

2014 - 2018

Five Year Forest Management Schedule



Alaska Division of Forestry

Haines State Forest

Department of Natural Resources

2014 - 2018

Purpose

This Five-Year Forest Management Schedule (FYFMS) provides information to State agencies, commercial and non-commercial organizations, as well as the general public concerning planning and use of the forest resources on the Haines State Forest for the period January 2014 - December 2018. This Five-Year Forest Management Schedule meets the Alaska Statute (AS 38.05.113) requirements for periodic notification of planned activities, including timber sales, on the State Forest.

This FYFMS illustrates preliminary decisions made by the Division of Forestry (DOF) with regard to the development of forest resources on the Haines State Forest. These decisions comply with the Management Guidelines found in the update to the Haines State Forest Management Plan (HSFMP) adopted in 2002.

The purpose of this document is to provide an overview of proposed timber sale activities, silviculture and reforestation activities, road construction and maintenance estimates, and public recreation development on the forest for the next five years. The schedule is designed to solicit input on particular proposed forest management activities, which may then be addressed in more detail during project design and implementation. Listing a proposed activity in this schedule does not mean a final decision has been made to proceed with that activity.

Introduction

The Haines State Forest (HSF) was established in landmark legislation on July 1, 1982. The law's central tenet was to utilize, perpetuate, conserve, and protect the renewable and nonrenewable resources through multiple-use management. The Haines State Forest comprises some 260,000 acres of State managed lands and water including portions of the major river watersheds of the Lower Klehini, Chilkat, Chilkoot, and Ferebee Rivers as well as their tributary water systems with approximately 93,500 of those acres covered by forest.

According to the multiple-use management strategy outlined in legislation, the HSFMP defines management intent and guidelines across approximately 42,000 acres of land that has a primary management goal of Public Recreation, 52,000 acres of land managed to protect and enhance Wildlife Habitat (including fish) and 42,000 acres of land designated forested lands available for timber harvest.

Commercial Timber Harvest

Before any commercial timber sale is offered for bid, the Division of Forestry must issue a finding concluding that the sale is in the State's best interest and prepare a detailed Forest Land Use Plan (FLUP). The FLUP describes the specific harvest location, estimated volume of timber, harvest methods, reforestation plan, access, and multiple use considerations for a sale area. The Division of Forestry may make changes to individual sales previously listed in the FYFMS based on fieldwork, agency comments, and public input. Any changes to the description of a timber sale found in this document will be incorporated into the FLUP for that sale.

All best interest findings and Forest Land Use Plans will be completed separately on a sale-by-sale basis. It is the policy of the Division of Forestry to include all sales (except for salvage

sales, emergency sales, personal use permits, and negotiated sales less than 500 MBF and less than 160 acres) in at least one FYFMS preceding the sale. This policy exceeds the requirements under AS 38.05.113.

If a sale has been through the FYFMS, and has been offered but not sold, it can be re-offered without rescheduling or reconstructing the sale information. That is to say, if a sale was offered but not purchased, or if a sale was purchased but not completely harvested, the remaining timber can be sold without reappearing in a FYFMS or in a new FLUP. If the sale changes significantly in design or condition from the initial offering, a new FLUP may be required prior to re-offering.

Fish Habitat

A special management zone has been established around every anadromous fish stream and lake throughout the forest. These zones extend 300 feet on each side of anadromous streams, and 500 feet around anadromous fish bearing lakes. The HSFMP states that “the primary management objective for a special management zone will be to maintain or enhance anadromous fish habitat. Only activities which are or can be made compatible with this objective will be allowed in these zones.” DNR will consult with the Alaska Department of Fish and Game (ADF&G), Division of Habitat on the planning, design, and maintenance of resource development projects inside a special management zone.

Wildlife and Recreation

In the HSFMP planning process, area wide land use conflicts between primary resource use in a management unit and wildlife and recreation resources within that unit were identified and addressed. Specific guidelines for resolution to potential conflicts are described on a unit by unit basis in Chapter 3 of the HSFMP. This five-year Forest Management Schedule was developed in accordance with the HSFMP and no significant adverse impacts to wildlife or recreational values are anticipated.

Further consideration of Wildlife and Recreation resources in the development of activities contained in this document are provided by the public planning process associated with that development. In the case of timber sale harvest activities, the FLUP will address specific wildlife and recreation concerns as they relate to developing road building, harvest, and reforestation plans for that sale area. Additionally, the Forest Resources and Practices Act and Regulations contain specific requirements for the protection of these resources during extraction of renewable and non-renewable resources.

