

STATE OF ALASKA DEPARTMENT OF NATURAL
RESOURCES, DIVISION OF FORESTRY-
NORTHERN REGION

**FIVE YEAR
SCHEDULE OF
TIMBER SALES
FY 2012-2016**

DELTA AREA FORESTRY - FINAL REPORT

Resource Forester
Delta Area Forestry
7/3/2012

Statement of Adoption of Timber Harvest Schedule

Fiscal Years 2012 Through 2016

Alaska Division of Forestry – Delta Resource Area

Alaska Statute 38.05.113(a) specifies that the state shall annually prepare a five-year schedule of timber sales planned on all lands managed by the department. This statement summarizes the procedures taken and adopts the schedule for the Delta Area of the Alaska Division of Forestry.

The Delta Area of the Division of Forestry sent its Agency Review Draft of the Five-Year Timber Harvest Schedule to 10 state and federal agencies on March 29, 2012. The comment period ended May 2, 2012. Comment was received from the Department of Natural Resources Office of Habitat Management & Permitting, Office of History and Archeology, Division of Parks, Alaska Mental Health Trust Land Office and the Department of Fish & Game. No changes were required to the Schedule as a result of the comments received. A response was sent to each commenting agency.

The public comment period began on May 25, 2012 and ended June 25, 2012. Display ads were published in the Fairbanks Daily News-Miner on June 3, 2012, and in the Delta Wind on June 7, 2012. The Schedule was posted on the Division of Forestry's Internet web page. In addition, forty-two notices of the Schedule were mailed to local governments, federal agencies, community service organizations, advisory groups, and interested citizens. No Public comments were received.

This Five Year Schedule is the final result of both the agency and public review process and formalizes intent to offer the sales shown in fiscal year 2012 and 2016 of the Schedule in the Delta Resource Area. It also establishes a general intent to offer certain sales during the three subsequent fiscal years (2012 to 2014).

We hereby adopt the Delta Resource Area Five Year Schedule of Timber Sales for fiscal years 2012 through 2016 in accordance with the provision of AS 35.05.113(a).



Al Edgren
Delta Area Forester



Date

FIVE-YEAR SCHEDULE OF TIMBER SALES

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EXECUTIVE SUMMARY

The Delta Resource Area Five Year Schedule of Timber Sales (FYSTS) is a planning document that is utilized to inform the public and the forest products industry of future resource projects, based on anticipated future resource demands. The FYSTS also provides a basis with which to comment on proposed sale offerings. This FYSTS provides information about future timber sales and associated road construction and reforestation activities in the Delta Management Area during Fiscal Years 2012-2016. (§AS 38.05.113)

Actual offerings scheduled, may be adjusted due to market demand shifts, wildland fire impacts, and resource allocations. Individual timber sale offerings will be proposed and reviewed in specific Forest Land Use Plan (FLUP). The individual FLUP will be the final document determining the actual sale boundaries, volumes, and resource impacts of the proposed sale. The FLUP documentation will also be subject to agency and public review prior to final adoption.

The demand for forest resources in the Delta Resource Area has significantly increased in the last two years. Forest biomass for fuelwood needs have been responsible for this increase. Completed (Delta High School) and proposed (Fort Greely) biomass heating facilities have necessitated an increase in proposed biomass sales for the 2012-16 FYSTS. Fuelwood, both residential heating cordwood and chipped biomass, is expected to exceed the sawlog market demand in the Delta Junction Area if current trends continue and proposed commercial biomass facilities become a reality. Demand for residential cordwood is also predicted to increase as heating oil prices continue to rise.

Currently, commercial harvests of residential fuelwood are being salvaged from burn areas accessed via the Pogo Road. These areas as well as other fire salvage areas will also be utilized to supply large quantities of fuelwood feed stock, if available based on degradation limitations and availability. Utilization of this salvageable resource will be used to minimize the impacts to the “green” resource but will not be sufficient to supply all of the anticipated demand if a large woody biomass fueled facility is constructed in the Delta area.

The forest management activities identified in this FYSTS are consistent with the Tanana Basin Area Plan (TBAP) and the Tanana Valley State Forest Plan (TVSF). The TBAP and TVSF plans cover approximately 2.5 million acres of state lands in the Delta Area. Forest resource management activities incorporate Best Management Practices for Timber Harvest Operations (BMPs) and Alaska Forest Resources and Practices Act (FRPA) to protect and mitigate impacts to the land and wildlife resources on lands managed by the Alaska Division of Forestry. Specific resource concerns and management activities are addressed in Forest Land Use Plans (FLUPs). FLUPs will undergo Agency and Public review before implementation on the ground.

Agency review of the Delta 2012-2016 FYSTS was completed on May 2, 2012. Agency comments were reviewed and considered; no significant changes to the Delta Area 2012-16 FYSTS occurred as a result of Agency comments. The 2012-2016 FYSTS was

published in the Fairbanks News Miner and Delta Wind news papers as well on the Division of Forestry public website in order to notify the general public of their opportunity to comment on the plan. An additional forty two individuals, local governmental agencies, and groups including the Tanana Valley State Forest Citizens Advisory Committee, were mailed notices for public comment regarding the Delta 2012-2016 FYSTS. Public review was completed on June 25, 2012. No public comments were received.

HARVEST SCHEDULE SUMMARY

The following table identifies the timber sales that are proposed during the next five fiscal years. The amount to be offered is dependent upon funding, market demands, and subject to wildland fire impacts to the resource base. The FY12-13 sales that would require additional funding are identified separately. The funding levels are not predicted for FY14-16. Additional information about Delta area allowable harvest quantities is noted in Tables 1-3.

FY 2012-2016 DELTA RESOURCE AREA FIVE YEAR SCHEDULE OF TIMBER SALES								
Fiscal Year	Sale Type	Number of Sales	Spruce Harvest CCF	Spruce Sawlog Harvest MBF	Birch & Aspen Hardwoods CCF	Biomass Harvest Tons _g	Fire Salvage Harvest CCF	Harvest Acres
12	Sawlog	6	28,360	7,378	3,650			1,188
	Biomass	1	9,900			16,830		382
	Salvage	2					6,650	340
13	Sawlog	2	900	270	3,000			250
	Sawlog ¹	6	6,200	1,860	1,500			462
	Biomass ¹	2	1,500		2,200	7,665		250
	Salvage ²	1				48,125	25,000	1,350
14	Sawlog	1	1,400	467				70
	Sawlog ¹	9	15,950	5,363	400			780
15	Sawlog ¹	7	14,600	4,600	3,200	340		530
	Biomass ¹	3	15,000		16,000	62,075		1,670
16	Sawlog ¹	8	27,340	9,133	7,600			1,740

Note¹ - Sale Proposals are dependent upon funding and market demand.

Note² - Available amount dependant upon final FLUP evaluation (East Volkmar).

TRANSPORTATION SCHEDULE SUMMARY

<u>Fiscal Year</u>	<u>All Season Road</u>		<u>Winter Road</u>	
	Construction	Maintenance	Construction	Maintenance
2012/13 T.S.	5.0 Miles	20.75 miles	.8 miles	2 miles
2012/13 CIP	4.5 Miles	5.5 miles	5.4 Miles	1.5 miles

In conjunction with timber harvesting, the Delta Area is anticipating construction of approximately 5 miles of all-season and winter roads during the first year of the schedule. An average of 5 miles of construction per year is anticipated during the next 4 years. New areas of construction are anticipated near the Gerstle River, Pogo Road, Black Lake, Indian Creek and Rapid Creek drainages, west of the Delta River, and north of Caribou Creek.

