spruce-Hardwood Reproduction	705,785	33%
	Total Timberland Acres	2,152,935	100%

TABLE 5. VOLUME STRATA AND ACREAGE.

C. Timberland Vegetation Description

Timberland vegetation is described below. The inventory project area is within the boreal forest and is comprised of five dominate species: White Spruce, Black Spruce, Birch, Aspen, and Balsam Poplar. A sixth species, Tamarack, is also present but in very small quantities and only appears in the inventory data within the reproduction size class. White Spruce which has the highest volumes per acre tends to increase in dominance in a continuum extending west to east up the Tanana Valley. In general the most productive stands of all species are located within 6 miles or so of the Tanana River. In the hills further north of this distance site index begins to decrease.

1. Timberland Description and Occurrence, White Spruce

White spruce (Picea glauca) occurs in pure stands and in mixed stands with birch, balsam poplar, aspen and black spruce. It attains its best development on well drained to moderately well drained silt and sand loams. The well-stocked white spruce type represents the most productive sites (Viereck et al. 1992). The white spruce type is considered to be the climax vegetation type on the well-drained upland sites. Over several centuries on some floodplain sites, or in upland sites in the absence of fire, white spruce types may be replaced by black spruce as permafrost develops on the site. White spruce sawtimber stands are found along the Tanana River and adjacent uplands. They also occur along the numerous bends of the Kantishna and Tok Rivers. The Nenana River also contains significant concentrations of white spruce. Other concentrations of stands lie northeast of Quartz Lake, north of the Pogo mine road and west of Black Lake.

FIGURE 8. STRATUM 1 WHITE SPRUCE SAWTIMBER.

2. Timberland Description and Occurrence, Black Spruce

Black spruce (Picea mariana) occurs in pure stands but may have a mixture of white spruce and hardwoods. Black spruce occurs commonly on organic soils with poor drainage, often

underlain by permafrost. Many of the stands of black spruce are less than 25 feet in height and are classified as dwarf forest (not sampled for volume in this inventory). Some stands of black spruce occurring on better sites were classified as poletimber or reproduction and were included in the timberland volume and area estimates mostly in stratum 14 or 16. Black spruce is found throughout the project area and is concentrated in valley bottoms, north slopes and on ridgelines. It increases in dominance on slopes with aspects other than north in the uplands further distant from the Tanana River. In some of these areas even slopes with southerly exposure contain stands of black spruce.

FIGURE 9. BLACK SPRUCE DWARF FORESTS.

3. TIMBERLAND DESCRIPTION AND OCCURRENCE, BIRCH

Paper birch (Betula papyrifera) occurs in pure stands but may have a mixture of white spruce, black spruce and other hardwoods. Birch attains its best development on well-drained silt loam soils. The stands generally result from fires where residual and adjacent unburned birch trees spread considerable amounts of seed on the newly exposed sites. Upland stands typically grow on aspects other than due north or due south.

FIGURE 10. STRATUM 3 BIRCH CLOSED.

Stands will also grow on flood plain sites, but are usually not associated with the most actively flooding zones. In these areas balsam poplar is the dominate timber type. Birch stands containing sawtimber sized trees are located west of Fairbanks in the Dugan Hills area, along the Nenana Ridge forest road, along the Richardson Highway near Tenderfoot Hill and northeast of Quartz Lake. Most stands however, contain poletimber size trees and average about 7-inches in diameter.

4. Timberland Description and Occurrence, Aspen

Quaking aspen (Populus tremuloides) occurs in pure stands but may have a mixture of white spruce, black spruce and other hardwoods. Aspen attains its best development on well-drained silt loam soils, but on areas that are warmer than the birch sites. It also occurs on sandy soils associated with stabilized Aeolian sand dune formations. Stand development results from fire and if established by seed is similar to birch. Aspen however will also regenerate from root

FIGURE 11. STRATUM 5 ASPEN CLOSED.

sprouting. Poletimber and sawtimber stands are concentrated in the Dugan Hills area and uplands with southerly aspects in the Fairbanks and Delta Management Areas. In the Tok Management Area aspen stands generally regenerate quickly after fire but are not as long lived as lower Tanana Valley locations and many develop only into the low end of the poletimber size class. In many of these areas aspen occurs with black spruce on somewhat droughty alluvial outwash plains.

5. Timberland Description and Occurrence, Balsam Poplar

Balsam poplar (Populus balsamifera) is generally found in pure stands and mixed stands with white spruce on floodplains. On floodplain sites it occurs where erosion and flooding are active. These sites usually are quite productive, but are limited in area. Balsam poplar may also occur on the uplands mixed with white spruce, birch and aspen. In these stands balsam poplar is generally only present as an incidental species. Pure balsam poplar and mixed white spruce balsam poplar stands have been combined into stratum 13.

FIGURE 12. STRATUM 13 WHITE SPRUCE - BALSAM POPLAR.

D. Forest Volume Definitions

Estimates of timber volume are calculated with four different measurements; cubic foot volume, board foot volume, green tons and above ground biomass tons. The first two measurements are derived from published equations and are considered more statistically valid measurements. For example sample accuracy shown later in the report is based on the live cubic foot estimate. The cubic, board and green ton measurements are related to traditional log based timber harvesting where volume only includes the merchantable bole of the tree, for example, a minimum 5 inch diameter at breast height (dbh) and a minimum top diameter of 4 inches.

1. Cubic and Board Foot Measurements

Volume calculations for both cubic and board foot measurements are based on volume equations produced for Interior Alaska; U.S. Forest Service research notes NOR-5, NOR-6 and PNW-59. Cubic volume is reported in Smalian's rule and for spruce and hardwoods includes volume to a 4-inch top (NOR-6) (Gregory and Haack 1964). Cubic volume is applied to trees greater than or equal to 5-inches dbh. Board foot volume is reported in Scribner Decimal C scale and is based on 16-foot log segments (short log scale). For spruce it is reported to a 6-inch top (PNW-59) (Farr 1967a) and for hardwoods to an 8-inch top (NOR-5) (Haack 1963). Board foot volume is applied to trees greater than or equal to 9-inches dbh.

Volume Formula Name	Volume Unit	Species	Formula
NOR-6	Cubic Foot 4-inch Top	White and Black Spruce	(-2.055)+0.2982*(dbh)+0.00181*(dbh)^2*ht
NOR-6	Cubic 4-inch Top	Birch	(-2.5767)+0.9524*(dbh)-0.10446*(dbh)^2-0.03303*(ht)+0.00282*(dbh)^2*(ht)
NOR-6	Cubic 4-inch Top	Aspen	(-0.5553)-0.02216*dbh^2+0.00246*dbh^2*ht
NOR-6	Cubic 4-inch Top	Balsam Poplar	(-3.2187)+0.8281*(dbh)-0.05908*(dbh)^2-0.01985*(ht)+0.00199*(dbh)^2*(ht)
PNW-59	Board Foot Scribner 6-inch Top	White and Black Spruce	39.71+4.2659*dbh-0.55865*dbh^2-1.1184*ht+0.016113*dbh^2*ht-437.92/dbh^2
NOR-5	Board Foot Scribner 8-inch Top	Birch and Aspen	(-27.263)+0.00995*dbh^2*ht
NOR-5	Board Foot Scribner 8-inch Top	Balsam Poplar	(-46.7415)+0.00956*dbh^2*ht

TABLE 6. VOLUME FORMULAS BY SPECIES FOR POLETIMBER AND SAWTIMBER SIZE CLASSES.

2. Ton Measurements

Computation of green tons is somewhat less straight forward because published local volume tables by ton are not available. In the absence of local tables various publications have been produced that list the weight of green cordwood by species. These values can then be converted into pounds per cubic feet (Sturgeon 1979). The ton measurement represents the same diameter ranges as included in the cubic feet measurements ($\geq$ 5"dbh to a 4 inch minimum top).

Species	Pounds per Cubic Foot
White Spruce	34
Black Spruce	34
Birch	50
Aspen	43
Balsam Poplar	43

TABLE 7. INVENTORY SPECIES AND WEIGHT FOR POLETIMBER AND SAWTIMBER.

3. Above Ground Biomass Ton Measurements

Computation of above ground biomass tons was derived from biomass regression equations that relate the weight of the total above ground portion of the tree including branches and needles to total height and dbh measurements. The DOF Tok Area Forestry Office conducted green weight measurements on 1/100th acre plots for white spruce and aspen between 2008 and 2013. From these datasets regression equations were computed in Microsoft Excel. Due to inaccuracies in projecting weight of very small trees (negative regression values) the equations were only applied to trees greater than or equal to 1.5-inches dbh. The diameter limit also reflects what may constitute actual biomass harvest utilization. For the purpose of a naming convention, the measurement is referred to as biomass tons.

Species	Green Weight in Pounds
White Spruce	-51.272*[dbh]+11.28*([dbh])^2+3.752*[ht]
Black Spruce	
Birch	-65.425*[dbh]+12.687*([dbh])^2+4.272*[ht]
Aspen	
Balsam Poplar	

TABLE 8. REGRESSION EQUATION FOR GREEN WEIGHT OF ABOVE GROUND BIOMASS.

V. Results

Selected results of the analysis are displayed in the following tables. "Timberland Area" refers to those portions of the land area that have been associated with forest inventory volume strata and have woody biomass estimates. It does not include shrubland vegetation types or dwarf forests. The results present inventory data by species and by various groupings of the individual 16 volume strata. Additional detailed inventory data reports appear in the appendix.

A. Inventory Volume by Species

Inventory volume is reported below in Table 9 by tree species across all strata. When the entire volume by species is summed and divided by the timberland area of 2,152,935 acres there is an average volume of 963 net cubic feet per acre. Similarly, overall there is an average of 19 net tons per acre, 58 biomass tons per acre and 1,885 net board feet per acre. The values for cubic feet and tons are reported for trees equal to or greater than five inches dbh.

Biomass ton value is reported for trees equal to or greater than two inches dbh and board foot values are reported for trees equal to or greater than nine inches dbh.

Species	Gross CF/Ac	Net CF/Ac	Gross Tons/Ac	Net Tons/Ac	Biomass Tons/Ac	Gross BF/Ac	Net BF/Ac
Aspen	159	144	3	3	7	206	183
Balsam Poplar	33	28	1	1	2	55	42
Birch	299	268	7	7	18	358	298
Black Spruce	60	58	1	1	8	35	32
Tamarack	0	0	0	0	0	0	0
White Spruce	481	464	8	8	23	1,390	1,329
	1,032	963	21	19	58	2,044	1,885

TABLE 9. TIMBERLAND VOLUME PER ACRE BY SPECIES ACROSS STRATA.

B. Inventory Volume by Product and Species

Inventory volume is reported in Table 10 by tree product and species across all strata. Sawtimber refers to trees greater than or equal to 9-inches dbh. Poletimber refers to trees greater than or equal to 5-inches dbh and less than 9-inches dbh. Sapling refers to trees less than 5-inches dbh but the biomass volume is only applied to trees between 1.5 and 4.9-inches dbh. In terms of net cubic volume, near equal amounts of live sawtimber and live poletimber trees are present.

FIGURE 13. TANANA VALLEY STATE FOREST, KANTISHNA MANAGEMENT AREA.

Product	Species	Gross CF (Thousands)	Net CF (Thousands)	Gross Tons (Thousands)	Net Tons (Thousands)	Biomass Tons (Thousands)	Gross BF (Thousands)	Net BF (Thousands)
Saw Live								
	Aspen	155,713	139,567	3,348	3,001	5,317	442,441	392,123
	Balsam Poplar	41,327	32,570	889	700	2,020	116,455	90,668
	Birch	250,539	212,109	6,263	5,303	10,841	770,015	640,869
	Black Spruce	17,765	16,427	302	279	546	74,498	68,705
	White Spruce	649,813	621,909	11,047	10,572	22,238	2,948,437	2,822,496
	Sum	1,115,157	1,022,582	21,849	19,855	40,961	4,351,846	4,014,862
Saw Dead								
	Aspen	525	424	11	9	17	1,850	1,563
	Balsam Poplar	330	174	7	4	20	1,116	470
	Birch	780	356	19	9	28	1,241	657
	Black Spruce	146	120	2	2	5	684	569
	White Spruce	9,875	8,936	168	152	315	43,765	39,385
	Sum	11,656	10,011	208	176	385	48,657	42,644
Pole Live								
	Aspen	182,981	168,830	3,934	3,630	7,437	0	0
	Balsam Poplar	28,804	27,903	619	600	1,659	0	0
	Birch	389,523	363,679	9,738	9,092	17,301	0	0
	Black Spruce	110,311	106,726	1,875	1,814	5,717	0	0
	White Spruce	372,866	365,209	6,339	6,209	16,783	0	0
	Sum	1,084,485	1,032,347	22,505	21,345	48,898	0	0
Pole Dead								
	Aspen	2,710	2,117	58	46	119	0	0
	Balsam Poplar	124	100	3	2	10	0	0
	Birch	2,722	1,844	68	46	147	0	0
	Black Spruce	1,446	1,323	25	22	70	0	0
	White Spruce	3,032	2,436	52	41	139	0	0
	Sum	10,035	7,819	205	158	485	0	0
Sapling Live								
	Aspen	0	0	0	0	2,258	0	0
	Balsam Poplar	0	0	0	0	1,181	0	0
	Birch	0	0	0	0	11,004	0	0
	Black Spruce	0	0	0	0	10,944	0	0
	Tamarack	0	0	0	0	28	0	0
	White Spruce	0	0	0	0	9,017	0	0
	Sum	0	0	0	0	34,432	0	0
	Grand Total	2,221,333	2,072,759	44,767	41,533	125,161	4,400,503	4,057,506

TABLE 10. PRODUCT SUMMARY BY SPECIES.

C. Defect Estimates by Species

Defect renders portions of individual trees unusable or of very limited use as forest products due to damage such as broken stems, sweep, crook and rot. Table 11 ranks the most common defect types by species. Net volume however does not take into account all defects because some hidden defect is difficult to determine. Rot indicators such as conks however can be used as a proxy for hidden defect. Defect is the difference between gross and net volume. Defect percentage by species is shown in Table 12.

Species	Defect Type					
	Conks	Crook	Sweep	Scars	Broken Top	Forked Top
Aspen	4	2	3	1	6	5
Balsam Poplar	6	2	3	1	5	4
Birch	5	1	4	3	6	2
Black Spruce	6	2	1	4	5	3
White Spruce	6	2	1	4	5	3
Overall Defect Rank	6	1	2	3	5	4

TABLE 11. DEFECT TYPE RANKING BY SPECIES.

Species	Gross Cubic Feet/Ac	Net Cubic Feet/Acre	Percent Defect
Aspen	159	144	9.1
Balsam Poplar	33	28	13.9
Birch	299	268	10.2
Black Spruce	60	58	3.9
White Spruce	481	464	3.6
Total	1,032	963	6.7

TABLE 12. CUBIC FOOT DEFECT BY SPECIES.

D. Inventory Volume by Size and Timber Type Class

Volume is reported below by grouping the 16 strata into sizes and timberland vegetation type class. In terms of net cubic volume, sawtimber types contain 18% of the total. Mixed sawtimber/poletimber and poletimber types contain 63% and reproduction types contain 19% of the total.

Size	Timber Type Class	Gross CF (000s)	Net CF (000s)	Gross Tons (000s)	Net Tons (000s)	Biomass Tons (000s)	Gross BF (000s)	Net BF (000s)
Sawtimber								
	White spruce	232,529	221,977	4,054	3,858	8,032	900,230	863,342
	White spruce/Birch	117,315	103,582	2,274	1,982	4,435	437,963	388,597
	White spruce/Hardwood	45,232	42,652	886	832	1,651	134,786	126,287
	Subtotal	395,076	368,211	7,215	6,672	14,119	1,472,979	1,378,226
Sawtimber/Poletimber								
	Aspen	186,361	169,723	3,970	3,609	7,938	197,285	178,742
	Birch	382,861	354,235	9,104	8,417	18,067	463,405	407,868
	Black and White spruce/Hardwood	62,641	56,831	1,227	1,108	2,868	105,520	96,964
	Hardwood	171,121	151,681	3,860	3,408	7,377	280,980	235,158
	White spruce/Balsam poplar	51,917	45,692	1,043	911	2,682	104,997	88,061
	Subtotal	854,902	778,162	19,204	17,453	38,930	1,152,187	1,006,793
Poletimber								
	White spruce	206,030	197,586	3,563	3,412	8,348	504,068	481,381
	White spruce/Birch	154,992	142,221	3,082	2,794	6,761	404,055	373,356
	White spruce/Hardwood	194,749	182,698	3,821	3,557	8,418	476,167	450,065
	Subtotal	555,770	522,505	10,466	9,763	23,526	1,384,290	1,304,802
Reproduction								
	Black and White spruce/Hardwood	153,476	149,950	2,729	2,660	22,630	95,430	91,160
	White spruce/Hardwood	262,109	253,932	5,154	4,986	25,954	295,618	276,525
	Subtotal	415,585	403,882	7,883	7,646	48,585	391,048	367,685
	Grand Total	2,221,333	2,072,759	44,767	41,533	125,160	4,400,503	4,057,506

TABLE 13. VOLUME BY SIZE AND TIMBER TYPE CLASS.

E. Timber Volumes by Volume Unit

Timber volume by strata and volume unit are reported below. Volume unit 1 was processed into strata from field samples taken within the Kantishna, Fairbanks and Delta management areas. Volume unit 2 was processed into strata from field samples taken within the Tok management area.

Trees ≥ 5"	Basal Area (Ft^2)	Gross CF (≥5"dbh)	Net CF (≥5"dbh)	Gross Tons (≥5"dbh)	Net Tons (≥5"dbh)	Biomass Tons (≥2"dbh)	Gross BF (≥9"dbh)	Net BF (≥9"dbh)
Stratum 1 White Spruce Sawtimber 61,328 Acres								
202	127	3,307	3,150	57.83	54.89	111.5	13,209	12,657
Stratum 2 White Spruce Poletimber 63,615 Acres								
308	116	2,488	2,383	43.19	41.31	98.68	6,483	6,204
Stratum 3 Birch Closed 191,288 Acres								
316	93	1,832	1,704	43.64	40.56	86.62	2,021	1,791
Stratum 4 Birch Open 15,784 Acres								
148	72	1,383	1,223	33.17	29.23	61.69	3,880	3,372
Stratum 5 Aspen Closed 67,421 Acres								
392	120	2,520	2,292	53.83	48.87	105.14	2,594	2,345
Stratum 6 Aspen Open 2,648 Acres								
239	80	1,750	1,473	36.68	30.76	78.11	1,932	1,534
Stratum 7 Birch-Aspen Closed 74,131 Acres								
310	101	1,980	1,782	44.72	40.12	86.44	2,897	2,502
Stratum 8 Birch-Aspen Open 10,847 Acres								
182	89	1,846	1,424	42.05	32.15	70.01	5,558	4,059
Stratum 9 White Spruce-Birch Sawtimber 46,067 Acres								
181	107	2,502	2,207	48.54	42.26	94.29	9,408	8,342
Stratum 10 White Spruce-Birch Poletimber 86,683 Acres								
224	87	1,652	1,513	32.96	29.82	70.13	4,308	3,977
Stratum 11 White Spruce-Birch-Aspen Sawtimber 17,563 Acres								
248	111	2,481	2,336	48.8	45.73	90.86	7,425	6,947
Stratum 12 White Spruce-Birch-Aspen Poletimber 84,400 Acres								
246	96	1,925	1,804	38.33	35.64	81.68	4,682	4,434
Stratum 13 White Spruce-Balsam Poplar 21,126 Acres								
274	97	1,690	1,522	34.43	30.84	94.73	2,899	2,491
Stratum 14 Black and White Spruce-Birch-Aspen 39,933 Acres								
251	82	1,494	1,351	29.44	26.51	66.82	2,516	2,306
Stratum 15 White Spruce-Hardwood Reproduction 371,465 Acres								
122	29	429	416	8.69	8.42	48.68	542	503
Stratum 16 Black and White Spruce-Hardwood Reproduction 557,028 Acres								
70	16	196	190	3.51	3.4	32.1	133	126

TABLE 14. VOLUME PER ACRE BY STRATA, VOLUME UNIT 1.

Trees ≥ 5"	Basal Area (Ft^2)	Gross CF (≥5"dbh)	Net CF (≥5"dbh)	Gross Tons (≥5"dbh)	Net Tons (≥5"dbh)	Biomass Tons (≥1.5"dbh)	Gross BF (≥9"dbh)	Net BF (≥9"dbh)
Stratum 1 White Spruce Sawtimber 11,288 Acres								
283	123	2,635	2,552	45.01	43.54	105.78	7,986	7,716
Stratum 2 White Spruce Poletimber 31,007 Acres								
271	88	1,540	1,483	26.3	25.3	66.76	2,955	2,796
Stratum 3 Birch Closed 9,596 Acres								
219	68	979	828	21.57	18.13	48.5	1,333	998
Stratum 4 Birch Open 1,523 Acres								
120	54	759	701	16.74	15.33	38.24	1,759	1,621
Stratum 5 Aspen Closed 8,142 Acres								
254	79	1,288	1,228	26.71	25.42	66.34	1,880	1,795
Stratum 6 Aspen Open 2,547 Acres								
146	41	526	512	10.43	10.12	40.03	784	778
Stratum 7 Birch-Aspen Closed 3,035 Acres								
310	85	1,281	1,238	26.28	25.28	61.85	1,693	1,615
Stratum 8 Birch-Aspen Open 346 Acres								
236	86	1,226	1,108	26.26	23.46	63.51	2,239	2,144
Stratum 9 White Spruce-Birch Sawtimber 1,095 Acres								
277	106	1,896	1,757	34.83	32.12	83.78	4,187	3,926
Stratum 10 White Spruce-Birch Poletimber 10,786 Acres								
195	71	1,093	1,026	20.85	19.44	63.25	2,839	2,652
Stratum 11 White Spruce-Birch-Aspen Sawtimber 1,174 Acres								
191	77	1,408	1,385	24.97	24.53	47.25	3,727	3,647
Stratum 12 White Spruce-Birch-Aspen Poletimber 24,161 Acres								
198	83	1,335	1,259	24.24	22.72	63.07	3,351	3,137
Stratum 13 White Spruce-Balsam Poplar 6,136 Acres								
282	134	2,641	2,206	51.51	42.35	110.88	7,131	5,775
Stratum 14 Black and White Spruce-Birch-Aspen 4,132 Acres								
194	51	722	700	12.39	11.94	48.22	1,218	1,178
Stratum 15 White Spruce-Hardwood Reproduction 177,883 Acres								
175	45	579	560	10.84	10.45	44.25	529	504
Stratum 16 Black and White Spruce-Hardwood Reproduction 148,757 Acres								
103	24	298	295	5.19	5.14	31.93	144	143

TABLE 15. VOLUME PER ACRE BY STRATA, VOLUME UNIT 2.

F. Sampling Error by Volume

Sample error was calculated for each of the two volume units for the live gross cubic foot estimate by strata and size class. The sample error percent is given within one standard deviation of the mean. This means that there is a 68% chance (one standard deviation) that the volume of the individual live size class components are within plus or minus the error percentage indicated. Overall sample error for all strata in volume unit 1 and 2 was 1.2% and

2.8% respectively. Several strata significantly exceeded the design sample error of approximately 10%. This was due to the small acreage present in these strata and the correspondingly lower number of samples. In volume unit 1 where stratum 6 was calculated at 14.1% error, the total acreage of the stratum represented less than 1% of the timberland area. In volume unit 2 where strata 4, 6, 8 and 14 significantly exceeded the design sample error, total acreage represented less than 2% of the timberland area.

		Live Poletimber		Live Sawtimber		Combined	
Strata	Number of Plots	Gross CF/Ac	% Sampling Error	Gross CF/Ac	% Sampling Error	Gross CF/Ac	% Sampling Error
1	300	421	7	2,825	2.6	3,246	2.4
2	270	957	4.2	1,497	3.7	2,454	2.8
3	760	1177	2.3	644	3.1	1,821	1.8
4	90	357	15.9	1,017	8.2	1,374	7.3
5	260	1560	3.3	934	5.5	2,494	2.9
6	20	948	18	795	22.3	1,743	14.1
7	320	1038	3.9	932	3.8	1,970	2.7
8	60	414	21.4	1,432	9.3	1,846	8.7
9	230	370	8.5	2,120	3	2,490	2.8
10	370	612	5.1	1,036	4.2	1,648	3.2
11	130	699	8.5	1,778	5.8	2,477	4.8
12	230	739	5.1	1,177	4.2	1,916	3.2
13	80	796	8.5	877	9.3	1,673	6.3
14	140	809	6.5	679	10.6	1,488	6.0
15	240	272	8.3	156	11	428	6.6
16	230	163	9.5	32	22.2	195	8.7
Total	3,730	790	1.7	1,088	1.8	1,878	1.2

TABLE 16. GROSS LIVE CUBIC FOOT PERCENT SAMPLING ERROR, VOLUME UNIT 1.

		Live Poletimber		Live Sawtimber		Combined	
Strata	Number of Plots	Gross CF/Ac	% Sampling Error	Gross CF/Ac	% Sampling Error	Gross CF/Ac	% Sampling Error
1	100	791	8.3	1,694	5.9	2,485	4.8
2	130	828	6.1	655	8.4	1,483	5.0
3	40	598	13.5	351	15.3	949	10.2
4	60	281	19.3	478	23.9	759	16.7
5	50	675	12.5	607	13.8	1,282	9.3
6	40	326	15.7	200	41.4	526	18.5
7	80	820	6.5	461	11.2	1,281	5.8
8	20	340	37.8	885	21.9	1,225	19.0
9	40	864	9.3	1,032	14.2	1,896	8.8
10	40	399	12.3	656	12.1	1,055	8.8
11	40	480	17.2	838	12.5	1,318	10.1
12	70	528	7.1	773	13	1,301	8.2
13	60	575	13.5	2,066	10.2	2,641	8.5
14	40	437	17.9	285	15.2	722	12.4
15	220	448	6.3	131	13.3	579	5.7
16	110	262	11.2	20	40.8	282	10.8
Total	1,140	555	3.3	624	4.3	1,179	2.8

TABLE 17. GROSS CUBIC FOOT VOLUME SAMPLING ERROR, VOLUME UNIT 2.

G. Site Index

Tree height has been found as the most reliable indicator of site productivity. In essence, the taller the tree the more productive is the growing site. When height is combined with tree age, the measurements can be reported as a site index number. This number gives the height in feet of a particular stand at a reference base age. Site index of white spruce uses a base age of 100 years whereas site index of hardwoods uses a base age of 50 years. Site index reflects the combined effect of all environmental factors and is therefore a good index of stand productivity. Site index calculations for white spruce are based on site index equations produced for Interior Alaska: U.S. Forest Service research paper PNW-53 (Farr 1967b). Site index calculations for birch and aspen are based on site index equations produced for Interior Alaska; U.S. Forest Service research paper NOR-2 (Gregory and Haack 1965). Balsam poplar measurements were also applied to the aspen NOR-2 values.

		Site Index in Feet			
Strata		White Spruce	Birch	Aspen	Balsam Poplar
1	White Spruce Sawtimber	72	59	---	---
2	White Spruce Poletimber	61	41	---	---
3	Birch Closed	71	52	54	---
4	Birch Open	72	50	47	---
5	Aspen Closed	70	49	51	52
6	Aspen Open	56	---	45	---
7	Birch-Aspen Closed	69	48	50	56
8	Birch-Aspen Open	71	59	48	---
9	White Spruce-Birch Sawtimber	72	53	---	---
10	White Spruce-Birch Poletimber	66	42	---	---
11	White Spruce-Birch-Aspen Sawtimber	73	62	46	---
12	White Spruce-Birch-Aspen Poletimber	73	47	47	---
13	White Spruce-Balsam Poplar	65	47	---	51
14	Black and White Spruce-Birch-Aspen	63	45	44	---
15	White Spruce-Hardwood Reproduction	73	38	50	---
16	Black Spruce-Hardwood Reproduction	39	35	---	---
	Weighted Averages	69	50	48	51

TABLE 18. SITE INDEX BY STRATA AND SPECIES, VOLUME UNIT 1.

		Site Index in Feet			
Strata		White Spruce	Birch	Aspen	Balsam Poplar
1	White Spruce Sawtimber	60	---	---	---
2	White Spruce Poletimber	50	---	---	---
3	Birch Closed	65	36	---	---
4	Birch Open	63	36	---	---
5	Aspen Closed	---	---	38	45
6	Aspen Open	43	---	35	---
7	Birch-Aspen Closed	60	32	38	40
8	Birch-Aspen Open	---	28	43	46
9	White Spruce-Birch Sawtimber	54	---	---	---
10	White Spruce-Birch Poletimber	57	34	---	---
11	White Spruce-Birch-Aspen Sawtimber	60	---	45	---
12	White Spruce-Birch-Aspen Poletimber	53	---	35	---
13	White Spruce-Balsam Poplar	65	---	---	49
14	Black and White Spruce-Birch-Aspen	54	---	---	---
15	White Spruce-Hardwood Reproduction	56	28	32	---
16	Black Spruce-Hardwood Reproduction	51	---	---	---
	Weighted Averages	56	34	36	47

TABLE 19. SITE INDEX BY STRATA AND SPECIES, VOLUME UNIT 2.

H. Timberland Area Age Class

Ages of the sampled timberland vegetation types reflect a mature relatively unmanaged forest and ranged from a low of 29 years to a high of 374 years. Younger ages are present but are comprised of burned vegetation types not sampled in the inventory. The oldest stand sampled was located adjacent to the Tok River upriver from the Tok River Bridge. Average age weighted by strata acreage was determined to be about 100 years.

		Volume Unit 1	Volume Unit 2
Strata		Average Age	Average Age
1	White Spruce Sawtimber	175	163
2	White Spruce Poletimber	165	159
3	Birch Closed	96	112
4	Birch Open	117	110
5	Aspen Closed	94	95
6	Aspen Open	108	85
7	Birch-Aspen Closed	100	96
8	Birch-Aspen Open	111	113
9	White Spruce-Birch Sawtimber	168	188
10	White Spruce-Birch Poletimber	132	134
11	White Spruce-Birch-Aspen Sawtimber	119	119
12	White Spruce-Birch-Aspen Poletimber	117	142
13	White Spruce-Balsam Poplar	100	136
14	Black and White Spruce-Birch-Aspen	127	111
15	White Spruce-Hardwood Reproduction	56	79
16	Black Spruce-Hardwood Reproduction	92	99
	Weighted Average	98	101

TABLE 20. AVERAGE AGE BY STRATA AND VOLUME UNIT.

I. REGENERATION

Interior Alaska tree species are mostly even-aged and are replaced through natural regeneration following fire, flooding or insect outbreaks. In the absence of disturbance, stands are slowly replaced by understory regeneration. In many cases such as open decadent birch or spruce stands, regeneration is poor because the openings are filled with either grass or thick moss. These stands are slow to regenerate unless a stand replacing disturbance such as wildfire occurs. In other cases stands are actively being replaced even in the absence of disturbance. These stands typically are closed hardwood stands that contain a well stocked spruce understory, flood plain balsam poplar stands or upland mixed spruce/hardwood stands. The regeneration tables give numbers of trees per acre less than 5 inches by species and stratum for each volume unit. Trees are of desirable and acceptable quality as determined in field. Undesirable trees not expected to become future crop trees are not included in the tables. The reproduction strata 15 and 16 contain the greatest number of seedlings and saplings which is typical of a newly developing forest.

		Number of Trees Per Acre < 5" dbh					
Strata		White Spruce	Black Spruce	Birch	Aspen	Balsam Poplar	Tamarack
1	White Spruce Sawtimber	237	5	70		8	
2	White Spruce Poletimber	326	31	83	67	33	2
3	Birch Closed	270	34	189	87		
4	Birch Open	128		172			
5	Aspen Closed	323	42	133	273	15	
6	Aspen Open	1,800		50	550		
7	Birch-Aspen Closed	367	28	155	480	3	
8	Birch-Aspen Open	292		242	483		
9	White Spruce-Birch Saw	198		67	9	30	
10	White Spruce-Birch Pole	142	77	70	11	1	
11	W. Spruce-Birch-Aspen Sawtimber	181		81	104	8	
12	W. Spruce-Birch-Aspen	228	59	111	89	2	
13	White Spruce-Balsam Poplar	619	69	31	63	288	
14	BS-WS-Birch-Aspen	196	50	71	11	18	
15	WS-Hardwood Repro.	1,123	442	517	190	244	
16	BS-Hardwood Repro.	422	2,265	50			4

TABLE 21. NUMBER OF SEEDLINGS/SAPLINGS BY STRATA AND SPECIES, VOLUME UNIT 1.

		Number of Trees Per Acre < 5" dbh					
Strata		White Spruce	Black Spruce	Birch	Aspen	Balsam Poplar	Tamarack
1	White Spruce Sawtimber	460	140				
2	White Spruce Poletimber	431		4			
3	Birch Closed	25		50			
4	Birch Open	133		200			
5	Aspen Closed	540			310		
6	Aspen Open	438	625		300	75	
7	Birch-Aspen Closed	475	131	225	113		
8	Birch-Aspen Open	375			175	275	
9	White Spruce-Birch Saw	113		88	25		
10	White Spruce-Birch Pole	713	63	175	50		
11	W. Spruce-Birch-Aspen Sawtimber	1,250		38	25		
12	W. Spruce-Birch-Aspen	979	7		179		
13	White Spruce-Balsam Poplar	600				50	
14	BS-WS-Birch-Aspen	600	125	25	50		
15	WS-Hardwood Repro.	1,266	370	105	145	39	
16	BS-Hardwood Repro.	823	841	91	36	5	

TABLE 22. NUMBER OF SEEDLINGS/SAPLINGS BY STRATA AND SPECIES, VOLUME UNIT 2.

J. Growth and Mortality Estimates

Growth estimates have been determined through projections made with the timber cruise software TCruise. Periodic annual gross growth has been projected utilizing the past 10-year diameter growth increment and bark thickness measurements collected in the field. These measurements were collected from trees 5-inch dbh and greater across all diameter classes. The desired growth projection interval used was 10 years (i.e. 2012-2022). The increased volume growth was then divided by 10 to calculate an annual growth rate. This volume figure was then divided by the growing stock base (live tree volume) to calculate a percentage growth rate. Diameter-height relationships, diameter growth and calculated bark thickness ratios (Husch et al. 2002) are shown in the appendix.

Mortality estimates have been determined by dividing the recently dead volume estimates by 5 to get annual mortality. The Tok area (volume unit 2) growth estimates were less than the other three areas (volume unit 1) reflecting the lower site quality of the upper Tanana Valley.

Strata		% Annual Growth	% Annual Mortality	% Annual Net Growth	CF Per Acre Per Year Growth
1	White Spruce Sawtimber	1.62%	0.31%	1.31%	**41**
2	White Spruce Poletimber	1.69%	0.25%	1.44%	**34**
3	Birch Closed	2.62%	0.09%	2.53%	**43**
4	Birch Open	2.57%	0.00%	2.57%	**31**
5	Aspen Closed	2.34%	0.20%	2.14%	**49**
6	Aspen Open	2.16%	0.00%	2.16%	**32**
7	Birch-Aspen Closed	2.32%	0.09%	2.23%	**40**
8	Birch-Aspen Open	2.52%	0.00%	2.52%	**36**
9	White Spruce-Birch Saw	1.97%	0.08%	1.89%	**42**
10	White Spruce-Birch Pole	2.49%	0.05%	2.44%	**37**
11	W. Spruce-Birch-Aspen Saw	2.26%	0.03%	2.23%	**52**
12	W. Spruce-Birch-Aspen Pole	2.28%	0.10%	2.18%	**39**
13	White Spruce-Balsam Poplar	2.66%	0.12%	2.54%	**38**
14	Black and White Spruce-Birch-Aspen	2.21%	0.03%	2.18%	**29**
15	White Spruce-Hardwood Reproduction	6.63%	0.00%	6.63%	**28**
16	Black Spruce-Hardwood Reproduction	3.08%	0.11%	2.97%	**6**
	Total Live Volume	**2.38%**	**0.14%**	**2.24%**	**23**

TABLE 23. GROWTH AND MORTALITY ESTIMATES, VOLUME UNIT 1.

Strata		% Annual Growth	% Annual Mortality	% Annual Net Growth	CF Per Acre Per Year Growth
1	White Spruce Sawtimber	1.76%	1.20%	0.56%	13
2	White Spruce Poletimber	2.03%	0.70%	1.33%	19
3	Birch Closed	2.85%	0.57%	2.28%	18
4	Birch Open	3.32%	0.00%	3.32%	23
5	Aspen Closed	2.82%	0.10%	2.72%	33
6	Aspen Open	2.66%	0.00%	2.66%	14
7	Birch-Aspen Closed	3.10%	0.00%	3.10%	38
8	Birch-Aspen Open	1.92%	0.00%	1.92%	21
9	White Spruce-Birch Saw	1.77%	0.00%	1.77%	31
10	White Spruce-Birch Pole	2.04%	0.79%	1.25%	12
11	W. Spruce-Birch-Aspen Saw	1.92%	0.00%	1.92%	25
12	W. Spruce-Birch-Aspen Pole	2.56%	0.34%	2.22%	27
13	White Spruce-Balsam Poplar	2.35%	0.00%	2.35%	52
14	Black and White Spruce-Birch-Aspen	2.30%	0.00%	2.30%	16
15	White Spruce-Hardwood Reproduction	4.14%	0.00%	4.14%	23
16	Black Spruce-Hardwood Reproduction	2.30%	1.07%	1.23%	3
	Total Live Volume	**2.65%**	**0.59%**	**2.06%**	**14**

TABLE 24. GROWTH AND MORTALITY ESTIMATES, VOLUME UNIT 2.

When the entire growing stock volume is combined across volume units a total of 2,054,929,400 net cubic feet are present. Timberland is growing annually at 2.3% of net volume or 47,263,376 cubic feet. Growth rates are consistent with Forest Service estimates of between 2 and 3% for unmanaged interior forests (Smith et al. 2007).

Volume of Growing Stock (MCF)	Growth	Mortality	Net Growth	CF Per Acre Per Year Growth
2,054,929	**2.47%**	**0.17%**	**2.30%**	**22**

TABLE 25. OVERALL INVENTORY GROWTH AND MORTALITY.

VI. TANANA VALLEY ANNUAL ALLOWABLE CUT DETERMINATION

The Tanana Valley annual allowable cut (AAC) determination updates the previous periodic sustained yield analysis (Parsons & Associates 2000) and allowable cut revisions completed by DOF (DOF 2000, DOF 2001a). The DOF revisions modified the sustained yield estimate to reflect guidelines and objectives in the Tanana Valley State Forest Management Plan (DOF 2001b). Modifications included adjustments to rotation ages as well as natural area acreage

withdrawals and volume retention factors. This new AAC determination uses similar methodology from the above documents.

A. ASSUMPTIONS

The base data for the calculations utilize timberland strata acreage, site index and volume estimates contained within this inventory report.

1. ROTATION AGES

Sustained yield rotation ages from the Parsons report of 100 years were recalculated in the DOF revision based on the median site index for each management area. Rotation ages ranged from 90 to 120 years for different management areas and vegetation types (DOF 2000). In this inventory report, volume and site index estimates were processed by volume unit. In volume unit 1 (Kantishna, Fairbanks and Delta Management Areas) the median rounded spruce site index across all strata was 70 and for volume unit 2 (Tok Management Area) the median rounded value was 60. In an effort to simplify calculations and to be somewhat conservative, a spruce rotation age of 120 years was used for all types and management areas. A rotation age of 70 years will continue to be used for hardwoods.