Transportation

Transportation goals and management guidelines for road construction on the Haines State Forest including the Coastal Region Road Standards and general construction requirements are described in Chapter 2 of the HSFMP. These standards define methods and conditions related to road building; clearing, grading, drainage structures, and road location. Other guidelines that pertain to road development on the forest can also be found in the HSFMP. Please refer to that document for details.

All forest road construction activities must comply with the Alaska Forest Resources and Practices Act and Regulations to minimize impacts to fish and wildlife resources. DOF

guidelines include regular maintenance on primary haul roads and with some exception most secondary haul roads. This maintenance will occur in association with active timber sales and in the absence of active sales on these roads priority will be given to maintenance that protects fish and wildlife resources on a case by case basis.

Other State Agencies have management authority specific to transportation development and/or maintenance and they are;

1. The State Department of Transportation (DOT) conducts biennial inspections of bridges over twenty feet in length built to standards safe for highway vehicles in the Haines State Forest.
2. The ADF&G Division of Habitat will be consulted before any activity is proposed in fish bearing waters. Operators must acquire the appropriate permit from the Division of Habitat for any in-stream work.

These considerations, along with the goals and guidelines from the HSFMP, are reviewed during the timber sale FLUP process to ensure that road development meets the intent of managing the resources of the State Forest for multiple use.

Local Timber Resource Supply and Demand

There are several small mobile dimensional lumber sawmills and at least two commercial log home building companies in the Haines area. These mills produce rough-cut green lumber for local consumption, round log and sided log homes for both local use and as an export product, and firewood products for sale throughout the communities of the upper Lynn Canal. They typically acquire approximately half of their timber needs from state timber sales. The local market demand of timber resource from State Forest land for the previous five years has been an average of 600 MBF/year. The balance of the timber harvested and milled locally originates from privately owned sources of timber.

This FYFMS recognizes the currently under-utilized timber resource available on the State Forest and the potential for use of those resources in a changing market. Recent interest in alternate fuels and the general public realization that trees can provide a sustainable and reliable long term energy source has initiated state wide discussion of available biomass resources. As a result, DOF has prepared a conservative analysis of net biomass available on a per acre basis to illustrate the potential supply existing on lands within the timber base. The Division of Forestry intends to identify and list in this document possible available timber resources that could support the development of increased supply demands associated with a biomass market while maintaining supply for local markets. Planning for possible market demand changes remains conservative and is simply designed to represent practical limitations of supplying available resources without exceeding sustainable harvest levels set in the HSFMP (Rev. 2002).

Because current local markets do not have the capacity to utilize the entire annual allowable cut volume, and due to market conditions here in Alaska and on world markets, there is the potential for round log export of timber purchased on the Haines State Forest. It is the policy of DOF to encourage local processing of raw resource materials.

HARVEST ACTIVITIES

Sustainable Harvest Calculations

The annual allowable harvest of 5.88 million board feet was computed applying the area method to the average volume of commercial timber present on an acre of forest land and the land base that is available for timber harvest. These calculations, described in Chapter 2 of the HSFMP, are based on available land base acreage figures determined using GIS data in 2002 along with the 1985 State Forest Inventory identifying the average volume per acre of commercial timber available on State Forest lands. The fieldwork for a new forest was completed 2012. The data from this inventory is being evaluated this winter.

The amount of timber harvested annually will vary and may be more or less than the annual allowable harvest figure for the State Forest. However, at no time shall the acreage harvested on a decadal basis exceed 58.8 million board feet for that ten year period which is the amount of harvest that has been determined to provide for the perpetual supply of this forest resource.

Changes from Previous Schedules

The sale areas listed in this schedule have been presented in previous published schedules; however the order in which they appear has changed. The timber volumes to harvest, as well as the unit size and shape for the proposed sale areas have not been determined at this time. The harvest activity information presented here is an estimate for review at this preliminary stage of planning.

Market conditions remain unchanged to recent schedules at this time and the volume offered has been calculated by area using our average volume per acre determined in our 1985 forest inventory report.

This harvest schedule will allow for the development of an economically sound harvest industry capable of supporting local resource and potentially regional biomass markets in a sustainable manner. Designed to provide economical and progressive development of timber resources in a logical and sustainable distribution, this schedule is intended to satisfy resource extraction demand and meet the multiple resource intent of the HSFMP.