The Delta Area will also be constructing approximately 10 miles of road for access to public firewood areas and future timber harvest areas. These road construction projects have been funded by the Delta Area FY 2012 Capital Improvement Project funds. The construction projects include:

- 1) Delta River West (aka Delta Firebreak Road): ≈ 5.4 miles of secondary winter road west of the Delta River.
- 2) Quartz Lake Extension: ≈ 2.0 miles of secondary all season road.
- 3) Bert Mountain Road: ≈ 2.0 miles of secondary all season road.

Transportation Scheduling is not included for years 2014 thru 2016 because it has proven to be too variable to estimate construction for more than two years.

REFORESTATION SCHEDULE SUMMARY

<u>Fiscal Year</u>	<u>Scarification</u>	<u>Plant</u>	<u>Cost</u>	<u>No. of Seedlings</u>
2012	10 acres			
2013	20 acres	123 ac.	\$18,500	19,100

The majority of the harvested areas are reforested naturally. Careful logging practices protect seedling, sapling, pole timber, and seed trees. Spruce seedlings are planted to augment the natural regeneration on specific sites when necessary.

Scarification is not a standard practice but it is employed where deemed necessary to ensure reforestation. Sale areas are examined frequently after harvest to evaluate reforestation success. Areas needing additional stocking are planted during the 6th year after harvesting has been completed. Due to the variability of the reforestation needs, the reforestation schedule is projected for only the first two years.

Anticipated reforestation needs for proposed biomass harvest areas will be addressed as required under Alaska Forest Resources and Practices Regulations as actual sale activities occur.

INTRODUCTION

This Five-Year Schedule of Timber Sales provides information to the public concerning development and use of the state's forest resources for the period July 2011 – June 2016. The Five-Year Schedule of Timber Sales (FYSTS) meets the Forest Resources and Practices Act requirements and acts as a basis for Public information and internal Division of Forestry budgeting.

A FYSTS provides a basis for Department of Natural Resources (DNR) to decide where to pursue timber sale planning. It provides the public, timber industry, and local governments with an overview of proposed timber activities on state lands throughout the Delta Area for the next five years. Listing a proposed sale does not mean a decision has been made to proceed with the sale. The Schedule solicits input on whether or not to proceed with sale planning, and on concerns to be addressed in sale design.

It is the policy of the DNR that: 1) All sales, including salvage sales and sales less than 160 acres, will be included in the two Five-Year Schedules preceding the sale whenever possible. 2) All sales, including salvage sales and sales less than 160 acres, will appear on at least the Five-Year Schedule preceding the sale unless waiting for the Schedule will: a) cause substantial losses of economic value on salvage sales under AS 38.05.117, or, b) for sales less than 160 acres, preclude a local economic enterprise or forest management project that is in the State's best interest.

After adopting the Schedule, the Division of Forestry (DOF) will do more detailed fieldwork to assess and design proposed sales. Before any commercial timber sale of ten acres or larger is offered, DOF must make a finding that the sale is in the State's best interest and prepare a detailed Forest Land Use Plan (FLUP). The FLUP describes the location, estimated timber volume, harvest methods, reforestation plan, access, and multiple use considerations for each sale. Based on fieldwork, agency comments and public input, DOF may make changes to individual sales previously listed in the schedule. Any changes from the Schedule's description will be incorporated into the FLUP. DOF reviews each FLUP with the public and other agencies before adopting it. The FLUP, not the Five-Year Schedule, is the final document that decides whether or not DOF will offer a timber sale. All best interest findings and Forest Land Use Plans will be completed separately on a sale-by-sale basis. If a sale has been through the Schedule and FLUP processes, and was offered as scheduled but not purchased, or was sold as scheduled and returned to the State uncompleted, it can be re-offered within two years of the scheduled sale year without being included in the schedule again.

CURRENT MARKET SYNOPSIS AND PROJECTIONS

Prior to 2011 the demand for forest resources in the Delta area was primarily driven by the demand for white spruce saw timber. The sawtimber was utilized as feed stock for the small milled cabin and dimension lumber production facilities in the local area. Average annual harvests for white spruce sawtimber in the Delta area has been approximately 1.5 MMBF annually. The current harvest levels of 1.5MMBF are expected to remain relatively stable based on current market observations. This 2012-

2016 FYSTS reflects this trend and accommodates a 10% annual increase to facilitate possible increases of saw timber demand.

The demand for other forest resources in the local Delta area has undergone a significant increase in the last two years. These increases in alternative and historic forest resource uses are in response to the current upward trend of heating oil pricing. The two primary drivers to this increase of resource demand has been the Delta High school biomass heating facility, and the increase in residential fuelwood demand.

The Delta High school biomass heating system became operational in September of 2011. This facility is projected to require 500 tons_{S20%mc} of fuelwood annually based on the current usage rates. Expansion, due to the facilities costs savings, is being discussed but no expansion is expected in the immediate future.

Personal use residential fuelwood demand has increased by over 250.1% to over 500 Cords (thru 3QTR FY2012). Currently, Personal Use fuelwood demand is in excess of supply due to the lack of access in the local Delta area. Annual residential fuelwood demand from the Delta area has increased to over 2,000 Cords per year (compilation of personal use and commercial production FY2012). Demand for residential fuelwood may potentially exceed 5,000 Cords annually when factoring demand from residents outside the local Delta area. Commercial fuelwood harvests from wildland fire salvage areas along Pogo Road have been responsible for maintaining a steady supply of residential fuelwood demand. This supply is anticipated to begin declining as degradation of the resource (decay) and access costs increase.

Additional fuelwood utilization may be on the horizon, as Ft. Greely (U.S. Army) is currently scoping the possible shift from the current oil fired heating complex to a biomass fueled system. This change in fuel stock for the Ft Greely facility is in conjunction with the Federal mandate for a 30% renewable energy usage in all Federal facilities. The current energy audit of this facility is expected to be completed spring/summer 2012. Actual biomass demand for this facility is currently being reviewed, but is anticipated to consume between 7,500 and 15,000 tons_{Sbd} of fuelwood per year.

The 2012-2016 Delta Area FYSTS reflects these actual and proposed increases in demand for fuelwood in the Delta Resource Area. Increases to the historic average annual harvest will be necessary to accommodate these actual and proposed fuelwood needs. The 2012-2016 FYSTS includes the anticipated needs of the Ft Greely facility in order to notify interested parties of such a large project and the resource demands. The actual implementation of these proposed large fuelwood sales are contingent upon the progress of the Ft Greely biomass project or other large scale project using large quantities of fuelwood biomass.

ALLOWABLE HARVEST

The estimated biologic sustained yield harvest potential for the Delta Area was developed by summarizing the lands that can grow commercial quality forests. Land classifications, which designated forestry or timber management as a primary or secondary use, were

included in the evaluation. Other forested State lands, which allow timber harvest on a case-by-case basis, were not included in the evaluation. Approximately 655,000 acres of forested State lands in the Delta Area are excluded from the evaluation because of their classification or poor quality. Re-evaluation of these areas may be appropriate as biomass production evolves.

The report, “Tanana Valley Allowable Cut Determination”, January 30, 2001, indicates about 480,667 acres are capable of producing a commercial quality forest on lands with a primary or secondary forestry classification in the Delta Area. The rotation lengths vary for each species and the site quality. Generally rotation lengths averaged at 70 years for deciduous trees and 110 years for white spruce. An additional 10 years was added to provide a spruce reforestation period, raising the rotation to 120 years for white spruce.