2. AREA WITHDRAWALS

Within each management area, Research Natural Areas (RNA) and Bonanza Creek Experimental Forest timberland acreage has been withdrawn on a per stratum basis. Areas withdrawn from timber harvest were:

Kantishna Area -	Oblique Lake RNA, Caribou Crossing RNA
Fairbanks Area -	Bonanza Creek Experimental Forest
Delta Area -	Volkmar Bluffs RNA, Shaw Creek Tamarack RNA, Rosa-Keystone Bluffs RNA, Johnson Slough Bluffs RNA

3. RETENTION FACTORS

Stratum volume was reduced by retention factors listed in the Tanana Valley State Forest Management Plan.
Volume reduction retention factors were:

Balsam poplar/white spruce -	10%
Hardwood -	1%
Hardwood/white spruce -	5%
White spruce -	5%

Strata	Kan RNA Acres	Fai RNA Acres	Del RNA Acres	Tok RNA Acres	Retention Factor
1	578	2,055	75	0	5%
2	110	138	152	0	5%
3	976	499	750	0	1%
4	20	218	68	0	1%
5	50	91	310	0	1%
6	0	0	1	0	1%
7	0	174	449	0	1%
8	0	171	21	0	1%
9	184	1,719	33	0	5%
10	250	232	253	0	5%
11	12	482	70	0	5%
12	40	126	404	0	5%
13	0	558	16	0	10%
14	21	135	329	0	5%
15	332	2,799	2,908	0	5%
16	678	635	735	0	5%
	3,251	10,032	6,574	0	

TABLE 26. RESEARCH NATURAL AREA WITHDRAWLS AND VOLUME RETENTION FACTORS.

B. Black Spruce Type

The allowable harvest acres have been further reduced by eliminating much of the acres delineated as black spruce. Stratum 16 (black and white spruce-hardwood reproduction) has been deleted and is considered unable to grow into the existing poletimber and sawtimber timberland class. A separate harvest amount has been calculated for this stratum which may become available for management in the future if and when biomass harvest becomes more developed in the Tanana Valley. A rotation age of 120 years was used to calculate the AAC for this stratum.

C. Area Control and Volume Determination

Area control and the calculation of annual harvest acres is a simple matter of dividing the stratum acres for each management area by the applicable stratum rotation age. To convert from area to volume, stratum volume per acre values were used. The exception to this was for stratum 15 where a weighted average of strata 1-14 volume per acre was used. Thus the expectation here it that stratum 15 will eventually grow into the existing poletimber and sawtimber timberland class. This methodology diverges somewhat from the Parsons report where the conversion from acres to volume utilized past harvest acreage weighted volume per acre values.

Strata	Acres	Natural/Research Withdrawn Acres	Net Acres	Rotation	Acres/Yr
1	14,972	578	14,394	120	120
2	10,847	110	10,737	120	89
3	66,128	976	65,152	70	931
4	2,590	20	2,570	70	37
5	15,326	50	15,276	70	218
6	204	0	204	70	3
7	22,916	0	22,916	70	327
8	2,225	0	2,225	70	32
9	9,210	184	9,026	120	75
10	21,140	250	20,890	120	174
11	1,099	12	1,087	120	9
12	12,850	40	12,810	120	107
13	4,590	0	4,590	120	38
14	6,071	21	6,050	120	50
15	100,965	332	100,633	120	839
16	147,102	678	146,424	120	1,220
	438,235	3,251	434,984	**Strata 1-15**	**3,050**
				Strata 16	1,220

TABLE 27. AAC ACRES KANTISHNA MANAGEMENT AREA.

Strata	Acres/Yr	Retention Percent	GCF/Ac	GCF/Year Less Retention	NCF/Ac	NCF/Year Less Retention	GBF/Ac	GBF/Year Less Retention	NBF/Ac	NBF/Year Less Retention
1	120	5%	3,307	376,830	3,150	358,940	13,209	1,505,153	12,657	1,442,253
2	89	5%	2,488	211,491	2,383	202,566	6,483	551,084	6,204	527,368
3	931	1%	1,832	1,688,063	1,704	1,570,120	2,021	1,862,214	1,791	1,650,285
4	37	1%	1,383	50,267	1,223	44,451	3,880	141,023	3,372	122,559
5	218	1%	2,520	544,422	2,292	495,165	2,594	560,409	2,345	506,615
6	3	1%	1,750	5,057	1,473	4,256	1,932	5,583	1,534	4,432
7	327	1%	1,980	641,704	1,782	577,534	2,897	938,898	2,502	810,881
8	32	1%	1,846	58,081	1,424	44,803	5,558	174,872	4,059	127,709
9	75	5%	2,502	178,785	2,207	157,706	9,408	672,267	8,342	596,094
10	174	5%	1,652	273,201	1,513	250,214	4,308	712,439	3,977	657,699
11	9	5%	2,481	21,353	2,336	20,105	7,425	63,905	6,947	59,791
12	107	5%	1,925	195,218	1,804	182,947	4,682	474,811	4,434	449,661
13	38	10%	1,690	58,183	1,522	52,399	2,899	99,807	2,491	85,760
14	50	5%	1,494	71,561	1,351	64,711	2,516	120,513	2,306	110,454
15	839	5%	***2,061**	1,641,984	***1,901**	1,514,611	***4,235**	3,373,693	***3,878**	3,089,760
16	1,220	5%	196	227,202	190	220,247	---	---	---	---
*** Weighted Strata**			**Strata 1-15**	**6,016,201**		**5,540,528**		**11,256,670**		**10,241,322**
1-14 Average			Strata 16	227,202		220,247				

TABLE 28. AAC VOLUME KANTISHNA MANAGEMENT AREA.

Strata	Acres	Natural/Research Withdrawn Acres	Net Acres	Rotation	Acres/Yr
1	26,228	2,055	24,173	120	201
2	24,166	138	24,028	120	200
3	75,929	499	75,430	70	1,078
4	8,075	218	7,857	70	112
5	29,729	91	29,638	70	423
6	1,364	0	1,364	70	19
7	17,134	174	16,960	70	242
8	6,364	171	6,193	70	88
9	24,678	1,719	22,959	120	191
10	40,334	232	40,102	120	334
11	11,755	482	11,273	120	94
12	20,486	126	20,360	120	170
13	8,691	558	8,133	120	68
14	15,777	135	15,642	120	130
15	153,276	2,799	150,477	120	1,254
16	169,304	635	168,669	120	1,406
	633,292	10,032	623,260	**Strata 1-15**	**4,606**
				Strata 16	1,406

TABLE 29. AAC ACRES FAIRBANKS MANAGEMENT AREA.

Strata	Acres/Yr	Retention Percent	GCF/Ac	GCF/Year Less Retention	NCF/Ac	NCF/Year Less Retention	GBF/Ac	GBF/Year Less Retention	NBF/Ac	NBF/Year Less Retention
1	201	5%	3,307	632,872	3,150	602,827	13,209	2,527,852	12,657	2,422,214
2	200	5%	2,488	473,280	2,383	453,306	6,483	1,233,230	6,204	1,180,157
3	1,078	1%	1,832	1,954,381	1,704	1,817,830	2,021	2,156,006	1,791	1,910,642
4	112	1%	1,383	153,675	1,223	135,897	3,880	431,136	3,372	374,688
5	423	1%	2,520	1,056,298	2,292	960,729	2,594	1,087,317	2,345	982,944
6	19	1%	1,750	33,759	1,473	28,415	1,932	37,269	1,534	29,592
7	242	1%	1,980	474,931	1,782	427,438	2,897	694,886	2,502	600,140
8	88	1%	1,846	161,696	1,424	124,732	5,558	486,840	4,059	355,538
9	191	5%	2,502	454,758	2,207	401,140	9,408	1,709,978	8,342	1,516,224
10	334	5%	1,652	524,471	1,513	480,341	4,308	1,367,687	3,977	1,262,603
11	94	5%	2,481	221,419	2,336	208,478	7,425	662,650	6,947	619,991
12	170	5%	1,925	310,285	1,804	290,781	4,682	754,677	4,434	714,703
13	68	10%	1,690	103,081	1,522	92,833	2,899	176,823	2,491	151,937
14	130	5%	1,494	185,005	1,351	167,297	2,516	311,561	2,306	285,556
15	1,254	5%	***2,061**	2,512,612	***1,901**	2,314,445	***4,235**	5,508,453	***3,878**	5,065,299
16	1,406	5%	196	261,718	190	253,706	---	---	---	---
*** Weighted Strata 1-14 Average**			**Strata 1-15**	**9,252,522**		**8,506,488**		**19,146,365**		**17,472,228**
			Strata 16	261,718		253,706				

TABLE 30. AAC VOLUME FAIRBANKS MANAGEMENT AREA.

Strata	Acres	Natural/Research Withdrawn Acres	Net Acres	Rotation	Acres/Yr
1	20,128	75	20,053	120	167
2	28,601	152	28,449	120	237
3	49,231	750	48,481	70	693
4	5,119	68	5,051	70	72
5	22,367	310	22,057	70	315
6	1,079	1	1,078	70	15
7	34,082	449	33,633	70	480
8	2,258	21	2,237	70	32
9	12,179	33	12,146	120	101
10	25,209	253	24,956	120	208
11	4,709	70	4,639	120	39
12	51,064	404	50,660	120	422
13	7,845	16	7,829	120	65
14	18,085	329	17,756	120	148
15	117,224	2,908	114,316	120	953
16	240,622	735	239,887	120	1,999
	639,801	6,574	633,227	**Strata 1-15**	**3,948**
				Strata 16	1,999

TABLE 31. AAC ACRES DELTA MANAGEMENT AREA.

Strata	Acres/Yr	Retention Percent	GCF/Ac	GCF/Year Less Retention	NCF/Ac	NCF/Year Less Retention	GBF/Ac	GBF/Year Less Retention	NBF/Ac	NBF/Year Less Retention
1	167	5%	3,307	524,997	3,150	500,073	13,209	2,096,973	12,657	2,009,341
2	237	5%	2,488	560,352	2,383	536,703	6,483	1,460,113	6,204	1,397,276
3	693	1%	1,832	1,256,125	1,704	1,168,361	2,021	1,385,714	1,791	1,228,013
4	72	1%	1,383	98,799	1,223	87,369	3,880	277,180	3,372	240,890
5	315	1%	2,520	786,098	2,292	714,975	2,594	809,182	2,345	731,508
6	15	1%	1,750	26,687	1,473	22,463	1,932	29,462	1,534	23,393
7	480	1%	1,980	941,807	1,782	847,626	2,897	1,377,987	2,502	1,190,101
8	32	1%	1,846	58,406	1,424	45,054	5,558	175,851	4,059	128,424
9	101	5%	2,502	240,575	2,207	212,210	9,408	904,608	8,342	802,109
10	208	5%	1,652	326,383	1,513	298,921	4,308	851,125	3,977	785,730
11	39	5%	2,481	91,116	2,336	85,791	7,425	272,686	6,947	255,131
12	422	5%	1,925	772,033	1,804	723,505	4,682	1,877,744	4,434	1,778,282
13	65	10%	1,690	99,232	1,522	89,368	2,899	170,222	2,491	146,265
14	148	5%	1,494	210,006	1,351	189,905	2,516	353,665	2,306	324,146
15	953	5%	***2,061**	1,884,988	***1,901**	1,742,970	***4,235**	4,184,738	***3,878**	3,848,076
16	1,999	5%	196	372,224	190	360,829	---	---	---	---
*** Weighted Strata 1-14 Average**			**Strata 1-15**	**7,877,604**		**7,265,294**		**16,227,249**		**14,888,684**
			Strata 16	372,224		360,829				

TABLE 32. AAC VOLUME DELTA MANAGEMENT AREA.

Strata	Acres	Natural/Research Withdrawn Acres	Net Acres	Rotation	Acres/Yr
1	11,288	0	11,288	120	94
2	31,007	0	31,007	120	258
3	9,596	0	9,596	70	137
4	1,523	0	1,523	70	22
5	8,142	0	8,142	70	116
6	2,547	0	2,547	70	36
7	3,035	0	3,035	70	43
8	346	0	346	70	5
9	1,095	0	1,095	120	9
10	10,786	0	10,786	120	90
11	1,174	0	1,174	120	10
12	24,161	0	24,161	120	201
13	6,136	0	6,136	120	51
14	4,132	0	4,132	120	34
15	151,442	0	151,442	120	1,262
16	175,198	0	175,198	120	1,460
	441,607	0	441,607	**Strata 1-15**	**2,370**
				Strata 16	1,460

TABLE 33. AAC ACRES TOK MANAGEMENT AREA.

Strata	Acres/Yr	Retention Percent	GCF/Ac	GCF/Year Less Retention	NCF/Ac	NCF/Year Less Retention	GBF/Ac	GBF/Year Less Retention	NBF/Ac	NBF/Year Less Retention
1	94	5%	2,635	235,466	2,552	228,049	7,986	713,637	7,716	689,509
2	258	1%	1,540	378,029	1,483	364,037	2,955	725,375	2,796	686,344
3	137	1%	979	132,867	828	112,374	1,333	180,911	998	135,445
4	22	1%	759	16,343	701	15,095	1,759	37,876	1,621	34,905
5	116	1%	1,288	148,310	1,228	141,401	1,880	216,478	1,795	206,690
6	36	1%	526	18,949	512	18,445	784	28,243	778	28,027
7	43	1%	1,281	54,991	1,238	53,145	1,693	72,678	1,615	69,329
8	5	5%	1,226	5,993	1,108	5,416	2,239	10,945	2,144	10,480
9	9	5%	1,896	16,439	1,757	15,234	4,187	36,303	3,926	34,040
10	90	5%	1,093	93,329	1,026	87,608	2,897	247,370	2,710	231,402
11	10	5%	1,408	13,088	1,385	12,874	3,727	34,643	3,647	33,899
12	201	10%	1,335	255,355	1,259	240,818	3,351	640,971	3,138	600,229
13	51	5%	2,641	121,543	2,206	101,524	7,131	328,181	5,775	265,776
14	34	5%	722	23,616	700	22,897	1,218	39,840	1,178	38,532
15	1,262	0%	***1,489**	1,784,747	***1,398**	1,675,925	***3,396**	4,071,376	***3,149**	3,775,124
16	1,460	5%	298	413,321	295	409,160	---	---	---	---
*** Weighted Strata 1-14 Average**			**Strata 1-15**	**3,299,068**		**3,094,842**		**7,384,826**		**6,839,732**
			Strata 16	413,321		409,160				

TABLE 34. AAC VOLUME TOK MANAGEMENT AREA.

		AAC GCF	AAC NCF	AAC GBF	AAC NBF
Kantishna	Aspen	1,024,432	921,700	1,246,913	1,090,621
	Balsam Poplar	153,501	131,412	267,542	209,675
	Birch	1,938,991	1,726,390	2,153,020	1,771,250
	Black Spruce	356,229	338,336	216,442	197,122
	Tamarack	0	0	0	0
	White Spruce	2,543,048	2,422,690	7,372,752	6,972,655
Total AAC		6,016,201	5,540,528	11,256,670	10,241,322
Fairbanks	Aspen	1,575,509	1,415,105	2,120,862	1,860,655
	Balsam Poplar	236,075	201,759	455,061	357,716
	Birch	2,982,041	2,650,562	3,662,052	3,021,845
	Black Spruce	547,857	519,454	368,145	336,300
	Tamarack	0	0	0	0
	White Spruce	3,911,040	3,719,607	12,540,246	11,895,711
Total AAC		9,252,522	8,506,488	19,146,365	17,472,228
Delta	Aspen	1,341,390	1,208,625	1,797,509	1,585,528
	Balsam Poplar	200,994	172,320	385,681	304,822
	Birch	2,538,912	2,263,815	3,103,724	2,575,018
	Black Spruce	466,446	443,660	312,016	286,573
	Tamarack	0	0	0	0
	White Spruce	3,329,863	3,176,874	10,628,320	10,136,743
Total AAC		7,877,604	7,265,294	16,227,249	14,888,684
Tok	Aspen	185,394	170,148	187,350	172,059
	Balsam Poplar	228,314	191,276	365,228	256,883
	Birch	313,395	273,763	383,517	310,594
	Black Spruce	176,070	168,866	4,193	3,843
	Tamarack	0	0	0	0
	White Spruce	2,395,896	2,290,789	6,444,537	6,096,353
Total AAC		3,299,068	3,094,842	7,384,826	6,839,732
All	Aspen	4,126,724	3,715,578	5,352,634	4,708,863
Management	Balsam Poplar	818,884	696,767	1,473,511	1,129,096
Areas	Birch	7,773,338	6,914,529	9,302,313	7,678,708
	Black Spruce	1,546,602	1,470,317	900,797	823,837
	Tamarack	0	0	0	0
	White Spruce	12,179,846	11,609,960	36,985,855	35,101,462
Grand Total AAC		26,445,394	24,407,152	54,015,110	49,441,966

TABLE 35. PROPORTIONAL AAC BY SPECIES.

Management Area	AAC Acres	AAC GCF	AAC NCF	AAC GBF	AAC NBF
Kantishna	3,050	6,016,201	5,540,528	11,256,670	10,241,322
Fairbanks	4,606	9,252,522	8,506,488	19,146,365	17,472,228
Delta	3,948	7,877,604	7,265,294	16,227,249	14,888,684
Tok	2,370	3,299,068	3,094,842	7,384,826	6,839,732
Grand Total AAC	13,974	26,445,394	24,407,152	54,015,110	49,441,966

TABLE 36. AAC SUMMARY BY MANAGEMENT AREA.

Management Area	AAC Acres	AAC GCF	AAC NCF	AAC Biomass Tons
Kantishna	1,220	227,202	220,247	37,210
Fairbanks	1,406	261,718	253,706	42,863
Delta	1,999	372,224	360,829	60,961
Tok	1,460	413,321	409,160	44,286
Grand Total AAC	6,085	1,274,464	1,243,942	185,321

TABLE 37. AAC SUMMARY STRATUM 16 MIXED BLACK SPRUCE.

D. Annual Allowable Cut Results Discussion

The recalculated allowable cut acres differ significantly from the Parsons report as shown below.

Management Area	AAC Acres	AAC Acres Parsons	% Difference
Kantishna	3,050	6,240	-51%
Fairbanks	4,606	6,259	-26%
Delta	3,948	5,471	-28%
Tok	2,370	3,540	-33%
Grand Total AAC	13,974	21,510	-35%

TABLE 38. AAC COMPARISON WITH PARSONS REPORT.

The decrease in the allowable cut acres is a result of an overall decrease in the land base, and an overall decrease in timberland AAC acreage as a percentage of the total forest area. The land base has decreased mainly due to revisions in the Tanana Basin Area Plan. A more accurate rendition of the Tanana Valley State Forest area that deleted additional in-holding areas also decreased the acreage. Overall the land base decreased by almost 450,000 acres (11%) from the 1997 forest inventory numbers. Stratum 16 removals together with dwarf forest acreage totaled 1,132,884 acres of mostly black spruce that was deleted from the AAC. This amount was 44% of the forest land area. This was an increase of 9% over the deletions made in the Parsons report and was a result of the updated timber typing where more area was delineated in black spruce types.

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Appendix A
Acreage Summary by Stratum and Vegetation Type

Kantishna Management Area

Vegetation Type		Acres	Field Sampled?
Stratum 1	White Spruce Sawtimber		
3SY		9	No
2SY		2,255	Yes
2SY		539	Yes
2SX		10,406	Yes
2SX		1,647	Yes
2SZ		110	No
1SX		5	Yes
Sum		14,972	
Stratum 2	White Spruce Poletimber		
3PZ		5	No
1PX		7	No
1PZ		11	No
1PX		65	No
3PY		393	Yes
2PX		764	Yes
3PY		213	Yes
3PXW		6	No
2PX		5,392	Yes
2PY		1,124	Yes
3PX		730	Yes
3PX		566	Yes
2PY		1,454	Yes
1PY		9	No
1PY		61	No
2PZ		22	No
2PZ		14	No
2PYW		10	Yes
Sum		10,847	
Stratum 3	Birch Closed		
17PX		20,412	Yes
17SX		6,633	Yes
17SX		6,115	Yes
17PX		32,967	Yes
Sum		66,128	
Stratum 4	Birch Open		
17PZ		37	No
17PY		1,298	Yes
17PY		628	Yes
17PYW		4	Yes
17SY		54	Yes
17PZ		386	No
17SY		183	Yes
Sum		2,590	
Stratum 5	Aspen Closed		
18PX		1,442	Yes
18PX		9,832	Yes
18SX		31	Yes
18SX		4,021	Yes
Sum		15,326	
Stratum 6	Aspen Open		
18PY		165	Yes
18PZ		6	No
18PY		32	Yes
Sum		204	
Stratum 7	Birch-Aspen Closed		
19SX		933	Yes
19SX		1,681	Yes
19PX		10,109	Yes
19PX		10,192	Yes
Sum		22,916	
Stratum 8	Birch-Aspen Open		
19PY		991	Yes
19SY		69	Yes
19PZ		91	No
19PZ		203	No
19PY		871	Yes
Sum		2,225	
Stratum 9	White Spruce-Birch Sawtimber		
31SX		1,294	Yes
31SX		6,136	Yes
31SY		778	Yes

Vegetation Type	Acres	Field Sampled?
31SY	1,003	Yes
Sum	9,210	
Stratum 10 White Spruce-Birch Poletimber		
31PY	1,120	Yes
31PZ	93	No
31PX	5,409	Yes
31PX	10,984	Yes
31PY	3,533	Yes
Sum	21,140	
Stratum 11 White Spruce-Birch-Aspen Sawtimber		
37SY	13	Yes
37SX	242	Yes
34SX	74	Yes
37SX	771	Yes
Sum	1,099	
Stratum 12 White Spruce-Birch-Aspen Poletimber		
34PX	323	Yes
37PY	683	Yes
37PZ	81	No
34PX	51	Yes
37PX	4,797	Yes
37PX	5,290	Yes
34PZ	10	No
37PY	1,549	Yes
37PZ	8	No
34PY	55	No
34PY	2	No
Sum	12,850	
Stratum 13 White Spruce-Balsam Poplar		
38PZ	45	No
38SX	115	No
16SY	39	No
16SX	89	No
38PY	282	Yes
38PZ	14	No
38SY	142	No
16SX	65	No
38SY	99	No
16SY	29	No
38PY	521	Yes
38SX	116	No
38PX	619	Yes
38PX	88	Yes
16PYW	1	Yes
16PXW	13	Yes
16PX	1,245	Yes
16PY	242	Yes
16PX	179	Yes
16PY	649	Yes
Sum	4,590	
Stratum 14 Black and White Spruce-Birch-Aspen		
32PX	1,590	Yes
33PX	11	Yes
32SX	4	Yes
32PYW	7	Yes
35PX	16	Yes
32PY	264	Yes
39PY	690	Yes
30PX	12	Yes
39PX	2,074	Yes
39PZ	36	No
30PY	57	Yes
39PX	783	Yes
39PY	526	Yes
Sum	6,071	
Stratum 15 White Spruce-Hardwood Reproduction		
30PXWBR	75	No
30PXBR	62	No
19PXBR	715	No
30PXWBR	72	No
30PYBR	191	No
30PYWBR	233	No

Vegetation Type	Acres	Field Sampled?
30PZBR	12	No
19PYBR	11	No
19PYBR	9	No
30PXBR	32	No
2SXBR	149	No
2PZBR	7	No
2PZBR	26	No
2PYBR	107	No
2PYBR	275	No
18RYBR	12	No
18RYBR	25	No
33PYBR	180	No
18RZ	56	No
19PXBR	1,685	No
2SXBR	1,110	No
2SYBR	317	No
2SZBR	11	No
2PXBR	622	No
2PXBR	195	No
31PXBR	890	No
18RZ	41	No
31RX	8,122	Yes
31SXBR	654	No
31RYBR	91	No
31RY	718	No
31SYBR	368	No
19RZ	68	No
19RZ	4	No
19RYBR	62	No
31RY	500	No
31RXBR	567	No
19RYBR	81	No
31RXBR	778	No
31RX	3,192	Yes
19RZBR	2	No
32PXBR	683	No

Vegetation Type	Acres	Field Sampled?
1PXBR	1	No
31PZBR	2	No
32PYBR	152	No
31PYBR	728	No
32PYBR	984	No
31PYBR	23	No
19RY	435	No
19RY	1,971	No
19RXBR	1,073	No
19RXBR	4,112	No
19RX	5,422	Yes
19RX	4,632	Yes
31RYBR	93	No
31PXBR	6,312	No
32PXBR	3,857	No
18RX	3,121	Yes
17RX	5,231	Yes
17RXBR	941	No
17RXBR	736	No
17RY	256	No
17RY	526	No
17RYBR	5	No
17RYBR	213	No
17RYW	94	No
17RYW	105	No
17RYWBR	4	No
39PYBR	77	No
3PYBR	903	No
3SXBR	8	No
3PXBR	271	No
34PXBR	98	No
17RYWBR	3	No
17RZ	16	No
17RZ	106	No
17RZBR	21	No
17RZBR	84	No

Vegetation Type	Acres	Field Sampled?
17RZW	8	No
17SXBR	15	No
17SYBR	9	No
18PXBR	20	No
3PZBR	9	No
16RYW	175	No
16PYBR	191	No
16RX	245	Yes
16RX	155	Yes
101	1,231	No
101BR	3	No
16PXBR	11	No
16PXBR	51	No
16RXBR	49	No
16RXW	35	No
16RXW	477	No
16RY	266	No
17RX	5,722	Yes
16RYBR	233	No
17PZBR	1	No
16RYW	1,555	No
16RZ	20	No
16RZBR	8	No
16RZW	233	No
16SXBR	1	No
16SYBR	3	No
17PXBR	2,318	No
17PXBR	2,465	No
17PYBR	8	No
17PYBR	78	No
3PXBR	461	No
16RY	174	No
37PXBR	1,369	No
38PXBR	2	No
37SYBR	32	No
37SXBR	128	No

Vegetation Type	Acres	Field Sampled?
39PXBR	206	No
37RYW	92	No
3PYBR	20	No
37RYBR	31	No
37RY	329	No
37RY	1,795	No
37RXBR	890	No
37RXBR	2,888	No
37RX	1,565	Yes
37RX	2,600	Yes
38PXBR	78	No
18RY	736	No
34PYBR	5	No
34RX	52	No
34RX	480	No
34RXBR	18	No
34RY	8	No
37PYBR	286	No
34RYBR	9	No
37PYBR	15	No
18RY	509	No
18RXBR	177	No
18RXBR	31	No
18RX	153	Yes
37PXBR	192	No
37RZ	2	No
34RY	787	No
38RYW	238	No
38PZBR	9	No
37RYBR	86	No
38RX	790	No
38RXW	2	No
38RXW	29	No
38RY	160	No
38RY	1,238	No
38PYBR	17	No

Vegetation Type	Acres	Field Sampled?
38RYBR	297	No
38PYBR	160	No
38RZ	56	No
38RZW	26	No
38RZW	53	No
38SXBR	89	No
38SYBR	28	No
18PXBR	235	No
39PXBR	32	No
38RYBR	74	No
38RX	8	No
Sum	100,965	
Stratum 16	Black and White Spruce-Hardwood Reproduction	
1RYW	4,623	No
2RX	1,766	Yes
2RX	602	Yes
1RYBR	2,772	No
1RY	1,466	No
1RY	2,182	No
1RXWBR	21	No
1RXWBR	67	No
1RXW	3,796	No
1RXW	1,533	No
1RXBR	2,293	No
1RYW	6,358	No
1RX	7,991	Yes
2RXBR	55	No
1RYWBR	68	No
30RZW	76	No
1RZ	14	No
1RZBR	19	No
1RZBR	154	No
1RZW	169	No
1RZW	65	No
1RYBR	1,464	No
1RX	10,456	Yes
1RXBR	5,443	No
32RYW	63	No
35RX	273	No
35PYBR	79	No
35PXBR	36	No
33RYBR	2	No
33RYBR	466	No
33RY	291	No
33RY	214	No
33RXW	2	No
33RXBR	763	No
30RYWBR	4,350	No
33RX	2,367	No
30RZWBR	3	No
32RYW	690	No
35RXBR	46	No
32RYBR	984	No
32RYBR	1,872	No
32RY	1,806	No
32RY	2,131	No
32RXWBR	6	No
32RXW	53	No
32RXW	2	No
32RXBR	803	No
32RXBR	3,184	No
32RX	3,835	Yes
32RX	7,368	Yes
30RZWBR	402	No
2RXBR	11	No
39RZBR	32	No
3RZ	6	No
3RYW	439	No
3RYW	7	No
3RYBR	244	No
3RYBR	171	No
3RY	155	No

Vegetation Type	Acres	Field Sampled?
3RY	455	No
3RXWBR	7	No
3RXW	666	No
3RXW	14	No
3RXBR	2	No
3RXBR	171	No
35RX	1,703	No
3RX	3,159	Yes
35RXBR	87	No
39RYBR	44	No
39RYBR	112	No
39RY	55	Yes
39RY	593	Yes
39RXWBR	3	No
39RXBR	51	No
39RXBR	431	No
39RX	101	Yes
39RX	3,924	Yes
35RY	834	No
35RY	244	No
33RX	1,510	No
3RX	997	Yes
30RXBR	10,920	No
30RYWBR	139	No
30RZW	16	No
30RYW	2,990	No
30RYW	806	No
30RYBR	263	No
30RYBR	1,559	No
30RY	2,519	Yes
30RY	1,697	Yes
30RXWBR	31	No
33RXBR	713	No
30RXWBR	15	No
30RXW	674	No
30RZ	9	No
30RXBR	1,046	No
30RX	12,281	Yes
30RX	8,731	Yes
2RZW	1	No
2RZ	21	No
2RZ	12	No
2RYW	14	No
2RYBR	1	No
2RY	295	Yes
2RY	62	Yes
2RXWBR	3	No
2RXW	19	No
30RXW	496	No
Sum	147,102	
Stratum 20	Black and White Spruce-Hardwood Dwarf	
30DYBR	143	No
30DYWBR	487	No
30DZ	3	No
3DX	77	No
30DX	88	No
30DXBR	92	No
30DXW	188	No
30DXWBR	8	No
30DY	48	No
3DYW	4	No
30DYW	471	No
3DXBR	2	No
18DZ	11	No
30DY	58	No
1DY	4,252	No
30DYBR	50	No
2DX	45	No
30DYW	93	No
30DZW	136	No
30DYWBR	13	No
3DY	36	No

Vegetation Type	Acres	Field Sampled?
32DXW	2	No
3DX	51	No
1DXWBR	50	No
1DXW	1,217	No
1DXW	1,456	No
1DXBR	2,770	No
1DXBR	3,908	No
1DX	967	No
1DX	5,509	No
1DY	982	No
1DYBR	10,227	No
31DX	5	No
31DY	2	No
39DY	72	No
32DXBR	1,630	No
1DZBR	4,320	No
39DX	12	No
30DZWBR	85	No
1DZWBR	103	No
1DZW	795	No
32DXBR	51	No
1DZBR	3,456	No
32DY	2	No
1DZ	1,721	No
1DZ	1,088	No
1DYWBR	281	No
1DYW	5,227	No
1DYW	3,476	No
1DYBR	4,159	No
1DZW	957	No
Sum	60,885	
Stratum 30 Tall Shrub		
68WBR	42	No
68WBR	12	No
68BR	1,469	No
68W	1,848	No
68	374	No
68	9,593	No
68BR	1,475	No
68W	8,065	No
Sum	22,879	
Stratum 35 Low Shrub		
71W	1,605	No
76WBR	4	No
76BR	45	No
76	100	No
76	12	No
71WBR	237	No
71W	2,748	No
71BR	2,901	No
71BR	1,151	No
71	524	No
71	1,325	No
71WBR	28	No
Sum	10,680	
Stratum 40 Wet Meadow		
79	592	No
79W	383	No
79BR	1,692	No
79BR	682	No
79	4,626	No
Sum	7,976	
Stratum 50 Water		
80	1,435	No
80	2,764	No
80BR	469	No
80BR	1,133	No
Sum	5,801	
Stratum 60 Rivers		
88	18,572	No
88BR	118	No
88	2,310	No

Vegetation Type	Acres	Field Sampled?	Vegetation Type	Acres	Field Sampled?
Sum	21,000				
Stratum 70 Bare Ground					
94	994	No			
94	788	No			
Sum	1,782				
Stratum 71 Urban-Suburban					
95	1	No			
Sum	1				
Stratum 73 Gravel Pits, Mines, Quarries					
97	3	No			
Sum	3				
Stratum 74 Roads					
98BR	24	No			
98	41	No			
98	17	No			
Sum	82				
Grand Total	569,324	Acres Kantishna Management Area			

Fairbanks Management Area

Vegetation Type	Acres	Field Sampled?
Stratum 1 White Spruce Sawtimber		
2SZ	100	No
2SX	5,251	Yes
3SX	73	No
2SY	1,719	Yes
2SY	6,427	Yes
1SY	11	Yes
3SY	11	No
3SX	21	No
3SY	61	No
2SX	12,550	Yes
3SZ	5	No
Sum	26,228	
Stratum 2 White Spruce Poletimber		
2PY	1,718	Yes
2PY	2,850	Yes
2PZ	45	No
2PZ	83	No
2PXW	7	Yes
2PX	2,421	Yes
1PZW	10	No
1PY	747	No
1PY	85	No
1PX	319	No
1PX	86	No
3PZ	51	No
3PZ	49	No
3PYW	6	No
3PY	2,728	Yes
3PY	1,104	Yes
3PX	3,694	Yes
3PX	1,164	Yes
2PX	6,999	Yes
Sum	24,166	
Stratum 3 Birch Closed		
17SX	2,176	Yes
17PX	41,497	Yes
17PX	9,687	Yes
17SX	22,570	Yes
Sum	75,929	
Stratum 4 Birch Open		
17SZ	80	No
17PZ	27	No
17PZ	111	No
17PY	533	Yes
17SY	267	Yes
17SZ	3	No
17SY	3,425	Yes
17PY	3,628	Yes
Sum	8,075	
Stratum 5 Aspen Closed		
18SX	1,291	Yes
18SX	12,971	Yes
18PX	12,763	Yes
18PX	2,705	Yes
Sum	29,729	
Stratum 6 Aspen Open		
18PZ	4	No
18PY	168	Yes
18SY	42	Yes
18SY	411	Yes
18PY	641	Yes
18SZ	74	No
18PZ	7	No
18SZ	16	No
Sum	1,364	
Stratum 7 Birch-Aspen Closed		
19SX	688	Yes
19SX	4,026	Yes
19PX	2,702	Yes
19PX	9,719	Yes
Sum	17,134	

Vegetation Type	Acres	Field Sampled?
Stratum 8 Birch-Aspen Open		
19SY	3,113	Yes
19PY	983	Yes
19SY	131	Yes
19PZ	189	No
19PZ	45	No
19PY	1,853	Yes
19SZ	51	No
Sum	6,364	
Stratum 9 White Spruce-Birch Sawtimber		
31SY	738	Yes
31SY	6,624	Yes
31SZ	121	No
31SX	2,498	Yes
31SZ	8	No
31SX	14,689	Yes
Sum	24,678	
Stratum 10 White Spruce-Birch Poletimber		
31PZ	179	No
31PZ	186	No
31PY	8,916	Yes
31PY	2,685	Yes
31PX	21,951	Yes
31PX	6,417	Yes
Sum	40,334	
Stratum 11 White Spruce-Birch-Aspen Sawtimber		
37SY	220	Yes
34SX	66	Yes
34SX	966	Yes
34SY	13	No
37SZ	51	No
37SY	4,813	Yes
37SX	3,854	Yes
37SX	1,623	Yes
34SY	151	No
Sum	11,755	

Vegetation Type	Acres	Field Sampled?
Stratum 12 White Spruce-Birch-Aspen Poletimber		
34PZ	25	No
37PX	5,805	Yes
37PZ	45	No
37PX	8,009	Yes
37PZ	26	No
37PY	1,392	Yes
34PY	56	No
34PX	1,710	Yes
37PY	3,008	Yes
34PX	309	Yes
34PY	102	No
Sum	20,486	
Stratum 13 White Spruce-Balsam Poplar		
38PX	1,116	Yes
38SZ	55	No
38SY	457	No
38SY	38	No
38SX	420	No
38PZ	14	No
38PY	498	Yes
16PY	186	Yes
38PXW	9	Yes
38PX	761	Yes
38SX	555	No
38PY	444	Yes
16PX	507	Yes
16SX	141	No
16SX	787	No
16SY	6	No
16SY	480	No
16PY	1,019	Yes
16PZ	7	No
16PXW	3	Yes
16PX	1,187	Yes
Sum	8,691	

Vegetation Type	Acres	Field Sampled?
Stratum 14 Black and White Spruce-Birch-Aspen		
33PX	1	Yes
32SX	7	Yes
30PZ	2	Yes
39PY	3,646	Yes
39SY	133	No
35PX	10	Yes
30PY	49	Yes
30PY	12	Yes
39SZ	28	No
39PZ	57	No
39PY	1,104	Yes
32PYW	66	Yes
39PX	6,915	Yes
39PX	2,096	Yes
30PX	17	Yes
32SX	13	Yes
39PZ	41	No
32PZ	5	Yes
32PY	232	Yes
32PXW	7	Yes
30PX	42	Yes
32PX	493	Yes
39SX	16	No
32PX	426	Yes
39SX	142	No
32PY	218	Yes
Sum	15,777	
Stratum 15 White Spruce-Hardwood Reproduction		
16RYW	19	No
16RY	622	No
31PXBR	11,847	No
16RYW	14	No
16RZ	11	No
16RZ	64	No
30PYWBR	25	No
30PYBR	28	No
30PYBR	39	No
16RY	214	No
30PXBR	111	No
31RY	530	No
30PXBR	5	No
16SYBR	17	No
30PXWBR	7	No
101	14,454	No
32PYBR	108	No
32PYBR	229	No
32PXBR	1,080	No
32PXBR	1,821	No
31SYBR	188	No
16RX	529	Yes
16RX	2,550	Yes
31SXBR	383	No
31SXBR	24	No
16RXBR	5	No
101	987	No
31RXBR	15	No
31RYBR	253	No
16RXW	5	No
31RY	1,991	No
17RX	8,298	Yes
31RXBR	251	No
2SYBR	45	No
31RX	4,295	Yes
31RX	2,238	Yes
31PZBR	34	No
31PYBR	1,932	No
31PYBR	55	No
16RXW	19	No
31PXBR	2,141	No
31RZ	164	No
18RY	229	No

Vegetation Type	Acres	Field Sampled?
18RZ	7	No
18RYWBR	5	No
19RZ	64	No
18RYBR	15	No
18RYBR	207	No
17PYBR	192	No
19RZBR	153	No
19RYBR	781	No
18RXWBR	7	No
18RXW	1	No
18RXBR	221	No
18RXBR	119	No
18RX	3,150	Yes
19SXBR	12	No
18RY	657	No
18RZ	7	No
19PXBR	1,124	No
19PXBR	3,167	No
19PYBR	692	No
19PYBR	46	No
19PZBR	36	No
19RX	1,870	Yes
19RZ	122	No
19RX	5,482	Yes
19RYBR	34	No
31RZ	134	No
19RXBR	660	No
19RXW	3	No
19RY	425	No
19RY	877	No
18PYBR	31	No
18SXBR	38	No
2PYBR	245	No
18RX	604	Yes
2PXBR	320	No
17RY	846	No