Proposed Five-year Harvest Activities

The dates listed in this five-year Forest Management Schedule refer to calendar years.

2014

Glacier Side 2 - This sale will consist of two units on the west side of Glacier Creek containing approximately 160 acres and designed for cable yarding systems with some potential for ground yarding systems in portions of the harvest area. Total volume is estimated at 4.0 million board feet.

Chinook – This sale will be located between Glacier and Sarah Creeks on approximately 200 acres designed for ground logging systems.

Walker 1 - This sale will be approximately 17 acres in size and is located one-mile northwest of Walker Lake and is designed for cable swing yarding systems. Proposed new road construction associated with this sale will improve access to the lake.

Miscellaneous Sales - An additional 10 to 20 small sales will be laid out and sold. Total volume is estimated to be 500 thousand board feet.

2015

Glacier Side 1 - This sale totals approximately 108 acres and includes two units on the east side of Glacier Creek and will require high-lead and/or swing cable yarding systems. Total volume is approximately 3.1 million board feet.

Kirby - This sale will consist of one or two units for approximately 2.0 million board feet east of Porcupine Creek and will be designed for ground yarding systems.

Devil's Elbow - This sale will be near the Little Salmon Knobs area and will be approximately 40 acres in size. This harvest area will be primarily designed for ground yarding systems, however potential for cable yarding to prevent resource isolation exists in this unit.

Miscellaneous Sales - An additional 10 to 20 small sales will be laid out and sold. Total volume is estimated to be 500 thousand board feet.

2016

Jarvis Road – This sale will consist of 2 or 3 units totaling approximately 200 acres between Sarah and Jarvis Creeks.

Hemlock Gold – This sale will be approximately 100 acres and 2.0 million board feet of timber located near the base of Flower Mountain to the west of the existing access road.

West Herman V - This sale will be approximately 20 acres in size and is located between the Porcupine road and the Sunshine Mountain road adjacent to the West Herman I unit. This harvest unit is designed for ground skidding systems.

Miscellaneous Sales - An additional 10 to 20 small sales will be laid out and sold. Total volume is estimated to be 500 thousand board feet.

2017

Mineral Mountain – This sale will be on the hillside between Glacier Creek & Porcupine Creeks and will be designed for cable high-lead and ground logging systems.

Single Fifteen – This sale consists of a ninety-acre unit, located on the south side of the Kelsall River. This will require high-lead cable yarding and the construction of 5,040 feet of new road.

Turn Around – This sale is located in the Kelsall system off the 300 road. It will consist of approximately 4.0 million board feet of timber.

Miscellaneous Sales - An additional 10 to 20 small sales will be laid out and sold. Total volume is estimated to be 500 thousand board feet.

2018

210 Top Shelf – This sale area is located above the 210 road off the Kelsall road system and totals approximately 150 acres. The area harvested will combine clear-cut and selective harvest methods.

Lands End - This sale will consist of two to three units east of Jarvis Creek containing approximately 200 acres.

West Side - This sale will be designed for ground skidding systems and will be approximately 40 acres in size located between Porcupine and Glacier creeks.

Miscellaneous Sales - An additional 10 to 20 small sales will be laid out and sold. Total volume for these sales is estimated to be 500 thousand board feet.

Year	Map locator	Timber Sale Name	Volume (MBF)	Total (MBF)
2014	1	Glacier Side 2	3,400	
	2	Chinook	4,000	
	3	Walker 1	400	
		Miscellaneous Small Sales	500	8,300
2015	1	Glacier Side 1	3,100	
	2	Kirby	2,000	
	3	Devils Elbow	400	
		Miscellaneous Small Sales	500	6,000
2016	1	Jarvis Road	4,000	
	2	Hemlock Gold	1,500	
	3	West Herman V	500	
		Miscellaneous Small Sales	500	6,500
2017	1	Mineral Mountain	5,000	
	2	Single 15	2,000	
	3	Turn Around	4,000	
		Miscellaneous Small Sales	500	11,500
2018	1	210 Top Shelf	2,000	
	2	Lands End	3,200	
	3	West Side	2,000	
		Miscellaneous Small Sales	500	<u>7,700</u>
Total Volume 2014-2018				40,000

TRANSPORTATION

State Forest Roads

Forest Roads on the Haines State Forest have been developed to fulfill the management intent as directed for the sustainable harvest, regeneration and protection of the timber resource found within its boundaries. There are presently two main forest road systems in the Haines State Forest. These systems are located in the Klehini, Little Salmon, Kelsall, and Chilkat River drainages. Most of the logging access roads are typically constructed by overlaying rock on top of the existing organic mat that has been modified by excavation to support the overlay. Construction specifications are defined in the DOF “Coastal Region Forestry Road Standards” and road design will adhere to this policy document. These standards reflect proven road building methods developed in the region over the past sixty years and are reflected in the HSFMP guidelines for road management activities on the Forest.