The report calculated the sustained yield over a 10-year period. Based on the report, the Delta Area can be expected to support a sustained yield of 4,873,600 cubic feet of white spruce and 5,412,700 cubic feet of hardwoods on roughly 5,092 acres per year.

The report reduced the biological sustained yield to accommodate various harvest constraints in the TVSF plan. This report establishes the Delta Management Area allowable cut.

Several large fires have occurred in the Delta Area since the report, burning an estimated 46,000 acres of commercial forest. Analysis indicates that poorer quality commercial stands had the preponderance of burned acreage but a substantial amount of average–good commercial volume exists in these areas.

The majority of all commercial forest land in Delta is comprised of deciduous species. These birch, aspen, and poplar stands are naturally converting to white spruce. If this trend continues, the Delta Area is expected to have more white spruce available for harvest in future years than exists presently because of natural stand conversions. Fuelwood harvests in deciduous stands may become significant as the rotational growth and yield for these stands can be more productive than white spruce stands for fuelwood production. The current analysis does not maximize productive capacity of these areas as interior Alaska harvesting capabilities are currently not appropriate for these small diameter stands.

A new forest inventory is documented in a draft report, “Timber Resources on State Forest Lands in the Tanana Valley Inventory Update, January, 2010”. The estimated biologic sustained yield harvest potential for the Delta Area was developed by summarizing the lands that can grow commercial quality forests. This inventory update evaluated 707,367 of 833,817 acres of land in the Delta Area, designated forestry or timber management, as a primary or secondary use. The remaining 126,450 acres not evaluated had been burned or lacked adequate imaging data. Other forested state lands, which allow timber harvest on a case-by-case basis, were not included in the evaluation. Approximately 1,679,116 acres of state lands in the Delta Area were excluded from the evaluation because of their lack of imaging data, classification, or poor quality.

Inventory analysis is ongoing to finalize the draft report “Timber Resources on State Forest Lands in the Tanana Valley Inventory Update, January, 2010”. Review of previously determined low volume stands, as well as economic rotational age for deciduous stands are being undertaken. Upon completion the Delta Resource Area will adopt the recommendations on these assessments of forest resource sustained yields available in the Delta Area.

When considering the proposed harvest amounts and the information from the recent inventory update, it is important to understand how it relates to the entire Delta Area. The land base in the Delta Management Area is categorized by ownership as follows:

<u>ACRES</u>	
500,580	Tanana Valley State Forest Lands
333,237	Commercial Forest Classified State Lands
1,679,116	Other State Lands
436,597	Military Lands
387,679	BLM Lands
291,343	Other Federal Lands
235,886	Native Corporation Lands
151,096	All Private Lands (includes farms, residential lots, homesteads, native allotments, etc.)
<hr/>	
4,015,534	TOTAL LAND BASE

HARVEST PLANNING

Table 1- Timber Harvest Schedule, lists 8 to 11 commercial sales that could be offered annually in years 1-5. This five-year harvest schedule proposes an average annual harvest of 2,423,000 cubic feet of white and black spruce and 751,000 cubic feet of hardwoods. This harvest level is 30.9% of the total estimated sustained yield for all species, and 49.7% of the estimated sustained yield of white spruce and 13.9% of the estimated sustained yield for hardwoods in the Delta Area.

The schedule proposes a total five-year harvest of 12,115,000 cubic feet of spruce, however, it should be noted that 3,393,700 cubic feet (or 28%) is for biomass sales from poor quality sawtimber and poletimber, including black spruce. The adjusted annual harvest level (less spruce biomass volume) for the Delta Area is; 1,744,260 cubic feet of white spruce sawlog or 34.9% of the sustained annual allowable spruce sawtimber harvest.

The majority of the proposed sales contain white spruce 90 to 220 years old. Spruce stands in the Delta Area are often uneven-aged because of the slow succession from deciduous birch, aspen and poplar and eventually to white spruce. Except for fire sales, harvests are generally selective or partial cuts, usually leaving 20 or more trees/acre after sale completion.

Wildfire burn areas will continue to be the primary focal point of harvest activities. Harvest in these areas allows DOF to maximize the harvest of forest resources lost due to the wildfires. The volume suitable for harvest is dependent upon stand types and volumes, accessibility, and logging contractor capabilities available in the Alaska interior. Typically, 10 years is available to harvest these areas before degradation, due to decay, of the recoverable volume. Actual economic viability of the recoverable resource may shorten the fore mentioned 10 year harvest window.

Continued supply of White Spruce sawtimber will be accomplished by capitalizing on recoverable volumes within salvage areas as well as continuing with timber sales at current sales levels. Increased harvest activity is anticipated in Tanana Basin Area Plan (TBAP) units 7B1, B2, C1 and Tanana Valley State Forest (TVSF) unit 9A. This harvest activity will facilitate wildland fire protection in these areas, increased local recreational opportunity, and personal use fuelwood harvesting while supplying timber for the local milling industry.

Currently, the sawtimber market has been lower than previous FYSTS periods, but inquiries for commercial biomass sales and fuelwood have increased significantly. As economic recovery continues sawtimber harvest levels are expected to rebound. An increase of 10% of from current timber sales levels is incorporated into this FYSTS to accommodate future saw timber market demand.

Actual amount of volume offered for sale is dependent upon funding level and market demand. The executive summary identifies the sales and volumes that would require additional funding to be developed and offered in FY 12-13. The funding level is not predicted for FY 2014-2016.

Proposed Forest Land Use Plan (FLUP) area maps to be submitted for review in FY12 are included on pages 9-12. NC 1395-D has completed Agency review and shall be submitted for Public review spring 2012. All other timber sales listed in FY12 of the Delta FYSTS have completed the Agency and Public review process. FLUP NC 1492-D, East Volkmar Fire Salvage, area map is included as “time is of the essence” in order to harvest sawlog volumes before significant degradation occurs to the resource. Other FY13 FLUP submittals are funding and market dependant.

Proposed harvest levels in this Schedule are within possible changes to the allowable cut.

AGRICULTURE LANDS

Merchantable timber on vacant agriculture tracts may be sold through a negotiated sale process in Year One of the plan. No sales are currently planned on agriculture tracts for FY12 but this could change with ownership status. Timber sale and harvest operations are contingent upon approval by the Division of Agriculture. The farm conservation plan requirements will need to be met. Timber volumes to be sold from agriculture tracts are not part of the timber base for State lands in the Tanana Basin Area Plan (TBAP) or the Tanana Valley State Forest (TVSF).

TRANSPORTATION

All season transportation infrastructure in the Delta area severely restricts the availability of personal use fuelwood harvests. Typically, access for personal use fuelwood harvest is facilitated by commercial harvesting operations. Due to the increase of commercial sawlog and salvage harvest activities along the Pogo Road corridor and away from publicly accessible areas the opportunities for personal harvest areas have decreased.

Timber sale access development will continue to pioneer roads into the surrounding forests of the Delta Area to supply current and anticipated resource needs. Construction and maintenance of roads is usually completed by the purchasers of timber sale contracts. During FY2012 and 2013 additional construction and maintenance will be completed by Capital Improvement Projects (CIP). These CIP projects will increase opportunities for personal use fuelwood harvests, recreational opportunities as well as timber harvests.

The FYSTS anticipates new road construction to access timber sales at Fowlers' Farm, Shaw Creek Flats, Indian Creek and Rapid Creek drainages (TVSF 9A), Gerstle River drainage, Black Lake area, Little Gerstle River as well as the west side of the Delta River and along the Tanana River (Table 2 Transportation). Road construction and maintenance in these areas will sustain and facilitate the increased forest resource demands, as well as public access in the local area.

