



**NORTHERN REGION
FAIRBANKS-DELTA AREA FORESTRY**

**DRAFT FOREST LAND USE PLAN AND
PRELIMINARY BEST INTEREST FINDING AND
DECISION FOR
BISON RANGE #4
NC-1661-D
AUGUST 2019
ADL# 421206**

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INTRODUCTION

A. Purpose

The purpose of this Forest Land Use Plan (FLUP) is to provide sufficient information for reviewers to ensure that the best interest of the State will be served by the Department of Natural Resources (DNR), Division of Forestry, Fairbanks-Delta Area, offering this proposed timber sale. This FLUP deals with site specific considerations of the sale. The boundaries and precise volume of the sale may be refined if and when the sale is developed. Site specific research has been completed on title considerations, land classifications, applicable land management plans, appropriate silvicultural techniques, regulatory and statutory requirements, and physical conditions that apply to the proposed sale area. The proposal is for the harvest of approximately 24.8 acres of land that is predicted to yield approximately 446 CCF of spruce sawlogs and fuelwood. The sale design may be altered to mitigate potential conflicts. It will be the responsibility of the Forester-In-Charge to ensure that any purchaser of this sale harvests timber per the sale design and sale contract provisions and adheres to Alaska Forest Resources and Practices Act (AFRPA) best management practices.

B. Five-Year Sale Schedule

The general area and timber type that this proposed sale occupies has been shown as a potential sale area in the current Five-Year Schedule of Timber Sales (FYSTS) for Fiscal Years 2018-2022 as required by AS 38.05.113.

C. Location

The timber to be offered is located 20 air miles southeast of Delta Junction and is <1 mile south of the Alcan Highway. The proposed sale area is located within Section 16, Township 12 South Range 13 East, Fairbanks Meridian. The harvest unit is accessed from Delta Junction by driving southeast on the Alcan Highway until MP 1402 and turning south on the existing secondary road. Continue for 1.3 miles and turn west onto another secondary road. Continue to the end of the road (~0.3 miles) and this is where the <0.25 mile of new road construction will be required to access the unit.

D. Title, Classification and Other Active or Pending Interests

The acquisition authority for the proposed sale area is GS 787. The proposed sale is within the Delta Junction Bison Range Area, AS 16.20.300 by Classification order CL NC-10-004. The Delta Junction Bison Range management intent is more specifically addressed in the Delta Bison Interim Management Plan 2012. The primary surface use of the unit is wildlife habitat and the secondary use is forestry.

The plan states, "Reference to the Delta Bison Management Plan should be made on all management decisions concerning this unit. Furthermore, small timber sales may occur where consistent with the primary management intent and will require the approval of the Department of Fish and Game."

The case file ADL 421206 and NC-1661-D constitute the administrative record for this proposed sale.

E. General Timber Sale Program Objectives

1. Develop the State's Renewable Resources

To follow the DNR's constitutional mandate to encourage the development of the State's renewable resources, making them available for maximum use consistent with the public interest. Sustain and promote a healthy, long-term timber industry in the State, through providing a secure source of timber for harvest that produces raw materials for local manufacturing plants when practical while protecting other resources such as fish and wildlife.

2. Improve the State's Economy

To help the State's economy by providing royalties to the State in the form of stumpage receipts, as well as contributions to local economies through wages, purchases, jobs, and business.

3. Improve Forest Health

To improve forest growth and vigor by harvesting mature and or declining stands and replace them with new healthy regenerating stands. The stand replacement will be accomplished while protecting and maintaining other resource values. The actions authorized under this decision will follow the constitutional mandate of sustained yield and shall adhere to multiple use management as described in the Tanana Valley State Forest Management Plan.

4. Improve Wildlife Habitat

Meet the statutory wildlife management objectives for the TVSF (AS 41.17.400(e)) that provides for the production of wildlife for a high level of sustained yield for human use through habitat improvement techniques to the extent consistent with the primary purpose of a state forest.

II. LEGAL AUTHORITY

The Division of Forestry is taking this action under the authority of AS 38.05.035 (e) (Best Interest Finding); AS 38.05.110-120 (Alaska Land Act Statutes); 11 AAC 71 (Timber Sale Statutes and Regulations); AS 41.17.010-.950 and 11 AAC 95 (Forest Resources and Practices Statutes and Regulations).

III. ADMINISTRATIVE RECORD

The Division will maintain an administrative record regarding the decision of whether to proceed with the action as proposed. This record will be maintained at the DOF's Fairbanks Office filed as NC-1661-D.