The standards use practical road location techniques such as the utilization of existing benches to avoid unstable areas and full bench construction as required on sloped areas. Additionally, frequent cross drains, periodic ditch and culvert maintenance, and the use of grass seeding on exposed soil banks will be used to minimize sediment movement through the road development and maintenance periods. Close adherence to the Forest Resources and Practices Regulations on all road construction design and implementation will be utilized to protect and enhance, when possible, wildlife and fisheries resources.

Logging roads may be used by the public with varied interest such as miners, hunters, anglers, woodcutters, berry pickers, photographers, hikers, etc. During the winter skiers, snowmobile riders, trappers and dog musher’s may use State Forest roads for access and recreation. Also, importantly, these roads provide access for Wildland fire protection during months of forest fire danger to protect and enhance the many resources of the State Forest.

Maintenance

State timber sale contract stipulations require safe driving and log hauling conditions while an operator is working under contract to the State. This includes not just grading and ditching but culvert maintenance and road side brushing as well. Road use and maintenance agreements between two operators using the same road may be required. However, once the sale contract has expired, the contractor has no further legal obligation to provide road maintenance. The state is then responsible for maintaining any roads which are to be kept open for continued resource access. Typical maintenance expenses might include road grading, ditching, brushing, culvert maintenance, surface rock replacement, and bridge replacement.

Forest Resource Access

Roads proposed for development in this plan are primarily designed for access to the Forest timber base for extraction of that resource. Other resources that may benefit from this development or be impacted by road development are considered and described in the FLUP associated with that activity. Additional access to State Forest land may include the development and maintenance of trails independent of access development associated with timber harvest. Alternatives to road construction such as the use of helicopters and winter road harvest methods during resource extraction will be considered during project development.

TRANSPORTATION SCHEDULE
Haines State Forest
January 1, 2014 to December 31, 2018

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Submitted by: Greg Palmieri

Project ID	Year	Sale Access	Type	New Activity	Maint. Unit Miles of Road
<u>2014</u>					
Glacier Side 2		Glacier Creek Road	Secondary Road	2	15.5
Chinook		Glacier Creek Road	Secondary Road	1	16
Walker 1		Sunshine Mtn. Road	Secondary Road	0.9	6
<u>2015</u>					
Glacier Side 1		Glacier Creek Road	Secondary Road	1.6	15
Kirby		Glacier Creek Road	Secondary Road	0.5	15.5
Devils Elbow		Little Salmon Road	Secondary Road	0.25	5
<u>2016</u>					
Jarvis Road		Glacier Creek Road	Mainline Road	0.65	17.7
Hemlock Gold		Glacier Creek Road	Mainline Road	0.65	12.5
West Herman V		Porcupine or Sunshine Mtn. Roads	Secondary Road	0.3	6
<u>2017</u>					
Mineral Mountain		Glacier Creek Road	Mainline Road	4	15.5
Single 15		Kelsall 300 Road	Mainline/Secondary	1.01	13
Turn Around		Kelsall 100/300 Roads	Mainline Road	2	15
<u>2018</u>					
210 Top Shelf		Kelsall 210 Road	Secondary Road	1.5	9.5
Lands End		Glacier Creek Road	Mainline Road	1.2	18.4
West Side		Glacier Creek Road	Secondary Road	0.3	14.5

SILVICULTURE ACTIVITIES

Objective

A primary objective and policy of State Forest Management is to provide for the regeneration of all timber harvest lands within the Haines State Forest to maintain the sustainable extraction of timber resources for generations to follow. On these lands managed by DOF stand improvement practices such as thinning and pruning of second growth timber will be accomplished to provide for the enhancement of this valuable resource, and associated resources, over time.