DOF will address each access development in the Forest Land Use Plans of proposed timber sales submitted for agency and public review. Access development will be in accordance with the Alaska Forest Resources and Practices Act.

REFORESTATION

Reforestation is completed through sale design which promotes natural seeding through seed trees, protection of existing saplings and pole timber during harvest operations, sale scarification where appropriate, direct spot seeding, and planting of seedlings.

Sale areas, almost without exception, reforest to a mixed stand of white spruce, birch, aspen and poplar. Overstocking is as much of a concern as under-stocking. Reforestation progress is monitored year by year to ensure adequate stocking. All harvest areas rely on natural seeding to some degree. Reforestation efforts have been successful in the Delta Area.

Current practices require the timber sale purchaser to complete scarification, when necessary. The State provides the tree seedlings and completes planting through a tree-planting contractor or agency personnel. Native species will be used for all plantings.

CONVERSION FACTORS

- One cubic foot (cuft) \approx 3.33 board feet or 300 cuft \approx 1000 board feet (MBF).
- One cuft (green wt) \approx 42 lbs or 47.62 cuft \approx 1 ton
- One Cord = 128 cubic feet.
- “Rule of thumb” volume conversion: 1 unit of solid wood biomass = 2 units of chipped wood biomass

COMMENTS

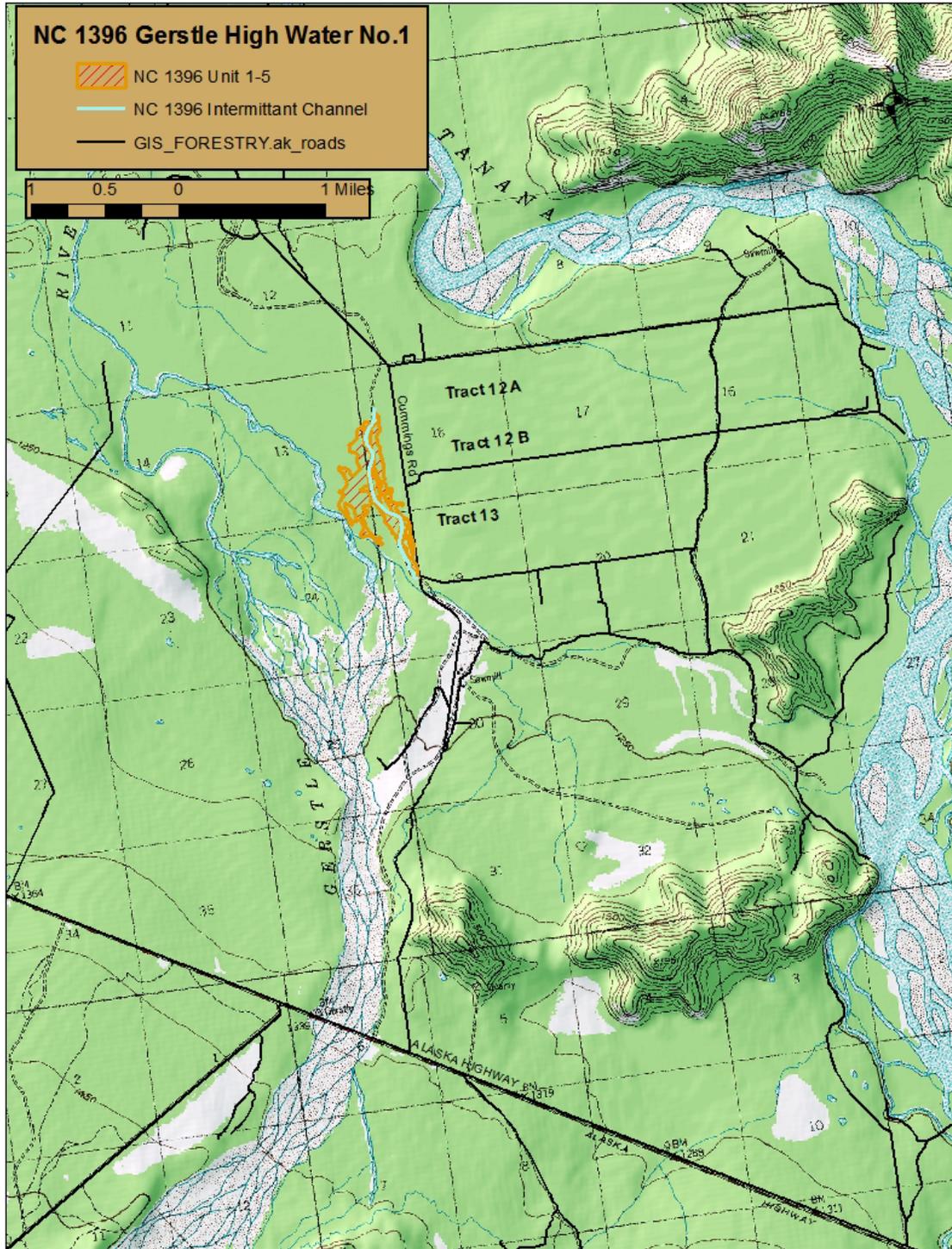
Please address your comments to the attention of Mike Reggear at:

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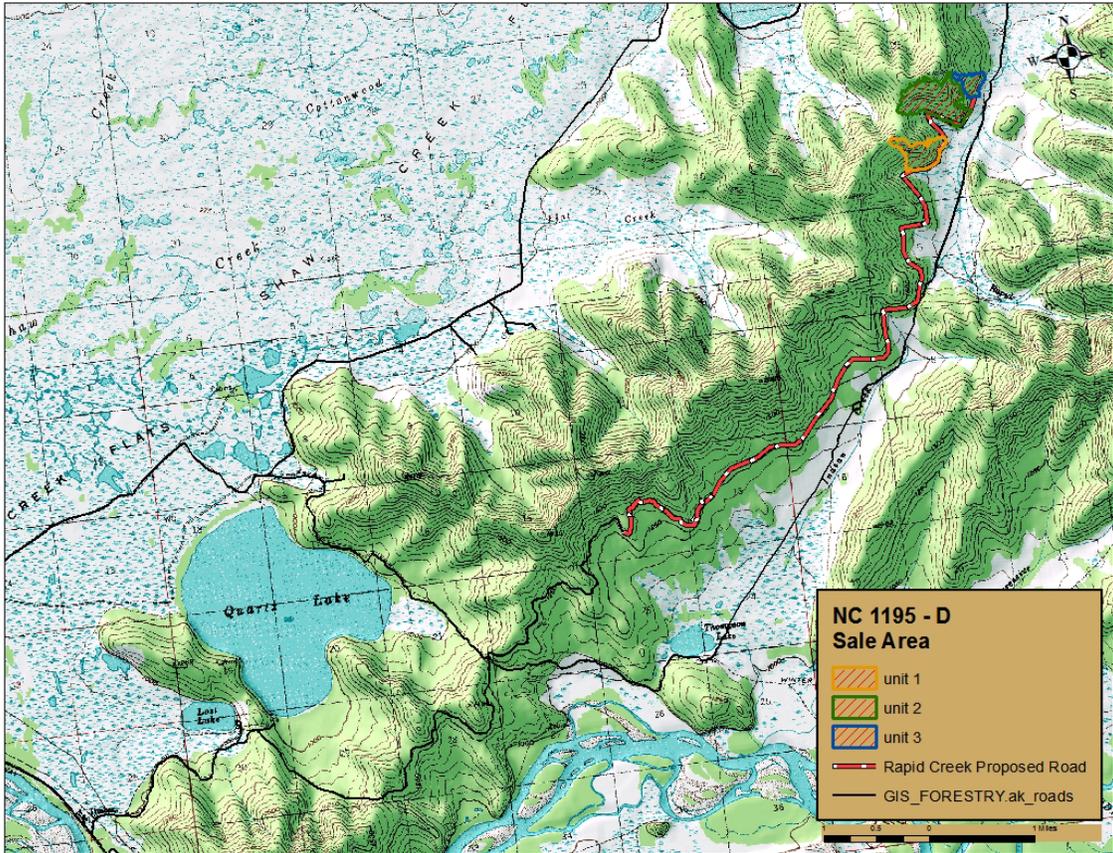
Delta FY12 Proposed Timber Sale