IV. SCOPE OF DECISION

This preliminary best interest finding (PBIF) provides information for step three of a six-step process to design, sell, and administer timber sales. This PBIF covers the sale of approximately 24.8 acres of spruce on state land in the Delta Junction Bison Range Area. The following list summarizes the overall process:

Step 1: Regional planning. The Department of Natural Resources (DNR) develops area plans and state forest management plans to designate appropriate uses for state land,

classify the land accordingly, and establish management guidelines for multiple use. These plans determine where timber sales are an allowed use, and what other uses must be considered when designing and implementing sales. Subsequent land use decisions must be consistent with the area plans. The area in this PBIF is covered by the Tanana Valley State Forest Management Plan, and the PBIF is consistent with this plan.

Step 2: Five-year Schedule of Timber Sales (AS 38.05.113). A proposed timber sale must appear in at least one of the two Five-year Schedules preceding the sale. The land covered by this BIF appeared in the Fairbanks-Delta Area 5 Year Schedule of Timber Sales FY2019-2023.

Step 3: Best Interest Finding. The Division of Forestry (DOF) must adopt a final BIF before selling timber. A best interest finding is the decision document that:

- Establishes the overall area within which the timber sale may occur,
- Determines the amount of timber that will be offered for sale and the duration of the sale,
- Sets the overall harvest and reforestation strategy for the sale area,
- Determines whether the sale proposal complies with the Constitutional requirement to manage for sustained yield by evaluating the amount of timber in the sale and the annual allowable cut for the affected area,
- Selects the appropriate method of sale (i.e., competitive or negotiated sale), and
- Determines the appraisal method that will be used to determine the sale price.

DOF is issuing a PBIF covering the decision to sell approximately 24.8 acres of spruce from state lands within the Delta Junction Bison Range Area in a competitive sale for commercial use.

This document is the PBIF for Bison Range #4. A person affected by the final decision who provided timely written comment or public hearing testimony on the preliminary decision may appeal it, in accordance with 11 AAC 02.

Step 4: Forest Land Use Plans (AS 38.05.112). Prior to authorizing harvest of timber on any area greater than 10 acres, the DOF must adopt a site-specific Forest Land Use Plan (FLUP) for the harvest area. Following agency and public comment periods, DOF will prepare a final FLUP for the sale. FLUPs specify the site, size, timing, and harvest methods for harvest unit within the sale area. FLUPs also address site-specific requirements for access construction and maintenance, reforestation, and multiple use management. FLUPs are based on additional field work, agency and community consultation, and site-specific analyses by the DOF, and are subject to public and agency review.

Step 5: Timber sales and contracts. Following adoption of the final BIF, and completion of the FLUP, DOF will offer the timber for sale by auctioning a competitive sale. The Division will sign a contract with the winning bidder for each sale. The contract will include stipulations to ensure compliance with the best interest finding, FLUP, and statutory requirements.

Step 6: Sale administration. DOF will administer the timber sale and conduct field inspections to ensure compliance with the final BIF, FLUP, timber sale contract, and

applicable laws, including the Alaska Forest Resources and Practices Act and regulations (AS 41.17 and 11 AAC 95), and forest management statutes and regulations in AS 38.05 and 11 AAC 71.

V. DISCUSSION OF ISSUES

A. Physical Characteristic of the Sale Area

1. Topography

The proposed sale is on flat bench adjacent to the Sawmill Creek. The site has relatively flat terrain with several dry slough channels in the area.

2. Soils

The soil in the proposed sale is sandy silt over gravel and sand. These soils commonly occur on the alluvial plains.

3. Waterbodies

The nearest water body to the sale area is Sawmill Creek. The Gerstle River is more than 9 miles to the south east. The timber sale is not anticipated to have any deleterious effects on either water body. The sale area presents no obstacles that would prevent implementation of the best management practices of the AFRPA to maintain water quality.

4. Stand Conditions

The timber stand and proposed harvest unit consists predominantly of mature white spruce and small amounts of mixed species consisting of aspen, birch, balsam poplar and black spruce. Regeneration is present in the past harvest areas harvested along secondary access road. The grass component is light in this stand and present in the previously harvested units in the near vicinity. There is an estimated 15% defect in the white spruce.

B. Historic and Current Land Use

Hunting trapping and recreation have historically occurred in the range, though in 1979, the Delta-Junction State Bison Range was official established by the Alaska Legislature. The range is a popular area for many public activities including cross country skiing, dog sledding, wildlife viewing, and fishing among other activities. There is agricultural activity in the area as well.

C. Wildlife Habitat

The Delta Bison Interim Management Plan 2019 details the management objectives for the Delta Bison Herd. The timber sale is not within their normal calving area and shouldn't disrupt their migration routes because of its relatively small size. Game trails are evident throughout the area. There are no known raptor nests within the proposed sale area.

Treatments proposed for this stand are projected to enhance habitat conditions for other animals typically found in the interior including ruffed grouse, moose, voles, hares, and ultimately, lynx, marten and fox. Snags will be retained to provide late-

successional wildlife habitat for hole nesting birds, woodpeckers, small mammals, and other species requiring perching habitat.