Policies and Practices

Site preparation is best accomplished either during or immediately following harvest, and will be accomplished for all units in this plan. Site preparation includes burning, and/or mechanical scarification. Mechanical scarification might be as simple as requiring ground yarding methods where log skidding will develop the required soil disturbance. Burning has been used successfully on the Haines State Forest and is best accomplished in the first three years following harvest. After three years, the fine fuels (twigs, small branches, etc.), which carry the fire, decompose and make fire a less practical consideration.

Sitka spruce and western hemlock are the two predominant commercial species within the Haines State Forest. Replanting of Sitka Spruce trees has occurred on the forest since the late 1970's. Timber sale contractors have been required to replant harvest areas on large sales. Sitka Spruce is the species selected for planting on harvest areas in order to meet the regeneration goal set in the Alaska Forest Practices Act for this region based on its ability to provide a quality building product which increases the value of the resource. The relatively shade tolerant hemlock is often found as a seedling in the understory of the pre-harvest stand and responds well to release when the timber is removed, therefore it will always comprise a component of the regenerating stand. Both Sitka spruce and Western hemlock are good seed producers typically having some seed production each year and a good crop every five to seven years.

Additionally, the State has collected 135 bushels of Sitka spruce cones since 1996, which is sufficient seed to plant all of the units in this five-year Forest Management Schedule. Most of the logging and subsequent planting effort for this five-year Forest Management Schedule will be in the Kelsall, Klehini, and Little Salmon areas. Additional seed should be collected from genetically superior Sitka spruce trees in these areas. Such trees should exhibit good form, size, and resistance to disease and defects. Location of such trees will be an ongoing activity of the Division of Forestry, as will cone collections during good cone crop years.

Natural reforestation depends on the preparation of a good seedbed, adequate moisture, and lack of competition from brush species. Cable yarded units on hillsides naturally reseed well and these units may also be planted at intervals from 10 to 16 feet to ensure regional Forest Practice Regulation goals are met. A more intense planting effort will be concentrated on the flat sites logged in the winter, and on dry hillsides. In general, seedlings will be planted at a rate of approximately 400 trees per acre or at 10-foot spacing.

Prescribed burning will be used on selected sites to remove higher than normal amounts of slash, to remove or reduce a brush component and/or to reduce the potential spread of insects or diseases that may limit the normal productivity of Forest stands. Reforestation, to the extent practical, will be accomplished the year immediately following harvest or burning. Planting will be conducted primarily in the spring due to better survival rates. Reforestation surveys will normally be conducted in the fourth year after completion of logging in each unit, or be conducted in the fourth year following planting.

DOF is continually studying and evaluating areas with regeneration problems to ensure reforestation in a timely manner. Results that improve seedling survival will be incorporated into future planting and timber sale contracts.

Thinning Activities

DOF applies pre-commercial thinning strategies to young regenerating stands on some of the more productive sites to increase the value of timber at rotation age as well as enhance the wildlife habitat during stand development. A total of 1960 acres have been thinned since 1993 when the thinning program was first initiated on the Haines State Forest. These overstocked units benefit greatly from a thinning release. Tree spacing following thinning treatment has ranged from 12' X 12' to 20' X 20'. According to measured results found by periodic sampling of permanent research areas within the forest, those areas previously thinned have shown an increase in average volume per tree and vigorous growth while creating diversity in stand structure.

Pruning Activities

Stand improvement can be derived from the practice of pruning designated trees which will promote the production of clear grain wood volume to the bole of a tree receiving treatment. This practice may also provide some protection from insect and disease impacts. Permanent study plots have been established to measure the results of implementing this program with two measurements occurring to date. Although it is too early in the study to draw conclusions on the success of the practice there is evidence supporting the continuation of the stand treatment in this five year period. A total of 360 acres have been pruned since 2000 when the pruning program was first initiated on the Haines State Forest.

Summary of Five-Year Schedule Activities

2014

Inventory field work of approximately 17,000 acres of regenerating forest stands to determine growth and stand dynamics will follow the planning stage for the project this year. The field work for this project may be done over a two year period.

20 to 50 acres of the second growth forest are scheduled for pre-commercial thinning and/or pruning.

8,000 spruce seedlings are scheduled for planting in the small sale harvest program units.

2015

Second growth forest inventory study continues.

20 to 50 acres of the second growth forest are scheduled for pre-commercial thinning and or pruning.

8,000 spruce seedlings are scheduled for planting in the small sale harvest program units.

2016

One or both of the Glacier side 2 units are scheduled for a prescribed burn depending on the completion date of harvest activities.