Vegetation Type	Acres	Field Sampled?
17RY	1,231	No
17RXW	2	No
17RXBR	612	No
17RYBR	67	No
2PYBR	57	No
2PXBR	173	No
17RX	14,395	Yes
2PZBR	27	No
19RXBR	2,662	No
17PYBR	40	No
2SXBR	253	No
17PXBR	2,189	No
17RXBR	777	No
1PYBR	35	No
17PXBR	138	No
18PYBR	356	No
18PXBR	758	No
1PXBR	11	No
1PXBR	536	No
1PXWBR	16	No
17RYBR	402	No
17SYBR	328	No
18PZBR	11	No
17SXBR	142	No
17RZBR	3	No
17RZBR	47	No
17RZ	133	No
17RZ	49	No
17RYW	6	No
18PXBR	1,556	No
34PYBR	4	No
39PXBR	370	No
37RZ	64	No
37RZ	117	No
37RZBR	77	No
37RZWBR	18	No

Vegetation Type	Acres	Field Sampled?
37SYBR	153	No
38PXBR	83	No
38PYBR	2	No
37RYW	43	No
34RX	253	No
37RYBR	331	No
34PXBR	303	No
38RX	430	No
38RXW	6	No
38RY	314	No
38RY	263	No
38RZ	51	No
38RZ	13	No
38SYBR	3	No
38RX	2,654	No
34RXBR	932	No
37PXBR	748	No
37PXBR	1,504	No
37PYBR	397	No
37PYBR	1,058	No
37RX	3,208	Yes
37RX	5,174	Yes
34RZ	105	No
34RY	270	No
37RYW	18	No
34RXBR	87	No
37SXBR	108	No
34RX	909	No
31RYBR	5	No
37RXBR	4,858	No
37RXBR	13,900	No
37RXW	22	No
37RY	1,245	No
37RY	2,006	No
37RYBR	1,063	No
34RY	134	No
32SYBR	166	No
37RZW	2	No
39PYBR	9	No
3PZBR	41	No
3PYBR	850	No
3PYBR	50	No
3PXBR	852	No
3SXBR	4	No
3PXBR	6	No
33PYBR	34	No
33PYBR	15	No
39PYBR	705	No
Sum	153,276	
Stratum 16 Black and White Spruce-Hardwood Repro		
3RZ	25	No
3RYWBR	3	No
1RY	5,668	No
1RYBR	2,338	No
2RYBR	520	No
1RYBR	2,013	No
1RYW	1,830	No
1RYW	3,582	No
1RYWBR	3	No
1RYWBR	238	No
1RZ	149	No
1RZ	54	No
1RZBR	56	No
3RZW	3	No
2RY	2,313	Yes
2RX	3,340	Yes
35RZ	16	No
2RX	4,272	Yes
2RXBR	1,994	No
2RXW	5	No
1RZBR	4	No
2RY	801	Yes

Vegetation Type	Acres	Field Sampled?
1RZW	2	No
1RXWBR	15	No
2RYBR	133	No
3RYW	661	No
3RZBR	40	No
3RZ	143	No
35RYW	75	No
3RZWBR	13	No
39RYBR	26	No
1RY	3,464	No
3RX	10,257	Yes
2RYW	47	No
1RXWBR	343	No
39RZ	328	No
3RXBR	874	No
39RYBR	22	No
3RXBR	1,740	No
39RY	1,044	Yes
39RY	148	Yes
39RXWBR	14	No
39RXBR	65	No
39RX	1,915	Yes
39RX	1,459	Yes
39RYW	56	No
1RXBR	523	No
3RYBR	901	No
3RYBR	134	No
3RY	4,419	No
32RXBR	1,074	No
3RY	2,214	No
3RX	18,651	Yes
1RXBR	4,269	No
3RYW	223	No
1RX	12,817	Yes
1RX	6,828	Yes
3RXWBR	16	No

Vegetation Type	Acres	Field Sampled?
3RXWBR	42	No
3RXW	239	No
3RXW	128	No
1RXW	953	No
30RY	2,700	Yes
33RX	173	No
30RZ	16	No
30RZ	92	No
30RYWBR	503	No
30RYWBR	547	No
30RYW	1,334	No
30RYW	557	No
35PXBR	151	No
30RYBR	3,455	No
33RXBR	148	No
30RXWBR	6	No
30RXWBR	30	No
30RXW	130	No
30RXW	99	No
30RXBR	1,211	No
30RXBR	2,631	No
30RX	6,062	Yes
30RX	4,338	Yes
1RXW	3,149	No
33RY	146	No
2RZ	48	No
33RYBR	46	No
33RYW	104	No
33RYW	15	No
33RYWBR	396	No
33RYWBR	21	No
33RZ	8	No
33RZBR	6	No
33RX	198	No
33RY	81	No
33RXBR	188	No

Vegetation Type	Acres	Field Sampled?
33RXWBR	33	No
33RXWBR	18	No
30RZWBR	67	No
30RZW	12	No
30RZW	5	No
33RXW	42	No
33RXW	36	No
30RY	4,435	Yes
33RYBR	621	No
35PXBR	694	No
32RYW	411	No
35RXW	32	No
32RY	4,041	No
35RXBR	346	No
35RXBR	26	No
32RYW	753	No
32RX	6,602	Yes
32RYBR	1,368	No
32RX	4,397	Yes
30RYBR	2,752	No
32RXW	183	No
32RXW	86	No
32RY	1,815	No
32RYBR	730	No
32RXBR	2,945	No
35RYBR	215	No
32RZ	32	No
35PYBR	65	No
32RZW	50	No
35RY	248	No
35RY	333	No
35RYBR	319	No
35RX	322	No
35RX	475	No
32RZ	115	No
2RZ	544	No
2RZW	3	No
2RZBR	2	No
Sum	169,304	
Stratum 20	Black and White Spruce-Hardwood Dwarf	
39DYBR	22	No
39DZ	5	No
39DZ	232	No
19DY	199	No
17DY	138	No
17DY	16	No
16DX	2	No
3DY	325	No
17DZ	3	No
33DXWBR	8	No
32DX	21	No
32DX	15	No
32DY	126	No
32DY	113	No
32DYW	84	No
32DZ	61	No
39DX	195	No
32DZW	26	No
18DX	6	No
31W	5	No
3DXW	25	No
33DXW	2	No
33DZWBR	64	No
33DYWBR	58	No
3DZWBR	15	No
3DZW	13	No
3DZBR	171	No
3DZBR	24	No
3DZ	7	No
3DYW	8	No
3DY	355	No
3DX	1,235	No

Vegetation Type	Acres	Field Sampled?
3DX	289	No
33DX	2	No
2DYBR	8	No
1DZW	123	No
1DZWBR	13	No
30DZW	5	No
30DZBR	84	No
30DZ	291	No
30DZ	10	No
30DYWBR	15	No
30DYWBR	136	No
30DYW	41	No
30DY	689	No
2DX	35	No
2DX	60	No
1DZW	242	No
2DY	417	No
30DY	832	No
2DZ	268	No
2DZ	147	No
2DZBR	19	No
39DY	379	No
30DXBR	8	No
39DY	422	No
30DX	348	No
30DX	306	No
37DZ	6	No
37DZ	388	No
37DY	35	No
37DY	36	No
37DX	40	No
2DY	117	No
1DX	48,187	No
31DZ	50	No
31DZ	274	No
31DZBR	14	No

Vegetation Type	Acres	Field Sampled?
30DXBR	2	No
1DZBR	1,169	No
31DYBR	38	No
31DY	418	No
31DY	110	No
1DX	18,220	No
1DXBR	5,148	No
1DXBR	2,244	No
39DX	9	No
1DXW	1,044	No
1DZ	6,247	No
1DYWBR	82	No
31DX	40	No
1DYWBR	339	No
1DXW	2,807	No
1DZ	4,672	No
1DYW	8,721	No
1DYBR	5,104	No
1DYBR	9,532	No
1DZBR	2,402	No
1DY	21,006	No
1DY	10,572	No
1DXWBR	393	No
1DXWBR	237	No
1DYW	7,360	No
Sum	165,832	
Stratum 30 Tall Shrub		
68	4,074	No
68WBR	167	No
68WBR	67	No
68W	1,965	No
68W	1,026	No
68BR	422	No
68	3,427	No
68BR	664	No
Sum	11,812	

Vegetation Type	Acres	Field Sampled?
Stratum 35 Low Shrub		
76BR	22	No
76BR	10	No
76	1,033	No
71	11,239	No
71WBR	136	No
71WBR	14	No
71W	203	No
71W	483	No
71BR	558	No
71	4,467	No
71BR	397	No
76	129	No
Sum	18,691	
Stratum 40 Wet Meadow		
79	1,693	No
79	3,511	No
79BR	275	No
79BR	193	No
79W	152	No
Sum	5,825	
Stratum 50 Water		
80BR	50	No
80BR	87	No
80	1,320	No
80	168	No
Sum	1,624	
Stratum 60 Rivers		
88	13,428	No
88BR	38	No
88	1,622	No
Sum	15,087	
Stratum 70 Bare Ground		
94	289	No
94	4,671	No
Sum	4,960	
Stratum 71 Urban-Suburban		
95	7	No
Sum	7	
Stratum 72 Agriculture		
96	7	No
Sum	7	
Stratum 73 Gravel Pits, Mines, Quarries		
97	209	No
97	88	No
Sum	297	
Stratum 74 Roads		
98	504	No
98	1,679	No
Sum	2,183	
Stratum 75 Pipelines and Powerlines		
99	511	No
99	238	No
Sum	749	

Grand Total 860,366 Acres Fairbanks Management Area

Delta Management Area

Vegetation Type	Acres	Field Sampled?
Stratum 1	White Spruce Sawtimber	
3SX	13	No
1SY	9	Yes
3SY	29	No
3SX	149	No
2SX	5,158	Yes
2SX	11,305	Yes
2SY	1,008	Yes
2SY	2,164	Yes
2SZ	3	No
2SZ	51	No
3SY	239	No
Sum	20,128	
Stratum 2	White Spruce Poletimber	
2PZ	100	No
1PX	119	No
1PY	200	No
3PY	1,594	Yes
1PZ	9	No
3PZ	151	No
2PX	3,098	Yes
2PX	13,062	Yes
2PY	739	Yes
2PYW	5	Yes
3PZ	41	No
1PX	187	No
3PY	741	Yes
1PY	92	No
2PZ	23	No
3PX	4,414	Yes
3PX	1,198	Yes
2PY	2,829	Yes
1PYW	1	No
Sum	28,601	
Stratum 3	Birch Closed	
17PX	5,047	Yes
17PX	32,656	Yes
17SX	2,324	Yes
17SX	9,204	Yes
Sum	49,231	
Stratum 4	Birch Open	
17SZ	115	No
17PY	328	Yes
17PY	2,914	Yes
17PZ	33	No
17PZ	81	No
17SY	42	Yes
17SY	1,606	Yes
Sum	5,119	
Stratum 5	Aspen Closed	
18PX	16,632	Yes
18SX	1,743	Yes
18SX	249	Yes
18PX	3,743	Yes
Sum	22,367	
Stratum 6	Aspen Open	
18SY	84	Yes
18SZ	8	No
18PY	290	Yes
18PY	654	Yes
18PZ	2	No
18PZ	14	No
18SY	27	Yes
Sum	1,079	
Stratum 7	Birch-Aspen Closed	
19PX	29,366	Yes
19PX	4,167	Yes
19SX	508	Yes
19SX	40	Yes
Sum	34,082	
Stratum 8	Birch-Aspen Open	
19PZ	195	No

Vegetation Type	Acres	Field Sampled?
19SZ	9	No
19SY	260	Yes
19PZ	127	No
19PY	443	Yes
19PY	1,226	Yes
Sum	2,258	
Stratum 9 White Spruce-Birch Sawtimber		
31SX	3,065	Yes
31SX	6,187	Yes
31SY	937	Yes
31SY	1,775	Yes
31SZ	215	No
Sum	12,179	
Stratum 10 White Spruce-Birch Poletimber		
31PZ	94	No
31PZ	18	No
31PY	4,088	Yes
31PY	711	Yes
31PX	4,481	Yes
31PX	15,816	Yes
Sum	25,209	
Stratum 11 White Spruce-Birch-Aspen Sawtimber		
37SX	413	Yes
37SY	671	Yes
37SX	2,754	Yes
34SY	182	No
34SX	552	Yes
37SY	21	Yes
34SY	13	No
34SX	102	Yes
Sum	4,709	
Stratum 12 White Spruce-Birch-Aspen Poletimber		
37PY	3,740	Yes
37PZ	34	No
34PZ	53	No
37PY	1,357	Yes
37PX	31,410	Yes
37PX	9,553	Yes
34PX	423	Yes
34PX	3,236	Yes
34PY	115	No
34PY	1,140	No
Sum	51,064	
Stratum 13 White Spruce-Balsam Poplar		
38SX	303	No
38SZ	12	No
38SY	221	No
38SY	361	No
38SX	444	No
38SZ	34	No
38PZ	112	No
38PY	840	Yes
38PY	585	Yes
38PXW	16	Yes
38PX	1,388	Yes
16PY	531	Yes
38PZ	42	No
38PX	993	Yes
16PX	276	Yes
16SY	126	No
16SY	20	No
16SX	224	No
16SX	37	No
16PY	243	Yes
16SZ	4	No
16PX	991	Yes
16PZ	41	No
Sum	7,845	
Stratum 14 Black and White Spruce-Birch-Aspen		
30PY	58	Yes
30PY	23	Yes
32PY	65	Yes

Vegetation Type	Acres	Field Sampled?
35PY	112	Yes
35PY	166	Yes
35PX	1	Yes
32PY	116	Yes
30PZ	3	Yes
32PX	230	Yes
32PX	1,187	Yes
35PX	336	Yes
30PX	86	Yes
30PX	55	Yes
33PX	27	Yes
39PY	2,917	Yes
39PX	7,444	Yes
39PZ	117	No
39PZ	26	No
30SX	13	Yes
39PX	4,064	Yes
39PY	1,040	Yes
Sum	18,085	
Stratum 15	White Spruce-Hardwood Reproduction	
19PXBR	2,007	No
19PYBR	23	No
19PYBR	52	No
19RX	1,271	Yes
19RX	4,301	Yes
19RXBR	956	No
19PXBR	5,331	No
19RY	93	No
19RY	943	No
19RYBR	414	No
30PYBR	34	No
30PYWBR	24	No
19RYBR	158	No
19RXBR	234	No
30PYBR	85	No
32PYBR	517	No

Vegetation Type	Acres	Field Sampled?
34PXBR	340	No
31PYBR	191	No
2PXBR	693	No
30PXBR	5	No
34PYBR	33	No
2PXBR	941	No
30PXBR	43	No
31PXBR	334	No
34PYBR	485	No
2SYBR	2	No
34RX	117	No
34RX	1,236	No
34PXBR	565	No
34RXBR	272	No
33PYBR	277	No
3PYBR	10	No
2SXBR	272	No
2SXBR	81	No
2PYWBR	17	No
2PZBR	574	No
2PYBR	48	No
31RY	125	No
31RX	734	Yes
34RY	1,302	No
31SXBR	485	No
31SXBR	528	No
31RZBR	9	No
31RZ	165	No
31RYBR	53	No
31RYBR	81	No
2PZBR	16	No
1PYWBR	28	No
31RY	831	No
33PXBR	407	No
2PYBR	507	No
31RX	3,894	Yes

Vegetation Type	Acres	Field Sampled?
19RZ	7	No
19RZ	135	No
2SYBR	16	No
1PXBR	9	No
31PYBR	2	No
32PYBR	89	No
31SYBR	21	No
31RXBR	405	No
31PXBR	2,187	No
32PXBR	265	No
32PXBR	2,828	No
31RXBR	275	No
19RZBR	21	No
37SXBR	29	No
38RY	561	No
34RXBR	30	No
38RX	2,680	No
16RZ	14	No
38RX	1,648	No
16RZ	459	No
16RYW	5	No
101	2,607	No
38PXBR	17	No
38RZ	53	No
37RZBR	22	No
37RZ	140	No
37RYBR	2,053	No
38RXBR	2	No
37RY	4,009	No
16RY	499	No
16RY	356	No
101BR	181	No
16RYBR	8	No
39PXBR	378	No
17PXBR	2,257	No
17PXBR	952	No

Vegetation Type	Acres	Field Sampled?
17PYBR	131	No
17PYBR	59	No
17RX	1,155	Yes
17RX	3,454	Yes
17RXBR	1,063	No
39PYBR	112	No
38RY	365	No
39PXBR	434	No
38RYW	1	No
17RXBR	83	No
17RY	448	No
17RY	761	No
17RYBR	233	No
17RYBR	4	No
38SXBR	4	No
38RZ	37	No
37RYBR	3,268	No
39PYBR	522	No
18RXBR	133	No
17RYWBR	5	No
17RZ	12	No
101	619	No
17RZBR	28	No
37RZ	151	No
18PXBR	1,034	No
18PYBR	54	No
18PYBR	88	No
18RX	243	Yes
17RYW	1	No
18RXBR	240	No
17RZ	261	No
18RY	111	No
18RY	629	No
18RYBR	22	No
18RZ	379	No
18RZBR	19	No

Vegetation Type	Acres	Field Sampled?
34RZ	57	No
34RYBR	285	No
34RYBR	832	No
34RY	129	No
18RX	1,297	Yes
37RXBR	4,298	No
16RXBR	9	No
16RX	2,920	Yes
16RX	1,254	Yes
3PXBR	676	No
3PXBR	689	No
3PYWBR	9	No
18PXBR	941	No
37RY	1,127	No
37RXBR	3,268	No
37RX	5,366	Yes
37PXBR	6,026	No
37RX	1,734	Yes
37PYBR	153	No
37PYBR	1,678	No
37PXBR	10,671	No
3PYBR	282	No
Sum	117,224	
Stratum 16	Black and White Spruce-Hardwood Reproduction	
2RYBR	1,153	No
2RYBR	1,709	No
3RZBR	879	No
2RYWBR	23	No
2RZ	990	No
3RYWBR	330	No
3RZ	363	No
2RZBR	2,926	No
2RY	2,980	Yes
3RZ	807	No
3RYWBR	140	No
2RZWBR	10	No

Vegetation Type	Acres	Field Sampled?
2RZBR	1,299	No
2RZ	3,710	No
1RYWBR	3,051	No
30RXBR	2,411	No
1RX	8,491	Yes
1RX	14,266	Yes
1RXBR	8,455	No
1RXBR	3,778	No
1RXW	261	No
1RXW	836	No
1RXWBR	379	No
1RXWBR	21	No
1RY	3,563	No
1RY	3,187	No
1RYBR	1,851	No
1RYBR	372	No
1RZW	197	No
1RZW	459	No
2RXBR	1,667	No
2RXBR	1,495	No
2RX	5,021	Yes
2RX	1,212	Yes
3RZW	264	No
1RYW	2,662	No
1RZWBR	284	No
1RYW	6,798	No
3RYW	718	No
1RZBR	704	No
1RZ	15	No
1RZ	96	No
1RYWBR	546	No
2RY	1,366	Yes
1RZWBR	61	No
39RX	2,835	Yes
35PXBR	21	No
3RY	10,665	No

Vegetation Type	Acres	Field Sampled?
35RXBR	163	No
35RXBR	1,715	No
32RZ	715	No
35RX	1,406	No
35RX	7,183	No
35PYBR	445	No
3RXWBR	38	No
39RX	2,045	Yes
3RXWBR	323	No
39RXBR	876	No
39RXBR	103	No
39RY	361	Yes
3RY	3,483	No
3RYBR	5,333	No
39RY	660	Yes
39RYBR	152	No
3RYBR	462	No
32RYWBR	37	No
35PYBR	147	No
32RXBR	3,617	No
35RYBR	100	No
32RYW	320	No
32RYW	1,428	No
32RYBR	3,537	No
32RYBR	1,930	No
32RY	6,213	No
32RY	4,041	No
32RXWBR	54	No
32RYWBR	25	No
32RXBR	1,319	No
35PXBR	2,121	No
32RX	4,573	Yes
32RX	5,888	Yes
35RZBR	14	No
35RYBR	4,067	No
35RY	537	No
35RY	4,406	No
3RXBR	5,569	No
3RXW	133	No
3RXW	234	No
32RXW	58	No
33RYBR	1,417	No
30RXW	75	No
3RYW	389	No
30RXBR	189	No
30RX	3,261	Yes
33RZBR	85	No
33RZ	374	No
33RYW	3	No
30RY	3,355	Yes
33RYBR	64	No
30RXWBR	9	No
33RXBR	2,059	No
33RX	106	No
30RX	2,148	Yes
33RX	512	No
32RZ	35	No
3RXBR	6,447	No
3RX	13,657	Yes
3RX	13,411	Yes
33RYW	335	No
30RZ	162	No
39RYBR	57	No
39RYW	2	No
39RZ	17	No
30RZWBR	12	No
30RZW	267	No
30RXW	147	No
30RZBR	13	No
30RY	2,997	Yes
30RZ	35	No
30RYWBR	8	No

Vegetation Type	Acres	Field Sampled?
30RYWBR	1,402	No
30RYW	910	No
30RYW	2,227	No
30RYBR	366	No
30RYBR	2,425	No
30RZW	488	No
Sum	240,622	
Stratum 20 Black and White Spruce-Hardwood Dwarf		
34DY	35	No
34DYBR	22	No
34DZ	16	No
33DX	15	No
39DY	102	No
19DZ	18	No
19DYBR	11	No
3DX	49	No
3DZWBR	38	No
3DZWBR	23	No
3DZBR	68	No
3DZBR	135	No
3DZ	957	No
3DZ	866	No
3DYWBR	72	No
3DYW	78	No
3DYBR	74	No
3DYBR	289	No
3DY	171	No
3DY	198	No
39DX	10	No
3DX	97	No
18DZBR	6	No
17DX	11	No
17DY	316	No
17DZ	45	No
17DZ	52	No
39DZ	7	No
39DY	36	No
1DXWBR	480	No
39DX	111	No
37DZBR	57	No
37DZ	243	No
37DY	902	No
37DY	29	No
37DX	47	No
3DXBR	3	No
32DY	145	No
1DZBR	1,782	No
2DYW	95	No
1DZW	1,225	No
1DZWBR	536	No
1DZWBR	10	No
30DXWBR	42	No
30DY	570	No
30DY	1,683	No
30DYBR	534	No
30DYW	27	No
30DYW	278	No
30DXBR	4	No
32DZBR	33	No
2DZBR	289	No
1DZBR	7,526	No
2DZ	764	No
30DZ	1,141	No
1DXW	224	No
30DZ	384	No
30DYWBR	41	No
32DY	21	No
32DX	32	No
30DYWBR	245	No
2DZ	73	No
2DY	287	No
2DY	438	No

Vegetation Type	Acres	Field Sampled?
2DYBR	491	No
2DYBR	104	No
2DZBR	362	No
1DXW	451	No
1DZW	184	No
30DZW	763	No
1DYBR	725	No
1DYBR	2,937	No
1DY	9,465	No
1DY	6,822	No
1DYW	5,475	No
30DZBR	22	No
1DYW	9,790	No
1DXBR	219	No
1DXBR	1,146	No
1DX	9,624	No
1DX	4,426	No
30DX	151	No
30DX	873	No
30DXBR	89	No
1DXWBR	30	No
1DYWBR	1,392	No
31DZ	81	No
31DY	34	No
1DZ	10,494	No
1DZ	5,921	No
30DZW	795	No
31DX	19	No
31DZ	318	No
1DYWBR	5,131	No
31DX	7	No
30DZWBR	24	No
31DXBR	16	No
Sum	102,495	
Stratum 30 Tall Shrub		
68BR	5,130	No
68BR	153	No
68W	851	No
68W	2,901	No
68	3,414	No
68	9,571	No
68WBR	1,810	No
68WBR	579	No
Sum	24,409	
Stratum 35 Low Shrub		
71	15,589	No
71BR	410	No
71BR	5,066	No
76BR	79	No
71W	1,757	No
71	5,070	No
76	380	No
76	63	No
71WBR	246	No
71WBR	1,475	No
71W	7,691	No
Sum	37,828	
Stratum 40 Wet Meadow		
79WBR	1	No
79	4,231	No
79BR	152	No
79BR	61	No
79	1,598	No
Sum	6,044	
Stratum 50 Water		
80	788	No
80	1,679	No
80BR	8	No
80BR	33	No
Sum	2,508	
Stratum 60 Rivers		
88	16,020	No

Vegetation Type	Acres	Field Sampled?	Vegetation Type	Acres	Field Sampled?
88	17,358	No			
Sum	33,378				
Stratum 70 Bare Ground					
94	1,231	No			
94	1,380	No			
94BR	15	No			
Sum	2,626				
Stratum 71 Urban-Suburban					
95	1	No			
95	16	No			
Sum	17				
Stratum 72 Agriculture					
96BR	3	No			
96	313	No			
96	162	No			
Sum	478				
Stratum 73 Gravel Pits, Mines, Quarries					
97	83	No			
97	74	No			
Sum	157				
Stratum 74 Roads					
98BR	48	No			
98	871	No			
98	687	No			
Sum	1,606				
Stratum 75 Pipelines and Powerlines					
99	224	No			
99	102	No			
99BR	64	No			
Sum	390				

Grand Total 851,736 Acres Delta Management Area

Tok Management Area

Vegetation Type	Acres	Field Sampled?
Stratum 1 White Spruce Sawtimber		
1SY	20	Yes
3SY	19	No
2SZ	34	No
2SY	2,934	Yes
2SX	8,220	Yes
3SX	61	No
Sum	11,288	
Stratum 2 White Spruce Poletimber		
1PX	15	No
2PZ	260	No
2PY	8,747	Yes
3PZ	32	No
3PX	2,552	Yes
2PX	17,013	Yes
3PY	2,363	Yes
1PY	24	No
Sum	31,007	
Stratum 3 Birch Closed		
17SX	784	Yes
17PX	8,812	Yes
Sum	9,596	
Stratum 4 Birch Open		
17SY	56	Yes
17PZ	25	Yes
17PY	1,441	Yes
Sum	1,523	
Stratum 5 Aspen Closed		
18SX	533	Yes
18PX	7,609	Yes
Sum	8,142	
Stratum 6 Aspen Open		
18SY	120	Yes
18PZ	31	No
18PY	2,396	Yes
Sum	2,547	

Vegetation Type	Acres	Field Sampled?
Stratum 7 Birch-Aspen Closed		
19SX	15	Yes
19PX	3,021	Yes
Sum	3,035	
Stratum 8 Birch-Aspen Open		
19PY	342	Yes
19PZ	4	No
Sum	346	
Stratum 9 White Spruce-Birch Sawtimber		
31SX	618	Yes
31SY	477	Yes
Sum	1,095	
Stratum 10 White Spruce-Birch Poletimber		
31PX	7,908	Yes
31PZ	52	No
31PY	2,826	Yes
Sum	10,786	
Stratum 11 White Spruce-Birch-Aspen Sawtimber		
37SY	279	Yes
34SY	239	Yes
37SX	118	Yes
34SX	538	Yes
Sum	1,174	
Stratum 12 White Spruce-Birch-Aspen Poletimber		
34PX	5,229	Yes
37PY	2,462	Yes
34PY	4,368	Yes
37PZ	48	No
34PZ	175	No
37PX	11,879	Yes
Sum	24,161	
Stratum 13 White Spruce-Balsam Poplar		
16SX	1,336	Yes
16PX	1,930	Yes
38SY	138	No
38SX	586	Yes

Vegetation Type	Acres	Field Sampled?
16SY	121	No
38PX	1,010	Yes
38PY	573	Yes
16PY	443	Yes
Sum	6,136	
Stratum 14	Black and White Spruce-Birch-Aspen	
32PX	596	Yes
39PX	2,455	Yes
39SY	6	No
39PY	1,069	Yes
35PX	2	Yes
35PY	3	Yes
Sum	4,132	
Stratum 15	White Spruce-Hardwood Reproduction	
17RYWBR	22	No
17RZ	2	No
17SXBR	5	No
17RYW	10	No
31SYBR	13	No
17RYBR	141	No
17RY	201	No
31SXBR	2,319	No
18RZBR	24	No
19RYBR	373	No
19RY	2,116	No
19RXBR	1,408	No
19RX	4,415	Yes
19PYBR	64	No
31RYBR	248	No
18RX	7,750	Yes
31RZ	31	No
18PXBR	914	No
18RZ	342	No
18RYBR	1,600	No
18RY	5,550	No
18RXBR	1,377	No
17RXBR	413	No
18PYWBR	22	No
18PYBR	96	No
31PYBR	516	No
34RZ	238	No
101	2,401	No
37PZBR	194	No
37PYBR	1,732	No
37PXBR	18,373	No
34SYBR	4	No
16SXBR	24	No
34RZBR	103	No
16RX	383	Yes
34RYBR	3,320	No
34RY	10,505	Yes
34RXBR	1,806	No
34RX	6,623	Yes
34PYBR	916	No
34PXBR	4,704	No
34SXBR	14	No
16RYWBR	2	No
17PZBR	70	No
17PYBR	89	No
17PXBR	726	No
32PXBR	19	No
19RYW	4	No
16RZW	343	No
16PXBR	22	No
16RZBR	44	No
16PYBR	28	No
16RYW	591	No
16RYBR	6	No
16RY	470	No
16RXW	99	No
16RXBR	34	No
17RX	2,378	Yes

Vegetation Type	Acres	Field Sampled?
19PXBR	2,865	No
38RX	1,168	No
2RYBR	1,840	No
37RY	6,244	No
2RYW	29	No
37RYBR	1,365	No
38RZ	43	No
37RYW	6	No
37RZ Reproduction	535	No
37RZBR	19	No
37SXBR	29	No
37SYBR	121	No
2RY	3,916	Yes
38PYBR	66	No
2RZ	4,624	No
38RXBR	22	No
38RXW	28	No
2RZBR	2,014	No
38RY	1,265	No
2RZWBR	77	No
38RYW	332	No
19RZ	303	No
2SYBR	57	No
2SXBR	603	No
39PXBR	5,657	No
39PYBR	252	No
38PXBR	73	No
31PXBR	4,137	No
31RX	3,088	Yes
31RXBR	435	No
37RXBR	2,578	No
2PYBR	1,476	No
31RY	950	No
2PZBR	63	No
19RZBR	36	No
2RX	12,514	Yes

Vegetation Type	Acres	Field Sampled?
3PXBR	1,069	No
37RX	18,621	Yes
2RXWBR	20	No
1PXBR	133	No
2PXBR	11,308	No
2RXBR	1,408	No
3PYBR	260	No
Sum	177,883	

Stratum 16 Black and White Spruce-Hardwood

39RZW	131	No
35RY	132	No
39RYWBR	1,138	No
3RXWBR	394	No
32RX	33	Yes
39RZ	161	No
39RZBR	78	No
32RXBR	284	No
35RYBR	471	No
39RYW	2,687	No
35RXBR	571	No
35RX	1,098	No
33RY	2	No
32RYW	1	No
33RX	150	No
32RY	195	No
3RXW	1,852	No
3RXBR	7,060	No
3RX	15,991	Yes
3RYBR	4,212	No
39RYBR	6,198	No
3RYW	2,324	No
3RYWBR	843	No
33RXBR	185	No
1RY	2,255	No
3RY	3,292	No
33RYBR	25	No

Vegetation Type	Acres	Field Sampled?
1RZWBR	232	No
1RZW	1,531	No
30RZ	2	No
1RZBR	19	No
3RZWBR	1	No
1RYWBR	8,708	No
1RYW	17,460	No
30RY	181	Yes
1RYBR	1,562	No
39RY	9,060	Yes
1RXWBR	1,919	No
3RZ	450	No
1RXBR	8,551	No
1RX	12,015	Yes
30RYWBR	93	No
30RXBR	1,315	No
30RX	570	Yes
3RZW	91	No
3RZBR	680	No
1RXW	5,127	No
39RXWBR	671	No
39RXW	558	No
39RX	15,572	Yes
39RXBR	10,625	No
Sum	148,757	
Stratum 20	Black and White Spruce-Hardwood Dwarf	
2DYWBR	7	No
2DYW	15	No
2DY	103	No
31DZW	22	No
32DX	5	No
31DY	310	No
2DYBR	18	No
31DYBR	215	No
18DZ	76	No
1DZ	3,228	No

Vegetation Type	Acres	Field Sampled?
1DZBR	3,053	No
1DZW	9,570	No
1DZWBR	4,858	No
39DX	40	No
39DXBR	29	No
39DXW	122	No
39DXWBR	103	No
39DY	446	No
1DYWBR	10,957	No
39DYW	342	No
39DYBR	120	No
39DZW	109	No
3DX	40	No
3DXWBR	63	No
3DY	325	No
3DYBR	377	No
3DYW	8	No
3DYWBR	69	No
3DZ	435	No
3DZBR	277	No
34DYBR	15	No
18DZBR	82	No
1DYW	12,018	No
34DZ	50	No
34DZBR	4	No
35DX	6	No
35DY	7	No
37DX	15	No
37DY	512	No
17DYBR	3	No
18DXBR	62	No
39DYWBR	107	No
18DYBR	100	No
19DY	20	No
19DYBR	3	No
19DZBR	19	No

Vegetation Type	Acres	Field Sampled?
1DX	5,067	No
1DXBR	6,035	No
1DXW	917	No
1DXWBR	1,962	No
1DY	5,608	No
1DYBR	3,534	No
18DY	109	No
Sum	71,599	
Stratum 30 Tall Shrub		
68	19,273	No
68WBR	2,227	No
68W	7,937	No
68BR	3,810	No
Sum	33,247	
Stratum 35 Low Shrub		
71	10,523	No
71BR	573	No
71W	9,079	No
71WBR	2,710	No
76	174	No
76BR	27	No
Sum	23,085	
Stratum 40 Wet Meadow		
79W	45	No
79	3,419	No
79BR	1,988	No
Sum	5,452	
Stratum 50 Water		
80	3,808	No
80BR	129	No
Sum	3,938	
Stratum 60 Rivers		
88	9,716	No
88BR	93	No
Sum	9,809	
Stratum 70 Bare Ground		
94	1,764	No
94BR	53	No
Sum	1,817	
Stratum 71 Urban-Suburban		
95	453	No
95BR	108	No
Sum	560	
Stratum 73 Gravel Pits, Mines, Quarries		
97	114	No
Sum	114	
Stratum 74 Roads		
98	579	No
Sum	579	
Stratum 75 Pipelines and Powerlines		
99	5	No
Sum	5	

Grand Total 591,813 Acres Tok Management Area

Grand Total	591,813

Appendix B

STAND TABLES PER ACRE BY STRATUM, SPECIES AND VOLUME UNIT

Volume Unit 1 For Trees Greater Than or Equal to 5" dbh

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Stratum 1	White Spruce Sawtimber								
Aspen									
8	1	0	8	7	0	0	0		
10	0	0	4	3	0	0	0	6	5
11	0	0	1	1	0	0	0	5	4
12	0	0	6	4	0	0	0	21	17
13	0	0	5	5	0	0	0	21	21
Sum	2	1	24	21	1	0	1	52	47
Balsam Poplar									
7	0	0	1	1	0	0	0		
8	1	0	2	2	0	0	0		
10	0	0	1	1	0	0	0	1	1
12	1	1	10	7	0	0	0	34	24
14	0	0	2	1	0	0	0	6	5
15	0	0	2	1	0	0	0	8	4
Sum	2	1	18	14	0	0	1	49	34
Birch									
5	2	0	3	3	0	0	0		
6	4	1	12	10	0	0	1		
7	5	1	23	19	1	0	1		
8	4	1	26	22	1	1	1		
9	1	1	15	12	0	0	0	10	8
10	4	2	45	39	1	1	2	92	81
11	1	1	14	11	0	0	0	51	41
12	2	1	27	23	1	1	1	108	89
13	0	0	8	7	0	0	0	37	31
14	0	0	0	0	0	0	0	0	0
15	0	0	4	3	0	0	0	16	11
Sum	23	9	178	149	4	4	7	314	261
Black Spruce									
7	0	0	1	1	0	0	0		
8	0	0	1	1	0	0	0		
9	1	0	5	5	0	0	0	21	21
Sum	1	0	7	7	0	0	0	21	21
White Spruce									
5	5	1	9	9	0	0	0		
6	16	3	49	47	1	1	2		
7	19	5	91	86	2	1	4		
8	17	6	126	121	2	2	4		
9	21	9	214	202	4	3	7	530	502
10	21	12	297	286	5	5	9	1,143	1,102
11	15	10	258	249	4	4	8	1,074	1,038
12	15	12	330	316	6	5	10	1,451	1,388
13	11	10	274	263	5	4	8	1,262	1,210
14	9	9	269	264	5	4	8	1,283	1,258
15	8	9	277	262	5	4	8	1,351	1,275
16	6	8	252	242	4	4	7	1,280	1,227
17	3	4	130	125	2	2	4	678	649

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
18	2	4	135	128	2	2	4	710	678
19	2	4	120	117	2	2	4	643	624
20	1	2	70	66	1	1	2	374	357
21	1	2	61	60	1	1	2	333	329
22	1	1	39	38	1	1	2	213	211
23	0	1	24	24	0	0	1	133	134
24	1	1	14	14	0	0	2	78	78
25	0	1	23	23	0	0	1	133	133
27	0	0	9	9	0	0	0	56	56
28	0	0	8	8	0	0	1	48	48
Sum	175	116	3,079	2,959	52	50	99	12,773	12,295
Totals for stratum White Spruce Sawtimber	202	127	3,307	3,150	58	55	109	13,209	12,657
Stratum 2 White Spruce Poletimber									
Aspen									
5	1	0	1	1	0	0	0		
6	1	0	3	3	0	0	0		
7	2	1	8	8	0	0	0		
8	2	1	10	9	0	0	0		
9	2	1	27	22	1	0	1	19	15
10	0	0	1	1	0	0	0	0	0
11	0	0	1	1	0	0	0	4	2
12	0	0	6	5	0	0	0	27	22
13	0	0	1	1	0	0	0	7	6
Sum	9	3	59	50	1	1	2	57	45
Balsam Poplar									
11	0	0	2	2	0	0	0	2	3
Sum	0	0	2	2	0	0	0	2	3
Birch									
6	6	1	14	13	0	0	1		
7	3	1	15	14	0	0	1		
8	3	1	20	18	1	0	1		
9	1	1	11	9	0	0	0	1	1
10	1	1	18	16	0	0	1	33	31
Sum	15	5	78	70	2	2	3	35	32
Black Spruce									
5	18	3	33	32	1	1	2		
6	24	5	63	62	1	1	3		
7	9	3	43	42	1	1	2		
8	6	2	39	39	1	1	2		
9	5	2	46	44	1	1	2	90	85
10	2	1	21	21	0	0	1	96	92
11	0	0	3	3	0	0	0	13	14
Sum	63	15	249	244	4	4	10	199	191
White Spruce									
5	25	4	41	40	1	1	2		
6	31	7	97	92	2	2	4		
7	35	10	172	165	3	3	7		
8	34	12	249	241	4	4	9		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
9	29	12	283	272	5	5	10	555	530
10	20	10	248	236	4	4	8	976	932
11	18	11	252	246	4	4	10	1,060	1,035
12	10	8	223	215	4	4	7	987	952
13	6	5	131	124	2	2	5	601	570
14	5	5	149	143	3	2	4	712	685
15	2	2	73	72	1	1	2	361	355
16	2	2	70	67	1	1	2	354	338
17	2	2	51	43	1	1	3	253	212
18	0	1	16	16	0	0	0	82	83
19	1	1	24	24	0	0	1	123	120
20	0	0	15	14	0	0	0	86	82
24	0	0	8	8	0	0	1	42	38
Sum	220	93	2,101	2,018	36	34	75	6,190	5,934
Totals for stratum White Spruce Poletimber	308	116	2,488	2,383	43	41	91	6,483	6,204
Stratum 3 Birch Closed									
Aspen									
5	1	0	5	5	0	0	0		
6	2	0	8	7	0	0	0		
7	3	1	13	12	0	0	1		
8	2	1	19	18	0	0	1		
9	2	1	27	24	1	1	1	23	20
10	1	0	11	10	0	0	0	21	20
11	1	1	19	17	0	0	1	65	61
12	0	0	10	9	0	0	0	39	35
13	0	0	7	5	0	0	0	26	19
14	0	0	8	7	0	0	0	33	28
15	0	0	6	4	0	0	0	24	16
16	0	0	6	4	0	0	0	25	16
17	0	0	3	2	0	0	0	9	8
20	0	0	3	2	0	0	0	10	8
Sum	15	6	143	127	3	3	5	275	230
Balsam Poplar									
6	0	0	1	0	0	0	0		
8	0	0	2	2	0	0	0		
9	0	0	2	2	0	0	0		
10	0	0	0	0	0	0	0	0	0
Sum	1	0	6	5	0	0	0	0	0
Birch									
5	53	8	99	92	2	2	5		
6	77	15	249	238	6	6	11		
7	57	15	301	287	8	7	12		
8	37	13	289	274	7	7	10		
9	18	8	185	173	5	4	6	102	95
10	11	6	130	116	3	3	5	252	223
11	7	4	90	79	2	2	4	333	292
12	4	3	60	52	2	1	3	240	205
13	2	1	37	32	1	1	1	156	136