NC 1396 Gerstle Highwater No.1



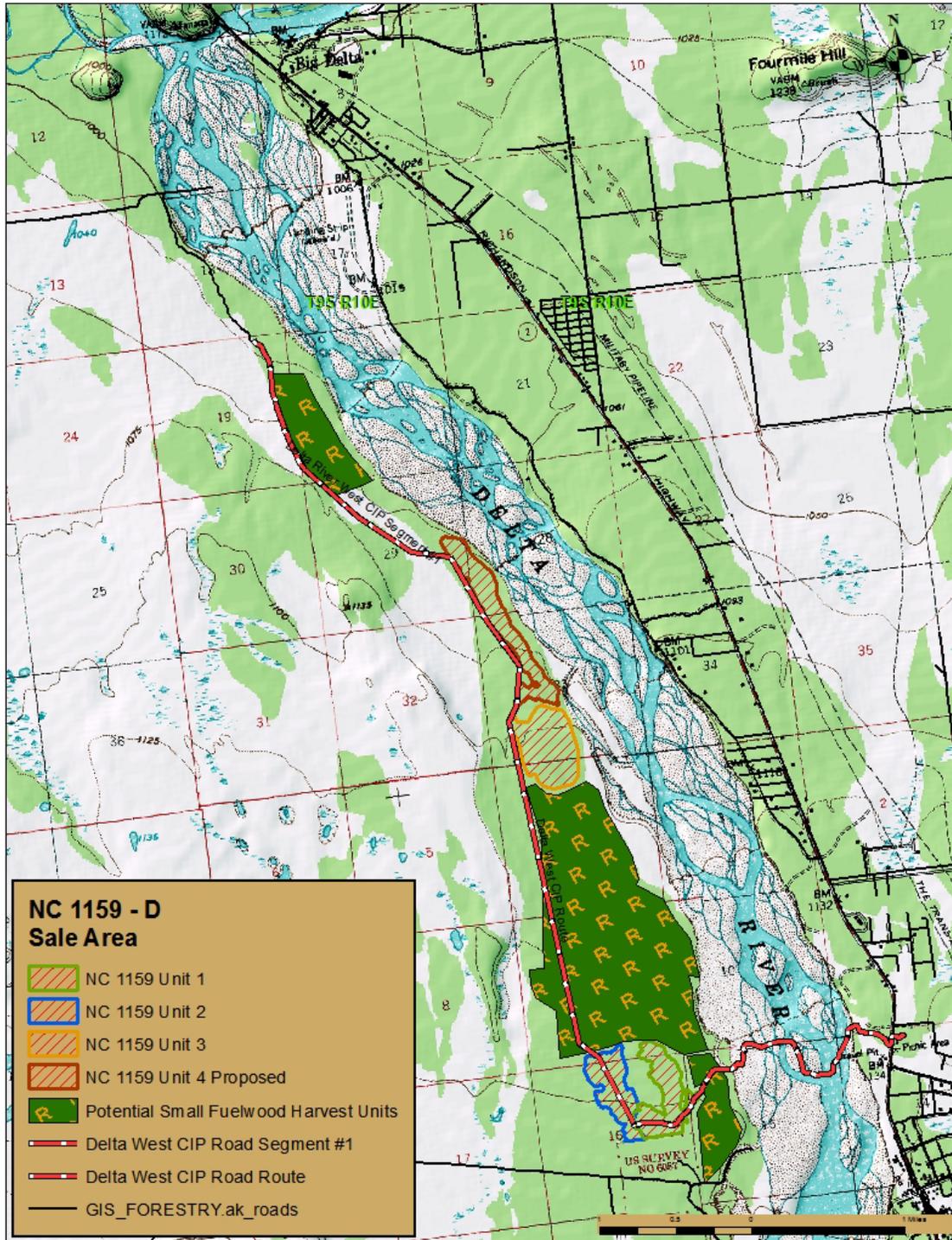
Delta FY12 Proposed Timber Sale

NC 1195 Rapid Creek No.1



Delta FY12 Proposed Timber Sale

NC 1159-D Delta River Firebreak No.3



Delta FY13 Proposed Timber Sale

NC 1492-D East Volkmar Fire Salvage

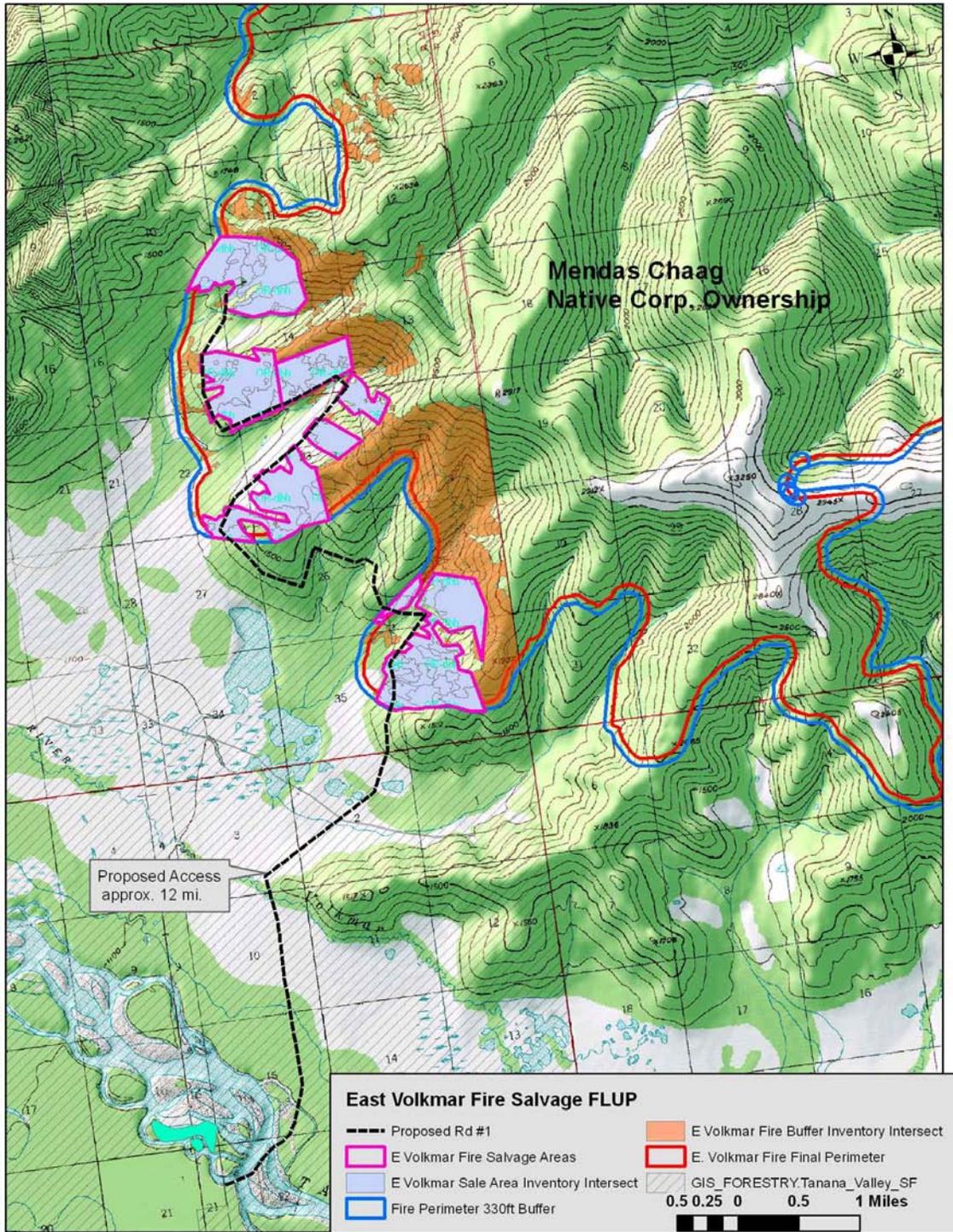


Table 1
Delta Area
Northern Region

FY 2012 Timber Harvest Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2011 to June 30, 2012

Sale No.	Sale Name	Legal Description	Acres	Species	Volume in cubic feet	Volume in Cords	Biomass Tons	Access	Area Plan	Remarks
1 NC-1395	Cliff Hanger	Sec. 7 T12S, R15E	26	W.S. Sawlog	66,000			All-Season	TVSF 10C	FLUP completed and field work 99% complete
2 NC-1183	Indian Creek No.1	Sec. 13, 14, 22 & 23, T8S R10E Sec. 18, 19, T8S, R11E, FM	200 50	W.S. Sawlog Birch	600,000 75,000			All-season	TBAP 7C1 TVSF 9A	FLUP completed and field work complete.
3 NC-1396	Gerstle High Water No. 1	Sec. 18,19, 28, 29, & 30, T12S, R15 Sec. 2, 11-14, 23, 24 T12, R14E FM	150	W.S. Sawlog	270,000			All-season	TVSF 10C	Field work completed. Agency/Public Review winter 2011/12
4	Camp Creek Fire Salvage	Sec. 36 T5S, R11E, Sec. 13-16, 22 23, 27-29, 31-33 T5S, R12E, Sec. 24, 25 T6S, R10E, Sec. 1-5, 7-12, 14-21 T6S, R11E, Sec. 5-7 T6S,R12E FM	150 20	Spruce Birch Fuelwood	200,000 15,000	1,562 117		Winter and All-Season	TVSF 8D TBAP 7A2	Fire Salvage Sales. Sales and harvest are ongoing since 2005. Burned trees exhibiting significant degrade and will soon lose fuelwood value. FLUP completed.
5	Gilles Creek Fire Salvage	Sec. 14-17, 20-29, 32-36 T6S R11E Sec 30 T6S R11E; Sec. 1-12,16-18, 20 T7S R 10E FM	150 20	Spruce Birch	400,000 50,000	3,125 390		All-Season and Winter	TVSF 8D TBAP 7A2	Fire Salvage Sales. Sales and harvest ongoing. FLUP completed. Burned trees exhibiting de-grade, fuelwood salvage value only.