D. Fisheries and Water Quality

Best management practices will be implemented to ensure water quality standards in all water courses. Erosion issues are not anticipated but any concerns will be mitigated by backfilling skid trails with debris. There is no expectation that this harvest will have negative impacts on Sawmill Creek or the Gerstle River.

E. Subsistence

The tract has not been designated as a subsistence zone. The proposed sale of timber is anticipated to have no deleterious effects on subsistence activities. Subsistence activities of fishing, trapping, hunting and gathering of berries and other non timber forest products may occur on State owned lands.

F. Recreation and Tourism

Recreational use of this area is common. Primarily it consists of hunting and trapping activity, as well as some recreational activities. Where trail use utilizes existing winter roads needed for access, sufficient snow cover will be left on the roads to enable continued winter recreational use. Cross trails will be kept free of either snow filled or brush filled berms.

G. Scenic Resources

The sale will not be visible from the Alcan Highway nor any of the rivers.

H. Cultural Resources

The TVSF Management Plan does not list any historic cultural or archaeological sites in the vicinity of the proposed harvest. During the course of activities associated with this timber sale, cultural and/or paleontological resources may be inadvertently discovered. Should such discovery occur, these sites shall be protected from further disturbance and OHA will be contacted immediately so that compliance with state laws governing cultural resources may begin.

Under the Alaska Historic Preservation Act (AS 41.35), all burials on state land are protected. If burials or human remains are found, all land altering activities that would disturb the burial or remains shall cease and measures taken to protect it in place. OHA and a law enforcement officer will be notified immediately to ensure that proper procedures for dealing with human remains are followed.

I. Allowable Cut

The Annual Allowable Cut (AAC) is the amount that can be harvested from forest land managed for forestry purposes in a year under sustained yield management. The AAC in the Delta Area is outlined in the publication Timber Inventory of State Forest Lands in the Tanana Valley (Hanson, 2013). This sale complies with sustained yield/allowable cut principles outlined in the Fairbanks-Delta Area Five-Year Schedule of Timber Sales for FY 2018-2022. The AAC for the Delta Management

Area is approximately 3,948 acres. The AAC will not be exceeded for this proposed sale.

J. Silvicultural Prescription

1. Stand Silvics

Merchantable tree species here in the Tanana Valley generally include white spruce, aspen, balsam poplar and birch. Silvicultural harvest systems that facilitate even-aged (natural) management are generally preferred. They mimic the ecological impact of wildfire and other disturbances and result in the greatest increase in site productivity. Even-aged management is normally accomplished through clear-cuts, patch cuts, and heavy partial cuts (such as seed tree or shelterwood systems) which open up the site to maximum solar gain. This management system results in the greatest production of both young hardwood, that is important to wildlife, and the spruce understory which is valuable years later as timber. Even-aged management techniques are utilized to provide young, vigorously growing stands in juxtaposition to older, undisturbed stands. Such placement of harvest units can optimize natural seeding and the edge effect.

2. Specific Management Objectives

Utilize the current commercial value of this timber stand before existing defect leads to further damage and more stem rot and insects are introduced, and then return this site to a productive mixed forest at an equal or greater basal area than currently exists. The overall stand composition is primarily spruce saw and pole timber. Those trees that are younger, rather than just smaller, may benefit from release. The intent is to return the site to a productive, naturally even-aged, diverse mixed-species stand at an equal or greater basal area than currently exists. It is reasonable to assume that these objectives will be realized under the recommended prescription with some supplemental planting of white spruce if necessary.

3. Harvest Methods

The sale will be harvested by a heavy partial cut (diameter limit) silvicultural system. All spruce 6" or greater will be removed. Snags, spruce < 6" and of the mixed hardwoods will not be cut. Residual trees will be protected from damage during harvest operations. Harvesting will be by the whole tree yarding system. Slash disposal at the landings will be by burning or by salvage for fuel wood use.

4. Regeneration

Regeneration of white spruce occurs only from seeds. White spruce trees generally produce some level of seed crop every three to five years and large seed crops every five to seven years. Birch and aspen can regenerate vegetatively or by seed. Adjacent sites are composed of mixed birch, aspen and spruce stands that will provide seed to this unit. A regeneration survey will be conducted three years after any harvest to ensure a stocking level that meets the standards of 11 AAC 95.375 (b 4).

K. Transportation

The likelihood of all-season access is high, however during road construction it may be determined that winter harvests are preferable. The planned access route to the

proposed sale will follow The Alcan Highway to approximately MP 1402 where the secondary road begins to the south. Continue for 1.3 miles and turn west onto another secondary road. Continue to the end of the road (~0.3 miles) and this is where the <0.25 mile of new road construction will be required to access the unit. Access routes will be maintained to the standards set out in the AFRPA and all season secondary and primary road standards set out in the TVSF Management Plan.