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
14	1	1	20	18	0	0	1	84	74
15	0	0	10	9	0	0	1	44	37
16	0	0	7	6	0	0	0	32	27
17	0	0	1	0	0	0	0	6	1
Sum	268	76	1,478	1,374	37	34	60	1,248	1,090
Black Spruce									
5	1	0	1	1	0	0	0		
6	0	0	1	1	0	0	0		
7	1	0	3	3	0	0	0		
8	0	0	2	1	0	0	0		
9	1	0	6	5	0	0	0	17	15
11	0	0	2	2	0	0	0	7	7
13	0	0	1	1	0	0	0	3	3
Sum	3	1	16	15	0	0	1	28	25
White Spruce									
5	4	0	4	4	0	0	0		
6	9	2	23	23	0	0	1		
7	6	2	25	25	0	0	1		
8	3	1	24	23	0	0	1		
9	2	1	19	18	0	0	1	43	42
10	2	1	22	21	0	0	1	89	85
11	1	1	14	13	0	0	0	57	54
12	1	1	20	19	0	0	1	88	84
13	1	0	11	10	0	0	0	52	45
14	0	0	4	4	0	0	0	16	16
15	0	0	5	5	0	0	0	26	25
16	0	0	2	2	0	0	0	11	10
18	0	0	3	3	0	0	0	17	18
19	0	0	5	5	0	0	0	27	24
20	0	0	3	3	0	0	1	16	14
22	0	0	3	3	0	0	0	14	14
27	0	0	3	3	0	0	1	16	15
Sum	29	10	190	182	3	3	8	470	445
Totals for stratum Birch Closed	316	93	1,832	1,704	44	41	74	2,021	1,791
Stratum 4 Birch Open									
Aspen									
8	1	0	6	5	0	0	0		
10	1	0	8	8	0	0	0	11	12
11	1	0	8	7	0	0	0	24	22
12	0	0	8	6	0	0	0	30	24
13	1	1	19	17	0	0	1	61	55
19	0	1	0	0	0	0	1	21	19
Sum	4	3	48	43	1	1	3	148	131
Birch									
5	4	0							
6	20	4	55	53	1	1	3		
7	16	4	66	66	2	2	3		
8	20	7	131	119	3	3	5		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
9	19	9	191	156	5	4	7	163	134
10	9	5	94	94	2	2	4	187	185
11	8	5	136	131	3	3	4	511	496
12	10	7	152	126	4	3	6	589	485
13	6	5	108	80	3	2	4	473	353
14	5	4	89	83	2	2	4	398	373
15	1	1	17	9	0	0	1	95	51
16	1	2	42	32	1	1	1	194	151
17	1	2	48	42	1	1	2	236	207
18	1	1	24	18	1	0	1	142	110
19	1	1	0	0	0	0	1	0	0
20	0	0	7	5	0	0	0	44	36
21	1	1	0	0	0	0	2	0	0
23	1	1	21	18	1	0	2	118	102
Sum	123	61	1,180	1,031	29	26	51	3,150	2,683
White Spruce									
5	10	1	15	15	0	0	1		
6	7	1	14	11	0	0	1		
7	0	0	5	6	0	0	0		
12	1	1	24	24	0	0	1	103	103
13	1	1	20	20	0	0	1	89	89
15	1	1	29	29	0	0	1	143	143
16	1	1	22	22	0	0	1	107	107
18	0	1	27	22	0	0	0	140	116
Sum	21	7	155	148	3	3	5	582	558
Totals for stratum Birch Open	148	72	1,383	1,223	33	29	59	3,880	3,372
Stratum 5 Aspen Closed									
Aspen									
5	42	7	100	87	2	2	4		
6	76	16	268	237	6	5	11		
7	67	18	364	331	8	7	14		
8	50	17	395	366	8	8	14		
9	32	14	341	314	7	7	11	259	235
10	17	9	234	215	5	5	8	435	401
11	11	7	178	158	4	3	6	623	554
12	6	4	113	97	2	2	4	427	367
13	2	1	31	28	1	1	1	121	110
14	1	1	19	14	0	0	1	75	59
15	0	0	6	4	0	0	0	24	17
Sum	303	94	2,048	1,852	44	40	74	1,964	1,743
Balsam Poplar									
5	1	0	0	0	0	0	0		
6	4	1	10	9	0	0	1		
7	0	0	1	1	0	0	0		
Sum	5	1	11	10	0	0	1		
Birch									
5	6	1	12	11	0	0	1		
6	14	3	42	39	1	1	2		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
7	11	3	53	46	1	1	2		
8	7	2	54	46	1	1	2		
9	2	1	24	21	1	1	1	7	6
10	0	0	7	7	0	0	0	12	11
11	1	1	13	13	0	0	0	46	46
13	0	0	4	4	0	0	0	19	15
14	0	0	5	4	0	0	0	19	16
Sum	42	12	215	191	5	5	9	103	94
Black Spruce									
5	3	0	3	3	0	0	0		
Sum	3	0	3	3	0	0	0		
White Spruce									
5	4	1	6	6	0	0	0		
6	10	2	26	26	0	0	1		
7	11	3	45	43	1	1	2		
8	7	3	40	39	1	1	2		
9	2	1	25	23	0	0	1	69	66
10	2	1	16	15	0	0	1	63	61
11	2	1	32	32	1	1	1	132	130
12	0	0	4	3	0	0	0	16	15
13	0	0	8	8	0	0	0	37	38
14	0	0	6	6	0	0	0	30	28
15	0	0	12	10	0	0	0	58	51
16	0	0	10	10	0	0	0	53	53
17	0	0	13	13	0	0	0	69	65
Sum	40	13	242	235	4	4	9	527	508
Totals for stratum Aspen Closed	392	120	2,520	2,292	54	49	93	2,594	2,345
Stratum 6 Aspen Open									
Aspen									
5	11	1	15	14	0	0	1		
6	41	8	157	140	3	3	6		
7	36	10	212	178	5	4	8		
8	21	8	189	159	4	3	6		
9	32	14	323	284	7	6	12	148	121
10	26	14	379	295	8	6	12	673	501
11	8	5	148	112	3	2	4	465	350
12	6	4	93	74	2	2	4	310	246
Sum	181	64	1,517	1,255	33	27	52	1,596	1,218
Balsam Poplar									
5	8	1	7	0	0	0	1		
8	2	1	17	17	0	0	0		
Sum	9	2	24	17	1	0	1		
White Spruce									
5	13	1	17	17	0	0	1		
6	18	3	33	32	1	1	2		
8	8	3	60	57	1	1	2		
9	5	3	43	43	1	1	2	82	82
11	5	4	58	53	1	1	3	255	234

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Sum	49	14	210	201	4	3	10	336	316
Totals for stratum Aspen Open	239	80	1,750	1,473	37	31	63	1,932	1,534
Stratum 7 Birch-Aspen Closed									
Aspen									
5	18	3	38	34	1	1	2		
6	30	6	102	91	2	2	4		
7	20	5	95	88	2	2	4		
8	24	9	174	160	4	3	6		
9	11	5	106	100	2	2	4	72	69
10	7	4	96	87	2	2	3	194	175
11	4	3	76	68	2	1	2	276	246
12	1	1	27	24	1	1	1	113	99
13	2	2	47	42	1	1	2	187	166
14	1	1	28	23	1	0	1	114	95
15	1	1	32	25	1	1	1	132	105
17	0	0	6	5	0	0	0	27	25
Sum	120	40	828	748	18	16	30	1,115	980
Balsam Poplar									
10	1	1	10	10	0	0	0	19	18
13	0	0	1	1	0	0	0	5	5
Sum	1	1	12	11	0	0	0	24	23
Birch									
5	23	4	48	46	1	1	2		
6	39	8	119	111	3	3	6		
7	32	8	145	134	4	3	6		
8	17	6	120	111	3	3	5		
9	18	8	161	145	4	4	6	113	101
10	12	6	124	107	3	3	5	253	221
11	6	4	79	67	2	2	3	277	235
12	4	3	54	40	1	1	2	211	156
13	2	1	23	17	1	0	1	92	69
14	1	1	20	11	1	0	1	91	48
15	1	1	15	10	0	0	1	66	46
16	0	0	4	3	0	0	0	15	11
Sum	154	49	910	801	23	20	39	1,120	888
Black Spruce									
5	2	0	4	3	0	0	0		
6	2	0	4	4	0	0	0		
7	1	0	6	6	0	0	0		
Sum	6	1	13	12	0	0	1		
White Spruce									
5	2	0	3	4	0	0	0		
6	8	2	21	22	0	0	1		
7	7	2	29	28	0	0	1		
8	3	1	19	17	0	0	1		
9	3	1	22	20	0	0	1	58	53
10	3	2	34	33	1	1	1	140	138
11	0	0	6	6	0	0	0	24	26

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
12	0	0	10	9	0	0	0	42	40
13	0	0	10	10	0	0	0	47	47
14	0	0	7	4	0	0	0	32	18
15	1	1	16	16	0	0	1	79	79
16	1	1	24	23	0	0	1	126	123
17	0	0	5	5	0	0	0	23	23
20	0	0	4	4	0	0	0	19	19
21	0	0	5	5	0	0	0	26	25
23	0	0	4	4	0	0	0	23	21
Sum	29	11	217	209	4	4	8	639	611
Totals for stratum Birch-Aspen Closed	310	101	1,980	1,782	45	40	78	2,897	2,502
Stratum 8 Birch-Aspen Open									
Aspen									
5	3	0	2	1	0	0	0		
6	23	4	56	52	1	1	3		
7	14	4	61	57	1	1	3		
8	4	2	28	26	1	1	1		
9	3	2	37	32	1	1	1	13	11
10	4	3	77	67	2	1	2	203	169
12	2	2	42	31	1	1	1	162	121
13	3	3	67	53	1	1	2	265	210
14	2	2	54	34	1	1	2	216	136
15	2	2	50	34	1	1	2	204	136
18	1	2	38	25	1	1	2	157	102
19	1	2	56	39	1	1	2	234	163
Sum	62	26	567	451	12	10	21	1,454	1,048
Birch									
5	7	1	7	6	0	0	1		
6	14	3	33	31	1	1	2		
7	18	5	80	65	2	2	4		
8	9	4	58	50	1	1	2		
9	4	2	36	18	1	0	1	26	12
10	13	7	163	126	4	3	6	323	252
11	12	8	184	127	5	3	7	657	458
12	3	3	68	53	2	1	2	281	221
13	5	6	117	75	3	2	4	527	344
14	5	6	105	86	3	2	5	505	402
15	1	1	24	17	1	0	1	144	86
16	1	2	51	28	1	1	1	265	148
17	0	1	16	13	0	0	1	98	64
18	0	1	31	23	1	1	1	154	115
19	1	2	44	21	1	1	2	244	122
Sum	94	51	1,015	738	25	18	37	3,224	2,225
White Spruce									
5	4	1	5	4	0	0	0		
6	3	0	8	8	0	0	0		
7	7	2	41	37	1	1	1		
8	2	0	11	7	0	0	0		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
9	1	0	3	2	0	0	0	6	1
10	1	0	9	8	0	0	0	31	26
11	2	1	26	21	0	0	1	111	88
12	3	3	69	63	1	1	2	302	276
13	1	1	22	22	0	0	1	100	98
14	2	3	64	59	1	1	2	298	274
15	0	0	6	4	0	0	0	32	22
Sum	26	12	264	235	4	4	10	879	786
Totals for stratum Birch-Aspen Open	182	89	1,846	1,424	42	32	68	5,558	4,059
Stratum 9 White Spruce-Birch Sawtimber									
Aspen									
6	1	0	3	3	0	0	0		
13	0	0	5	3	0	0	0	19	12
Sum	1	0	8	6	0	0	0	19	12
Balsam Poplar									
6	1	0	1	1	0	0	0		
7	1	0	2	2	0	0	0		
8	1	0	5	5	0	0	0		
10	0	0	3	3	0	0	0	4	5
11	0	0	3	3	0	0	0	6	6
12	0	0	8	4	0	0	0	30	17
13	0	0	8	3	0	0	0	32	14
15	0	0	12	11	0	0	0	56	52
16	0	0	3	1	0	0	0	12	6
Sum	4	2	45	34	1	1	2	140	99
Birch									
5	5	1	10	9	0	0	0		
6	6	1	16	12	0	0	1		
7	8	2	39	32	1	1	2		
8	8	3	53	47	1	1	2		
9	6	3	63	52	2	1	2	60	52
10	7	4	83	67	2	2	3	176	140
11	9	6	124	101	3	3	5	455	371
12	6	5	102	78	3	2	4	414	317
13	4	4	89	72	2	2	3	385	314
14	2	2	48	32	1	1	2	213	141
15	1	1	28	19	1	0	1	130	88
16	2	2	39	31	1	1	2	194	151
17	1	1	18	12	0	0	1	85	57
18	0	0	9	5	0	0	1	46	22
19	0	0	2	2	0	0	0	13	12
24	0	0	0	0	0	0	0	0	0
Sum	65	36	722	570	18	14	29	2,170	1,667
Black Spruce									
6	1	0	1	1	0	0	0		
7	1	0	4	3	0	0	0		
9	0	0	5	4	0	0	0	9	8
11	0	0	7	5	0	0	0	30	20

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
12	0	0	2	2	0	0	0	11	9
Sum	3	1	18	15	0	0	1	49	37
White Spruce									
5	4	1	9	8	0	0	0		
6	7	2	20	16	0	0	1		
7	21	6	91	86	2	1	4		
8	10	4	72	69	1	1	3		
9	12	5	112	101	2	2	4	327	292
10	10	6	139	116	2	2	4	569	475
11	8	5	135	121	2	2	4	572	515
12	7	6	143	129	2	2	5	633	574
13	6	6	157	151	3	3	4	727	699
14	5	4	116	107	2	2	4	547	505
15	4	5	151	146	3	2	5	738	712
16	3	4	132	129	2	2	4	669	654
17	3	4	112	104	2	2	4	564	527
18	2	3	96	93	2	2	3	498	481
19	1	2	48	46	1	1	1	248	238
20	1	2	53	49	1	1	3	273	255
21	1	1	32	31	1	1	1	176	169
22	2	2	63	51	1	1	4	333	276
23	0	0	5	5	0	0	0	31	31
24	1	1	24	23	0	0	2	127	124
Sum	108	68	1,708	1,582	29	27	60	7,029	6,527
Totals for stratum White Spruce-Birch Sawtimber									
	181	107	2,502	2,207	49	42	92	9,408	8,342
Stratum 10 White Spruce-Birch Poletimber									
Aspen									
10	0	0	1	1	0	0	0	2	2
11	0	0	5	5	0	0	0	18	18
12	0	0	2	1	0	0	0	9	5
13	0	0	1	1	0	0	0	6	6
14	0	0	2	2	0	0	0	9	9
15	0	0	2	2	0	0	0	9	9
Sum	1	1	14	13	0	0	0	53	49
Balsam Poplar									
9	0	0	2	2	0	0	0	2	2
11	0	0	2	2	0	0	0	6	5
16	0	0	2	2	0	0	0	11	11
17	0	0	5	2	0	0	0	23	11
Sum	1	1	11	8	0	0	0	42	29
Birch									
5	16	2	18	14	0	0	1		
6	18	4	44	39	1	1	2		
7	23	6	99	86	2	2	4		
8	17	6	100	86	3	2	4		
9	12	5	102	87	3	2	4	70	57
10	6	3	71	60	2	1	3	155	129
11	5	3	50	40	1	1	2	183	149

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
12	3	2	41	34	1	1	2	181	149
13	2	1	25	21	1	1	1	103	86
14	1	1	22	17	1	0	1	95	75
15	1	1	13	10	0	0	1	61	44
16	1	1	6	3	0	0	1	32	19
17	0	0	2	2	0	0	0	14	12
20	0	0	2	2	0	0	0	10	9
Sum	104	36	595	500	15	12	28	904	728
Black Spruce									
5	8	1	11	11	0	0	1		
6	7	1	14	14	0	0	1		
7	7	2	23	22	0	0	1		
8	5	2	26	25	0	0	1		
9	1	0	7	6	0	0	0		
10	0	0	7	7	0	0	0	30	29
11	0	0	3	3	0	0	0	13	13
12	0	0	8	8	0	0	0	35	34
13	0	0	2	1	0	0	0	7	7
17	0	0	3	3	0	0	0	14	14
24	0	0	2	2	0	0	0	13	12
Sum	28	7	106	101	2	2	5	112	109
White Spruce									
5	12	2	18	18	0	0	1		
6	14	3	36	35	1	1	2		
7	15	4	68	66	1	1	3		
8	13	5	82	79	1	1	3		
9	11	5	94	91	2	2	4	270	259
10	6	4	84	80	1	1	3	342	325
11	6	4	94	91	2	2	3	404	390
12	3	3	65	62	1	1	2	289	275
13	4	4	98	92	2	2	3	448	421
14	2	2	68	66	1	1	2	320	312
15	2	2	65	62	1	1	2	312	298
16	1	1	28	27	0	0	1	138	134
17	1	1	32	31	1	1	1	158	154
18	1	1	29	26	0	0	1	153	136
19	0	0	4	4	0	0	0	23	22
20	0	1	20	19	0	0	1	106	102
21	0	0	8	8	0	0	0	42	42
22	0	1	25	25	0	0	1	139	137
24	0	0	9	9	0	0	0	53	54
Sum	91	43	926	891	16	15	32	3,197	3,062
Totals for stratum White Spruce-Birch Poletimber									
	224	87	1,652	1,513	33	30	65	4,308	3,977
Stratum 11 White Spruce-Birch-Aspen Sawtimber									
Aspen									
5	4	1	10	8	0	0	0		
6	23	5	87	85	2	2	3		
7	9	2	48	45	1	1	2		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
8	5	2	38	32	1	1	1		
9	9	4	89	81	2	2	3	90	79
10	5	3	70	64	1	1	2	146	132
11	0	0	10	5	0	0	0	47	23
12	1	1	21	21	0	0	1	80	80
13	1	2	50	47	1	1	1	217	202
14	1	1	24	24	1	1	1	96	95
15	0	0	9	9	0	0	0	30	30
17	0	1	16	15	0	0	1	65	59
Sum	60	21	474	437	10	9	17	770	700
Balsam Poplar									
7	3	1	7	4	0	0	0		
8	2	1	15	15	0	0	1		
9	1	0	9	5	0	0	0	7	3
10	2	1	13	7	0	0	1	15	12
11	0	0	7	3	0	0	0	25	12
12	2	1	29	22	1	0	1	110	81
13	1	1	31	23	1	0	1	130	94
14	1	1	14	11	0	0	1	57	47
15	1	1	16	11	0	0	1	74	49
16	0	1	16	11	0	0	1	77	51
17	0	0	8	4	0	0	0	43	21
Sum	13	8	166	116	4	3	7	536	371
Birch									
5	9	1	15	15	0	0	1		
6	5	1	15	15	0	0	1		
7	8	2	46	46	1	1	2		
8	2	1	16	14	0	0	1		
9	5	2	34	33	1	1	2	11	11
10	3	2	34	33	1	1	1	66	65
11	4	3	53	49	1	1	2	203	189
12	2	1	34	33	1	1	1	146	141
13	2	2	42	38	1	1	2	180	161
14	2	3	64	53	2	1	2	281	233
15	3	3	79	77	2	2	3	358	347
16	1	1	25	25	1	1	1	121	119
18	0	0	9	9	0	0	0	46	44
Sum	46	23	467	441	12	11	18	1,412	1,309
White Spruce									
5	15	2	24	24	0	0	1		
6	29	6	87	86	1	1	4		
7	17	5	77	76	1	1	3		
8	19	7	136	135	2	2	5		
9	9	4	100	98	2	2	3	213	205
10	10	5	114	114	2	2	4	466	463
11	7	5	119	116	2	2	4	508	491
12	7	6	140	137	2	2	4	624	613
13	6	5	135	134	2	2	4	621	615
14	2	2	63	62	1	1	2	299	297
15	2	2	59	52	1	1	2	294	259

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
16	2	3	86	85	1	1	2	435	430
17	1	1	39	30	1	1	1	205	160
18	1	1	46	46	1	1	2	239	238
19	0	1	24	24	0	0	1	130	130
20	1	3	88	88	2	2	3	479	478
21	0	0	8	8	0	0	0	44	44
22	0	1	21	19	0	0	1	107	99
23	0	0	8	8	0	0	0	43	43
Sum	129	59	1,374	1,342	23	23	46	4,707	4,566
Totals for stratum	White Spruce-Birch-Aspen Sawtimber								
	248	111	2,481	2,336	49	46	88	7,425	6,947
Stratum 12	White Spruce-Birch-Aspen Poletimber								
Aspen									
5	7	1	14	14	0	0	1		
6	5	1	17	13	0	0	1		
7	6	2	30	25	1	1	1		
8	4	1	28	23	1	0	1		
9	3	1	32	32	1	1	1	31	31
10	2	1	26	24	1	1	1	59	55
11	2	1	36	34	1	1	1	119	114
12	2	1	38	36	1	1	1	142	137
13	1	1	29	28	1	1	1	117	111
17	0	0	10	8	0	0	0	41	34
Sum	31	12	259	238	6	5	9	509	483
Birch									
5	10	2	14	14	0	0	1		
6	22	4	62	57	2	1	3		
7	20	6	92	84	2	2	4		
8	9	3	59	54	1	1	2		
9	11	5	99	88	2	2	4	55	48
10	7	3	69	58	2	1	3	143	120
11	6	3	58	49	1	1	3	199	172
12	1	1	20	17	0	0	1	80	69
13	3	2	41	35	1	1	2	168	141
14	1	1	23	19	1	0	1	88	76
15	1	1	13	9	0	0	1	56	39
16	0	0	1	1	0	0	0	0	0
18	0	0	3	2	0	0	0	16	12
20	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	3	0
Sum	91	31	554	487	14	12	25	810	676
Black Spruce									
5	4	1	5	4	0	0	0		
6	6	1	15	14	0	0	1		
7	8	2	33	30	1	1	2		
8	6	2	40	37	1	1	2		
9	2	1	15	14	0	0	1	24	21
10	4	2	45	42	1	1	2	184	171
11	1	0	10	8	0	0	0	42	34

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
12	1	1	17	16	0	0	1	78	73
13	0	0	2	1	0	0	0	8	7
Sum	31	10	181	167	3	3	7	336	306
White Spruce									
5	7	1	16	16	0	0	1		
6	21	4	59	58	1	1	3		
7	13	3	60	60	1	1	2		
8	13	5	81	78	1	1	3		
9	10	5	95	88	2	2	3	182	167
10	10	5	115	113	2	2	4	472	463
11	6	4	98	96	2	2	3	412	403
12	4	3	70	70	1	1	2	310	308
13	4	3	76	75	1	1	3	344	342
14	3	3	91	87	2	1	3	435	416
15	1	1	24	24	0	0	1	118	118
16	2	3	73	73	1	1	2	361	361
17	0	1	25	25	0	0	1	128	128
18	0	0	12	12	0	0	0	66	66
19	0	0	13	12	0	0	0	64	62
20	0	0	5	5	0	0	0	28	28
21	0	0	8	8	0	0	0	40	40
22	0	0	13	13	0	0	0	68	67
Sum	93	42	931	912	16	16	33	3,028	2,970
Totals for stratum White Spruce-Birch-Aspen Poletimber									
	246	96	1,925	1,804	38	36	74	4,682	4,434
Stratum 13 White Spruce-Balsam Poplar									
Aspen									
5	3	1	4	3	0	0	0		
6	2	1	10	10	0	0	0		
7	4	1	19	15	0	0	1		
8	1	1	11	11	0	0	0		
11	1	1	13	13	0	0	0	39	39
12	1	1	13	11	0	0	0	49	44
13	1	1	14	14	0	0	0	54	54
Sum	13	4	83	77	2	2	3	142	137
Balsam Poplar									
5	8	2	16	16	0	0	1		
6	26	5	54	48	1	1	4		
7	22	6	97	93	2	2	4		
8	12	5	71	59	2	1	3		
9	12	5	92	76	2	2	4	19	11
10	9	5	90	74	2	2	4	162	134
11	8	5	103	88	2	2	4	262	222
12	7	5	96	75	2	2	5	295	233
13	5	4	79	53	2	1	4	282	193
14	2	2	23	11	0	0	2	88	45
15	2	2	41	27	1	1	3	169	114
16	1	1	17	13	0	0	1	76	60
18	1	1	11	8	0	0	1	62	39

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
19	1	1	8	5	0	0	1	58	32
Sum	116	50	798	648	17	14	41	1,471	1,083
Birch									
5	5	1	11	10	0	0	1		
6	12	2	36	32	1	1	2		
8	7	2	68	68	2	2	2		
9	4	2	32	32	1	1	1	44	44
10	4	2	29	29	1	1	2	52	52
11	2	1	28	28	1	1	1	87	87
12	1	1	13	13	0	0	1	44	44
Sum	36	12	217	213	5	5	9	227	227
Black Spruce									
6	1	0	3	3	0	0	0		
Sum	1	0	3	3	0	0	0		
White Spruce									
5	18	2	28	28	0	0	2		
6	31	6	100	100	2	2	4		
7	16	4	74	73	1	1	3		
8	11	4	78	76	1	1	3		
9	14	6	123	120	2	2	5	229	225
10	7	3	58	57	1	1	3	231	230
11	3	2	30	30	1	1	1	126	125
12	1	1	16	16	0	0	1	68	68
13	2	1	37	37	1	1	1	171	171
14	0	1	17	17	0	0	0	81	81
15	0	0	7	7	0	0	0	37	37
16	2	1	12	12	0	0	2	62	61
19	2	1	10	9	0	0	3	53	46
Sum	107	32	589	582	10	10	29	1,059	1,044
Totals for stratum White Spruce-Balsam Poplar									
	274	97	1,690	1,522	34	31	82	2,899	2,491
Stratum 14 Black and White Spruce-Birch-Aspen									
Aspen									
5	7	1	16	15	0	0	1		
6	7	1	24	22	1	0	1		
7	6	2	31	29	1	1	1		
8	4	1	24	20	1	0	1		
10	2	1	23	21	1	0	1	41	38
11	0	0	9	8	0	0	0	30	28
12	0	0	8	7	0	0	0	30	29
14	0	0	13	12	0	0	0	53	50
15	0	0	8	7	0	0	0	35	30
Sum	27	8	155	142	3	3	6	190	175
Balsam Poplar									
8	1	0	5	5	0	0	0		
10	1	1	11	9	0	0	0	18	15
12	1	1	24	20	1	0	1	83	71
13	1	1	13	11	0	0	0	49	44
Sum	4	3	53	46	1	1	2	150	130

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Birch									
5	8	1	11	10	0	0	1		
6	21	4	52	43	1	1	3		
7	14	4	58	57	1	1	3		
8	15	5	88	78	2	2	4		
9	11	5	78	70	2	2	4	46	40
10	6	3	39	28	1	1	2	81	54
11	4	2	44	39	1	1	2	157	139
12	1	1	9	6	0	0	0	37	22
13	0	0	7	7	0	0	0	29	29
Sum	79	25	388	338	10	8	19	350	284
Black Spruce									
5	8	1	13	12	0	0	1		
6	19	4	49	37	1	1	3		
7	8	2	32	30	1	1	2		
8	5	2	36	36	1	1	1		
9	6	2	43	39	1	1	2	38	25
10	1	0	14	14	0	0	0	56	56
11	0	0	13	11	0	0	0	61	50
Sum	48	12	201	179	3	3	9	156	131
White Spruce									
5	7	1	12	12	0	0	1		
6	21	4	38	37	1	1	3		
7	14	4	59	49	1	1	3		
8	21	7	149	134	3	2	5		
9	6	3	64	56	1	1	2	73	71
10	9	5	125	123	2	2	4	498	491
11	7	5	114	108	2	2	3	467	440
12	3	2	59	59	1	1	2	260	259
13	1	0	7	7	0	0	0	33	33
14	2	2	37	27	1	0	2	169	123
15	1	1	26	26	0	0	1	126	126
18	0	0	9	9	0	0	0	45	45
Sum	92	34	698	646	12	11	26	1,671	1,587
Totals for stratum	Black and White Spruce-Birch-Aspen								
	251	82	1,494	1,351	29	27	61	2,516	2,306
Stratum 15	White Spruce-Hardwood Reproduction								
Aspen									
5	4	1	5	5	0	0	0		
6	7	1	15	15	0	0	1		
7	5	1	25	25	1	1	1		
8	1	0	5	5	0	0	0		
9	2	1	22	21	0	0	1	15	15
10	0	0	3	3	0	0	0	5	5
11	0	0	7	6	0	0	0	27	24
12	1	1	17	16	0	0	1	67	63
14	0	0	8	7	0	0	0	35	31
15	0	0	4	4	0	0	0	18	17
Sum	21	6	111	107	2	2	5	167	155

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Balsam Poplar									
5	6	1	6	6	0	0	1		
6	1	0	2	2	0	0	0		
7	1	0	3	4	0	0	0		
8	2	1	10	9	0	0	0		
9	0	0	1	1	0	0	0		
10	1	1	11	11	0	0	0	24	23
12	1	0	10	9	0	0	0	32	30
13	1	0	10	8	0	0	0	28	23
Sum	12	4	53	50	1	1	3	84	75
Birch									
5	24	4	37	37	1	1	2		
6	12	2	22	21	1	1	2		
7	2	1	10	10	0	0	0		
8	0	0	3	2	0	0	0		
9	1	0	5	5	0	0	0	4	3
12	1	1	7	6	0	0	0	29	27
Sum	40	7	83	80	2	2	5	33	30
Black Spruce									
8	1	0	10	10	0	0	0		
9	1	0	6	6	0	0	0		
Sum	2	1	16	16	0	0	1		
White Spruce									
5	19	3	26	26	0	0	1		
6	15	3	36	36	1	1	2		
7	3	1	13	13	0	0	1		
8	5	2	28	28	0	0	1		
9	1	0	6	6	0	0	0	18	18
10	1	0	10	10	0	0	0	42	42
11	3	2	37	34	1	1	2	164	149
12	0	0	8	8	0	0	0	34	34
Sum	47	11	166	162	3	3	8	259	244
Totals for stratum White Spruce-Hardwood Reproduction									
	122	29	429	416	9	8	21	542	503
Stratum 16 Black and White Spruce-Hardwood Reproduction									
Birch									
5	3	0	5	4	0	0	0		
6	3	1	7	6	0	0	0		
7	1	0	6	6	0	0	0		
10	0	0	1	1	0	0	0	2	2
11	0	0	4	4	0	0	0	12	12
Sum	8	2	23	21	1	1	1	14	14
Black Spruce									
5	18	3	22	22	0	0	1		
6	15	3	33	32	1	1	2		
7	6	2	21	21	0	0	1		
8	2	1	10	9	0	0	0		
9	1	0	5	5	0	0	0		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
10	0	0	4	4	0	0	0	16	15
Sum	42	8	95	92	2	2	5	16	15
White Spruce									
5	5	1	9	9	0	0	0		
6	2	1	7	7	0	0	0		
7	6	2	23	23	0	0	1		
8	1	0	7	7	0	0	0		
9	2	1	13	13	0	0	1	10	10
11	0	0	3	1	0	0	0	13	6
12	1	1	8	8	0	0	1	34	34
13	1	0	5	5	0	0	1	19	19
17	0	0	5	5	0	0	0	27	27
Sum	20	6	78	77	1	1	4	103	96
Totals for stratum	Black and White Spruce-Hardwood Reproduction								
	70	16	196	190	4	3	11	133	126

Volume Unit 1 For Trees Greater Than or Equal to 1.5" dbh and Less Than 5" dbh

DBH	Trees	Biomass Tons
Stratum 1	White Spruce Sawtimber	
Balsam Poplar		
3	5	0
4	2	0
Sum	7	0
Birch		
2	12	0
3	33	1
4	22	1
Sum	67	1
Black Spruce		
2	2	
Sum	2	
White Spruce		
2	17	0
3	15	0
4	10	0
5	10	1
Sum	52	2
Totals for stratum	White Spruce Sawtimber	
	127	3
Stratum 2	White Spruce Poletimber	
Aspen		
4	2	0
Sum	2	0
Birch		
2	24	0
3	7	0
4	2	0
Sum	33	1
Black Spruce		
2	19	0
3	6	0
4	19	1
5	6	1
Sum	48	2
White Spruce		
2	59	1
3	50	1
4	35	2
5	15	1
Sum	159	5
Totals for stratum	White Spruce Poletimber	
	243	8
Stratum 3	Birch Closed	

DBH	Trees	Biomass Tons
Aspen		
4	2	0
5	3	0
Sum	5	0
Balsam Poplar		
2	1	
3	1	0
Sum	2	0
Birch		
2	50	1
3	59	2
4	68	4
5	39	3
Sum	216	10
Black Spruce		
2	3	0
3	2	0
4	3	0
Sum	9	0
White Spruce		
2	38	0
3	28	0
4	15	1
5	8	1
Sum	89	2
Totals for stratum Birch Closed	320	12
Stratum 4 Birch Open		
Birch		
2	6	
3	56	1
4	22	1
Sum	83	2
White Spruce		
2	17	0
3	17	0
5	6	0
Sum	39	1
Totals for stratum Birch Open	122	3
Stratum 5 Aspen Closed		
Aspen		
2	10	0
3	27	0
4	48	2
5	40	3
Sum	125	6

DBH	Trees	Biomass Tons
Balsam Poplar		
3	2	0
Sum	2	0
Birch		
2	38	0
3	33	1
4	29	1
5	23	2
Sum	123	4
Black Spruce		
2	4	0
3	4	0
4	2	0
5	6	0
Sum	15	1
White Spruce		
2	42	0
3	33	0
4	15	1
5	6	1
Sum	96	2
Totals for stratum Aspen Closed	362	12
Stratum 6 Aspen Open		
Aspen		
2	25	0
4	475	
Sum	500	0
Balsam Poplar		
4	50	4
Sum	50	4
Birch		
3	25	1
Sum	25	1
White Spruce		
2	675	
3	375	1
4	275	10
Sum	1,325	10
Totals for stratum Aspen Open	1,900	15
Stratum 7 Birch-Aspen Closed		
Aspen		
2	13	0
3	14	0
4	16	1
5	5	0

DBH	Trees	Biomass Tons
Sum	47	1
Birch		
2	59	0
3	56	1
4	31	2
5	19	2
Sum	166	5
Black Spruce		
2	8	0
3	6	0
4	6	0
5	3	0
Sum	23	1
White Spruce		
2	23	0
3	11	0
4	9	1
5	6	0
Sum	50	1
Totals for stratum Birch-Aspen Closed	286	8
Stratum 8 Birch-Aspen Open		
Aspen		
2	50	
3	17	0
4	8	0
5	17	1
Sum	92	1
Birch		
2	17	0
4	8	1
Sum	25	1
White Spruce		
2	8	
4	8	0
Sum	17	0
Totals for stratum Birch-Aspen Open	133	2
Stratum 9 White Spruce-Birch Sawtimber		
Balsam Poplar		
2	2	
Sum	2	
Birch		
2	17	0
3	7	0
4	13	1
5	4	0

DBH	Trees	Biomass Tons
Sum	41	1
White Spruce		
2	17	
3	20	0
4	11	0
5	7	1
6	2	0
Sum	57	1
Totals for stratum White Spruce-Birch Sawtimber	100	2
Stratum 10 White Spruce-Birch Poletimber		
Birch		
2	27	0
3	22	1
4	15	1
5	4	0
Sum	68	2
Black Spruce		
2	19	0
3	12	0
4	16	1
5	4	0
Sum	51	2
White Spruce		
2	31	0
3	22	0
4	20	1
5	4	0
Sum	77	2
Totals for stratum White Spruce-Birch Poletimber	196	5
Stratum 11 White Spruce-Birch-Aspen Sawtimber		
Aspen		
4	8	
Sum	8	
Birch		
3	12	0
Sum	12	0
White Spruce		
2	42	0
3	35	1
4	23	1
5	8	1
Sum	108	3
Totals for stratum White Spruce-Birch-Aspen Sawtimber	127	3
Stratum 12 White Spruce-Birch-Aspen Poletimber		

DBH	Trees	Biomass Tons
Aspen		
3	4	0
5	4	0
Sum	9	1
Birch		
2	28	1
3	28	1
4	43	2
5	13	1
Sum	113	4
Black Spruce		
2	17	
3	11	0
4	2	0
5	2	0
Sum	33	1
White Spruce		
2	24	0
3	22	0
4	11	1
5	11	1
Sum	67	2
Totals for stratum	White Spruce-Birch-Aspen Poletimber	
	222	7
Stratum 13	White Spruce-Balsam Poplar	
Balsam Poplar		
3	31	2
Sum	31	2
Birch		
2	13	0
3	19	0
4	6	0
5	6	1
Sum	44	2
Black Spruce		
2	6	
3	6	0
4	13	1
Sum	25	1
White Spruce		
2	150	2
3	63	2
4	50	3
5	19	1
Sum	281	8
Totals for stratum	White Spruce-Balsam Poplar	
	381	12

DBH	Trees	Biomass Tons
Stratum 14	Black and White Spruce-Birch-Aspen	
Aspen		
3	4	0
5	7	1
Sum	11	1
Birch		
2	46	0
3	29	1
4	18	1
5	7	1
Sum	100	3
Black Spruce		
2	4	0
3	7	0
4	7	0
5	11	1
Sum	29	1
White Spruce		
2	18	0
3	21	0
4	7	0
5	7	0
Sum	54	1
Totals for stratum	Black and White Spruce-Birch-Aspen	
	193	6
Stratum 15	White Spruce-Hardwood Reproduction	
Aspen		
2	40	0
3	42	1
4	13	1
5	6	0
Sum	100	2
Balsam Poplar		
2	15	0
3	8	0
4	17	1
5	10	1
Sum	50	2
Birch		
2	200	4
3	156	5
4	102	6
5	27	2
Sum	485	17
Black Spruce		
2	17	
3	10	0