6 NC-1374	Rowland No. 1	Sec. 1 & 12, T7S, R9E, Sec. 6, NW1/4 Sec. 7, T7S, R10E, FM Sec. 25, 35, 36, T6S, R9E, FM	320 100	W.S. Sawlog Birch/Aspen	700,000 150,000			All-season	TVSF 8C TBAP 7A2	FLUP complete. Field work 80% completed. Archaeological mitigation plan in development
7 NC-1375	Blowdown No. 1	Sec. 15, 22, 28 & 33 T12S, R15E, FM	62	W.S. Sawlog	150,000			All-season & Winter	TVSF 10C	FLUP completed. 88 acres of original 150 acres estimated have been sold. Sale units will be sold as field work is completed and market develops.
8 NC-1195	Rapid Creek No. 1	Sec. 28, 29, 32 T7S, R11E, FM	230 50	W.S. Sawlog Birch/Aspen	450,000 75,000			All-season	TVSF 9A	Agency/Public review winter 2011/12. Field work 90%. 2 mi. CIP Road construction Summer 2012
9 NC-1159	Delta River Firebreak No.3	Sec. 4, 9, 10, 15, 16, T10S, R10E, FM Sec. 28, 29, & 33, T9S, R10E, FM	382	Spruce Biomass	990,000		16,830	Winter	TBAP 7G1 7G2 & 7F1	Sale designed for Commercial biomass use. Completed agency review Units 1-3. Field work 80% completed Agency Review for unit 4 (additional) spring 2012 Delta River West CIP Road Constr. Winter 2012
Total	9 Sales	Sustained Yield Cut Allowance CUFT					16,830	Biomass Tons (green weight basis)		
		4,873,600	1,670	Spruce	3,826,000	5,194	Fuelwood (Cord basis)			
		5,412,700	240	Hardwoods	365,000					
		10,286,300	1,910	Total	4,191,000					
Note: All FY 2012 Proposed Sales have completed scoping and reconnaissance. Forest Land Use Plans (FLUPs) are in process or completed for FY 2012 Proposed Sales.										

Table 1
Delta Area
Northern Region

FY 2013 Timber Harvest Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2012 to June 30, 2013