L. Erosion

There are two soil erosion concerns: surface erosion and mass wasting of soil and debris. Road construction and poor maintenance of roads primarily causes surface erosion. To avoid erosion, debris will be placed back onto skid trails and water bars installed if necessary. The location of skid trails will optimize skidding distances and provide for adequate landing areas. The other aspect of erosion (mass wasting and debris avalanches) normally occurs on slopes of more than 70 percent therefore is not a particular concern because the proposed timber sale area does not reach that grade.

M. Mining

The Delta Bison Interim Management Plan does not list mining as an authorized use of the land.

N. Materials

No rock materials will be required for the construction of access roads.

O. Economics

In addition to generating royalties to the State's general fund, the proposed sale will create economic benefits to the Delta Junction community and Fairbanks North Star Borough. The business communities will receive direct economic benefits from providing support services for the operators through sales of fuel, food, housing, medical and miscellaneous supplies. The sale is expected to benefit the local economy by providing jobs.

The sale is expected to benefit the local economy by providing jobs. It will have a positive impact on local employment by generating significant man-hours of work associated with the harvest and transportation of wood products from this sale.

VI. MARKET CONDITIONS

Counter to the current economic downturn, demand for housing and construction materials as well as fuelwood is expected to remain stable in part through a projected increase in population over the next 25 years and a fluctuating oil market. Even as heating oil has dropped in price locally, it continues to be more costly in the interior than the national average therefore residents are looking for an alternative and the only affordable one is wood. Local businesses are currently producing wood pellets as an alternative to traditional firewood. This market addresses an ongoing air quality issue in the Fairbanks area because these manufactured pellets produce almost no emissions. As this market continues to grow, the demand for material will increase. Other businesses are also looking

into the use of biomass as a feedstock for producing electricity and heating alternatives in rural Alaska.

These markets create jobs in the forest products industry. Loggers, log truck drivers, commercial firewood cutters and mill workers all benefit from a sustainable timber market. This sale will provide the material needed to sustain these industries. As the economy continues to rebound there will be more demand for the products that this sector of the labor force provides.

VII. ALTERNATIVE ACTIONS

After a review of the material and information discussed above, the following alternatives have been considered:

1. **To continue the sale(s) as proposed.**

This alternative meets the objectives of the Five-Year Schedule of Timber Sales and DNR'S constitutional mandate. It also meets the silvicultural objective of improving forest vigor, provides for a value-added end product and creates additional jobs in Alaska due to the combination of road building, logging, and trucking. This alternative also complies with the management objectives set out for the Delta Junction Bison Range Area.

2. **To modify the sale(s) by making them smaller or larger.**

The proposed sale unit is a logical setting for typical commercial logging equipment in Interior Alaska. The size of the sale is designed to be large enough to be economically viable considering access development and mobilization costs and distance to processing facilities. Sales of this size are appropriately balanced to maintain other resource values as well as provide economic benefits to the Delta Area.

3. **Defer the sale of this timber to a later date.**

Deferring harvest to a later date would fail to meet many of the objectives of the sale program. One of the main objectives is to make State-owned timber consistently available to the timber industry.

4. **Do not offer this timber for sale.**

This alternative would result in not meeting any of the objectives outlined for this management action. Utilization of the forest resource would not be achieved. There would be no significant contribution to the State and local economies. This alternative would delay the management objectives planned for the area, deny making a source of raw materials available to the local wood products industry, and would delay the harvest of mature trees, prior to the onset of disease or insect infestation.

VIII. PUBLIC NOTICE

This preliminary best interest finding and decision will be publicly noticed in compliance with AS 38.05.945. Notice will be posted on the Alaska Online Public Notice System as well as both physical and electronic mailing lists.

IX. PRELIMINARY FINDING AND DECISION

After due consideration of all pertinent information and alternatives, the DNR has reached the following final finding and decision: To offer for sale approximately 24.8 acres of spruce to provide sawlogs and fuelwood as proposed in Alternative 1 and described in the PBIF. The DOF finds that this decision satisfies the objectives stated in this document and it is in the best interest of the State to proceed with this action under its authority of AS 38.05.035(e) (Powers and Duties of the Director) & AS 38.05.110-120; 11 AAC 71 (Timber Sale Statutes and Regulations; and AS 41.17.010-.950 and 11 AAC 95 (Forest Resources and Practices Statutes and Regulations).

A person is eligible to participate in any appeal or request for reconsideration to the final finding if s/he has submitted comment to the preliminary finding and decision during the comment period before

If you have any questions, please contact Kevin Meany, Fairbanks-Delta Resource Forester, kevin.meany@alaska.gov, (907) 451-2602.

X. SIGNATURE

Jeremy Douse, Fairbanks-Delta Area Forester
Alaska Division of Forestry

Date