DBH	Trees	Biomass Tons
4	6	0
5	4	0
Sum	38	1
White Spruce		
2	117	1
3	90	2
4	40	2
5	13	1
Sum	258	6
Totals for stratum White Spruce-Hardwood Reproduction	931	28
Stratum 16 Black and White Spruce-Hardwood Reproduction		
Birch		
2	17	0
3	20	0
4	11	0
5	2	0
Sum	50	1
Black Spruce		
2	624	2
3	398	7
4	161	6
5	24	2
Sum	1,207	17
Tamarack		
3	4	0
Sum	4	0
White Spruce		
2	89	1
3	46	1
4	20	1
5	4	0
Sum	159	3
Totals for stratum Black and White Spruce-Hardwood Reproduction	1,420	21

Volume Unit 2 For Trees Greater Than or Equal to 5" dbh

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Stratum 1	White Spruce Sawtimber								
Aspen									
5	1	0	1	1	0	0	0		
Sum	1	0	1	1	0	0	0		
Balsam Poplar									
5	3	0	2	2	0	0	0		
8	1	0	0	1	0	0	0		
9	1	1	10	9	0	0	0	3	2
10	0	0	3	3	0	0	0	2	2
11	0	0	3	1	0	0	0	0	0
12	0	0	3	3	0	0	0	5	5
Sum	5	2	20	18	0	0	1	10	9
Birch									
8	1	0	3	1	0	0	0		
11	1	1	9	7	0	0	1	34	26
12	0	0	3	0	0	0	0	14	1
15	0	0	0	0	0	0	0	0	0
Sum	3	2	16	8	0	0	1	47	27
Black Spruce									
5	6	1	9	8	0	0	0		
6	6	1	15	13	0	0	1		
7	3	1	13	13	0	0	0		
8	2	1	15	14	0	0	1		
Sum	16	4	51	48	1	1	2		
White Spruce									
5	24	4	52	51	1	1	2		
6	44	9	136	130	2	2	6		
7	43	12	205	201	3	3	8		
8	35	13	257	255	4	4	9		
9	30	14	290	284	5	5	10	651	632
10	22	12	290	283	5	5	9	1,172	1,143
11	14	9	203	195	3	3	7	862	827
12	12	9	228	226	4	4	8	991	982
13	10	9	232	223	4	4	8	1,058	1,015
14	7	6	163	156	3	3	6	778	741
15	5	5	147	142	2	2	5	702	679
16	5	5	114	109	2	2	6	557	532
17	2	3	73	71	1	1	3	369	359
18	3	3	84	83	1	1	4	431	431
19	1	1	23	23	0	0	1	107	106
20	1	1	35	33	1	1	2	175	161
22	0	0	13	12	0	0	0	76	72
Sum	258	116	2,546	2,477	43	42	95	7,928	7,679
Totals for stratum	White Spruce Sawtimber								
	283	123	2,635	2,552	45	44	100	7,986	7,716
Stratum 2	White Spruce Poletimber								
Aspen									

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
9	1	0	3	1	0	0	0		
Sum	1	0	3	1	0	0	0		
Birch									
8	2	1	11	9	0	0	0		
11	0	0	2	2	0	0	0	5	6
12	0	0	1	0	0	0	0	8	7
Sum	2	1	14	12	0	0	1	13	12
Black Spruce									
5	10	1	11	10	0	0	1		
6	6	1	12	12	0	0	1		
7	3	1	5	5	0	0	1		
9	2	1	12	12	0	0	1		
Sum	21	4	40	38	1	1	3		
White Spruce									
5	38	6	51	51	1	1	3		
6	66	13	159	157	3	3	9		
7	44	12	198	194	3	3	8		
8	44	16	300	293	5	5	11		
9	21	9	179	173	3	3	7	349	334
10	17	10	202	197	3	3	7	825	799
11	7	5	115	112	2	2	3	491	478
12	3	3	77	68	1	1	2	332	294
13	2	2	55	52	1	1	2	245	233
14	1	1	37	35	1	1	1	177	167
15	1	2	58	54	1	1	1	286	266
16	1	1	25	24	0	0	1	117	110
17	0	1	7	7	0	0	0	27	28
18	0	0	0	0	0	0	0	0	0
19	0	1	20	16	0	0	0	93	75
Sum	246	83	1,483	1,432	25	24	56	2,942	2,783
Totals for stratum White Spruce Poletimber									
	271	88	1,540	1,483	26	25	60	2,955	2,796
Stratum 3 Birch Closed									
Aspen									
13	1	1	12	11	0	0	0	48	43
Sum	1	1	12	11	0	0	0	48	43
Birch									
5	20	3	28	24	1	1	1		
6	43	9	88	76	2	2	5		
7	44	12	160	136	4	3	7		
8	21	7	69	58	2	1	5		
9	11	4	77	65	2	2	3	50	40
10	10	5	81	56	2	1	4	167	110
11	1	1	23	23	1	1	1	87	87
12	2	1	18	14	0	0	1	67	53
13	1	1	19	14	0	0	1	86	60
14	1	1	25	20	1	0	1	109	87
18	1	1	21	16	1	0	1	108	81
Sum	154	46	608	500	15	13	30	675	518

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Black Spruce									
5	13	2	19	18	0	0	1		
7	8	2	31	29	1	1	1		
8	3	1	19	19	0	0	1		
Sum	23	5	70	67	1	1	3		
White Spruce									
5	7	1	12	12	0	0	1		
6	3	0							
7	12	4	60	59	1	1	2		
8	6	2	38	38	1	1	2		
9	1	0	6	6	0	0	0		
10	3	2	43	39	1	1	1	169	153
11	3	2	43	45	1	1	1	43	51
12	3	3	55	42	1	1	2	241	186
17	1	2	33	10	1	0	2	158	47
Sum	40	16	290	251	5	4	11	611	436
Totals for stratum Birch Closed	219	68	979	828	22	18	45	1,333	998
Stratum 4 Birch Open									
Birch									
6	11	2	14	11	0	0	1		
7	20	5	67	59	2	1	3		
8	12	4	51	42	1	1	3		
9	19	9	104	97	3	2	6	115	106
10	12	7	102	90	3	2	5	255	217
11	8	6	90	84	2	2	4	335	299
12	3	3	24	20	1	0	2	149	130
13	1	1	1	0	0	0	1	0	0
15	0	1	2	2	0	0	0	46	45
16	0	1	25	22	1	1	0	140	129
Sum	86	40	480	427	12	11	25	1,040	927
Black Spruce									
11	1	0	4	1	0	0	0	20	6
Sum	1	0	4	1	0	0	0	20	6
White Spruce									
6	11	3	34	34	1	1	1		
7	5	1	23	23	0	0	1		
8	3	1	19	19	0	0	1		
9	7	3	56	55	1	1	2	38	33
10	1	1	13	13	0	0	1	54	54
11	2	1	29	27	0	0	1	126	117
12	1	1	11	11	0	0	0	47	49
13	0	1	14	14	0	0	0	63	64
14	1	1	35	36	1	1	1	165	167
15	1	1	21	21	0	0	1	101	101
19	1	1	21	21	0	0	1	104	104
Sum	33	14	275	273	5	5	10	698	688

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Totals for stratum Birch Open	120	54	759	701	17	15	36	1,759	1,621
Stratum 5 Aspen Closed									
Aspen									
5	38	6	53	53	1	1	3		
6	45	9	110	107	2	2	5		
7	35	9	118	102	3	2	6		
8	16	6	116	112	3	2	4		
9	4	2	54	52	1	1	1	77	75
10	3	2	47	47	1	1	1	101	100
11	5	3	81	80	2	2	3	272	268
12	4	3	79	71	2	2	3	219	205
13	2	1	31	29	1	1	2	117	107
14	1	1	17	12	0	0	1	68	48
16	2	1	34	31	1	1	2	133	122
17	2	1	32	30	1	1	2	128	117
Sum	158	45	773	726	17	16	35	1,116	1,042
Balsam Poplar									
6	6	1	8	8	0	0	1		
7	5	2	21	21	0	0	1		
8	7	3	42	40	1	1	2		
9	5	2	36	32	1	1	1		
10	4	2	31	30	1	1	2	42	40
11	5	4	64	64	1	1	3	134	133
12	3	2	32	30	1	1	2	92	88
13	3	3	46	46	1	1	2	158	158
Sum	37	18	280	270	6	6	13	426	419
Birch									
6	5	1	9	8	0	0	1		
Sum	5	1	9	8	0	0	1		
White Spruce									
5	20	3	34	32	1	1	2		
6	12	2	30	30	1	1	1		
7	9	3	37	36	1	1	2		
8	6	2	32	32	1	1	2		
9	2	1	14	14	0	0	1		
10	3	2	50	50	1	1	1	203	203
11	0	1	12	12	0	0	0	56	56
13	1	1	18	17	0	0	1	79	75
Sum	54	14	227	224	4	4	9	338	334
Totals for stratum Aspen Closed	254	79	1,288	1,228	27	25	58	1,880	1,795
Stratum 6 Aspen Open									
Aspen									
5	28	4	30	30	1	1	2		
6	17	3	33	32	1	1	2		
7	29	8	108	104	2	2	5		
8	27	9	97	90	2	2	6		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
9	4	2	25	25	1	1	1	16	16
10	3	2	36	36	1	1	1	63	61
Sum	108	28	329	316	7	7	17	79	77
White Spruce									
5	11	2	14	14	0	0	1		
6	9	2	14	14	0	0	1		
7	7	2	19	19	0	0	1		
9	2	1	15	15	0	0	1	77	78
11	1	1	19	19	0	0	1	78	78
12	3	3	45	45	1	1	2	198	198
15	1	1	20	20	0	0	1	98	98
16	0	1	21	20	0	0	1	108	101
17	4	2	31	31	1	1	5	147	147
Sum	38	13	197	196	3	3	12	705	700
Totals for stratum Aspen Open	146	41	526	512	10	10	30	784	778
Stratum 7 Birch-Aspen Closed									
Aspen									
5	23	3	38	37	1	1	2		
6	24	5	55	53	1	1	3		
7	21	6	92	92	2	2	4		
8	2	1	11	12	0	0	0		
9	6	3	51	49	1	1	2	25	24
10	2	1	25	24	1	1	1	60	56
11	3	2	53	48	1	1	2	186	168
Sum	80	21	325	315	7	7	13	271	249
Balsam Poplar									
5	13	2	14	14	0	0	1		
6	2	0	5	5	0	0	0		
7	1	0	4	4	0	0	0		
8	1	0	5	5	0	0	0		
Sum	16	3	27	27	1	1	2		
Birch									
5	22	4	32	29	1	1	2		
6	48	10	109	105	3	3	6		
7	14	4	48	46	1	1	2		
8	10	3	43	39	1	1	2		
9	12	5	68	63	2	2	4	26	20
10	5	3	38	28	1	1	2	80	57
11	1	1	21	19	1	0	1	71	64
12	1	0	7	7	0	0	0	23	23
Sum	114	29	364	337	9	8	19	200	164
Black Spruce									
6	3	1	6	6	0	0	0		
8	1	1	7	6	0	0	0		
10	1	1	9	9	0	0	0	39	39
11	1	1	10	10	0	0	0	45	45
Sum	6	2	32	31	1	1	1	84	84

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
White Spruce									
5	15	2	25	25	0	0	1		
6	28	6	69	69	1	1	4		
7	20	5	69	68	1	1	4		
8	8	3	52	52	1	1	2		
9	11	4	81	81	1	1	3	78	78
10	7	4	91	91	2	2	3	388	388
11	2	1	27	27	0	0	1	114	114
12	1	1	22	21	0	0	1	96	93
13	1	1	22	21	0	0	1	102	93
15	1	1	37	35	1	1	1	180	171
16	0	1	37	37	1	1	1	180	180
Sum	94	30	533	527	9	9	20	1,138	1,118
Totals for stratum Birch-Aspen Closed	310	85	1,281	1,238	26	25	56	1,693	1,615
Stratum 8 Birch-Aspen Open									
Aspen									
7	14	5	36	36	1	1	3		
9	13	6	172	161	4	3	4	259	250
14	7	5	141	138	3	3	7	420	418
16	6	5	139	130	3	3	8	424	397
Sum	41	22	488	464	10	10	22	1,104	1,066
Balsam Poplar									
7	18	5	46	51	1	1	3		
8	2	1							
9	30	14	221	199	5	4	10	42	38
Sum	51	20	267	250	6	5	14	42	38
Birch									
5	14	3	22	13	1	0	1		
6	30	6	52	26	1	1	3		
7	23	6	48	30	1	1	4		
8	14	4	42	30	1	1	3		
9	10	4	29	23	1	1	3	75	53
10	6	3	22	15	1	0	2	88	62
12	5	3	39	39	1	1	3	161	156
Sum	101	30	254	177	6	4	18	324	271
White Spruce									
6	29	5	38	38	1	1	3		
10	8	5	83	83	1	1	3	364	364
11	7	5	95	95	2	2	4	405	405
Sum	44	14	216	216	4	4	10	769	769
Totals for stratum Birch-Aspen Open	236	86	1,226	1,108	26	23	63	2,239	2,144
Stratum 9 White Spruce-Birch Sawtimber									
Birch									
5	13	2	18	15	0	0	1		
6	12	2	31	29	1	1	1		
7	16	4	55	52	1	1	3		

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
8	17	6	85	64	2	2	4		
9	7	3	43	38	1	1	2	21	19
10	9	5	64	61	2	2	4	131	124
11	2	1	13	10	0	0	1	46	37
12	2	1	15	13	0	0	1	41	36
15	3	2	0	0	0	0	3	0	0
Sum	79	27	323	282	8	7	20	239	216
White Spruce									
5	13	2	17	18	0	0	1		
6	29	6	95	92	2	2	4		
7	52	13	244	229	4	4	10		
8	23	7	127	125	2	2	6		
9	30	13	259	253	4	4	10	453	444
10	14	8	162	154	3	3	6	662	626
11	12	8	155	135	3	2	6	566	509
12	4	2	41	41	1	1	2	183	182
13	6	6	139	132	2	2	5	629	595
14	8	9	218	202	4	3	7	968	909
15	3	2	57	56	1	1	3	276	270
16	1	2	54	40	1	1	2	211	176
17	1	0	0	0	0	0	1	0	0
18	1	0	0	0	0	0	1	0	0
20	0	0	4	0	0	0	1	0	0
Sum	197	80	1,573	1,475	27	25	64	3,948	3,710
Totals for stratum White Spruce-Birch Sawtimber	277	106	1,896	1,757	35	32	84	4,187	3,926
Stratum 10 White Spruce-Birch Poletimber									
Birch									
5	28	4	37	33	1	1	2		
6	10	2	37	35	1	1	1		
7	12	3	37	30	1	1	2		
8	4	2	12	13	0	0	1		
9	16	6	57	42	1	1	5	59	47
10	6	3	36	33	1	1	2	88	72
11	4	3	23	21	1	1	2	81	60
12	3	2	18	17	0	0	2	59	55
14	2	2	26	25	1	1	2	103	97
Sum	84	26	283	250	7	6	19	389	330
Black Spruce									
7	18	4	61	57	1	1	3		
8	5	2	34	33	1	1	1		
Sum	23	7	95	91	2	2	4		
White Spruce									
5	16	2	23	23	0	0	1		
6	16	3	43	42	1	1	2		
7	13	3	53	52	1	1	2		
8	4	1	19	19	0	0	1		
9	5	2	33	33	1	1	1		
10	8	4	83	78	1	1	3	344	321

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
11	7	4	72	67	1	1	3	309	284
12	4	3	65	62	1	1	3	285	273
13	4	3	53	48	1	1	3	237	212
14	2	3	63	62	1	1	2	288	285
15	2	3	71	70	1	1	2	347	341
16	2	2	32	30	1	1	3	136	129
17	0	1	17	17	0	0	0	88	89
18	3	3	63	57	1	1	4	296	267
19	0	1	11	11	0	0	0	51	52
20	0	1	13	13	0	0	0	68	69
Sum	87	38	715	685	12	12	32	2,450	2,322
Totals for stratum White Spruce-Birch Poletimber									
	195	71	1,093	1,026	21	19	55	2,839	2,652
Stratum 11 White Spruce-Birch-Aspen Sawtimber									
Aspen									
6	12	2	36	36	1	1	1		
7	11	3	43	41	1	1	2		
8	22	8	106	103	2	2	5		
9	1	1	9	8	0	0	0		
10	0	1	33	31	1	1	0	78	76
Sum	46	15	228	219	5	5	9	78	76
Birch									
8	2	1	0	0	0	0	0		
12	0	1	0	0	0	0	0	16	1
Sum	2	1	0	0	0	0	1	16	1
White Spruce									
5	6	1							
6	41	9	74	74	1	1	5		
7	42	13	159	159	3	3	8		
8	19	7	117	117	2	2	5		
9	9	7	164	164	3	3	3	673	672
10	13	8	195	192	3	3	6	817	805
11	4	4	120	116	2	2	2	519	501
12	2	2	52	52	1	1	1	227	227
13	2	5	150	145	3	2	2	679	657
14	3	4	95	93	2	2	3	437	427
19	0	2	56	56	1	1	0	282	281
Sum	143	61	1,180	1,166	20	20	34	3,634	3,570
Totals for stratum White Spruce-Birch-Aspen Sawtimber									
	191	77	1,408	1,385	25	25	44	3,727	3,647
Stratum 12 White Spruce-Birch-Aspen Poletimber									
Aspen									
5	5	1	8	8	0	0	0		
6	21	4	32	24	1	1	2		
7	4	1	7	5	0	0	1		
8	4	2	30	28	1	1	1		
9	3	2	34	31	1	1	1	33	29
13	0	0	4	3	0	0	0	0	0

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Sum	38	11	114	99	2	2	5	33	29
Birch									
6	3	0	4	4	0	0	0		
7	2	0	6	5	0	0	0		
8	4	2	19	15	0	0	1		
9	1	0	6	4	0	0	0	8	6
10	3	2	29	25	1	1	1	69	59
11	2	1	22	19	1	0	1	78	68
12	2	2	21	17	1	0	1	96	71
14	2	2	23	19	1	0	2	91	74
Sum	18	9	130	108	3	3	7	342	278
White Spruce									
5	13	2	26	26	0	0	1		
6	10	2	31	30	1	1	1		
7	35	10	142	139	2	2	6		
8	27	10	154	152	3	3	7		
9	17	7	133	133	2	2	5	269	269
10	11	6	108	104	2	2	4	454	438
11	9	6	102	98	2	2	5	448	427
12	2	2	37	36	1	1	1	162	157
13	9	7	164	153	3	3	6	739	693
14	3	3	70	66	1	1	2	326	307
15	3	3	56	50	1	1	3	266	236
16	2	2	31	29	1	0	2	144	134
18	0	1	11	11	0	0	0	50	50
19	0	1	13	13	0	0	0	66	66
21	0	1	11	12	0	0	0	52	52
22	0	1	0	0	0	0	0	0	0
24	0	1	0	0	0	0	0	0	0
26	0	1	0	0	0	0	0	0	0
27	0	1	0	0	0	0	1	0	0
Sum	142	63	1,091	1,052	19	18	48	2,976	2,831
Totals for stratum	White Spruce-Birch-Aspen Poletimber								
	198	83	1,335	1,259	24	23	61	3,351	3,137
Stratum 13	White Spruce-Balsam Poplar								
Balsam Poplar									
5	7	1	12	12	0	0	1		
6	11	3	23	23	1	1	1		
7	23	6	90	87	2	2	4		
8	23	8	110	86	2	2	6		
9	13	6	99	77	2	2	4	46	37
10	11	7	136	115	3	2	5	140	129
11	7	6	111	88	2	2	4	217	182
12	7	6	136	100	3	2	5	345	253
13	7	6	160	106	3	2	6	464	308
14	6	7	158	100	3	2	6	502	314
15	4	6	145	102	3	2	5	528	369
16	3	4	112	70	2	1	4	417	259
17	3	4	103	60	2	1	4	381	216

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
19	1	1	32	25	1	1	2	107	83
20	1	2	31	22	1	0	2	197	84
22	0	1	0	0	0	0	1	40	21
50	1	1							
Sum	129	75	1,457	1,071	31	23	57	3,384	2,255
Birch									
20	0	0	6	4	0	0	0	36	25
Sum	0	0	6	4	0	0	0	36	25
White Spruce									
5	24	4	45	45	1	1	2		
6	39	8	108	107	2	2	5		
7	20	5	79	79	1	1	4		
8	10	3	59	59	1	1	3		
9	17	7	161	158	3	3	6	510	496
10	12	7	149	146	3	2	5	605	593
11	11	7	158	153	3	3	5	659	639
12	9	6	126	121	2	2	5	550	528
13	6	5	121	111	2	2	4	544	497
15	3	3	68	53	1	1	3	327	251
16	1	2	66	63	1	1	1	323	307
20	0	0	11	11	0	0	0	63	63
23	3	1	29	27	0	0	7	130	120
Sum	153	59	1,179	1,131	20	19	50	3,711	3,495
Totals for stratum White Spruce-Balsam Poplar	282	134	2,641	2,206	52	42	107	7,131	5,775
Stratum 14 Black and White Spruce-Birch-Aspen									
Aspen									
5	9	2	8	8	0	0	1		
Sum	9	2	8	8	0	0	1		
Birch									
5	12	2	11	1	0	0	1		
Sum	12	2	11	1	0	0	1		
Black Spruce									
5	13	2	18	18	0	0	1		
6	13	3	26	26	0	0	2		
Sum	26	5	44	44	1	1	3		
White Spruce									
5	29	4	30	30	1	1	2		
6	38	7	54	52	1	1	5		
7	37	10	135	135	2	2	7		
8	5	2	22	22	0	0	1		
9	25	11	185	185	3	3	8	227	229
10	11	7	142	142	2	2	4	615	614
11	1	1	75	74	1	1	1	309	308
12	1	1	15	6	0	0	1	67	28
Sum	147	43	658	647	11	11	28	1,218	1,178
Totals for stratum Black and White Spruce-Birch-Aspen	194	51	722	700	12	12	32	1,218	1,178

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
Stratum 15	White Spruce-Hardwood Reproduction								
Aspen									
5	6	1	6	6	0	0	0		
6	5	1	9	9	0	0	1		
7	4	1	11	11	0	0	1		
8	0	0	1	1	0	0	0		
9	2	1	8	7	0	0	0	5	5
Sum	17	4	36	34	1	1	2	5	5
Balsam Poplar									
5	4	1	5	5	0	0	0		
6	5	1	10	10	0	0	1		
7	5	1	18	18	0	0	1		
8	2	1	10	10	0	0	0		
9	1	0	3	3	0	0	0	0	0
10	1	0	4	0	0	0	0	1	0
Sum	19	4	51	48	1	1	3	1	1
Birch									
5	10	1	10	10	0	0	1		
6	15	3	24	23	1	1	2		
7	7	2	21	19	1	0	1		
8	4	2	18	16	0	0	1		
9	0	0	1	1	0	0	0		
10	0	0	2	2	0	0	0	13	10
Sum	37	8	76	71	2	2	4	13	10
Black Spruce									
5	1	0	1	1	0	0	0		
6	5	1	10	10	0	0	1		
7	0	0	2	2	0	0	0		
9	0	0	2	2	0	0	0		
Sum	6	1	14	13	0	0	1		
White Spruce									
5	20	3	24	24	0	0	2		
6	26	5	59	58	1	1	3		
7	28	8	104	102	2	2	5		
8	10	4	58	57	1	1	3		
9	6	3	57	56	1	1	2	71	66
10	3	2	40	39	1	1	1	170	164
11	1	1	21	20	0	0	1	96	90
12	0	0	6	6	0	0	0	23	25
13	0	0	14	14	0	0	0	62	62
14	0	0	8	7	0	0	0	35	31
15	0	0	6	6	0	0	0	29	29
18	0	0	5	4	0	0	0	25	21
Sum	96	27	402	393	7	7	17	510	488
Totals for stratum	White Spruce-Hardwood Reproduction								
	175	45	579	560	11	10	28	529	504
Stratum 16	Black and White Spruce-Hardwood Reproduction								
Balsam Poplar									

DBH	Trees	Basal Area	Gross CF	Net CF	Gross Tons	Net Tons	Biomass Tons	Gross BF	Net BF
6	4	1	7	7	0	0	1		
11	2	1	2	1	0	0	1	3	2
Sum	7	2	9	8	0	0	2	3	2
Birch									
6	1	0	1	1	0	0	0		
7	1	0	3	3	0	0	0		
8	1	0	5	5	0	0	0		
11	0	0	2	2	0	0	0	9	9
Sum	3	1	11	10	0	0	1	9	9
Black Spruce									
5	6	1	8	8	0	0	0		
6	19	4	40	39	1	1	2		
7	6	2	20	20	0	0	1		
8	0	0	4	4	0	0	0		
Sum	32	6	72	71	1	1	4		
White Spruce									
5	16	2	21	21	0	0	1		
6	21	4	51	51	1	1	3		
7	13	4	51	51	1	1	2		
8	9	3	52	52	1	1	2		
10	2	1	31	31	1	1	1	132	132
Sum	61	15	206	206	4	4	9	132	132
Totals for stratum	Black and White Spruce-Hardwood Reproduction								
	103	24	298	295	5	5	15	144	143

Volume Unit 2 For Trees Greater Than or Equal to 1.5" dbh and Less Than 5" dbh

DBH	Trees	Biomass Tons
Stratum 1	White Spruce Sawtimber	
Black Spruce		
3	25	1
4	10	1
5	5	0
Sum	40	2
White Spruce		
2	60	0
3	50	1
4	20	1
5	20	2
Sum	150	3
Totals for stratum	White Spruce Sawtimber	
	190	6
Stratum 2	White Spruce Poletimber	
White Spruce		
2	127	0
3	104	2
4	81	3
5	23	2
Sum	335	7
Totals for stratum	White Spruce Poletimber	
	335	7
Stratum 3	Birch Closed	
Birch		
2	25	
3	13	
4	63	2
5	13	1
Sum	113	3
Totals for stratum	Birch Closed	
	113	3
Stratum 4	Birch Open	
Birch		
2	42	0
3	42	0
4	17	0
5	8	0
Sum	108	2
White Spruce		
2	17	
3	17	0
4	17	1
Sum	50	1

DBH	Trees	Biomass Tons
Totals for stratum Birch Open	158	2
Stratum 5 Aspen Closed		
Aspen		
2	80	1
3	20	0
4	90	4
Sum	190	5
Birch		
4	10	0
Sum	10	0
White Spruce		
2	60	0
3	90	3
4	20	1
Sum	170	4
Totals for stratum Aspen Closed	370	9
Stratum 6 Aspen Open		
Aspen		
3	38	0
4	113	4
5	38	2
Sum	188	7
Black Spruce		
2	88	
3	50	1
4	38	1
Sum	175	2
White Spruce		
2	25	
3	25	1
4	13	0
5	13	1
Sum	75	1
Totals for stratum Aspen Open	438	10
Stratum 7 Birch-Aspen Closed		
Aspen		
2	13	0
3	31	1
4	13	0
Sum	56	1
Balsam Poplar		
5	13	1
Sum	13	1

DBH	Trees	Biomass Tons
Birch		
2	38	1
3	44	1
5	6	0
Sum	88	2
White Spruce		
2	31	
3	50	1
4	25	1
5	6	0
Sum	113	2
Totals for stratum Birch-Aspen Closed	269	6
Stratum 8 Birch-Aspen Open		
Balsam Poplar		
4	25	0
Sum	25	0
Birch		
2	25	
Sum	25	
White Spruce		
2	25	
Sum	25	
Totals for stratum Birch-Aspen Open	75	0
Stratum 9 White Spruce-Birch Sawtimber		
White Spruce		
2	38	
Sum	38	
Totals for stratum White Spruce-Birch Sawtimber	38	
Stratum 10 White Spruce-Birch Poletimber		
Birch		
2	25	
3	13	0
4	13	0
5	38	3
Sum	88	3
White Spruce		
2	50	
5	63	5
Sum	113	5
Totals for stratum White Spruce-Birch Poletimber	200	8
Stratum 11 White Spruce-Birch-Aspen Sawtimber		

DBH	Trees	Biomass Tons
Aspen		
3	13	
Sum	13	
White Spruce		
2	63	1
3	75	1
5	13	1
Sum	150	3
Totals for stratum White Spruce-Birch-Aspen Sawtimber	163	3
Stratum 12 White Spruce-Birch-Aspen Poletimber		
Aspen		
4	7	0
5	7	0
Sum	14	1
White Spruce		
2	121	
3	21	0
4	43	2
Sum	186	2
Totals for stratum White Spruce-Birch-Aspen Poletimber	200	2
Stratum 13 White Spruce-Balsam Poplar		
Balsam Poplar		
3	25	0
5	8	1
Sum	33	1
White Spruce		
2	83	
3	17	0
4	17	1
5	25	2
Sum	142	3
Totals for stratum White Spruce-Balsam Poplar	175	4
Stratum 14 Black and White Spruce-Birch-Aspen		
Aspen		
3	13	0
4	50	1
Sum	63	1
Black Spruce		
3	13	0
5	38	3
Sum	50	3
White Spruce		
2	100	

DBH	Trees	Biomass Tons
3	88	2
4	100	3
5	88	7
Sum	375	12
Totals for stratum	Black and White Spruce-Birch-Aspen	
	488	16
Stratum 15	White Spruce-Hardwood Reproduction	
Aspen		
2	9	0
3	27	0
4	23	1
5	16	1
Sum	75	2
Balsam Poplar		
2	16	1
3	7	0
4	9	1
5	2	0
Sum	34	2
Birch		
2	27	0
3	45	1
4	41	1
5	18	1
Sum	132	3
Black Spruce		
2	66	
3	36	1
4	20	1
Sum	123	1
White Spruce		
2	168	1
3	116	2
4	93	4
5	14	1
Sum	391	8
Totals for stratum	White Spruce-Hardwood Reproduction	
	755	16
Stratum 16	Black and White Spruce-Hardwood Reproduction	
Aspen		
3	23	1
4	18	1
Sum	41	2
Birch		
2	18	0
3	23	0
4	9	0

DBH	Trees	Biomass Tons
Sum	50	1
Black Spruce		
2	173	0
3	123	2
4	23	0
5	14	1
Sum	332	3
White Spruce		
2	141	1
3	114	3
4	114	5
5	27	2
Sum	395	11
Totals for stratum Black and White Spruce-Hardwood Reproduction		
	818	17

Appendix C
TOTAL VOLUME BY STRATUM AND MANAGEMENT AREA

Kantishna Management Area (Trees Greater Than or Equal to 5" dbh)

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Net BF
Stratum 1	White Spruce Sawtimber					Acreage = 14,972	
Aspen							
Pole Live	119,588	107,630	2,571	2,314	3,521		
Saw Live	239,320	213,748	5,145	4,596	8,847	782,942	699,675
Sum	358,908	321,377	7,717	6,910	12,368	782,942	699,675
Balsam Poplar							
Saw Live	226,313	156,168	4,866	3,358	9,661	736,740	504,752
Pole Live	49,785	46,121	1,070	992	2,758		
Sum	276,098	202,289	5,936	4,349	12,419	736,740	504,752
Birch							
Saw Live	1,599,847	1,343,332	39,996	33,583	65,125	4,674,395	3,906,441
Saw Dead	18,732	187	468	5	9	21,853	219
Pole Live	1,042,636	885,712	26,066	22,143	42,093		
Sum	2,661,216	2,229,231	66,530	55,731	107,227	4,696,248	3,906,659
Black Spruce							
Saw Live	74,077	74,077	1,259	1,259	2,669	313,673	313,673
Pole Live	32,936	32,104	560	546	1,392		
Sum	107,013	106,181	1,819	1,805	4,061	313,673	313,673
White Spruce							
Pole Dead	148,923	65,234	2,532	1,109	4,228		
Pole Live	5,052,493	4,875,778	85,892	82,888	196,163		
Saw Dead	748,686	651,504	12,728	11,076	22,321	3,392,474	2,956,155
Saw Live	40,152,181	38,704,750	682,587	657,981	1,266,458	187,838,948	181,119,254
Sum	46,102,282	44,297,267	783,739	753,054	1,489,170	191,231,422	184,075,408
Stratum Total	49,505,518	47,156,345	865,741	821,848	1,625,245	197,761,025	189,500,168
Stratum 2	White Spruce Poletimber					Acreage = 10,847	
Aspen							
Pole Dead	15,847	6,412	341	138	779		
Pole Live	299,749	275,618	6,445	5,926	12,682		
Saw Live	321,924	255,948	6,921	5,503	10,778	618,027	492,087
Sum	637,520	537,978	13,707	11,567	24,239	618,027	492,087
Balsam Poplar							
Saw Live	16,540	17,358	356	373	894	23,869	28,113
Sum	16,540	17,358	356	373	894	23,869	28,113
Birch							
Saw Live	219,034	200,810	5,476	5,020	6,816	374,458	345,648
Pole Live	611,422	549,227	15,286	13,731	27,947		
Pole Dead	10,595	8,289	265	207	969		
Sum	841,050	758,325	21,026	18,958	35,732	374,458	345,648
Black Spruce							
Pole Live	2,145,794	2,104,080	36,478	35,769	96,944		
Saw Live	519,104	505,823	8,825	8,599	15,301	2,163,967	2,068,307
Pole Dead	36,548	36,548	621	621	1,261		
Sum	2,701,446	2,646,451	45,925	44,990	113,506	2,163,967	2,068,307
White Spruce							

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Saw Dead	127,137	112,706	2,161	1,916	2,864	592,193	528,070
Saw Live	15,165,349	14,541,922	257,811	247,213	521,592	66,554,106	63,840,518
Pole Dead	179,908	155,886	3,058	2,650	8,173		
Pole Live	7,322,024	7,082,336	124,474	120,400	281,830		
Sum	22,794,419	21,892,850	387,505	372,178	814,459	67,146,299	64,368,588
Stratum Total	26,990,975	25,852,963	468,518	448,066	988,829	70,326,621	67,302,743
Stratum 3	Birch Closed					Acreage = 66,128	
Aspen							
Saw Live	5,931,158	5,068,419	127,520	108,971	213,610	18,171,908	15,222,766
Pole Live	3,517,921	3,328,730	75,635	71,568	124,105		
Sum	9,449,078	8,397,149	203,155	180,539	337,715	18,171,908	15,222,766
Balsam Poplar							
Saw Live	29,153	29,153	627	627	1,482	23,555	23,555
Pole Live	338,188	328,909	7,271	7,072	17,942		
Sum	367,341	358,062	7,898	7,698	19,424	23,555	23,555
Birch							
Pole Live	67,848,701	64,502,026	1,696,218	1,612,551	2,749,908		
Pole Dead	527,644	402,020	13,191	10,051	27,428		
Saw Live	29,241,804	25,928,228	731,045	648,206	1,206,620	82,346,918	71,991,083
Saw Dead	116,770	58,283	2,919	1,457	3,118	206,678	103,377
Sum	97,734,919	90,890,557	2,443,373	2,272,264	3,987,075	82,553,596	72,094,459
Black Spruce							
Saw Live	462,536	415,615	7,863	7,065	15,530	1,841,673	1,662,280
Pole Live	538,787	516,882	9,159	8,787	24,667		
Pole Dead	61,820	30,910	1,051	525	2,600		
Sum	1,063,143	963,407	18,073	16,378	42,797	1,841,673	1,662,280
White Spruce							
Pole Live	5,575,993	5,446,087	94,792	92,583	243,320		
Saw Dead	15,563	0	265	0	1,348	66,600	0
Saw Live	6,952,712	6,614,322	118,196	112,443	275,137	31,019,871	29,433,844
Sum	12,544,268	12,060,409	213,253	205,027	519,805	31,086,471	29,433,844
Stratum Total	121,158,750	112,669,584	2,885,752	2,681,906	4,906,815	133,677,203	118,436,905
Stratum 4	Birch Open					Acreage = 2,590	
Aspen							
Saw Live	110,617	99,677	2,378	2,143	5,842	382,854	340,260
Pole Live	14,494	12,320	312	265	742		
Sum	125,110	111,996	2,690	2,408	6,584	382,854	340,260
Birch							
Saw Dead	23,656	0	591	0	773	25,539	0
Saw Live	2,208,217	1,916,543	55,205	47,914	97,115	8,132,933	6,947,819
Pole Live	823,361	753,944	20,584	18,849	34,220		
Sum	3,055,234	2,670,487	76,381	66,762	132,108	8,158,472	6,947,819
White Spruce							
Saw Live	315,948	303,687	5,371	5,163	9,285	1,507,853	1,444,999
Pole Live	85,812	80,397	1,459	1,367	4,471		
Sum	401,760	384,084	6,830	6,529	13,756	1,507,853	1,444,999

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	3,582,104	3,166,568	85,901	75,700	152,448	10,049,179	8,733,078
Stratum 5	Aspen Closed					Acreage = 15,326	
Aspen							
Pole Live	19,076,309	17,392,176	410,141	373,932	715,165		
Pole Dead	316,882	253,789	6,813	5,456	11,633		
Saw Dead	58,434	57,295	1,256	1,232	2,143	219,100	214,836
Saw Live	11,937,941	10,680,248	256,666	229,625	408,601	29,882,875	26,491,005
Sum	31,389,566	28,383,509	674,876	610,245	1,137,543	30,101,976	26,705,841
Balsam Poplar							
Pole Live	172,109	160,595	3,700	3,453	9,926		
Sum	172,109	160,595	3,700	3,453	9,926		
Birch							
Pole Live	2,756,068	2,435,699	68,902	60,892	110,421		
Saw Live	540,806	497,229	13,520	12,431	24,209	1,572,085	1,443,394
Sum	3,296,874	2,932,928	82,422	73,323	134,630	1,572,085	1,443,394
Black Spruce							
Pole Live	44,729	43,611	760	741	3,600		
Sum	44,729	43,611	760	741	3,600		
White Spruce							
Pole Dead	30,158	30,158	513	513	1,444		
Saw Live	1,832,500	1,767,150	31,152	30,042	56,377	8,075,594	7,785,613
Pole Live	1,853,553	1,807,023	31,510	30,719	85,383		
Sum	3,716,210	3,604,330	63,176	61,274	143,204	8,075,594	7,785,613
Stratum Total	38,619,487	35,124,972	824,934	749,036	1,428,902	39,749,655	35,934,848
Stratum 6	Aspen Open					Acreage = 204	
Aspen							
Saw Live	146,718	114,691	3,154	2,466	4,789	326,085	248,840
Pole Live	163,140	141,669	3,508	3,046	5,908		
Sum	309,858	256,360	6,662	5,512	10,697	326,085	248,840
Balsam Poplar							
Pole Live	3,409	3,409	73	73	94		
Pole Dead	1,393	14	30	0	142		
Sum	4,802	3,423	103	74	236		
White Spruce							
Pole Live	27,204	26,402	462	449	1,258		
Saw Live	15,666	14,719	266	250	695	68,692	64,571
Sum	42,870	41,121	729	699	1,953	68,692	64,571
Stratum Total	357,530	300,903	7,494	6,284	12,887	394,777	313,411
Stratum 7	Birch-Aspen Closed					Acreage = 22,916	
Aspen							
Saw Live	8,552,675	7,629,358	183,883	164,031	285,195	25,326,123	22,285,351
Pole Dead	103,491	86,833	2,225	1,867	3,872		
Pole Live	10,249,076	9,365,506	220,355	201,358	406,973		
Saw Dead	63,471	50,777	1,365	1,092	2,288	229,027	183,222
Sum	18,968,713	17,132,473	407,827	368,348	698,328	25,555,150	22,468,573
Balsam Poplar							