Sale No.	Sale Name	Legal Description	Acres	Species	Volume in cubic feet	Volume in Cords	Biomass Tons	Access	Area Plan	Remarks
10 NC-1492	East Volkmar Fire Salvage	Sec.1,2,11-15,22-25,35,36 T9S, R14E FM	675 675	W.S. Sawlog Birch	1,250,000 1,250,000	9,500 9,500	21,250 26,875	Winter	TVSF 10A	Fire Salvage Sales from 2011 E. Volkmar Fire Agency & public review spring 2012. Capture forest prod. value before degradation occurs
11 NC-1181	Little Gerstle Biomass	Sec. 7- 9, 14-22 T13S, R15E, FM	85 85	S. Biomass Birch/Aspen Biomass	150,000 120,000		2,550 2,790	All-season	TBAP 7K1, 7N1	Needs Approval by Div. of Wildlife Conservation Low archaeological potential. Field work started. Funding & Biomass market dependent.
12	Volkmar Crossing	Sec. 3, 4, 9, & 10 T10S R13E FM	80	W.S. Sawlog	190,000			Winter	TVSF 10A	Tanana winter crossing/ Fish Habitat permit req ¹ .
13	Quartz Lake No. 1	Sec. 14-16, 21-23, 28-30, 32 T8S, R10E, FM	40 100	W.S. Sawlog Birch/Aspen	80,000 150,000			All-season	TBAP 7B1, 7C1	Sale area w/in Quartz Lk view shed. Design will incorporate selective harvest methods to mitigate wildland fire hazards to the Quartz Lk bowl
14	Bison Range No.4	Sec. 8, 9 & 16, T12S, R13E, FM	20	W.S. Sawlog	50,000			All-season	TBAP 7K1	Coordinate with SWCD Needs approval by Div. of Wildlife Conservation Funding & market dependent Archaeology recon survey completed 2005.
15	Moose Acres NC-673 & NC-984	Sec. 13, 23, 24, & 26 T7S, R7E FM Sec. 17-21, 27-30, 33 T7S, R8E FM	200	Birch & Aspen	300,000			All-season	TVSF 8A	Funding & market dependent. Low archaeological potential.
16	Johnson Slough No. 6	Sec. 11-14, T14S R16E FM Sec. 4-10 T22N R5E CRM	50	W.S. Sawlog	150,000			Winter	TVSF 10C	Tanana winter crossing/ Fish Habitat permit req ¹ .
17	Ground Warmer	S1/2 Sec. 29, NE1/4NE1/4 Sec. 31, NW1/4 Sec. 32, T8S, R10E, FM	42	Spruce Fuelwood	100,000			All-season	TBAP 7B1, 7B2	FLUP approved 1993. Original sale sold 1994 as NC-669
18	Steele Deal No. 2	W1/2SE1/4 Sec. 23, W1/2NE1/4 Sec. 26, T11S, R14E, FM	80	W.S. Sawlog	150,000			All-season	TVSF 10C	Field work started.
19 NC-1368	Newby Mill Salvage No. 6	Sec. 9, 10, & 16 T12S, R15E, FM	50	W.S. Sawlog	90,000			All-season	TVSF 10C	FLUP complete. Funding & market dependent. Archaeology recon survey completed 2005. Field work started 30% completed.
20 NC-1393	Independent Ridge	Sec. 19 & 30, T13S R16E Sec 24 & 25,T13S R15E FM	80	Birch/Aspen Biomass	100,000		2,325	All-season	TBAP 7N1,7N2	Funding & market dependent. Low archaeological potential.
Total	11 Sales	Sustained Yield Cut Allowance CUFT					55,790	Biomass Tons (green weight basis)		
		4,873,600	1,122	Spruce	2,210,000	19,000	Fuelwood (Cord basis)			
		5,412,700	1,140	Hardwoods	1,920,000					
		10,286,300	2,262	Total	4,130,000					

Note: All highlighted FY 2013 Proposed Sales have completed scoping and reconnaissance. Forest Land Use Plans (FLUPs) are in process or completed for these sales.

Note¹: Comment amended per ADF&G agency review

Table 1
Delta Area
Northern Region

FY 2014 Timber Harvest Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2013 to June 30, 2014

Sale No.	Sale Name	Legal Description	Acres	Species	Volume in cubic feet	Volume in Cords	Biomass Tons	Access	Area Plan	Remarks
21	Surprise Side	Sec. 5, 6, N1/2 Sec 8, N1/2 Sec. 9, T8S, R8E, FM	180	W.S. Sawlog	300,000			Winter	TVSF 9A TBAP 7G4, 7F1	This sale is in the "30-mile stretch" of the Tanana River. DOF will reach agreement on this sale with ADF&G before proceeding with sale offering.
22	Cummings Road Extension No. 2	Sec. 11-14, 24 T10S R13E FM Sec. 18-20, 29, & 33 T10S R14E FM	60	W.S. Sawlog	125,000			All-season	TVSF 10C	
23	Lower Gerstle Salvage	Sec. 4, 9, 16, 21, 22, 23, 26, & 35 T11S, R14E, FM	90	W.S. Sawlog	200,000			All-season	TVSF 10C	
24	Cliff Hanger No. 2	Sec. 5- 8, T12S, R15E, FM	30	W.S. Sawlog	80,000			All-season	TVSF 10C	
25	Bert Mnt. No. 1	Sec. 25 & 36, T8E, R9E, Sec. 31, 32 T8S,R10E, Sec. 5, 6 T9S, R10E, FM	60	W.S. Sawlog	170,000			All-season	TBAP 7B1, 7B2	Bert Mtn Road CIP construction 2012 Access permitting/scoping under way.
26	Hollembaek	Sec. 9 - 11,14 - 16 T 10S R13E FM	50	W.S. Sawlog	120,000			Winter	TVSF 10A & C	
27	Shaw Creek No. 6	Sec. 2, 9, 10, 11, & 15 T8S R10E FM	100 30	W.S. Sawlog Birch	150,000 40,000			Winter	TBAP 7C1 TVSF 9A	Sale area outside Quartz Lk view shed. Design will incorporate harvest methods to mitigate wildland fire hazards to the Quartz Lk State Park.
28 NC-652	Fowler Creek	Sec. 21, W1/2 Sec 22, T7S R8E FM	70	W.S. Sawlog	140,000			All-season	TVSF 8A TBAP 7A2	Completed agency and public review process. Sale has a public easement. Field Work is complete. Sale could be moved to year 1 if funding is secured for Rosa Creek Bridge.
29	MS7	Sec. 10, 11, 14 & 15, T7S, R9E, FM	50	W.S. Sawlog	150,000			All-Season	TVSF 8C TBAP 7A1 7A2	
30	Black Lake No. 4	Sec. 1 & 12, T13S, R15E, FM Sec. 17, 18, & 20, T13S, R16E, FM	130	W.S. Sawlog	300,000			Winter	TVSF 10C	
Total	10 sales	Sustained Yield Cut Allowance CUFT								
		4,873,600	820	Spruce	1,735,000					
		5,412,700	30	Hardwoods	40,000					
		10,286,300	850	Total	1,775,000					

Table 1
Delta Area
Northern Region

FY 2015 Timber Harvest Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2014 to June 30, 2015

Sale No.	Sale Name	Legal Description	Acres	Species	Volume in cubic feet	Volume in Cords	Biomass Tons	Access	Area Plan	Remarks
31	Kilroy's Boiler (previously listed on prior FYSTS as Multi 1)	Sec. 12, 13, 24-26, & 36 T10S R9E FM	1000	Birch/ Aspen	1,500,000		34,875	Winter	TBAP	Industrial Biomass sale Funding & Biomass market dependent.
		Sec. 7, 18, 19, 28-32 T10S R10E FM	320	Spruce	800,000		13,600		7G1	
		Sec. 1 & 2, T11S, R9E, FM		Biomass					7G2	
32	Birch Hill	Sec. 21, 22, 28, T12S R15E FM	60	Birch/ Aspen	100,000			All-season	TVSF 10C	Funding & market dependent.
33	Upper Delta Creek	W 1/2 Sec 14 Sec. 15, 21, 22, 23, 27 & 28, T8S, R7E, FM	120	W.S. Sawlog	290,000			Winter	TBAP 7G1	Sale is 1.5 miles from the Tanana River on uplands above the river. Check for hazmat concerns with the military and Div. ML&W.
34	Just in Time	Sec. 7, 8, 15, & 17 T9S, R9E, FM	60 40	W.S. Sawlog Birch	140,000 60,000			Winter	TBAP 7G2	
35	Whitestone Extension	Sec. 27,33, 34, 35 T8S, R9E, FM	40 10	W.S. Sawlog Spruce Biomass	80,000 20,000		1,360 340	Winter	TBAP 7F1	This sale is in the "30-mile stretch" of the Tanana River. DOF will reach agreement with ADF&G before proceeding with the sale offering.
36	Dust Bowl	Sec. 12-14, 22-28, T13S, R14E, FM Sec. 6 & 7, T13S, R15E, FM	150	Spruce Biomass	350,000		5,950	Winter	TBAP 7K1 7N1	Needs Approval by Div. of Wildlife Conservation Funding & Biomass market dependent.
37	Delta Creek No. 3	Sec. 32, 33, 34 T7S, R7E, FM Sec. 2, 3, 11, 14 T8S, R8E, FM	120	W.S. Sawlog	290,000			Winter	TBAP 7G1, 7F1	This sale is in the "30-mile stretch" of the Tanana River. DOF will reach agreement on this sale with ADF&G before proceeding with sale offering.
38	Gerstle Lookout	Sec. 2-6,&11, T13S, R15E. Sec. 31-33, T12S, R15E, FM	150	Spruce Biomass	350,000		5,950	All-season	TVSF 10C	Funding & Biomass market dependent.
39	Back N Black No.1	Sec. 1&12, T13S R15E, FM		W.S. Sawlog	630,000			Winter	TVSF 10C	Archeological survey review summer 2012.
40	Dick's Bluff	Sec. 31 & 32, T7S, R8E, FM Sec. 5, N1/2 Sec. 6, T8S, R8E, FM	30 100	W.S. Sawlog Birch	30,000 160,000			All-season	TVSF 8A	This is an upland sale above the Tanana River and is not related to riparian zones
Total	10 sales	Sustained Yield Cut Allowance CUFT					62,075	Biomass Tons (green weight basis)		
		4,873,600	1,050	Spruce	2,500,000					
		5,412,700	1,200	Hardwoods	1,820,000					
		10,286,300	2,250	Total	4,320,000					