20 to 50 acres of the second growth forest are scheduled for pre-commercial thinning and or pruning.

2017

DOF may conduct a prescribed burn of logging slash in one or more units in the Glacier Side 1 sale after harvest is completed.

20 to 50 acres of the second growth forest are scheduled for pre-commercial thinning and or pruning.

2018

20 to 50 acres of the second growth forest are scheduled for pre-commercial thinning and or pruning.

RECREATION DEVELOPMENT

Forest Recreation

Public Recreation activities across the Haines State Forest range from subsistence gathering to hiking, boating, and camping. Public Recreation takes two basic forms that can be described simply as commercial and non-commercial (or private). These user groups take advantage of both the developed access routes, including roads and trails, as well as the remote undeveloped areas of the forest.

Some commercial activities currently occurring within the HSF are lake/river boat tours, guided hunting, guided hiking tours, guided wildlife viewing tours, snow-cat skiing, helicopter-skiing, ATV site-seeing tours, film/photography/television, and guided backcountry excursion trips. Private recreation activities are similar including many subsistence related uses along with Forest use for more personal reasons. Some private activities can be described as hunting, fishing, berry/mushroom/herb picking, boating, wildlife viewing, hiking, snow shoe/skiing, camping, mountain climbing, ice climbing, ATV riding, photography/filming, and prospecting/gold panning.

The DOF will work to provide for the development of recreation opportunities under a multiple use designation consistent with the management guidelines described in the Haines State Forest Management Plan.

Accomplishments from over the last several years, although limited, focus on the Forest wide goals described in the HSFMP.

- A trail has been located into Davidson Lake.
- Ripinski Trail has been surveyed and assessed for high impact areas, and discussions have begun for proposed repairs.
- Walker Lake multiple use trail location reconnaissance has been completed.
- New trail/road signage has been purchased.
- Cooperation with State Division of Parks developments includes the access trail to Chilkat Lake.

Proposed Developments

The proposals outlined here are presented to illustrate a possible schedule as funding allows. Currently, no recreation funding has been designated for this schedule period, therefore development will occur as funds can be made available from the general operating budget or other sources. It may be possible and most productive to combine recreation development with other activities planned for in this schedule. It is the intention of DOF to take advantage of all opportunities to provide for the development of recreation resources on the State Forest.

Working with the Division of Parks and Recreation (DPOR), Haines DOF is considering the development of cabins on both DPOR and DOF managed lands in our area under a cooperative management program. Combining resources of the two agencies may allow for the successful development of recreation shelters supported by the community. DOF supports the initial

development of potential high use cabins sites on DPOR managed lands. Additionally, DOF has identified potential cabin sites on the HSF in previous HSFMP's and a listing of those sites follows:

- Chilkat Lake
- Davidson Lake
- Walker Lake
- Little Salmon Lake

Summary of Five-Year Schedule Activities

This summary is intended to identify possible and proposed actions relating to recreation development during this schedule period. Some of these actions are progressive over the entire period and some may be accomplished in one season. This information does not depict deadlines for accomplishment of any task, but should be used to provide for discussion and suggestion from the public and commercial recreation interests within our management area.

2014-2018

Install new road and trail signage.

Construct ATV trail into Walker Lake to proposed shelter site.

Perform a site survey of existing public recreation land at Chilkat Lake for the construction of a cabin at the site and the development of a recreation plan for the site.

Perform recreation development reconnaissance for projects connected to the Kelsall Road system.

Recreation Activities Schedule		
Haines State Forest		
January 1, 2014 to December 31, 2018		
Submitted by: Greg Palmieri		
Activity Year	Description	Miles/Acres
2014	Walker Lake Trail Construction	1.5 miles
	Chilkat Lake Cabin Survey	5 acres
	Little Salmon/Porcupine Rd Trail Recon.	6.2 miles
	Area Trail repairs	
2015	Davidson Lake Trail Cabin Survey	1mi/3 acres
	Area Trail Repairs	
	Walker Lake shelter survey and design.	
	Reconnaissance of projects off Kelsall Road system.	
2016	Little Salmon Lake Cabin/trail reconnaissance.	2.5mi/5 acres
	Area Trail Repairs	
2017		
	Reconnaissance of Rec. projects on Takshanuk Ridge	
	Area Trail Repairs	
2018	Area Trail Repairs	
	Walker Lake Shelter construction.	