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Saw Live	265,995	259,763	5,719	5,585	10,412	542,250	526,352
Sum	265,995	259,763	5,719	5,585	10,412	542,250	526,352
Birch							
Saw Live	9,350,249	7,641,642	233,756	191,041	393,849	25,659,919	20,345,280
Pole Live	11,443,601	10,676,900	286,090	266,923	493,907		
Pole Dead	58,805	46,788	1,470	1,170	1,809		
Sum	20,852,654	18,365,330	521,316	459,133	889,565	25,659,919	20,345,280
Black Spruce							
Pole Live	305,953	283,019	5,201	4,811	16,285		
Sum	305,953	283,019	5,201	4,811	16,285		
White Spruce							
Saw Live	3,187,865	3,044,562	54,194	51,758	101,433	14,636,027	13,999,392
Pole Live	1,793,959	1,747,357	30,497	29,705	79,914		
Sum	4,981,823	4,791,919	84,691	81,463	181,347	14,636,027	13,999,392
Stratum Total	45,375,139	40,832,504	1,024,755	919,340	1,795,936	66,393,346	57,339,597
Stratum 8	Birch-Aspen Open					Acreage = 2,225	
Aspen							
Pole Live	377,842	346,826	8,124	7,457	16,458		
Saw Live	882,501	657,581	18,974	14,138	29,685	3,235,733	2,331,518
Sum	1,260,343	1,004,408	27,097	21,595	46,143	3,235,733	2,331,518
Birch							
Saw Live	1,861,015	1,304,645	46,525	32,616	64,048	7,171,999	4,949,418
Pole Live	396,513	337,113	9,913	8,428	18,888		
Sum	2,257,528	1,641,758	56,438	41,044	82,936	7,171,999	4,949,418
White Spruce							
Saw Live	442,732	395,699	7,526	6,727	16,219	1,956,487	1,747,973
Pole Live	145,653	126,748	2,476	2,155	5,171		
Sum	588,385	522,447	10,003	8,882	21,390	1,956,487	1,747,973
Stratum Total	4,106,256	3,168,613	93,538	71,520	150,469	12,364,219	9,028,908
Stratum 9	White Spruce-Birch Sawtimber					Acreage = 9,210	
Aspen							
Pole Live	28,552	28,552	614	614	1,168		
Saw Live	44,186	26,619	950	572	1,396	178,048	107,207
Sum	72,738	55,171	1,564	1,186	2,564	178,048	107,207
Balsam Poplar							
Pole Live	80,346	75,242	1,727	1,618	4,244		
Saw Live	333,454	238,003	7,169	5,117	11,775	1,285,346	913,540
Sum	413,800	313,245	8,897	6,735	16,019	1,285,346	913,540
Birch							
Saw Live	5,417,000	4,233,821	135,425	105,846	216,569	19,987,537	15,349,544
Pole Live	1,220,883	1,011,280	30,522	25,282	50,656		
Pole Dead	15,476	5,609	387	140	1,003		
Sum	6,653,360	5,250,710	166,334	131,268	268,228	19,987,537	15,349,544
Black Spruce							
Saw Live	106,545	81,643	1,811	1,388	2,765	452,193	344,773
Pole Live	59,296	56,788	1,008	965	3,272		

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Sum	165,841	138,432	2,819	2,353	6,038	452,193	344,773
White Spruce							
Saw Dead	106,376	76,704	1,808	1,304	3,182	534,155	365,432
Saw Live	13,608,076	12,600,288	231,337	214,205	465,801	64,208,256	59,752,292
Pole Live	2,019,328	1,889,951	34,329	32,129	84,321		
Sum	15,733,780	14,566,943	267,474	247,638	553,304	64,742,410	60,117,725
Stratum Total	23,039,519	20,324,500	447,088	389,180	846,153	86,645,535	76,832,788
Stratum 10	White Spruce-Birch Poletimber					Acreage = 21,140	
Aspen							
Saw Live	293,634	270,719	6,313	5,820	8,537	1,119,533	1,033,112
Sum	293,634	270,719	6,313	5,820	8,537	1,119,533	1,033,112
Balsam Poplar							
Saw Live	242,365	173,704	5,211	3,735	10,078	882,975	606,608
Sum	242,365	173,704	5,211	3,735	10,078	882,975	606,608
Birch							
Saw Live	6,041,337	4,906,033	151,033	122,651	282,437	19,051,164	15,353,913
Pole Dead	96,588	41,145	2,415	1,029	5,187		
Pole Live	6,405,817	5,591,257	160,145	139,781	292,377		
Saw Dead	37,308	28,410	933	710	1,794	57,304	44,578
Sum	12,581,051	10,566,845	314,526	264,171	581,795	19,108,468	15,398,491
Black Spruce							
Pole Live	1,682,271	1,608,469	28,599	27,344	84,224		
Saw Live	520,881	508,066	8,855	8,637	11,353	2,369,914	2,311,947
Pole Dead	28,507	28,507	485	485	1,251		
Sum	2,231,658	2,145,041	37,938	36,466	96,828	2,369,914	2,311,947
White Spruce							
Pole Live	4,811,750	4,692,418	81,800	79,771	207,034		
Saw Live	14,762,368	14,136,695	250,960	240,324	471,914	67,589,096	64,726,514
Sum	19,574,118	18,829,113	332,760	320,095	678,948	67,589,096	64,726,514
Stratum Total	34,922,826	31,985,422	696,748	630,287	1,376,187	91,069,986	84,076,673
Stratum 11	White Spruce-Birch-Aspen Sawtimber					Acreage = 1,099	
Aspen							
Pole Live	209,756	196,782	4,510	4,231	8,189		
Saw Live	306,092	278,999	6,581	5,998	9,511	846,702	769,474
Pole Dead	5,165	4,074	111	88	467		
Sum	521,012	479,855	11,202	10,317	18,166	846,702	769,474
Balsam Poplar							
Saw Live	159,156	106,953	3,422	2,299	5,953	589,456	407,389
Pole Live	23,744	20,981	510	451	1,206		
Sum	182,900	127,934	3,932	2,751	7,159	589,456	407,389
Birch							
Saw Live	382,836	356,367	9,571	8,909	14,898	1,551,607	1,439,340
Pole Live	130,423	128,541	3,261	3,214	5,409		
Sum	513,259	484,907	12,831	12,123	20,308	1,551,607	1,439,340
White Spruce							
Saw Live	1,106,126	1,074,243	18,804	18,262	34,436	5,173,636	5,019,208

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Pole Live	403,988	400,575	6,868	6,810	16,231		
Sum	1,510,114	1,474,818	25,672	25,072	50,667	5,173,636	5,019,208
Stratum Total	2,727,285	2,567,515	53,638	50,262	96,300	8,161,400	7,635,411
Stratum 12 White Spruce-Birch-Aspen Poletimber						Acreage = 12,850	
Aspen							
Pole Dead	47,944	47,944	1,031	1,031	1,446		
Pole Live	1,218,234	1,041,738	26,192	22,397	46,451		
Saw Live	2,065,999	1,966,289	44,419	42,275	68,714	6,534,511	6,204,076
Sum	3,332,178	3,055,972	71,642	65,703	116,612	6,534,511	6,204,076
Birch							
Saw Live	3,494,497	2,935,004	87,362	73,375	173,107	10,409,370	8,690,220
Pole Live	3,621,077	3,321,284	90,527	83,032	150,851		
Sum	7,115,574	6,256,288	177,889	156,407	323,958	10,409,370	8,690,220
Black Spruce							
Saw Dead	22,263	18,333	378	312	781	104,187	86,590
Saw Live	1,017,347	927,055	17,295	15,760	33,405	4,215,287	3,841,119
Pole Live	1,285,484	1,203,574	21,853	20,461	57,208		
Sum	2,325,094	2,148,962	39,527	36,532	91,394	4,319,474	3,927,709
White Spruce							
Pole Live	3,366,249	3,292,826	57,226	55,978	138,474		
Saw Dead	54,331	48,597	924	826	1,566	256,918	229,983
Saw Live	8,546,571	8,381,157	145,292	142,480	284,673	38,648,210	37,929,051
Sum	11,967,150	11,722,579	203,442	199,284	424,712	38,905,128	38,159,034
Stratum Total	24,739,996	23,183,800	492,499	457,927	956,677	60,168,484	56,981,039
Stratum 13 White Spruce-Balsam Poplar						Acreage = 4,590	
Aspen							
Saw Live	179,115	173,272	3,851	3,725	6,210	653,095	630,789
Pole Live	200,503	178,136	4,311	3,830	7,751		
Sum	379,618	351,408	8,162	7,555	13,961	653,095	630,789
Balsam Poplar							
Saw Dead	58,207	22,613	1,251	486	3,281	227,736	89,716
Pole Dead	22,340	20,001	480	430	1,294		
Pole Live	1,342,544	1,230,197	28,865	26,449	65,422		
Saw Live	2,239,499	1,699,474	48,149	36,539	116,330	6,526,346	4,880,223
Sum	3,662,591	2,972,285	78,746	63,904	186,326	6,754,082	4,969,939
Birch							
Saw Live	470,321	470,321	11,758	11,758	24,109	1,039,783	1,039,783
Pole Live	525,216	505,174	13,130	12,629	18,770		
Sum	995,537	975,496	24,888	24,387	42,878	1,039,783	1,039,783
Black Spruce							
Pole Live	15,952	15,952	271	271	719		
Sum	15,952	15,952	271	271	719		
White Spruce							
Pole Live	1,570,728	1,552,154	26,702	26,387	66,546		
Saw Live	1,134,638	1,120,083	19,289	19,041	67,967	4,859,767	4,794,472
Sum	2,705,366	2,672,238	45,991	45,428	134,513	4,859,767	4,794,472

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	7,759,064	6,987,379	158,058	141,546	378,398	13,306,727	11,434,983
Stratum 14	Black and White Spruce-Birch-Aspen					Acreage = 6,071	
Aspen							
Saw Live	370,078	340,769	7,957	7,327	11,112	1,153,334	1,062,518
Pole Live	569,271	520,698	12,239	11,195	23,958		
Sum	939,348	861,468	20,196	18,522	35,070	1,153,334	1,062,518
Balsam Poplar							
Saw Live	289,572	249,776	6,226	5,370	11,489	910,069	788,289
Pole Live	30,396	27,357	654	588	1,301		
Sum	319,968	277,133	6,879	5,958	12,789	910,069	788,289
Birch							
Saw Live	834,618	679,139	20,865	16,978	39,899	2,122,186	1,722,388
Pole Live	1,502,868	1,369,519	37,572	34,238	70,274		
Pole Dead	18,042	459	451	11	2,288		
Sum	2,355,529	2,049,117	58,888	51,228	112,461	2,122,186	1,722,388
Black Spruce							
Pole Live	977,215	888,282	16,613	15,101	48,192		
Pole Dead	13,278	9,958	226	169	193		
Saw Live	226,969	190,249	3,858	3,234	4,232	945,858	792,631
Sum	1,217,461	1,088,489	20,697	18,504	52,617	945,858	792,631
White Spruce							
Saw Live	2,404,073	2,288,046	40,869	38,897	79,349	10,146,512	9,636,542
Pole Dead	0	0	0	0	1,827		
Pole Live	1,834,221	1,636,715	31,182	27,824	76,073		
Sum	4,238,294	3,924,761	72,051	66,721	157,249	10,146,512	9,636,542
Stratum Total	9,070,600	8,200,967	178,711	160,933	370,186	15,277,959	14,002,368
Stratum 15	White Spruce-Hardwood Reproduction					Acreage = 100,965	
Aspen							
Pole Live	5,699,377	5,626,341	122,537	120,966	297,174		
Saw Live	5,557,076	5,206,101	119,477	111,931	182,502	16,884,201	15,621,685
Sum	11,256,454	10,832,442	242,014	232,898	479,675	16,884,201	15,621,685
Balsam Poplar							
Saw Live	3,131,080	2,810,754	67,318	60,431	124,815	8,442,163	7,549,678
Pole Live	2,206,274	2,235,396	47,435	48,061	150,383		
Sum	5,337,354	5,046,150	114,753	108,492	275,199	8,442,163	7,549,678
Birch							
Saw Live	953,839	862,570	23,846	21,564	52,983	3,297,627	3,008,649
Pole Live	7,395,144	7,258,429	184,879	181,461	467,883		
Sum	8,348,983	8,120,998	208,725	203,025	520,866	3,297,627	3,008,649
Black Spruce							
Pole Live	1,605,060	1,605,060	27,286	27,286	58,724		
Sum	1,605,060	1,605,060	27,286	27,286	58,724		
White Spruce							
Saw Live	6,114,259	5,781,830	103,942	98,291	217,978	26,126,932	24,621,932
Pole Live	10,602,326	10,581,313	180,240	179,882	549,332		
Sum	16,716,586	16,363,143	284,182	278,173	767,310	26,126,932	24,621,932

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	43,264,437	41,967,793	876,959	849,874	2,101,773	54,750,924	50,801,945
Stratum 16 Black and White Spruce-Hardwood Reproduction						Acreage = 147,102	
Birch							
Pole Live	2,537,490	2,328,352	63,437	58,209	149,440		
Saw Live	786,255	764,513	19,656	19,113	37,865	2,058,475	2,030,290
Sum	3,323,745	3,092,865	83,094	77,322	187,305	2,058,475	2,030,290
Black Spruce							
Saw Live	573,158	544,500	9,744	9,256	23,685	2,382,359	2,263,241
Pole Live	13,188,031	12,823,869	224,197	218,006	750,544		
Pole Dead	208,262	208,262	3,540	3,540	11,336		
Sum	13,969,450	13,576,630	237,481	230,803	785,565	2,382,359	2,263,241
White Spruce							
Saw Live	3,301,739	3,100,484	56,130	52,708	205,946	15,121,135	14,171,395
Pole Live	8,243,513	8,226,202	140,140	139,845	434,842		
Sum	11,545,251	11,326,687	196,269	192,554	640,788	15,121,135	14,171,395
Stratum Total	28,838,447	27,996,182	516,844	500,678	1,613,658	19,561,968	18,464,925
Grand Totals	464,057,934	431,486,010	9,677,179	8,954,388	18,800,864	879,659,008	806,819,788
						Acreage = 438,235	

Kantishna Management Area (Trees Greater Than or Equal to 1.5" dbh and Less Than 5" dbh)

		Total Biomass Tons	
Stratum 1	White Spruce Sawtimber	Acreage =	14,972
Aspen			
Balsam Poplar		1,797	
Birch		18,565	
Black Spruce			
White Spruce		23,655	
Stratum Total		44,016	
Stratum 2	White Spruce Poletimber	Acreage =	10,847
Aspen		1,302	
Balsam Poplar			
Birch		7,919	
Black Spruce		18,983	
White Spruce		53,586	
Stratum Total		81,789	
Stratum 3	Birch Closed	Acreage =	66,128
Aspen		25,790	
Balsam Poplar		1,323	
Birch		662,600	
Black Spruce		15,871	
White Spruce		115,724	
Stratum Total		821,307	
Stratum 4	Birch Open	Acreage =	2,590
Aspen			
Birch		4,791	
White Spruce		2,538	
Stratum Total		7,329	
Stratum 5	Aspen Closed	Acreage =	15,326
Aspen		88,122	
Balsam Poplar		307	
Birch		60,536	
Black Spruce		9,195	
White Spruce		24,368	
Stratum Total		182,528	
Stratum 6	Aspen Open	Acreage =	204
Aspen		67	
Balsam Poplar		738	
Birch		172	
White Spruce		2,096	
Stratum Total		3,073	
Stratum 7	Birch-Aspen Closed	Acreage =	22,916
Aspen		33,457	
Balsam Poplar			
Birch		110,683	

		Total Biomass Tons	
Black Spruce		14,437	
White Spruce		26,582	
Stratum Total		185,159	
Stratum 8	Birch-Aspen Open	Acreage =	2,225
Aspen		3,270	
Birch		1,735	
White Spruce		289	
Stratum Total		5,295	
Stratum 9	White Spruce-Birch Sawtimber	Acreage =	9,210
Aspen			
Balsam Poplar			
Birch		9,394	
Black Spruce			
White Spruce		12,802	
Stratum Total		22,196	
Stratum 10	White Spruce-Birch Poletimber	Acreage =	21,140
Aspen			
Balsam Poplar			
Birch		38,897	
Black Spruce		33,401	
White Spruce		34,035	
Stratum Total		106,332	
Stratum 11	White Spruce-Birch-Aspen Sawtimber	Acreage =	1,099
Aspen			
Balsam Poplar			
Birch		286	
White Spruce		3,276	
Stratum Total		3,561	
Stratum 12	White Spruce-Birch-Aspen Poletimber	Acreage =	12,850
Aspen		6,939	
Birch		54,869	
Black Spruce		6,553	
White Spruce		24,672	
Stratum Total		93,033	
Stratum 13	White Spruce-Balsam Poplar	Acreage =	4,590
Aspen			
Balsam Poplar		7,299	
Birch		7,895	
Black Spruce		3,121	
White Spruce		38,146	
Stratum Total		56,462	
Stratum 14	Black and White Spruce-Birch-Aspen	Acreage =	6,071
Aspen		5,404	
Balsam Poplar			

		Total Biomass Tons	
Birch		15,361	
Black Spruce		8,318	
White Spruce		6,375	
Stratum Total		35,457	
Stratum 15	White Spruce-Hardwood Reproduction	Acreage =	100,965
Aspen		230,200	
Balsam Poplar		222,123	
Birch		1,708,326	
Black Spruce		76,733	
White Spruce		575,500	
Stratum Total		2,812,882	
Stratum 16	Black and White Spruce-Hardwood Reproduction	Acreage =	147,102
Birch		158,870	
Black Spruce		2,487,499	
Tamarack		7,355	
White Spruce		454,546	
Stratum Total		3,108,271	
Grand Totals		7,568,691	
		Acreage =	438,235

Fairbanks Management Area

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum 1 White Spruce Sawtimber						Acreage = 26,228	
Aspen							
Pole Live	209,505	188,555	4,504	4,054	6,169		
Saw Live	419,262	374,462	9,014	8,051	15,499	1,371,626	1,225,752
Sum	628,767	563,017	13,518	12,105	21,667	1,371,626	1,225,752
Balsam Poplar							
Saw Live	396,475	273,589	8,524	5,882	16,925	1,290,686	884,269
Pole Live	87,218	80,798	1,875	1,737	4,832		
Sum	483,693	354,387	10,399	7,619	21,757	1,290,686	884,269
Birch							
Saw Live	2,802,751	2,353,365	70,069	58,834	114,092	8,189,011	6,843,642
Saw Dead	32,817	328	820	8	15	38,284	383
Pole Live	1,826,581	1,551,667	45,665	38,792	73,743		
Sum	4,662,149	3,905,360	116,554	97,634	187,850	8,227,295	6,844,025
Black Spruce							
Saw Live	129,774	129,774	2,206	2,206	4,676	549,519	549,519
Pole Live	57,700	56,243	981	956	2,438		
Sum	187,474	186,017	3,187	3,162	7,114	549,519	549,519
White Spruce							
Pole Dead	260,896	114,282	4,435	1,943	7,406		
Pole Live	8,851,396	8,541,813	150,474	145,211	343,655		
Saw Dead	1,311,612	1,141,362	22,297	19,403	39,104	5,943,231	5,178,849
Saw Live	70,342,081	67,806,345	1,195,815	1,152,708	2,218,691	329,072,596	317,300,451
Sum	80,765,986	77,603,802	1,373,022	1,319,265	2,608,857	335,015,827	322,479,300
Stratum Total	86,728,069	82,612,583	1,516,680	1,439,785	2,847,245	346,454,954	331,982,865
Stratum 2 White Spruce Poletimber						Acreage = 24,166	
Aspen							
Pole Dead	35,304	14,286	759	307	1,736		
Pole Live	667,797	614,037	14,358	13,202	28,254		
Saw Live	717,200	570,214	15,420	12,260	24,011	1,376,874	1,096,297
Sum	1,420,301	1,198,537	30,536	25,769	54,000	1,376,874	1,096,297
Balsam Poplar							
Saw Live	36,849	38,671	792	831	1,992	53,177	62,632
Sum	36,849	38,671	792	831	1,992	53,177	62,632
Birch							
Saw Live	487,975	447,375	12,199	11,184	15,185	834,238	770,053
Pole Live	1,362,157	1,223,597	34,054	30,590	62,261		
Pole Dead	23,604	18,466	590	462	2,160		
Sum	1,873,737	1,689,437	46,843	42,236	79,605	834,238	770,053
Black Spruce							
Pole Live	4,780,514	4,687,582	81,269	79,689	215,978		
Saw Live	1,156,487	1,126,899	19,660	19,157	34,087	4,821,000	4,607,885
Pole Dead	81,424	81,424	1,384	1,384	2,809		
Sum	6,018,425	5,895,905	102,313	100,230	252,875	4,821,000	4,607,885
White Spruce							

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Saw Dead	283,244	251,092	4,815	4,269	6,381	1,319,320	1,176,463
Saw Live	33,786,172	32,397,267	574,365	550,754	1,162,029	148,272,779	142,227,302
Pole Dead	400,809	347,291	6,814	5,904	18,208		
Pole Live	16,312,395	15,778,405	277,311	268,233	627,876		
Sum	50,782,620	48,774,056	863,305	829,159	1,814,494	149,592,099	143,403,765
Stratum Total	60,131,931	57,596,606	1,043,790	998,225	2,202,967	156,677,388	149,940,633
Stratum 3	Birch Closed					Acreage = 75,929	
Aspen							
Saw Live	6,810,293	5,819,677	146,421	125,123	245,272	20,865,408	17,479,135
Pole Live	4,039,359	3,822,125	86,846	82,176	142,500		
Sum	10,849,652	9,641,802	233,268	207,299	387,772	20,865,408	17,479,135
Balsam Poplar							
Saw Live	33,474	33,474	720	720	1,702	27,046	27,046
Pole Live	388,315	377,661	8,349	8,120	20,601		
Sum	421,789	411,135	9,068	8,839	22,303	27,046	27,046
Birch							
Pole Live	77,905,461	74,062,730	1,947,637	1,851,568	3,157,509		
Pole Dead	605,854	461,609	15,146	11,540	31,494		
Saw Live	33,576,121	29,771,396	839,403	744,285	1,385,469	94,552,651	82,661,840
Saw Dead	134,078	66,922	3,352	1,673	3,581	237,313	118,700
Sum	112,221,513	104,362,657	2,805,538	2,609,066	4,578,052	94,789,964	82,780,539
Black Spruce							
Saw Live	531,095	477,219	9,029	8,113	17,832	2,114,652	1,908,669
Pole Live	618,648	593,496	10,517	10,089	28,323		
Pole Dead	70,983	35,492	1,207	603	2,986		
Sum	1,220,726	1,106,206	20,752	18,806	49,140	2,114,652	1,908,669
White Spruce							
Pole Live	6,402,486	6,253,324	108,842	106,307	279,386		
Saw Dead	17,870	0	304	0	1,548	76,471	0
Saw Live	7,983,266	7,594,719	135,716	129,110	315,919	35,617,740	33,796,627
Sum	14,403,621	13,848,043	244,862	235,417	596,852	35,694,211	33,796,627
Stratum Total	139,117,302	129,369,843	3,313,488	3,079,427	5,634,120	153,491,282	135,992,016
Stratum 4	Birch Open					Acreage = 8,075	
Aspen							
Saw Live	344,878	310,770	7,415	6,682	18,213	1,193,652	1,060,853
Pole Live	45,188	38,410	972	826	2,315		
Sum	390,066	349,180	8,386	7,507	20,527	1,193,652	1,060,853
Birch							
Saw Dead	73,754	0	1,844	0	2,411	79,624	0
Saw Live	6,884,722	5,975,348	172,118	149,384	302,784	25,356,650	21,661,729
Pole Live	2,567,055	2,350,628	64,176	58,766	106,689		
Sum	9,525,530	8,325,976	238,138	208,149	411,883	25,436,274	21,661,729
White Spruce							
Saw Live	985,055	946,829	16,746	16,096	28,950	4,701,144	4,505,181
Pole Live	267,542	250,659	4,548	4,261	13,939		
Sum	1,252,596	1,197,488	21,294	20,357	42,889	4,701,144	4,505,181

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	11,168,192	9,872,643	267,819	236,014	475,300	31,331,070	27,227,764
Stratum 5	Aspen Closed					Acreage = 29,729	
Aspen							
Pole Live	37,004,727	33,737,803	795,602	725,363	1,387,297		
Pole Dead	614,697	492,307	13,216	10,585	22,566		
Saw Dead	113,352	111,142	2,437	2,390	4,157	425,017	416,744
Saw Live	23,157,533	20,717,827	497,887	445,433	792,616	57,967,591	51,387,952
Sum	60,890,309	55,059,080	1,309,142	1,183,770	2,206,636	58,392,608	51,804,696
Balsam Poplar							
Pole Live	333,861	311,526	7,178	6,698	19,255		
Sum	333,861	311,526	7,178	6,698	19,255		
Birch							
Pole Live	5,346,294	4,724,834	133,657	118,121	214,197		
Saw Live	1,049,069	964,537	26,227	24,113	46,961	3,049,573	2,799,935
Sum	6,395,364	5,689,371	159,884	142,234	261,158	3,049,573	2,799,935
Black Spruce							
Pole Live	86,766	84,597	1,475	1,438	6,983		
Sum	86,766	84,597	1,475	1,438	6,983		
White Spruce							
Pole Dead	58,500	58,500	995	995	2,800		
Saw Live	3,554,731	3,427,964	60,430	58,275	109,362	15,665,251	15,102,737
Pole Live	3,595,571	3,505,311	61,125	59,590	165,628		
Sum	7,208,803	6,991,775	122,550	118,860	277,790	15,665,251	15,102,737
Stratum Total	74,915,102	68,136,349	1,600,228	1,453,001	2,771,823	77,107,431	69,707,368
Stratum 6	Aspen Open					Acreage = 1,364	
Aspen							
Saw Live	979,509	765,693	21,059	16,462	31,974	2,176,984	1,661,286
Pole Live	1,089,143	945,797	23,417	20,335	39,442		
Sum	2,068,651	1,711,490	44,476	36,797	71,416	2,176,984	1,661,286
Balsam Poplar							
Pole Live	22,757	22,757	489	489	628		
Pole Dead	9,301	93	200	2	946		
Sum	32,058	22,850	689	491	1,575		
White Spruce							
Pole Live	181,615	176,263	3,087	2,996	8,398		
Saw Live	104,590	98,263	1,778	1,670	4,643	458,595	431,083
Sum	286,205	274,526	4,865	4,667	13,041	458,595	431,083
Stratum Total	2,386,915	2,008,866	50,031	41,955	86,032	2,635,579	2,092,369
Stratum 7	Birch-Aspen Closed					Acreage = 17,134	
Aspen							
Saw Live	6,394,846	5,704,480	137,489	122,646	213,240	18,936,374	16,662,785
Pole Dead	77,380	64,925	1,664	1,396	2,895		
Pole Live	7,663,247	7,002,601	164,760	150,556	304,294		
Saw Dead	47,457	37,966	1,020	816	1,711	171,244	136,995
Sum	14,182,931	12,809,972	304,933	275,414	522,141	19,107,618	16,799,781
Balsam Poplar							

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Saw Live	198,885	194,225	4,276	4,176	7,785	405,441	393,554
Sum	198,885	194,225	4,276	4,176	7,785	405,441	393,554
Birch							
Saw Live	6,991,193	5,713,666	174,780	142,842	294,481	19,185,954	15,212,192
Pole Live	8,556,395	7,983,132	213,910	199,578	369,295		
Pole Dead	43,968	34,983	1,099	875	1,353		
Sum	15,591,556	13,731,781	389,789	343,295	665,129	19,185,954	15,212,192
Black Spruce							
Pole Live	228,762	211,613	3,889	3,597	12,176		
Sum	228,762	211,613	3,889	3,597	12,176		
White Spruce							
Saw Live	2,383,570	2,276,423	40,521	38,699	75,841	10,943,376	10,467,363
Pole Live	1,341,345	1,306,501	22,803	22,211	59,752		
Sum	3,724,916	3,582,924	63,324	60,910	135,593	10,943,376	10,467,363
Stratum Total	33,927,049	30,530,514	766,210	687,392	1,342,824	49,642,389	42,872,889
Stratum 8	Birch-Aspen Open					Acreage = 6,364	
Aspen							
Pole Live	1,080,946	992,216	23,240	21,333	47,083		
Saw Live	2,524,698	1,881,237	54,281	40,447	84,925	9,256,926	6,670,108
Sum	3,605,644	2,873,454	77,521	61,779	132,008	9,256,926	6,670,108
Birch							
Saw Live	5,324,074	3,732,385	133,102	93,310	183,231	20,517,966	14,159,511
Pole Live	1,134,360	964,427	28,359	24,111	54,035		
Sum	6,458,434	4,696,812	161,461	117,420	237,267	20,517,966	14,159,511
White Spruce							
Saw Live	1,266,588	1,132,034	21,532	19,245	46,400	5,597,205	5,000,676
Pole Live	416,689	362,606	7,084	6,164	14,792		
Sum	1,683,278	1,494,640	28,616	25,409	61,192	5,597,205	5,000,676
Stratum Total	11,747,356	9,064,905	267,598	204,608	430,467	35,372,097	25,830,295
Stratum 9	White Spruce-Birch Sawtimber					Acreage = 24,678	
Aspen							
Pole Live	76,503	76,503	1,645	1,645	3,129		
Saw Live	118,394	71,323	2,545	1,533	3,741	477,067	287,252
Sum	194,897	147,825	4,190	3,178	6,870	477,067	287,252
Balsam Poplar							
Pole Live	215,282	201,604	4,629	4,334	11,373		
Saw Live	893,464	637,712	19,209	13,711	31,550	3,443,987	2,447,760
Sum	1,108,746	839,315	23,838	18,045	42,923	3,443,987	2,447,760
Birch							
Saw Live	14,514,439	11,344,199	362,861	283,605	580,281	53,555,082	41,127,933
Pole Live	3,271,264	2,709,649	81,782	67,741	135,728		
Pole Dead	41,467	15,029	1,037	376	2,688		
Sum	17,827,170	14,068,877	445,679	351,722	718,697	53,555,082	41,127,933
Black Spruce							
Saw Live	285,479	218,757	4,853	3,719	7,409	1,211,616	923,793
Pole Live	158,879	152,160	2,701	2,587	8,768		

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Sum	444,358	370,917	7,554	6,306	16,177	1,211,616	923,793
White Spruce							
Saw Dead	285,026	205,523	4,845	3,494	8,526	1,431,227	979,148
Saw Live	36,461,802	33,761,510	619,851	573,946	1,248,078	172,041,124	160,101,711
Pole Live	5,410,635	5,063,981	91,981	86,088	225,930		
Sum	42,157,463	39,031,014	716,677	663,527	1,482,535	173,472,351	161,080,859
Stratum Total	61,732,634	54,457,949	1,197,939	1,042,778	2,267,202	232,160,104	205,867,596
Stratum 10	White Spruce-Birch Poletimber					Acreage = 40,334	
Aspen							
Saw Live	560,253	516,532	12,045	11,105	16,289	2,136,067	1,971,175
Sum	560,253	516,532	12,045	11,105	16,289	2,136,067	1,971,175
Balsam Poplar							
Saw Live	462,432	331,426	9,942	7,126	19,229	1,684,714	1,157,407
Sum	462,432	331,426	9,942	7,126	19,229	1,684,714	1,157,407
Birch							
Saw Live	11,526,856	9,360,699	288,171	234,017	538,889	36,349,571	29,295,227
Pole Dead	184,290	78,504	4,607	1,963	9,897		
Pole Live	12,222,283	10,668,105	305,557	266,703	557,855		
Saw Dead	71,184	54,206	1,780	1,355	3,423	109,337	85,055
Sum	24,004,612	20,161,514	600,115	504,038	1,110,063	36,458,908	29,380,282
Black Spruce							
Pole Live	3,209,768	3,068,954	54,566	52,172	160,700		
Saw Live	993,840	969,388	16,895	16,480	21,662	4,521,789	4,411,190
Pole Dead	54,391	54,391	925	925	2,386		
Sum	4,257,999	4,092,733	72,386	69,576	184,748	4,521,789	4,411,190
White Spruce							
Pole Live	9,180,807	8,953,121	156,074	152,203	395,021		
Saw Live	28,166,560	26,972,779	478,832	458,537	900,411	128,959,822	123,498,023
Sum	37,347,366	35,925,899	634,905	610,740	1,295,431	128,959,822	123,498,023
Stratum Total	66,632,662	61,028,104	1,329,394	1,202,586	2,625,761	173,761,300	160,418,076
Stratum 11	White Spruce-Birch-Aspen Sawtimber					Acreage = 11,755	
Aspen							
Pole Live	2,243,263	2,104,518	48,230	45,247	87,577		
Saw Live	3,273,545	2,983,798	70,381	64,152	101,713	9,055,179	8,229,256
Pole Dead	55,235	43,570	1,188	937	4,994		
Sum	5,572,043	5,131,886	119,799	110,336	194,283	9,055,179	8,229,256
Balsam Poplar							
Saw Live	1,702,118	1,143,827	36,596	24,592	63,670	6,304,025	4,356,883
Pole Live	253,930	224,385	5,459	4,824	12,893		
Sum	1,956,048	1,368,212	42,055	29,417	76,563	6,304,025	4,356,883
Birch							
Saw Live	4,094,293	3,811,217	102,357	95,280	159,332	16,593,890	15,393,237
Pole Live	1,394,831	1,374,699	34,871	34,367	57,852		
Sum	5,489,124	5,185,915	137,228	129,648	217,184	16,593,890	15,393,237
White Spruce							
Saw Live	11,829,627	11,488,651	201,104	195,307	368,282	55,330,216	53,678,663

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Pole Live	4,320,514	4,284,009	73,449	72,828	173,581		
Sum	16,150,141	15,772,660	274,552	268,135	541,863	55,330,216	53,678,663
Stratum Total	29,167,356	27,458,673	573,634	537,535	1,029,894	87,283,310	81,658,038
Stratum 12	White Spruce-Birch-Aspen Poletimber				Acreage =	20,486	
Aspen							
Pole Dead	76,437	76,437	1,643	1,643	2,306		
Pole Live	1,942,213	1,660,827	41,758	35,708	74,056		
Saw Live	3,293,793	3,134,827	70,817	67,399	109,551	10,417,876	9,891,068
Sum	5,312,443	4,872,091	114,218	104,750	185,913	10,417,876	9,891,068
Birch							
Saw Live	5,571,226	4,679,234	139,281	116,981	275,982	16,595,507	13,854,691
Pole Live	5,773,030	5,295,075	144,326	132,377	240,500		
Sum	11,344,256	9,974,309	283,606	249,358	516,482	16,595,507	13,854,691
Black Spruce							
Saw Dead	35,493	29,228	603	497	1,245	166,105	138,049
Saw Live	1,621,942	1,477,990	27,573	25,126	53,258	6,720,370	6,123,841
Pole Live	2,049,428	1,918,840	34,840	32,620	91,205		
Sum	3,706,864	3,426,058	63,017	58,243	145,709	6,886,474	6,261,889
White Spruce							
Pole Live	5,366,761	5,249,705	91,235	89,245	220,767		
Saw Dead	86,618	77,477	1,473	1,317	2,496	409,601	366,659
Saw Live	13,625,673	13,361,956	231,636	227,153	453,850	61,616,278	60,469,732
Sum	19,079,053	18,689,137	324,344	317,715	677,112	62,025,879	60,836,391
Stratum Total	39,442,615	36,961,595	785,184	730,066	1,525,216	95,925,736	90,844,039
Stratum 13	White Spruce-Balsam Poplar				Acreage =	8,691	
Aspen							
Saw Live	339,102	328,041	7,291	7,053	11,756	1,236,445	1,194,216
Pole Live	379,594	337,249	8,161	7,251	14,675		
Sum	718,696	665,290	15,452	14,304	26,431	1,236,445	1,194,216
Balsam Poplar							
Saw Dead	110,198	42,811	2,369	920	6,211	431,153	169,851
Pole Dead	42,295	37,867	909	814	2,450		
Pole Live	2,541,717	2,329,020	54,647	50,074	123,857		
Saw Live	4,239,841	3,217,459	91,157	69,175	220,237	12,355,737	9,239,281
Sum	6,934,050	5,627,157	149,082	120,984	352,754	12,786,890	9,409,133
Birch							
Saw Live	890,417	890,417	22,260	22,260	45,643	1,968,526	1,968,526
Pole Live	994,343	956,400	24,859	23,910	35,535		
Sum	1,884,760	1,846,817	47,119	46,170	81,178	1,968,526	1,968,526
Black Spruce							
Pole Live	30,200	30,200	513	513	1,361		
Sum	30,200	30,200	513	513	1,361		
White Spruce							
Pole Live	2,973,716	2,938,552	50,553	49,955	125,985		
Saw Live	2,148,107	2,120,552	36,518	36,049	128,677	9,200,554	9,076,938
Sum	5,121,823	5,059,105	87,071	86,005	254,662	9,200,554	9,076,938

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	14,689,530	13,228,568	299,237	267,976	716,386	25,192,415	21,648,812
Stratum 14	Black and White Spruce-Birch-Aspen					Acreage = 15,777	
Aspen							
Saw Live	961,675	885,516	20,676	19,039	28,874	2,997,029	2,761,035
Pole Live	1,479,295	1,353,075	31,805	29,091	62,257		
Sum	2,440,970	2,238,591	52,481	48,130	91,131	2,997,029	2,761,035
Balsam Poplar							
Saw Live	752,475	649,064	16,178	13,955	29,854	2,364,885	2,048,431
Pole Live	78,987	71,088	1,698	1,528	3,380		
Sum	831,462	720,152	17,876	15,483	33,234	2,364,885	2,048,431
Birch							
Saw Live	2,168,820	1,764,796	54,221	44,120	103,681	5,514,666	4,475,759
Pole Live	3,905,320	3,558,802	97,633	88,970	182,612		
Pole Dead	46,884	1,193	1,172	30	5,946		
Sum	6,121,025	5,324,791	153,026	133,120	292,239	5,514,666	4,475,759
Black Spruce							
Pole Live	2,539,368	2,308,269	43,169	39,241	125,230		
Pole Dead	34,503	25,877	587	440	502		
Saw Live	589,796	494,376	10,027	8,404	10,998	2,457,885	2,059,714
Sum	3,163,667	2,828,522	53,782	48,085	136,730	2,457,885	2,059,714
White Spruce							
Saw Live	6,247,172	5,945,665	106,202	101,076	206,194	26,366,504	25,041,305
Pole Dead	0	0	0	0	4,747		
Pole Live	4,766,365	4,253,132	81,028	72,303	197,683		
Sum	11,013,537	10,198,797	187,230	173,380	408,624	26,366,504	25,041,305
Stratum Total	23,570,662	21,310,854	464,395	418,197	961,958	39,700,969	36,386,246
Stratum 15	White Spruce-Hardwood Reproduction					Acreage = 153,276	
Aspen							
Pole Live	8,652,278	8,541,401	186,024	183,640	451,142		
Saw Live	8,436,250	7,903,431	181,379	169,924	277,057	25,632,065	23,715,428
Sum	17,088,528	16,444,833	367,403	353,564	728,199	25,632,065	23,715,428
Balsam Poplar							
Saw Live	4,753,322	4,267,032	102,196	91,741	189,483	12,816,128	11,461,238
Pole Live	3,349,365	3,393,576	72,011	72,962	228,299		
Sum	8,102,687	7,660,607	174,208	164,703	417,782	12,816,128	11,461,238
Birch							
Saw Live	1,448,032	1,309,475	36,201	32,737	80,434	5,006,158	4,567,458
Pole Live	11,226,638	11,019,089	280,666	275,477	710,298		
Sum	12,674,670	12,328,564	316,867	308,214	790,732	5,006,158	4,567,458
Black Spruce							
Pole Live	2,436,657	2,436,657	41,423	41,423	89,149		
Sum	2,436,657	2,436,657	41,423	41,423	89,149		
White Spruce							
Saw Live	9,282,115	8,777,451	157,796	149,217	330,915	39,663,542	37,378,787
Pole Live	16,095,491	16,063,590	273,623	273,081	833,945		
Sum	25,377,606	24,841,041	431,419	422,298	1,164,860	39,663,542	37,378,787