Table 1
Delta Area
Northern Region

FY 2016 Timber Harvest Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2015 to June 30, 2016

Sale No.	Sale Name	Legal Description	Acres	Species	Volume in cubic feet	Volume in Cords	Biomass Tons	Access	Area Plan	Remarks
41	Strike & Spare	Sec. 15,16,21,22 T8S R10E FM	98	W.S. Sawlog Birch	214,000 75,000			All Season	TBAP 7B1,7B2, 7C1	Sale area w/in Quartz Lk view shed. Design will incorporate selective harvest methods to mitigate wildland fire hazards to the Quartz Lk bowl
42	De'ja View	Sec. 12& 13 T8S R10E FM	109	W.S. Sawlog Birch	300,000 50,000			All Season	TVSF 9A	Contact Goodpaster Working Group
43	Progressive Ridge	Sec. 16-21 T8S R11E FM	293	W.S. Sawlog Birch/Aspen	500,000 75,000			Winter	TBAP 7C1 TVSF 9A	Contact Goodpaster Working Group
44	Liscum Face	Sec. 21, 26-29 T8s R11E FM	336	W.S. Sawlog Birch/Aspen	500,000 110,000			Winter	TBAP 7C1	Contact Goodpaster Working Group
45	Santa's Stable No.1	Sec. 2-4 T 7S R9E Sec 33,34 T6S R9E FM	238	W.S. Sawlog Birch/Aspen	300,000 150,000			All Season	TVSF 8C TBAP A2	Access via Pogo Rd. Caribou Creek Area.
46	Rowland No.2	Sec. 1 & 2 T7S R9E Sec 35 & 36 T6S R9E FM	194	W.S. Sawlog Birch/Aspen	300,000 150,000			All Season	TVSF 8C	Access Via Pogo Rd. Will utilize Rowland No.1 road system.
47	Back N Black No.2	Sec. 25,26,34-36 T12S R15E, FM	287	W.S. Sawlog	270,000			Winter	TVSF 10C	Access via. Black Lake/ Tanana River winter rd.
48	Seven Ten Split	Sec. 9,10,15,16 T8S R10E, FM	185	W.S. Sawlog Birch/Aspen	350,000 150,000			All Season	TBAP 7B1,7B2, 7C1	Sale area outside Quartz Lk view shed. Design will incorporate harvest methods to mitigate wildland fire hazards to the Quartz Lk State Park.
Total	8 Sales	Sustained Yield Cut Allowance CUFT	1,740							
		4,873,600		Spruce	2,734,000					
		5,412,700		Hardwoods	760,000					
		10,286,300		Total	3,494,000					

Table 2
Delta Area
Northern Region

FY 2012-13 Transportation Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2011 to June 30, 2013

Sale No. or Project ID	Location	Type	Activity		Funding		Remarks
			New	Maint.	Cost	Source	
1	Gilles Creek Fire Salvage	All- Season	1	5.00	\$5,000	Timber Sale	Proposed Sales
NC-1480	Gilles Creek Fire Salvage #4	Winter/All season	0.8	2.00	\$12,000	Timber Sale	Existing Sale
2	Camp Creek Fire Salvage	All-Season	0.5	5.50	\$1,500	Timber Sale	Existing Sale
NC-1173 and 1371	Keystone Creek/ Pogo Road	All Season	1.0	1.00	\$15,000	Timber Sale	Existing Sale
NC-1395	Gerstle Area	All-Season	0.3	0.25	\$7,000	Timber Sale	Proposed Sale
NC-1375	Gerstle Area	All-Season	0.25	4.00	\$2,000	Timber Sale	Proposed Sale
NC-1183	Indian Creek	All-Season	1	5.00	\$7,500	Timber Sale	Proposed Sale
NC-1454	Keystone Creek	All-Season	0.2		\$6,000	Timber Sale	Proposed Sale
NC -1396	Gerstle Area	All Season/Winter	0.75		\$5,000	Timber Sale	Proposed Sale
3	Delta River	Winter	5.5	1.50	\$42,000	2012 Delta CIP funding	
4	Quartz Lake Extension	All Season	2	5.50	\$30,000	2012 Delta CIP funding	
5	Bert Mountain	All Season	2.5		\$30,000	2012 Delta CIP funding	
Totals		Timber Sales	5.8	22.75	\$61,000.00		
		CIP	10	7.00	\$102,000.00		
		Total	15.8	29.75	\$163,000		

Table 3
Delta Area
Northern Region

FY 2012- 2013 Reforestation Schedule
State of Alaska, DNR, Division of Forestry
July 1, 2011 to June 30, 2013

Sale No.	Sale Name	Operation Type	Acres	Date	Cost	Funding Source	Species	Amount	Remarks
NC-995	Keystone Bluff #1	Planting	10	July 2013	\$1,200	Reforestation	W. Spruce	1,550	
NC-1371	Keystone Bluff #3	Scarification	20	July 2012	\$3,000	For. Mngt.			
NC-1371	"	Planting	30	July 2013	\$3,500	Reforestation	W. Spruce	4,650	
NC-1172	Lost Cabin #2	Scarification	10	July 2012	\$1,500	For. Mngt.			
NC-1172	"	Planting	10	July 2013	\$1,200	Reforestation	W. Spruce	1,550	
NC-1381	Chapman Blowdown #1	Planting	10	July 2013	\$1,200	Reforestation	W. Spruce	1,550	
NC-1387	Chapman Blowdown #2	Planting	10	July 2013	\$1,200	Reforestation	W. Spruce	1,550	
NC-1389	Chapman Blowdown #3	Planting	19.1	July 2013	\$2,300	Reforestation	W. Spruce	3,000	
NC-1390	Chapman Blowdown #4	Planting	11.6	July 2013	\$1,400	Reforestation	W. Spruce	1,800	
NC-1394	Chapman Blowdown #5	Planting	18.3	July 2013	\$2,200	Reforestation	W. Spruce	2,900	
NC-1467	Chapman Blowdown #6	Planting	10	July 2013	\$1,200	Reforestation	W. Spruce	1,550	
NC-1455	Hutto No.2	Planting	10	July 2013	\$1,200	Reforestation	W. Spruce	1,550	
		Scarification	30		\$4,000	Forest Mngt.			
		Planting	139		\$17,100	Reforestation	W. Spruce		
		Totals	169		\$21,100		Seedlings	21,650	