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	65,680,149	63,711,702	1,331,320	1,290,202	3,190,722	83,117,893	77,122,911
Stratum 16	Black and White Spruce-Hardwood Reproduction					Acreage = 169,304	
Birch							
Pole Live	2,920,467	2,679,763	73,012	66,994	171,994		
Saw Live	904,922	879,899	22,623	21,997	43,580	2,369,154	2,336,716
Sum	3,825,389	3,559,663	95,635	88,992	215,574	2,369,154	2,336,716
Black Spruce							
Saw Live	659,663	626,680	11,214	10,654	27,260	2,741,922	2,604,825
Pole Live	15,178,463	14,759,340	258,034	250,909	863,822		
Pole Dead	239,694	239,694	4,075	4,075	13,046		
Sum	16,077,820	15,625,713	273,323	265,637	904,128	2,741,922	2,604,825
White Spruce							
Saw Live	3,800,061	3,568,432	64,601	60,663	237,029	17,403,326	16,310,244
Pole Live	9,487,683	9,467,760	161,291	160,952	500,472		
Sum	13,287,744	13,036,192	225,892	221,615	737,501	17,403,326	16,310,244
Stratum Total	33,190,953	32,221,568	594,849	576,244	1,857,203	22,514,402	21,251,785
Grand Totals	754,228,478	699,571,324	15,401,799	14,205,992	29,965,119	1,612,368,319	1,480,843,702
						Acreage = 633,292	

Fairbanks Management Area (Trees Greater Than or Equal to 1.5" dbh and Less Than 5" dbh)

		Total Biomass Tons		
Stratum 1	White Spruce Sawtimber		Acreage =	26,228
Aspen				
Balsam Poplar		3,147		
Birch		32,523		
Black Spruce				
White Spruce		41,441		
Stratum Total		77,112		
Stratum 2	White Spruce Poletimber		Acreage =	24,166
Aspen		2,900		
Balsam Poplar				
Birch		17,641		
Black Spruce		42,291		
White Spruce		119,382		
Stratum Total		182,215		
Stratum 3	Birch Closed		Acreage =	75,929
Aspen		29,612		
Balsam Poplar		1,519		
Birch		760,813		
Black Spruce		18,223		
White Spruce		132,876		
Stratum Total		943,043		
Stratum 4	Birch Open		Acreage =	8,075
Aspen				
Birch		14,938		
White Spruce		7,913		
Stratum Total		22,852		
Stratum 5	Aspen Closed		Acreage =	29,729
Aspen		170,942		
Balsam Poplar		595		
Birch		117,430		
Black Spruce		17,837		
White Spruce		47,269		
Stratum Total		354,072		
Stratum 6	Aspen Open		Acreage =	1,364
Aspen		450		
Balsam Poplar		4,924		
Birch		1,146		
White Spruce		13,994		
Stratum Total		20,514		
Stratum 7	Birch-Aspen Closed		Acreage =	17,134
Aspen		25,016		
Balsam Poplar				
Birch		82,758		
Black Spruce		10,794		
White Spruce		19,876		

			Total Biomass Tons	
Stratum Total			138,443	
Stratum	8	Birch-Aspen Open	Acreage =	6,364
Aspen			9,356	
Birch			4,964	
White Spruce			827	
Stratum Total			15,147	
Stratum	9	White Spruce-Birch Sawtimber	Acreage =	24,678
Aspen				
Balsam Poplar				
Birch			25,171	
Black Spruce				
White Spruce			34,302	
Stratum Total			59,474	
Stratum	10	White Spruce-Birch Poletimber	Acreage =	40,334
Aspen				
Balsam Poplar				
Birch			74,215	
Black Spruce			63,728	
White Spruce			64,938	
Stratum Total			202,881	
Stratum	11	White Spruce-Birch-Aspen Sawtimber	Acreage =	11,755
Aspen				
Balsam Poplar				
Birch			3,056	
White Spruce			35,030	
Stratum Total			38,087	
Stratum	12	White Spruce-Birch-Aspen Poletimber	Acreage =	20,486
Aspen			11,063	
Birch			87,477	
Black Spruce			10,448	
White Spruce			39,334	
Stratum Total			148,322	
Stratum	13	White Spruce-Balsam Poplar	Acreage =	8,691
Aspen				
Balsam Poplar			13,818	
Birch			14,948	
Black Spruce			5,910	
White Spruce			72,219	
Stratum Total			106,894	
Stratum	14	Black and White Spruce-Birch-Aspen	Acreage =	15,777
Aspen			14,041	
Balsam Poplar				
Birch			39,916	
Black Spruce			21,614	
White Spruce			16,566	
Stratum Total			92,137	

		Total Biomass Tons	
Stratum 15	White Spruce-Hardwood Reproduction	Acreage =	153,276
Aspen		349,469	
Balsam Poplar		337,207	
Birch		2,593,426	
Black Spruce		116,490	
White Spruce		873,672	
Stratum Total		4,270,263	
Stratum 16	Black and White Spruce-Hardwood Reproduction	Acreage =	169,304
Birch		182,848	
Black Spruce		2,862,931	
Tamarack		8,465	
White Spruce		523,149	
Stratum Total		3,577,394	
Grand Totals		10,248,851	
		Acreage =	633,292

Delta Management Area

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum 1	White Spruce Sawtimber					Acreage = 20,128	
Aspen							
Pole Live	160,777	144,699	3,457	3,111	4,734		
Saw Live	321,746	287,366	6,918	6,178	11,894	1,052,602	940,656
Sum	482,523	432,066	10,374	9,289	16,628	1,052,602	940,656
Balsam Poplar							
Saw Live	304,259	209,955	6,542	4,514	12,988	990,487	678,598
Pole Live	66,932	62,005	1,439	1,333	3,708		
Sum	371,192	271,961	7,981	5,847	16,696	990,487	678,598
Birch							
Saw Live	2,150,864	1,806,000	53,772	45,150	87,556	6,284,343	5,251,891
Saw Dead	25,184	252	630	6	11	29,380	294
Pole Live	1,401,740	1,190,768	35,043	29,769	56,591		
Sum	3,577,787	2,997,019	89,445	74,925	144,158	6,313,722	5,252,185
Black Spruce							
Saw Live	99,590	99,590	1,693	1,693	3,588	421,708	421,708
Pole Live	44,280	43,161	753	734	1,871		
Sum	143,870	142,752	2,446	2,427	5,460	421,708	421,708
White Spruce							
Pole Dead	200,214	87,702	3,404	1,491	5,684		
Pole Live	6,792,665	6,555,087	115,475	111,436	263,725		
Saw Dead	1,006,547	875,895	17,111	14,890	30,009	4,560,905	3,974,309
Saw Live	53,981,335	52,035,381	917,683	884,601	1,702,650	252,534,154	243,500,072
Sum	61,980,761	59,554,064	1,053,673	1,012,419	2,002,067	257,095,058	247,474,381
Stratum Total	66,556,133	63,397,861	1,163,918	1,104,908	2,185,009	265,873,578	254,767,528
Stratum 2	White Spruce Poletimber					Acreage = 28,601	
Aspen							
Pole Dead	41,782	16,907	898	364	2,054		
Pole Live	790,340	726,715	16,992	15,624	33,439		
Saw Live	848,809	674,850	18,249	14,509	28,417	1,629,535	1,297,471
Sum	1,680,931	1,418,472	36,140	30,497	63,910	1,629,535	1,297,471
Balsam Poplar							
Saw Live	43,610	45,768	938	984	2,358	62,935	74,126
Sum	43,610	45,768	938	984	2,358	62,935	74,126
Birch							
Saw Live	577,520	529,470	14,438	13,237	17,971	987,324	911,360
Pole Live	1,612,118	1,448,131	40,303	36,203	73,686		
Pole Dead	27,936	21,854	698	546	2,556		
Sum	2,217,574	1,999,455	55,439	49,986	94,213	987,324	911,360
Black Spruce							
Pole Live	5,657,755	5,547,770	96,182	94,312	255,611		
Saw Live	1,368,707	1,333,689	23,268	22,673	40,342	5,705,670	5,453,449
Pole Dead	96,366	96,366	1,638	1,638	3,325		
Sum	7,122,828	6,977,825	121,088	118,623	299,278	5,705,670	5,453,449
White Spruce							

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Saw Dead	335,220	297,168	5,699	5,052	7,552	1,561,420	1,392,348
Saw Live	39,986,054	38,342,280	679,763	651,819	1,375,266	175,481,357	168,326,513
Pole Dead	474,359	411,021	8,064	6,987	21,549		
Pole Live	19,305,777	18,673,798	328,198	317,455	743,094		
Sum	60,101,409	57,724,267	1,021,724	981,313	2,147,461	177,042,776	169,718,861
Stratum Total	71,166,352	68,165,786	1,235,329	1,181,403	2,607,219	185,428,240	177,455,267
Stratum 3	Birch Closed					Acreage = 49,231	
Aspen							
Saw Live	4,415,634	3,773,341	94,936	81,127	159,028	13,528,639	11,333,059
Pole Live	2,619,025	2,478,176	56,309	53,281	92,394		
Sum	7,034,659	6,251,517	151,245	134,408	251,422	13,528,639	11,333,059
Balsam Poplar							
Saw Live	21,704	21,704	467	467	1,103	17,536	17,536
Pole Live	251,774	244,867	5,413	5,265	13,357		
Sum	273,478	266,571	5,880	5,731	14,461	17,536	17,536
Birch							
Pole Live	50,512,064	48,020,528	1,262,802	1,200,513	2,047,254		
Pole Dead	392,821	299,297	9,821	7,482	20,420		
Saw Live	21,769,965	19,303,071	544,249	482,577	898,305	61,305,709	53,595,987
Saw Dead	86,933	43,391	2,173	1,085	2,322	153,868	76,962
Sum	72,761,782	67,666,286	1,819,045	1,691,657	2,968,301	61,459,577	53,672,949
Black Spruce							
Saw Live	344,349	309,417	5,854	5,260	11,562	1,371,090	1,237,536
Pole Live	401,117	384,809	6,819	6,542	18,364		
Pole Dead	46,024	23,012	782	391	1,936		
Sum	791,490	717,238	13,455	12,193	31,861	1,371,090	1,237,536
White Spruce							
Pole Live	4,151,221	4,054,508	70,571	68,927	181,147		
Saw Dead	11,586	0	197	0	1,003	49,582	0
Saw Live	5,176,161	4,924,237	87,995	83,712	204,834	23,093,702	21,912,936
Sum	9,338,968	8,978,744	158,762	152,639	386,985	23,143,285	21,912,936
Stratum Total	90,200,377	83,880,355	2,148,387	1,996,628	3,653,030	99,520,127	88,174,016
Stratum 4	Birch Open					Acreage = 5,119	
Aspen							
Saw Live	218,643	197,020	4,701	4,236	11,546	756,742	672,551
Pole Live	28,648	24,351	616	524	1,467		
Sum	247,291	221,370	5,317	4,759	13,014	756,742	672,551
Birch							
Saw Dead	46,758	0	1,169	0	1,528	50,479	0
Saw Live	4,364,719	3,788,202	109,118	94,705	191,956	16,075,401	13,732,926
Pole Live	1,627,440	1,490,232	40,686	37,256	67,638		
Sum	6,038,917	5,278,434	150,973	131,961	261,122	16,125,880	13,732,926
White Spruce							
Saw Live	624,497	600,263	10,616	10,204	18,353	2,980,393	2,856,158
Pole Live	169,614	158,911	2,883	2,701	8,837		
Sum	794,111	759,173	13,500	12,906	27,191	2,980,393	2,856,158

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	7,080,319	6,258,977	169,790	149,626	301,327	19,863,015	17,261,634
Stratum 5	Aspen Closed					Acreage = 22,367	
Aspen							
Pole Live	27,840,531	25,382,658	598,571	545,727	1,043,734		
Pole Dead	462,468	370,388	9,943	7,963	16,978		
Saw Dead	85,280	83,618	1,834	1,798	3,128	319,761	313,537
Saw Live	17,422,585	15,587,071	374,586	335,122	596,325	43,611,955	38,661,759
Sum	45,810,863	41,423,734	984,934	890,610	1,660,164	43,931,716	38,975,296
Balsam Poplar							
Pole Live	251,181	234,377	5,400	5,039	14,487		
Sum	251,181	234,377	5,400	5,039	14,487		
Birch							
Pole Live	4,022,288	3,554,732	100,557	88,868	161,152		
Saw Live	789,268	725,670	19,732	18,142	35,331	2,294,348	2,106,533
Sum	4,811,556	4,280,402	120,289	107,010	196,483	2,294,348	2,106,533
Black Spruce							
Pole Live	65,278	63,647	1,110	1,082	5,253		
Sum	65,278	63,647	1,110	1,082	5,253		
White Spruce							
Pole Dead	44,013	44,013	748	748	2,107		
Saw Live	2,674,404	2,579,031	45,465	43,844	82,279	11,785,762	11,362,554
Pole Live	2,705,130	2,637,223	45,987	44,833	124,610		
Sum	5,423,547	5,260,266	92,200	89,425	208,996	11,785,762	11,362,554
Stratum Total	56,362,425	51,262,426	1,203,933	1,093,166	2,085,383	58,011,826	52,444,383
Stratum 6	Aspen Open					Acreage = 1,079	
Aspen							
Saw Live	775,041	605,858	16,663	13,026	25,300	1,722,548	1,314,500
Pole Live	861,789	748,366	18,528	16,090	31,209		
Sum	1,636,829	1,354,224	35,192	29,116	56,509	1,722,548	1,314,500
Balsam Poplar							
Pole Live	18,007	18,007	387	387	497		
Pole Dead	7,359	74	158	2	749		
Sum	25,366	18,081	545	389	1,246		
White Spruce							
Pole Live	143,704	139,469	2,443	2,371	6,645		
Saw Live	82,757	77,751	1,407	1,322	3,674	362,866	341,096
Sum	226,461	217,220	3,850	3,693	10,319	362,866	341,096
Stratum Total	1,888,657	1,589,524	39,587	33,197	68,073	2,085,414	1,655,596
Stratum 7	Birch-Aspen Closed					Acreage = 34,082	
Aspen							
Saw Live	12,720,034	11,346,823	273,481	243,957	424,158	37,666,477	33,144,066
Pole Dead	153,918	129,143	3,309	2,777	5,759		
Pole Live	15,243,020	13,928,923	327,725	299,472	605,274		
Saw Dead	94,397	75,518	2,030	1,624	3,403	340,623	272,498
Sum	28,211,369	25,480,406	606,544	547,829	1,038,594	38,007,100	33,416,564
Balsam Poplar							

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Saw Live	395,604	386,335	8,505	8,306	15,485	806,466	782,821
Sum	395,604	386,335	8,505	8,306	15,485	806,466	782,821
Birch							
Saw Live	13,906,232	11,365,093	347,656	284,127	585,755	38,162,919	30,258,680
Pole Live	17,019,586	15,879,304	425,490	396,983	734,567		
Pole Dead	87,458	69,585	2,186	1,740	2,690		
Sum	31,013,276	27,313,983	775,332	682,850	1,323,012	38,162,919	30,258,680
Black Spruce							
Pole Live	455,031	420,922	7,736	7,156	24,220		
Sum	455,031	420,922	7,736	7,156	24,220		
White Spruce							
Saw Live	4,741,177	4,528,049	80,600	76,977	150,857	21,767,547	20,820,707
Pole Live	2,668,079	2,598,770	45,357	44,179	118,852		
Sum	7,409,256	7,126,819	125,957	121,156	269,709	21,767,547	20,820,707
Stratum Total	67,484,536	60,728,465	1,524,075	1,367,296	2,671,021	98,744,031	85,278,771
Stratum 8	Birch-Aspen Open					Acreage = 2,258	
Aspen							
Pole Live	383,524	352,042	8,246	7,569	16,705		
Saw Live	895,772	667,470	19,259	14,351	30,132	3,284,392	2,366,579
Sum	1,279,296	1,019,512	27,505	21,920	46,837	3,284,392	2,366,579
Birch							
Saw Live	1,889,001	1,324,264	47,225	33,107	65,011	7,279,851	5,023,847
Pole Live	402,475	342,182	10,062	8,555	19,172		
Sum	2,291,477	1,666,446	57,287	41,661	84,183	7,279,851	5,023,847
White Spruce							
Saw Live	449,390	401,650	7,640	6,828	16,463	1,985,909	1,774,259
Pole Live	147,843	128,654	2,513	2,187	5,248		
Sum	597,233	530,304	10,153	9,015	21,711	1,985,909	1,774,259
Stratum Total	4,168,006	3,216,262	94,945	72,596	152,731	12,550,152	9,164,685
Stratum 9	White Spruce-Birch Sawtimber					Acreage = 12,179	
Aspen							
Pole Live	37,755	37,755	812	812	1,544		
Saw Live	58,428	35,198	1,256	757	1,846	235,435	141,760
Sum	96,183	72,953	2,068	1,568	3,390	235,435	141,760
Balsam Poplar							
Pole Live	106,243	99,492	2,284	2,139	5,612		
Saw Live	440,928	314,713	9,480	6,766	15,570	1,699,623	1,207,980
Sum	547,171	414,206	11,764	8,905	21,183	1,699,623	1,207,980
Birch							
Saw Live	7,162,939	5,598,412	179,073	139,960	286,371	26,429,666	20,296,814
Pole Live	1,614,383	1,337,224	40,360	33,431	66,982		
Pole Dead	20,464	7,417	512	185	1,327		
Sum	8,797,786	6,943,052	219,945	173,576	354,680	26,429,666	20,296,814
Black Spruce							
Saw Live	140,885	107,957	2,395	1,835	3,657	597,938	455,896
Pole Live	78,408	75,092	1,333	1,277	4,327		

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Sum	219,293	183,049	3,728	3,112	7,984	597,938	455,896
White Spruce							
Saw Dead	140,662	101,427	2,391	1,724	4,208	706,317	483,214
Saw Live	17,994,058	16,661,453	305,899	283,245	615,932	84,903,045	79,010,892
Pole Live	2,670,172	2,499,096	45,393	42,485	111,498		
Sum	20,804,892	19,261,976	353,683	327,454	731,637	85,609,361	79,494,106
Stratum Total	30,465,324	26,875,235	591,188	514,616	1,118,874	114,572,023	101,596,556
Stratum 10	White Spruce-Birch Poletimber					Acreage = 25,209	
Aspen							
Saw Live	350,159	322,834	7,528	6,941	10,181	1,335,047	1,231,989
Sum	350,159	322,834	7,528	6,941	10,181	1,335,047	1,231,989
Balsam Poplar							
Saw Live	289,021	207,142	6,214	4,454	12,018	1,052,951	723,382
Sum	289,021	207,142	6,214	4,454	12,018	1,052,951	723,382
Birch							
Saw Live	7,204,315	5,850,461	180,108	146,262	336,807	22,718,577	18,309,593
Pole Dead	115,182	49,065	2,880	1,227	6,185		
Pole Live	7,638,959	6,667,593	190,974	166,690	348,661		
Saw Dead	44,490	33,879	1,112	847	2,139	68,336	53,160
Sum	15,002,945	12,600,998	375,074	315,025	693,792	22,786,912	18,362,753
Black Spruce							
Pole Live	2,006,114	1,918,104	34,104	32,608	100,438		
Saw Live	621,152	605,870	10,560	10,300	13,539	2,826,130	2,757,005
Pole Dead	33,994	33,994	578	578	1,492		
Sum	2,661,260	2,557,969	45,241	43,485	115,468	2,826,130	2,757,005
White Spruce							
Pole Live	5,738,028	5,595,724	97,546	95,127	246,889		
Saw Live	17,604,173	16,858,057	299,271	286,587	562,759	80,600,224	77,186,585
Sum	23,342,201	22,453,781	396,817	381,714	809,648	80,600,224	77,186,585
Stratum Total	41,645,587	38,142,723	830,875	751,619	1,641,108	108,601,264	100,261,715
Stratum 11	White Spruce-Birch-Aspen Sawtimber					Acreage = 4,709	
Aspen							
Pole Live	898,629	843,049	19,321	18,126	35,082		
Saw Live	1,311,349	1,195,279	28,194	25,699	40,745	3,627,413	3,296,557
Pole Dead	22,127	17,454	476	375	2,000		
Sum	2,232,104	2,055,782	47,990	44,199	77,828	3,627,413	3,296,557
Balsam Poplar							
Saw Live	681,851	458,206	14,660	9,851	25,506	2,525,329	1,745,323
Pole Live	101,722	89,886	2,187	1,933	5,165		
Sum	783,573	548,092	16,847	11,784	30,670	2,525,329	1,745,323
Birch							
Saw Live	1,640,132	1,526,735	41,003	38,168	63,827	6,647,345	6,166,376
Pole Live	558,755	550,690	13,969	13,767	23,175		
Sum	2,198,888	2,077,425	54,972	51,936	87,002	6,647,345	6,166,376
White Spruce							
Saw Live	4,738,829	4,602,238	80,560	78,238	147,530	22,164,727	21,503,131

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Pole Live	1,730,754	1,716,131	29,423	29,174	69,535		
Sum	6,469,583	6,318,368	109,983	107,412	217,065	22,164,727	21,503,131
Stratum Total	11,684,149	10,999,667	229,792	215,331	412,565	34,964,814	32,711,387
Stratum 12	White Spruce-Birch-Aspen Poletimber				Acreage =	51,064	
Aspen							
Pole Dead	190,524	190,524	4,096	4,096	5,748		
Pole Live	4,841,080	4,139,710	104,083	89,004	184,590		
Saw Live	8,209,972	7,813,739	176,514	167,995	273,061	25,967,167	24,654,067
Sum	13,241,575	12,143,972	284,694	261,095	463,399	25,967,167	24,654,067
Birch							
Saw Live	13,886,608	11,663,265	347,165	291,582	687,902	41,365,275	34,533,630
Pole Live	14,389,615	13,198,284	359,740	329,957	599,460		
Sum	28,276,224	24,861,550	706,906	621,539	1,287,362	41,365,275	34,533,630
Black Spruce							
Saw Dead	88,470	72,853	1,504	1,239	3,104	414,025	344,094
Saw Live	4,042,786	3,683,977	68,727	62,628	132,748	16,750,916	15,264,032
Pole Live	5,108,320	4,782,821	86,841	81,308	227,334		
Sum	9,239,575	8,539,651	157,073	145,174	363,187	17,164,941	15,608,126
White Spruce							
Pole Live	13,376,968	13,085,197	227,408	222,448	550,274		
Saw Dead	215,901	193,115	3,670	3,283	6,221	1,020,955	913,918
Saw Live	33,962,789	33,305,458	577,367	566,193	1,131,247	153,582,186	150,724,354
Sum	47,555,657	46,583,770	808,446	791,924	1,687,742	154,603,141	151,638,272
Stratum Total	98,313,031	92,128,943	1,957,118	1,819,732	3,801,690	239,100,524	226,434,095
Stratum 13	White Spruce-Balsam Poplar				Acreage =	7,845	
Aspen							
Saw Live	306,107	296,122	6,581	6,367	10,612	1,116,138	1,078,017
Pole Live	342,659	304,434	7,367	6,545	13,247		
Sum	648,766	600,556	13,948	12,912	23,859	1,116,138	1,078,017
Balsam Poplar							
Saw Dead	99,475	38,646	2,139	831	5,607	389,201	153,325
Pole Dead	38,179	34,182	821	735	2,211		
Pole Live	2,294,405	2,102,404	49,330	45,202	111,805		
Saw Live	3,827,299	2,904,396	82,287	62,445	198,807	11,153,508	8,340,287
Sum	6,259,358	5,079,627	134,576	109,212	318,431	11,542,708	8,493,612
Birch							
Saw Live	803,778	803,778	20,094	20,094	41,202	1,776,986	1,776,986
Pole Live	897,592	863,341	22,440	21,584	32,077		
Sum	1,701,371	1,667,120	42,534	41,678	73,279	1,776,986	1,776,986
Black Spruce							
Pole Live	27,261	27,261	463	463	1,228		
Sum	27,261	27,261	463	463	1,228		
White Spruce							
Pole Live	2,684,370	2,652,627	45,634	45,095	113,727		
Saw Live	1,939,093	1,914,220	32,965	32,542	116,156	8,305,328	8,193,740
Sum	4,623,463	4,566,847	78,599	77,636	229,883	8,305,328	8,193,740

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	13,260,219	11,941,411	270,121	241,902	646,681	22,741,160	19,542,354
Stratum 14	Black and White Spruce-Birch-Aspen					Acreage = 18,085	
Aspen							
Saw Live	1,102,348	1,015,048	23,700	21,824	33,098	3,435,429	3,164,915
Pole Live	1,695,684	1,551,001	36,457	33,347	71,364		
Sum	2,798,031	2,566,049	60,158	55,170	104,462	3,435,429	3,164,915
Balsam Poplar							
Saw Live	862,546	744,008	18,545	15,996	34,221	2,710,817	2,348,072
Pole Live	90,541	81,487	1,947	1,752	3,874		
Sum	953,087	825,495	20,491	17,748	38,095	2,710,817	2,348,072
Birch							
Saw Live	2,486,072	2,022,948	62,152	50,574	118,847	6,321,342	5,130,466
Pole Live	4,476,584	4,079,377	111,915	101,984	209,324		
Pole Dead	53,743	1,367	1,344	34	6,816		
Sum	7,016,398	6,103,692	175,410	152,592	334,987	6,321,342	5,130,466
Black Spruce							
Pole Live	2,910,823	2,645,919	49,484	44,981	143,549		
Pole Dead	39,550	29,663	672	504	576		
Saw Live	676,071	566,693	11,493	9,634	12,607	2,817,421	2,361,006
Sum	3,626,443	3,242,274	61,650	55,119	156,731	2,817,421	2,361,006
White Spruce							
Saw Live	7,160,997	6,815,387	121,737	115,862	236,356	30,223,351	28,704,305
Pole Dead	0	0	0	0	5,441		
Pole Live	5,463,581	4,875,272	92,881	82,880	226,599		
Sum	12,624,578	11,690,659	214,618	198,741	468,396	30,223,351	28,704,305
Stratum Total	27,018,538	24,428,169	532,326	479,370	1,102,671	45,508,359	41,708,764
Stratum 15	White Spruce-Hardwood Reproduction					Acreage = 117,224	
Aspen							
Pole Live	6,617,204	6,532,406	142,270	140,447	345,030		
Saw Live	6,451,987	6,044,491	138,718	129,957	211,892	19,603,230	18,137,399
Sum	13,069,191	12,576,897	280,988	270,403	556,922	19,603,230	18,137,399
Balsam Poplar							
Saw Live	3,635,309	3,263,397	78,159	70,163	144,916	9,801,688	8,765,477
Pole Live	2,561,572	2,595,384	55,074	55,801	174,601		
Sum	6,196,881	5,858,781	133,233	125,964	319,517	9,801,688	8,765,477
Birch							
Saw Live	1,107,445	1,001,478	27,686	25,037	61,515	3,828,676	3,493,161
Pole Live	8,586,057	8,427,325	214,651	210,683	543,231		
Sum	9,693,502	9,428,803	242,338	235,720	604,746	3,828,676	3,493,161
Black Spruce							
Pole Live	1,863,539	1,863,539	31,680	31,680	68,180		
Sum	1,863,539	1,863,539	31,680	31,680	68,180		
White Spruce							
Saw Live	7,098,899	6,712,935	120,681	114,120	253,081	30,334,409	28,587,044
Pole Live	12,309,723	12,285,325	209,265	208,851	637,796		
Sum	19,408,622	18,998,261	329,947	322,970	890,877	30,334,409	28,587,044

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum Total	50,231,735	48,726,280	1,018,185	986,738	2,440,243	63,568,004	58,983,082
Stratum 16 Black and White Spruce-Hardwood Reproduction						Acreage = 240,622	
Birch							
Pole Live	4,150,683	3,808,586	103,767	95,215	244,445		
Saw Live	1,286,111	1,250,548	32,153	31,264	61,937	3,367,136	3,321,033
Sum	5,436,794	5,059,133	135,920	126,478	306,383	3,367,136	3,321,033
Black Spruce							
Saw Live	937,539	890,662	15,938	15,141	38,743	3,896,927	3,702,081
Pole Live	21,572,233	20,976,557	366,728	356,601	1,227,698		
Pole Dead	340,662	340,662	5,791	5,791	18,542		
Sum	22,850,434	22,207,882	388,457	377,534	1,284,983	3,896,927	3,702,081
White Spruce							
Saw Live	5,400,797	5,071,596	91,814	86,217	336,875	24,734,295	23,180,764
Pole Live	13,484,271	13,455,955	229,233	228,751	711,291		
Sum	18,885,068	18,527,552	321,046	314,968	1,048,165	24,734,295	23,180,764
Stratum Total	47,172,296	45,794,567	845,423	818,981	2,639,531	31,998,359	30,203,878
Grand Totals	684,697,685	637,536,655	13,854,993	12,827,109	27,527,155	1,403,130,889	1,297,643,710
						Acreage = 639,801	

Delta Management Area (Trees Greater Than or Equal to 1.5" dbh and Less Than 5" dbh)

		Total Biomass Tons		
Stratum 1	White Spruce Sawtimber		Acreage =	20,128
Aspen				
Balsam Poplar		2,415		
Birch		24,959		
Black Spruce				
White Spruce		31,802		
Stratum Total		59,176		
Stratum 2	White Spruce Poletimber		Acreage =	28,601
Aspen		3,432		
Balsam Poplar				
Birch		20,879		
Black Spruce		50,052		
White Spruce		141,289		
Stratum Total		215,652		
Stratum 3	Birch Closed		Acreage =	49,231
Aspen		19,200		
Balsam Poplar		985		
Birch		493,293		
Black Spruce		11,815		
White Spruce		86,154		
Stratum Total		611,447		
Stratum 4	Birch Open		Acreage =	5,119
Aspen				
Birch		9,471		
White Spruce		5,017		
Stratum Total		14,487		
Stratum 5	Aspen Closed		Acreage =	22,367
Aspen		128,608		
Balsam Poplar		447		
Birch		88,348		
Black Spruce		13,420		
White Spruce		35,563		
Stratum Total		266,387		
Stratum 6	Aspen Open		Acreage =	1,079
Aspen		356		
Balsam Poplar		3,896		
Birch		907		
White Spruce		11,073		
Stratum Total		16,232		
Stratum 7	Birch-Aspen Closed		Acreage =	34,082
Aspen		49,759		
Balsam Poplar				
Birch		164,614		
Black Spruce		21,471		
White Spruce		39,535		

			Total Biomass Tons		
Stratum Total			275,379		
Stratum	8	Birch-Aspen Open		Acreage =	2,258
Aspen			3,319		
Birch			1,761		
White Spruce			294		
Stratum Total			5,374		
Stratum	9	White Spruce-Birch Sawtimber		Acreage =	12,179
Aspen					
Balsam Poplar					
Birch			12,422		
Black Spruce					
White Spruce			16,928		
Stratum Total			29,351		
Stratum	10	White Spruce-Birch Poletimber		Acreage =	25,209
Aspen					
Balsam Poplar					
Birch			46,385		
Black Spruce			39,830		
White Spruce			40,587		
Stratum Total			126,801		
Stratum	11	White Spruce-Birch-Aspen Sawtimber		Acreage =	4,709
Aspen					
Balsam Poplar					
Birch			1,224		
White Spruce			14,033		
Stratum Total			15,257		
Stratum	12	White Spruce-Birch-Aspen Poletimber		Acreage =	51,064
Aspen			27,574		
Birch			218,042		
Black Spruce			26,042		
White Spruce			98,042		
Stratum Total			369,701		
Stratum	13	White Spruce-Balsam Poplar		Acreage =	7,845
Aspen					
Balsam Poplar			12,474		
Birch			13,493		
Black Spruce			5,335		
White Spruce			65,192		
Stratum Total			96,493		
Stratum	14	Black and White Spruce-Birch-Aspen		Acreage =	18,085
Aspen			16,095		
Balsam Poplar					
Birch			45,754		
Black Spruce			24,776		
White Spruce			18,989		
Stratum Total			105,615		

		Total Biomass Tons	
Stratum 15	White Spruce-Hardwood Reproduction	Acreage =	117,224
Aspen		267,271	
Balsam Poplar		257,893	
Birch		1,983,435	
Black Spruce		89,090	
White Spruce		668,178	
Stratum Total		3,265,868	
Stratum 16	Black and White Spruce-Hardwood Reproduction	Acreage =	240,622
Birch		259,871	
Black Spruce		4,068,911	
Tamarack		12,031	
White Spruce		743,521	
Stratum Total		5,084,334	
Grand Totals		10,557,555	
		Acreage =	639,801

Tok Management Area

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Stratum 1	White Spruce Sawtimber					Acreage = 11,288	
Aspen							
Pole Live	16,556	16,556	356	356	1,103		
Sum	16,556	16,556	356	356	1,103		
Balsam Poplar							
Saw Live	141,504	106,886	3,042	2,298	6,144	58,043	50,893
Pole Dead	3,539	7,745	76	167	2,358		
Pole Live	22,722	20,449	489	440	1,916		
Saw Dead	61,836	70,248	1,329	1,510	2,360	57,998	53,169
Sum	229,601	205,328	4,936	4,415	12,777	116,041	104,062
Birch							
Saw Live	145,062	83,471	3,627	2,087	8,361	536,158	303,498
Saw Dead	0	0	0	0	2,471	0	0
Pole Live	30,056	7,514	751	188	2,289		
Sum	175,118	90,985	4,378	2,275	13,121	536,158	303,498
Black Spruce							
Pole Live	579,141	541,679	9,845	9,209	25,803		
Sum	579,141	541,679	9,845	9,209	25,803		
White Spruce							
Pole Dead	408,838	395,071	6,950	6,716	14,949		
Pole Live	8,285,728	8,136,236	140,857	138,316	329,264		
Saw Dead	1,212,214	1,164,079	20,608	19,789	40,787	5,328,767	5,098,152
Saw Live	18,831,910	18,260,496	320,142	310,428	692,025	84,159,556	81,585,612
Sum	28,738,691	27,955,882	488,558	475,250	1,077,025	89,488,323	86,683,764
Stratum Total	29,739,107	28,810,430	508,073	491,504	1,129,829	90,140,522	87,091,324
Stratum 2	White Spruce Poletimber					Acreage = 31,007	
Aspen							
Pole Live	93,684	28,105	2,014	604	7,674		
Sum	93,684	28,105	2,014	604	7,674		
Birch							
Saw Live	15,542	11,233	389	281	3,461	238,430	205,478
Saw Dead	68,290	69,727	1,707	1,743	4,014	163,440	174,424
Pole Dead	351,089	280,872	8,777	7,022	14,389		
Sum	434,922	361,831	10,873	9,046	21,864	401,870	379,902
Black Spruce							
Pole Live	1,231,415	1,172,114	20,934	19,926	83,091		
Sum	1,231,415	1,172,114	20,934	19,926	83,091		
White Spruce							
Saw Live	20,280,186	19,242,755	344,763	327,127	621,389	88,360,980	83,595,305
Pole Live	24,339,961	23,946,295	413,779	407,087	1,059,495		
Saw Dead	692,025	650,797	11,764	11,064	23,990	2,872,521	2,706,924
Pole Dead	668,849	569,052	11,370	9,674	31,697		
Sum	45,981,021	44,408,898	781,677	754,951	1,736,570	91,233,502	86,302,230
Stratum Total	47,741,041	45,970,948	815,499	784,527	1,849,199	91,635,372	86,682,132
Stratum 3	Birch Closed					Acreage = 9,596	

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Aspen							
Saw Live	113,833	102,450	2,447	2,203	3,940	456,554	410,899
Sum	113,833	102,450	2,447	2,203	3,940	456,554	410,899
Birch							
Pole Live	3,704,424	3,175,237	92,611	79,381	193,190		
Saw Live	2,128,581	1,624,989	53,215	40,625	99,153	6,473,421	4,975,521
Sum	5,833,005	4,800,227	145,825	120,006	292,343	6,473,421	4,975,521
Black Spruce							
Pole Live	609,086	594,228	10,354	10,102	27,148		
Pole Dead	60,229	48,183	1,024	819	6,219		
Sum	669,315	642,411	11,378	10,921	33,367		
White Spruce							
Saw Dead	230,040	171,859	3,911	2,922	13,949	1,004,923	750,981
Saw Live	1,122,849	815,157	19,088	13,858	34,845	4,859,978	3,437,456
Pole Live	1,429,202	1,417,622	24,296	24,100	56,495		
Sum	2,782,091	2,404,637	47,296	40,879	105,289	5,864,901	4,188,437
Stratum Total	9,398,244	7,949,725	206,946	174,008	434,938	12,794,876	9,574,857
Stratum 4	Birch Open					Acreage = 1,523	
Birch							
Pole Dead	0	0	0	0	386		
Pole Live	241,711	207,620	6,043	5,190	14,100		
Saw Live	488,494	441,877	12,212	11,047	23,898	1,583,737	1,410,740
Sum	730,205	649,496	18,255	16,237	38,384	1,583,737	1,410,740
Black Spruce							
Saw Live	6,328	1,899	108	32	394	30,962	9,288
Sum	6,328	1,899	108	32	394	30,962	9,288
White Spruce							
Pole Live	186,555	186,555	3,171	3,171	7,276		
Saw Live	232,582	229,125	3,954	3,895	8,707	1,063,142	1,047,954
Sum	419,137	415,681	7,125	7,067	15,983	1,063,142	1,047,954
Stratum Total	1,155,670	1,067,075	25,488	23,336	54,761	2,677,841	2,467,982
Stratum 5	Aspen Closed					Acreage = 8,142	
Aspen							
Saw Live	2,889,291	2,732,627	62,120	58,751	124,043	9,087,360	8,485,804
Pole Live	3,353,373	3,128,076	72,098	67,254	154,637		
Pole Dead	49,717	49,717	1,069	1,069	2,883		
Sum	6,292,381	5,910,421	135,286	127,074	281,563	9,087,360	8,485,804
Balsam Poplar							
Saw Live	1,404,790	1,381,178	30,203	29,695	70,148	3,467,257	3,411,125
Pole Live	871,222	815,427	18,731	17,532	38,275		
Sum	2,276,012	2,196,605	48,934	47,227	108,422	3,467,257	3,411,125
Birch							
Pole Live	72,907	65,616	1,823	1,640	4,815		
Sum	72,907	65,616	1,823	1,640	4,815		
White Spruce							
Saw Live	648,468	641,333	11,024	10,903	16,955	2,748,896	2,716,698

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Pole Live	1,200,208	1,182,481	20,404	20,102	56,984		
Sum	1,848,675	1,823,814	31,427	31,005	73,939	2,748,896	2,716,698
Stratum Total	10,489,976	9,996,456	217,471	206,946	468,740	15,303,512	14,613,627
Stratum 6 Aspen Open						Acreage = 2,547	
Aspen							
Saw Live	126,123	123,857	2,712	2,663	4,797	200,656	196,759
Pole Live	713,139	680,262	15,332	14,626	39,755		
Sum	839,262	804,118	18,044	17,289	44,552	200,656	196,759
White Spruce							
Pole Live	117,956	117,956	2,005	2,005	7,515		
Saw Live	383,698	381,299	6,523	6,482	24,041	1,795,983	1,784,060
Sum	501,654	499,255	8,528	8,487	31,556	1,795,983	1,784,060
Stratum Total	1,340,915	1,303,374	26,572	25,776	76,108	1,996,639	1,980,819
Stratum 7 Birch-Aspen Closed						Acreage = 3,035	
Aspen							
Saw Live	302,825	280,642	6,511	6,034	9,436	824,003	754,743
Pole Live	683,848	675,540	14,703	14,524	30,386		
Sum	986,673	956,182	21,213	20,558	39,822	824,003	754,743
Balsam Poplar							
Pole Live	83,052	82,390	1,786	1,771	5,620		
Sum	83,052	82,390	1,786	1,771	5,620		
Birch							
Saw Live	253,219	209,405	6,330	5,235	13,702	606,847	498,368
Pole Live	851,831	814,524	21,296	20,363	44,766		
Sum	1,105,049	1,023,929	27,626	25,598	58,468	606,847	498,368
Black Spruce							
Saw Live	59,342	59,342	1,009	1,009	2,292	255,992	255,992
Pole Live	37,729	34,667	641	589	1,869		
Sum	97,071	94,008	1,650	1,598	4,161	255,992	255,992
White Spruce							
Pole Live	832,633	829,158	14,155	14,096	40,133		
Saw Live	784,927	771,309	13,344	13,112	21,425	3,453,425	3,392,547
Sum	1,617,560	1,600,467	27,499	27,208	61,558	3,453,425	3,392,547
Stratum Total	3,889,405	3,756,976	79,774	76,734	169,628	5,140,267	4,901,650
Stratum 8 Birch-Aspen Open						Acreage = 346	
Aspen							
Pole Live	12,312	12,312	265	265	951		
Saw Live	156,293	148,159	3,360	3,185	6,555	381,434	368,279
Sum	168,606	160,471	3,625	3,450	7,506	381,434	368,279
Balsam Poplar							
Saw Live	57,213	50,993	1,230	1,096	2,442	14,689	13,265
Pole Live	35,162	35,538	756	764	2,289		
Sum	92,375	86,531	1,986	1,860	4,731	14,689	13,265
Birch							
Pole Live	56,867	34,380	1,422	860	3,535		
Saw Live	30,964	26,671	774	667	2,753	111,968	93,700

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Sum	87,832	61,051	2,196	1,526	6,289	111,968	93,700
White Spruce							
Pole Live	13,302	13,302	226	226	1,074		
Saw Live	61,464	61,464	1,045	1,045	2,328	265,743	265,743
Sum	74,765	74,765	1,271	1,271	3,402	265,743	265,743
Stratum Total	423,578	382,818	9,078	8,108	21,928	773,834	740,988
Stratum 9	White Spruce-Birch Sawtimber					Acreage = 1,095	
Birch							
Saw Live	114,132	104,272	2,853	2,607	9,754	261,644	236,920
Pole Live	239,822	204,108	5,996	5,103	11,901		
Sum	353,953	308,379	8,849	7,709	21,655	261,644	236,920
White Spruce							
Saw Live	1,016,536	941,429	17,281	16,004	40,015	4,324,067	4,063,152
Pole Live	706,541	674,054	12,011	11,459	29,320		
Pole Dead	0	0	0	0	773		
Sum	1,723,077	1,615,483	29,292	27,463	70,109	4,324,067	4,063,152
Stratum Total	2,077,030	1,923,862	38,141	35,173	91,764	4,585,711	4,300,072
Stratum 10	White Spruce-Birch Poletimber					Acreage = 10,786	
Birch							
Saw Live	1,459,487	1,279,264	36,487	31,982	100,046	4,200,120	3,559,875
Pole Live	1,591,697	1,414,035	39,792	35,351	102,525		
Sum	3,051,185	2,693,299	76,280	67,332	202,572	4,200,120	3,559,875
Black Spruce							
Pole Live	1,026,259	980,701	17,446	16,672	48,455		
Sum	1,026,259	980,701	17,446	16,672	48,455		
White Spruce							
Pole Live	1,686,885	1,673,762	28,677	28,454	77,460		
Saw Dead	256,946	257,188	4,368	4,372	7,988	1,203,964	1,205,150
Saw Live	5,612,237	5,302,152	95,408	90,137	251,924	25,218,648	23,834,761
Pole Dead	156,951	157,435	2,668	2,676	7,727		
Sum	7,713,019	7,390,537	131,121	125,639	345,099	26,422,612	25,039,911
Stratum Total	11,790,462	11,064,537	224,847	209,644	596,126	30,622,732	28,599,786
Stratum 11	White Spruce-Birch-Aspen Sawtimber					Acreage = 1,174	
Aspen							
Saw Live	38,515	36,740	828	790	104	91,245	89,356
Pole Live	151,982	144,116	3,268	3,098	8,250		
Pole Dead	76,776	76,067	1,651	1,635	2,452		
Sum	267,274	256,923	5,746	5,524	10,806	91,245	89,356
Birch							
Saw Live	0	0	0	0	246	18,542	927
Pole Live	525	52	13	1	441		
Sum	525	52	13	1	687	18,542	927
White Spruce							
Saw Live	945,472	928,881	16,073	15,791	19,157	4,131,080	4,056,758
Saw Dead	29,296	29,296	498	498	564	135,430	135,430
Pole Live	411,126	411,126	6,989	6,989	20,762		

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Sum	1,385,894	1,369,304	23,560	23,278	40,482	4,266,510	4,192,187
Stratum Total	1,653,693	1,626,280	29,320	28,803	51,976	4,376,297	4,282,470
Stratum 12	White Spruce-Birch-Aspen Poletimber					Acreage = 24,161	
Aspen							
Saw Live	549,266	558,296	11,809	12,003	21,608	657,583	669,144
Pole Dead	363,860	176,226	7,823	3,789	28,110		
Saw Dead	62,116	8,170	1,335	176	514	145,211	24,839
Pole Live	1,772,165	1,659,849	38,102	35,687	79,281		
Sum	2,747,407	2,402,541	59,069	51,655	129,513	802,793	693,983
Birch							
Pole Live	705,723	595,004	17,643	14,875	35,995		
Saw Live	2,431,372	2,013,718	60,784	50,343	133,658	8,253,375	6,715,994
Sum	3,137,095	2,608,722	78,427	65,218	169,654	8,253,375	6,715,994
White Spruce							
Pole Live	10,267,440	10,087,220	174,546	171,483	439,541		
Saw Dead	416,774	338,628	7,085	5,757	29,181	1,895,576	1,541,223
Saw Live	15,684,200	14,986,279	266,631	254,767	696,736	70,020,239	66,854,141
Sum	26,368,414	25,412,127	448,263	432,006	1,165,459	71,915,815	68,395,365
Stratum Total	32,252,915	30,423,390	585,760	548,879	1,464,625	80,971,983	75,805,342
Stratum 13	White Spruce-Balsam Poplar					Acreage = 6,136	
Balsam Poplar							
Pole Live	1,593,893	1,425,401	34,269	30,646	77,232		
Saw Live	7,346,105	5,145,257	157,941	110,623	267,198	20,755,805	13,830,484
Saw Dead	0	0	0	0	2,964	9,629	4,233
Sum	8,939,998	6,570,658	192,210	141,269	347,393	20,765,434	13,834,717
Birch							
Saw Live	34,667	24,267	867	607	1,906	221,408	154,985
Sum	34,667	24,267	867	607	1,906	221,408	154,985
White Spruce							
Saw Live	5,299,542	5,011,682	90,092	85,199	222,466	22,769,431	21,444,835
Pole Live	1,934,357	1,928,021	32,884	32,776	87,045		
Sum	7,233,899	6,939,703	122,976	117,975	309,511	22,769,431	21,444,835
Stratum Total	16,208,563	13,534,627	316,053	259,851	658,810	43,756,273	35,434,538
Stratum 14	Black and White Spruce-Birch-Aspen					Acreage = 4,132	
Aspen							
Pole Live	34,930	35,022	751	753	2,595		
Sum	34,930	35,022	751	753	2,595		
Birch							
Pole Live	46,830	2,341	1,171	59	3,303		
Sum	46,830	2,341	1,171	59	3,303		
Black Spruce							
Pole Live	181,987	181,987	3,094	3,094	10,347		
Sum	181,987	181,987	3,094	3,094	10,347		
White Spruce							
Saw Live	1,176,849	1,139,554	20,006	19,372	29,627	5,032,961	4,866,254
Pole Live	1,540,605	1,532,519	26,190	26,053	86,394		

	Total Gross CF	Total Net CF	Total Gross Tons	Total Net Tons	Total Biomass Tons	Total Gross BF	Total Net BF
Sum	2,717,454	2,672,073	46,197	45,425	116,021	5,032,961	4,866,254
Stratum Total	2,981,200	2,891,423	51,212	49,331	132,265	5,032,961	4,866,254
Stratum 15	White Spruce-Hardwood Reproduction					Acreage = 177,883	
Aspen							
Saw Live	857,539	771,785	18,437	16,593	47,773	976,357	878,722
Pole Live	5,471,717	5,277,796	117,642	113,473	312,340		
Sum	6,329,256	6,049,581	136,079	130,066	360,113	976,357	878,722
Balsam Poplar							
Pole Live	7,882,032	7,882,032	169,464	169,464	440,590		
Saw Live	1,246,445	643,622	26,799	13,838	149,694	242,608	100,806
Sum	9,128,477	8,525,654	196,262	183,302	590,284	242,608	100,806
Birch							
Saw Live	433,819	349,920	10,845	8,748	33,760	2,272,632	1,809,825
Pole Live	13,121,391	12,314,635	328,035	307,866	761,039		
Sum	13,555,210	12,664,555	338,880	316,614	794,798	2,272,632	1,809,825
Black Spruce							
Pole Live	2,480,228	2,374,711	42,164	40,370	127,271		
Sum	2,480,228	2,374,711	42,164	40,370	127,271		
White Spruce							
Saw Live	20,727,106	19,839,993	352,361	337,280	625,945	90,689,211	86,828,125
Pole Live	50,712,239	50,071,499	862,108	851,215	2,455,293		
Sum	71,439,345	69,911,493	1,214,469	1,188,495	3,081,238	90,689,211	86,828,125
Stratum Total	102,932,516	99,525,994	1,927,854	1,858,847	4,953,705	94,180,809	89,617,479
Stratum 16	Black and White Spruce-Hardwood Reproduction					Acreage = 148,757	
Balsam Poplar							
Pole Live	1,055,396	973,053	22,691	20,921	82,076		
Saw Live	226,582	158,607	4,872	3,410	176,275	386,569	270,598
Sum	1,281,978	1,131,660	27,563	24,331	258,351	386,569	270,598
Birch							
Saw Live	342,042	342,042	8,551	8,551	75	1,302,434	1,302,434
Pole Live	1,281,001	1,209,032	32,025	30,226	82,364		
Sum	1,623,043	1,551,074	40,576	38,777	82,439	1,302,434	1,302,434
Black Spruce							
Pole Live	10,718,365	10,606,879	182,212	180,317	562,818		
Sum	10,718,365	10,606,879	182,212	180,317	562,818		
White Spruce							
Saw Live	2,379,706	2,379,706	40,455	40,455	65,881	10,263,419	10,263,419
Saw Dead	2,291,558	2,291,558	38,956	38,956	60,096	9,402,863	9,402,863
Pole Live	25,979,742	25,976,598	441,656	441,602	1,252,484		
Sum	30,651,007	30,647,863	521,067	521,014	1,378,461	19,666,282	19,666,282
Stratum Total	44,274,392	43,937,476	771,418	764,438	2,282,069	21,355,285	21,239,315
Grand Totals	318,348,708	304,165,391	5,833,506	5,545,904	14,436,471	505,344,915	472,198,635
						Acreage = 441,607	

Tok Management Area (Trees Greater Than or Equal to 1.5" dbh and Less Than 5" dbh)

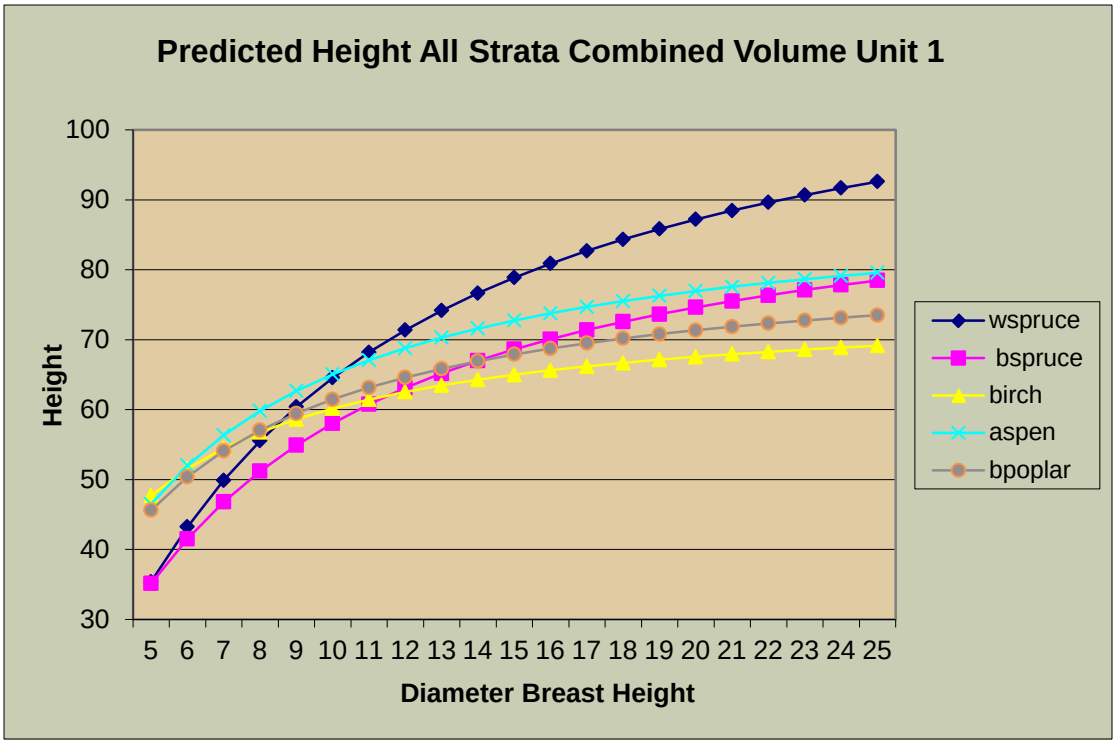
		Total Biomass Tons		
Stratum 1	White Spruce Sawtimber		Acreage =	11,288
Aspen				
Balsam Poplar				
Birch				
Black Spruce		25,849		
White Spruce		38,265		
Stratum Total		64,114		
Stratum 2	White Spruce Poletimber		Acreage =	31,007
Aspen				
Birch				
Black Spruce				
White Spruce		220,461		
Stratum Total		220,461		
Stratum 3	Birch Closed		Acreage =	9,596
Aspen				
Birch		30,516		
Black Spruce				
White Spruce				
Stratum Total		30,516		
Stratum 4	Birch Open		Acreage =	1,523
Birch		2,527		
Black Spruce				
White Spruce		929		
Stratum Total		3,456		
Stratum 5	Aspen Closed		Acreage =	8,142
Aspen		37,941		
Balsam Poplar				
Birch		1,954		
White Spruce		31,509		
Stratum Total		71,403		
Stratum 6	Aspen Open		Acreage =	2,547
Aspen		16,786		
Black Spruce		5,349		
White Spruce		3,719		
Stratum Total		25,854		
Stratum 7	Birch-Aspen Closed		Acreage =	3,035
Aspen		3,157		
Balsam Poplar		2,641		
Birch		6,496		
Black Spruce				
White Spruce		5,828		
Stratum Total		18,121		
Stratum 8	Birch-Aspen Open		Acreage =	346
Aspen				
Balsam Poplar		24		

			Total Biomass Tons	
Birch				
White Spruce				
Stratum Total			24	
Stratum	9	White Spruce-Birch Sawtimber	Acreage =	1,095
Birch				
White Spruce				
Stratum Total				
Stratum	10	White Spruce-Birch Poletimber	Acreage =	10,786
Birch			33,113	
Black Spruce				
White Spruce			52,959	
Stratum Total			86,071	
Stratum	11	White Spruce-Birch-Aspen Sawtimber	Acreage =	1,174
Aspen				
Birch				
White Spruce			3,499	
Stratum Total			3,499	
Stratum	12	White Spruce-Birch-Aspen Poletimber	Acreage =	24,161
Aspen			12,564	
Birch				
White Spruce			46,631	
Stratum Total			59,195	
Stratum	13	White Spruce-Balsam Poplar	Acreage =	6,136
Balsam Poplar			4,848	
Birch				
White Spruce			16,752	
Stratum Total			21,600	
Stratum	14	Black and White Spruce-Birch-Aspen	Acreage =	4,132
Aspen			5,619	
Birch				
Black Spruce			12,271	
White Spruce			49,085	
Stratum Total			66,976	
Stratum	15	White Spruce-Hardwood Reproduction	Acreage =	177,883
Aspen			378,890	
Balsam Poplar			300,622	
Birch			554,994	
Black Spruce			236,584	
White Spruce			1,446,186	
Stratum Total			2,917,275	
Stratum	16	Black and White Spruce-Hardwood Reproduction	Acreage =	148,757
Aspen			279,663	
Balsam Poplar				
Birch			75,866	
Black Spruce			468,584	
White Spruce			1,643,762	

	Total Biomass Tons
Stratum Total	2,467,874
Grand Totals	6,056,440

Acreage = 441,607

Appendix D
Diameter/Height Relationships, Ten Year Growth, and Bark Thickness



Reciprocal dbh height prediction model:

$$ht_{top} = ae^{\frac{-b}{dbh^{c}}}$$

Species	A Coefficient	B Coefficient	C Coefficient
White Spruce	117.82	-6.0161	1
Black Spruce	95.95	-5.0269	1
Birch	75.86	-2.3182	1
Aspen	91.02	-3.3588	1
Balsam Poplar	82.83	-2.9833	1

"e" is a numerical constant that is equal to 2.71828

The corresponding Microsoft Excel equation appears as follows:

Height = A Coefficient*POWER (e, B Coefficient/dbh)

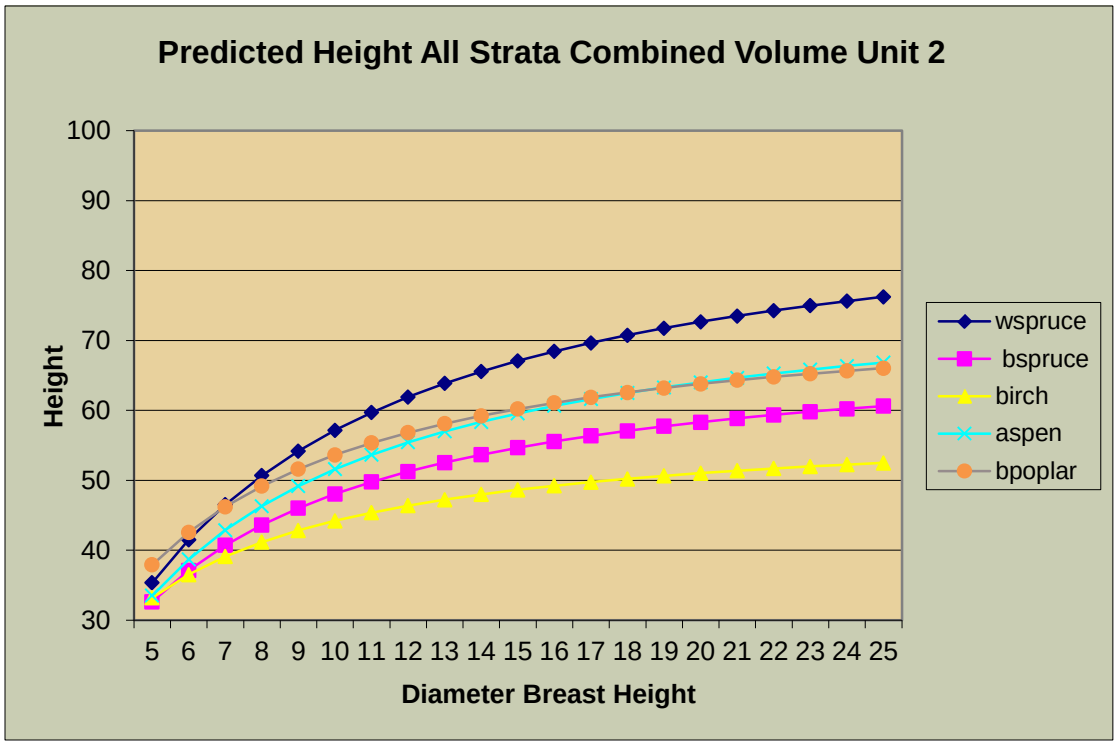
Ten Year Radial Growth and Bark Thickness by Species Volume Unit 1

			Radial Growth (In.)	Single Bark Thickness (In.)
Aspen	(528 detail records)	Average=	0.25	0.37
Balsam Poplar	(119 detail records)	Average=	0.28	0.73
Birch	(1510 detail records)	Average=	0.25	0.34
Black Spruce	(247 detail records)	Average=	0.20	0.35
White Spruce	(1871 detail records)	Average=	0.33	0.38

Bark Thickness Ratio by Species Volume Unit 1

			DBH	DIB*	Bark Thickness Ratio
Aspen	(528 detail records)	Sum=	4,819	4,431	0.919
Balsam Poplar	(119 detail records)	Sum=	1,231	1,057	0.859
Birch	(1510 detail records)	Sum=	13,920	12,892	0.926
Black Spruce	(247 detail records)	Sum=	1,946	1,772	0.911
White Spruce	(1871 detail records)	Sum=	21,817	20,413	0.936
Over All		Sum=	43,733	40,566	0.928

*DIB = Diameter Inside Bark



Reciprocal dbh height prediction model:

$$ht_{top} = ae^{\frac{-b}{dbh^{c}}}$$

Species	A Coefficient	B Coefficient	C Coefficient
White Spruce	117.82	-6.0161	1
Black Spruce	95.95	-5.0269	1
Birch	75.86	-2.3182	1
Aspen	91.02	-3.3588	1
Balsam Poplar	82.83	-2.9833	1

"e" is a numerical constant that is equal to 2.71828

The corresponding Microsoft Excel equation appears as follows:

Height = A Coefficient*POWER (e, B Coefficient/dbh)

Ten Year Radial Growth and Bark Thickness by Species Volume Unit 2

			Radial Growth (In.)	Single Bark Thickness (In.)
Aspen	(114 detail records)	Average=	0.18	0.40
Balsam Poplar	(79 detail records)	Average=	0.27	0.92
Birch	(194 detail records)	Average=	0.19	0.41
Black Spruce	(40 detail records)	Average=	0.12	0.39
White Spruce	(717 detail records)	Average=	0.29	0.43

Bark Thickness Ratio by Species Volume Unit 2

			DBH	DIB*	Bark Thickness Ratio
Aspen	(114 detail records)	Sum=	903	813	0.900
Balsam Poplar	(79 detail records)	Sum=	849	703	0.828
Birch	(194 detail records)	Sum=	1,622	1,464	0.903
Black Spruce	(40 detail records)	Sum=	274	243	0.887
White Spruce	(717 detail records)	Sum=	7,330	6,712	0.916
Over All		Sum=	10,978	9,935	0.905

*DIB = Diameter Inside Bark

Appendix E
Site Index and Age Distribution

Site Index Distribution (Acres) by Stratum for Volume Unit 1

White Spruce Site Index (100 Year)

	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120
Stratum										
1			0	6,344	27,492	14,803	8,459	4,230		
2		2,356	11,781	16,493	25,917	7,068				
3		5,465	16,396	16,396	60,119	43,723	21,861	21,861	5,465	
4				2,631	5,261	5,261		2,631		
5			6,129	6,129	12,258	30,646	12,258			
6				2,648						
7			3,902	23,410	11,705	19,508	7,803	7,803		
8					7,231					3,616
9				8,012	12,017	14,020	8,012	4,006		
10		2,477	9,907	17,337	24,767	14,860	14,860	2,477		
11				1,464	5,854	4,391	5,854			
12				25,320	12,660	29,540	16,880			
13					10,563	5,281	5,281			
14			4,437	13,311	8,874	8,874	4,437			
15				92,866	92,866		92,866	92,866		
16	111,406		445,622							
Percent	7%	1%	29%	14%	19%	12%	12%	8%	<1%	<1%

Birch Site Index (50 Year)

	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Stratum								
1				61,328				
2		31,807	31,807					
3		7,861	73,371	91,713	15,722			2,620
4		3,508	3,508	7,015	1,754			
5		11,237	22,474	33,711				
6								
7	2,556	5,113	40,900	17,894	5,113	2,556		
8			1,808	5,424	1,808			1,808
9			18,427	27,640				
10	14,447	19,263	24,079	28,894				
11			4,391	8,782			4,391	
12	12,057	12,057	36,171	12,057	12,057			
13			21,126					
14	9,983		9,983	19,967				
15		371,465						
16		557,028						
Percent	2%	60%	17%	18%	2%	<1%	<1%	<1%

Aspen Site Index (50 Year)

	30-40	40-50	50-60	60-70
Stratum				
3		38,258	153,030	
4		15,784		
5		32,245	29,314	5,863
6				
7	11,120	33,359	22,239	7,413
8	2,712	2,712	5,424	
11	7,025	3,513	7,025	
12	16,880	33,760	33,760	
13				
14	19,967	19,967		
15		371,465		
Percent	7%	63%	29%	2%

Balsam Poplar Site Index (50 Year)

	30-40	40-50	50-60	60-70
Stratum				
5		33,711		33,711
6				
7			74,131	
8				
9				
10				
11				
12				
13		15,844	5,281	
14				
15				
Percent	0%	57%	29%	14%

Site Index Distribution (Acres) by Stratum for Volume Unit 2

White Spruce Site Index (100 Year)

	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Stratum							
1				5,644	4,515	1,129	
2		11,275	11,275		5,638	2,819	
3			2,399		4,798		2,399
4					1,523		
6				2,547			
7				1,301	1,301	434	
9			274	548	274		
10			2,696	5,393	2,696		
11				587	587		
12			8,054	16,108			
13					4,909		1,227
14				4,132			
15			35,577	71,153	35,577	35,577	
16	29,751	29,751		89,254			
Percent	7%	9%	14%	45%	14%	9%	1%

Birch Site Index (50 Year)

	20-30	30-40	40-50
Stratum			
3		7,197	2,399
4		1,218	305
5			
6			
7	607	2,428	
8	346		
9			
10		10,786	
11			
12			
13			
14			
15	106,730	35,577	35,577
16			
Percent	53%	28%	19%

Aspen Site Index (50 Year)

	20-30	30-40	40-50
Stratum			
3			
4			
5	2,714	2,714	2,714
6	849	849	849
7	759	1,518	759
8			346
9			
10			
11			1,174
12		24,161	
13			
14			
15		177,883	
16			
Percent	2%	95%	3%

Balsam Poplar Site Index (50 Year)

	30-40	40-50	50-60
Stratum			
5		8,142	
6			
7	3,035		
8		346	
9			
10			
11			
12			
13	3,068		3,068
Percent	35%	57%	29%

Age Distribution (Acres) for Volume Unit 1

Stand Age Class	Acres	Percent of Total
0 - 10	282,120	16%
11 - 20	46,357	3%
21 - 30	3,707	0%
31 - 40	14,830	1%
41 - 50	25,952	2%
51 - 60	37,074	2%
61 - 70	40,781	2%
71 - 80	100,099	6%
81 - 90	237,272	14%
91 - 100	211,320	12%
101 - 110	96,392	6%
111 - 120	63,025	4%
121 - 130	74,148	4%
131 - 140	55,611	3%
141 - 150	63,025	4%
151 - 160	92,684	5%
161 - 170	59,318	3%
171 - 180	66,733	4%
181 - 190	33,366	2%
191 - 200	37,074	2%
201 - 210	29,659	2%
211 - 220	3,707	0%
221 - 230	22,244	1%
231 - 240	0	0%
241 - 250	3,707	0%
251 - 260	0	0%
261 - 270	3,707	0%
271 - 280	7,415	0%
	1,711,328	100%

Age Distribution (Acres) for Volume Unit 2

Stand Age Class	Acres	Percent of Total
0 - 10	172,989	39%
11 - 20	161	<1%
21 - 30	16,263	4%
31 - 40	0	0%
41 - 50	913	0%
51 - 60	6,613	1%
61 - 70	13,225	3%
71 - 80	22,042	5%
81 - 90	41,880	9%
91 - 100	22,042	5%
101 - 110	24,246	5%
111 - 120	17,634	4%
121 - 130	17,634	4%
131 - 140	24,246	5%
141 - 150	13,225	3%
151 - 160	6,613	1%
161 - 170	11,021	2%
171 - 180	8,817	2%
181 - 190	4,408	1%
191 - 200	2,204	<1%
201 - 210	2,204	<1%
211 - 220	2,204	<1%
221 - 230	2,204	<1%
231 - 240	2,204	<1%
241 - 250	0	0%
251 - 260	4,408	1%
371 - 380	2,204	<1%
	441,607	100%

Appendix F
TREE QUALITY

Puget Sound Log Scaling and Grading Bureau Specifications

Species	Grade No.	Gross Diameter	Gross Length	Minimum Volume	Surface	Annual Ring Count	Slope of Grain
White/Black Spruce	1	20 Inches	16 Feet		75% Clear	8 per Inch	< 3 inches/foot
	2	12 Inches	12 Feet		50% Clear, Knots < 2.5 inches in diameter	8 per Inch	< 2 inches/foot
	3	6 Inches	12 Feet	50 BF Net			May include excessive slope with deduction
	4	5 Inches	12 Feet	10 BF Net			
Aspen/Birch	1	16 Inches	8 Feet		75% Clear		
	2	12 Inches	8 Feet		50% Clear		
	3	10 Inches	8 Feet	10 BF Net			
Balsam Poplar	1	10 Inches	8 Feet		< 4 Knots per log		
	2	6 Inches	8 Feet				
	4	5 Inches	8 Feet	10 BF Net			
All Species Utility Logs	5	4 Inches	12 Feet	10 BF Net			
	Logs do not meet sawmill grades, but are suitable for the production of firm usable chips to an amount not less than 50% of gross scale. A log that is burned or charred or is not mechanically barkable, shall not qualify as a Utility Log.						
All Species Cull Logs	0						
	Logs do not qualify as a Utility Log						

Percent of Measured Sawtimber Trees by Log Grade
Volume Unit 1

	Grade 1st 16' Log	Grade 2nd 16' Log	# Of Trees Measured	% Of Trees Measured
Aspen				
	-	-	40	8%
	-	4	1	0%
	2	3	10	2%
	2	4	2	0%
	2	5	1	0%
	3	-	1	0%
	3	3	7	1%
	3	4	33	7%
	3	5	9	2%
	4	-	27	5%
	4	0	2	0%
	4	4	167	34%
	4	5	103	21%
	5	-	16	3%
	5	2	3	1%
	5	4	7	1%
	5	5	67	14%
Total for Aspen			496	
Balsam Poplar				
	-	-	16	13%
	1	2	13	11%
	2	2	29	24%
	2	3	1	1%
	2	4	10	8%
	2	5	5	4%
	3	3	2	2%
	3	4	1	1%
	3	5	1	1%
	4	-	9	8%
	4	4	2	2%
	4	5	3	3%
	5	-	3	3%
	5	2	1	1%
	5	5	23	19%
Total for Balsam Poplar			119	

	Grade 1st 16' Log	Grade 2nd 16' Log	# Of Trees Measured	% Of Trees Measured
Birch				
	-	-	118	10%
	-	4	1	0%
	-	5	2	0%
	1	2	3	0%
	1	5	1	0%
	2	-	1	0%
	2	3	15	1%
	2	4	3	0%
	2	5	10	1%
	3	-	3	0%
	3	2	1	0%
	3	3	6	1%
	3	4	51	4%
	3	5	42	4%
	4	-	79	7%
	4	3	1	0%
	4	4	266	23%
	4	5	265	23%
	5	-	116	10%
	5	0	1	0%
	5	3	1	0%
	5	4	11	1%
	5	5	153	13%
Total for Birch			1150	
Black Spruce				
	-	-	2	2%
	1	3	1	1%
	3	3	3	4%
	3	4	5	6%
	4	-	8	10%
	4	4	26	32%
	4	5	30	37%
	5	-	3	4%
	5	5	3	4%
Total for Black Spruce			81	

	Grade 1st 16' Log	Grade 2nd 16' Log	# Of Trees Measured	% Of Trees Measured
White Spruce				
	-	-	56	3%
	0	4	1	0%
	0	5	1	0%
	1	1	4	0%
	1	2	15	1%
	1	5	1	0%
	2	-	1	0%
	2	2	177	8%
	2	3	261	12%
	2	4	24	1%
	2	5	6	0%
	3	-	4	0%
	3	0	1	0%
	3	3	130	6%
	3	4	368	17%
	3	5	33	2%
	4	-	82	4%
	4	0	1	0%
	4	3	2	0%
	4	4	557	26%
	4	5	272	13%
	5	-	54	3%
	5	3	2	0%
	5	4	4	0%
	5	5	48	2%
Total for White Spruce			2105	
Grand Total Trees Measured			3951	

Percent of Measured Sawtimber Trees by Log Grade
Volume Unit 2

	Grade 1st 16' Log	Grade 2nd 16' Log	# Of Trees Measured	% Of Trees Measured
Aspen				
	-	-	1	2%
	2	4	1	2%
	3	3	1	2%
	3	4	2	5%
	4	-	1	2%
	4	4	13	30%
	4	5	11	25%
	5	-	2	5%
	5	5	12	27%
Total for Aspen			44	
Balsam Poplar				
	-	-	23	20%
	1	2	8	7%
	2	2	22	19%
	2	3	1	1%
	2	4	4	4%
	2	5	8	7%
	4	4	1	1%
	4	5	9	8%
	5	-	6	5%
	5	5	32	28%
Total for Balsam Poplar			114	
Birch				
	-	-	14	13%
	2	4	2	2%
	3	4	1	1%
	3	5	2	2%
	4	-	1	1%
	4	4	3	3%
	4	5	29	27%
	5	-	18	17%
	5	4	1	1%
	5	5	35	33%
Total for Birch			106	

	Grade 1st 16' Log	Grade 2nd 16' Log	# Of Trees Measured	% Of Trees Measured
Black Spruce				
	-	-	1	25%
	4	4	1	25%
	4	5	2	50%
Total for Black Spruce			4	
White Spruce				
	-	-	14	2%
	1	2	1	0%
	1	3	2	0%
	2	-	1	0%
	2	2	20	3%
	2	3	27	5%
	2	4	6	1%
	2	5	5	1%
	3	3	10	2%
	3	4	92	16%
	3	5	8	1%
	4	-	10	2%
	4	4	193	33%
	4	5	139	24%
	5	-	14	2%
	5	5	38	7%
Total for White Spruce			580	
Grand Total Trees Measured			848	

Tree History Codes

Tree history codes are used to express differences between trees in terms relating to the desired management of the stand.

Code	Description
1	Desirable crop trees. a. Less than rotation age (assume 150 years spruce, 100 years hardwood) b. Alive c. Noncull d. A commercial species e. Capable of producing one merchantable sawlog f. Isolated, dominant, or codominate trees g. At least 40 percent covered with live crown h. Of good form i. Free of defect indicators
2	Acceptable crop trees. a. Less than rotation age (assume 150 years spruce, 100 years hardwood) b. Alive c. Noncull d. A commercial species e. Capable of producing one merchantable sawlog f. Normal conical shaped crown. No evidence of flattening crown. Pole sized crop trees with deformed crowns will be classed as sound cull.
3	Mature high risk trees. a. Over rotation age (assume 150 years spruce, 100 years hardwood) b. Alive c. Noncull d. A commercial species e. Capable of producing one merchantable sawlog f. Of fair or poor vigor, as indicated by low crown ratio, dead branches, disease, internal rot, and/or mechanical damage.
4	Mature low risk trees. Trees will be coded low-risk only if obviously healthy and vigorous and if no damage code applies to it. a. Over rotation age (assume 150 years spruce, 100 years hardwood) b. Alive c. Noncull d. A commercial species e. Capable of producing one merchantable sawlog f. Of good vigor, as indicated by high crown ratio, vigorous leader, no evidence of disease, rot or mechanical damage.
5	Rotten cull trees. Trees not able to produce one merchantable log, primarily due to defect. a. Alive b. More than 75 percent rotten cull in softwoods and more than 50 percent rotten cull in hardwoods
6	Sound cull trees. Trees not able to produce one merchantable sawlog, primarily due to defect. a. Alive b. Not rotten cull trees

c. Trees not able to produce one merchantable sawlog, now or in the future, primarily due to bole roughness and poor form, or deformed or sparsely needled crown, or is a noncommercial species.

7 Salvable dead trees.
- a. Dead within the last five years
- b. Sawtimber
- c. A commercial species
- d. Contain at least one merchantable log

8 Non-salvable dead trees.
- a. Dead within the last five years
- b. A commercial species
- c. No salvable sawlogs

Percent of Measured Trees by Tree History
Volume Unit 1

Tree History	# Of Trees Measured	% Of Trees Measured	
Aspen			
	1	59	5%
	2	917	70%
	3	64	5%
	4	12	1%
	5	18	1%
	6	214	16%
	7	6	0%
	8	14	1%
Total for Aspen		1304	
Balsam Poplar			
	1	10	5%
	2	92	44%
	3	43	21%
	5	11	5%
	6	46	22%
	7	1	0%
	8	4	2%
Total for Balsam Poplar		207	
Birch			
	1	185	6%
	2	1764	58%
	3	287	9%
	4	98	3%
	5	92	3%

	6	605	20%
	7	8	0%
	8	20	1%
Total for Birch		3059	
Black Spruce			
	1	14	4%
	2	250	63%
	3	18	5%
	4	14	4%
	5	3	1%
	6	86	22%
	7	5	1%
	8	5	1%
Total for Black Spruce		395	
White Spruce			
	1	894	27%
	2	1683	52%
	3	139	4%
	4	307	9%
	5	13	0%
	6	158	5%
	7	35	1%
	8	25	1%
Total for White Spruce		3254	
Grand Total Trees Measured		8219	

Percent of Measured Trees by Tree History
Volume Unit 2

	Tree History	# Of Trees Measured	% Of Trees Measured
Aspen			
	1	4	2%
	2	118	57%
	3	8	4%
	4	1	0%
	5	1	0%
	6	64	31%
	7	1	0%
	8	10	5%
Total for Aspen		207	

Balsam Poplar			
	1	3	2%
	2	101	52%
	3	5	3%
	5	26	13%
	6	54	28%
	7	1	1%
	8	3	2%
Total for Balsam Poplar		193	
Birch			
	1	6	2%
	2	95	30%
	3	31	10%
	4	2	1%
	5	24	8%
	6	150	48%
	8	4	1%
Total for Birch		312	
Black Spruce			
	1	2	3%
	2	43	61%
	3	5	7%
	4	1	1%
	5	1	1%
	6	18	25%
	8	1	1%
Total for Black Spruce		71	
White Spruce			
	1	176	14%
	2	852	65%
	3	76	6%
	4	64	5%
	5	4	0%
	6	97	7%
	7	15	1%
	8	17	1%
Total for White Spruce		1301	
Grand Total Trees Measured		2084	