

**TIMBER NOTICE OF SALE**

**SALE NAME:** ALEC FIRE SALVAGE FIT SORTS

**AGREEMENT NO:** 30-93364 - 30-93367

**AUCTION:** February 23, 2016 starting at 10:00 a.m.  
Northeast Region Office, Colville, WA

**COUNTY:** Ferry

**SALE LOCATION:** Sale located approximately 8 miles east of Curlew, WA.

**PRODUCTS SOLD**

**AND SALE AREA:** All fire damaged species, except leave trees bounded by yellow leave tree area tags and as described in Schedule A in Units 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 bounded by blue Special Management Unit boundary tags meeting the specifications described below; on parts of Sections 24, 25, 26, 27, 34, 35, and 36 all in Township 39 North, Range 34 East W.M., containing 873 acres, more or less.

**MINIMUM BID AND ESTIMATED LOG VOLUMES:**

Agreement #	Sort #	Species and Sort Specifications	Average Log Length	Estimated Volume		Tons Per MBF	Minimum Bid Delivered Prices		Total Appraised Value	Bid Deposit
				Mbf	Tons		\$/mbf	\$/Ton		
30-093366	03	ES/LP/SAF 7- 10" dib	N/A	180	990	5.5		\$51.00	\$50,490.00	\$5,049.00
30-093367	04	DF/WL/ES/LP/SAF 5-6" dib	N/A	700	4480	6.4		\$36.00	\$161,280.00	\$16,128.00

**Totals:** **880 5470** **\$211,770.00**

**CERTIFICATION:** This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BV-SFIS-US09000572)

**BID METHOD:** Sealed Bids **UNIT OF MEASURE:** Tonnage Scale

**EXPIRATION DATE:** November 30, 2016 **ALLOCATION:** Export Restricted

**PAYMENT SECURITY:** To be determined by the State as described in Clause P-045.2 of the Purchaser's Contract.

**BIDDING PROCEDURES:** A separate sealed bid and envelope must be submitted for each log sort. Prospective Purchasers may bid on any or all log sorts. On the day of sale the Purchaser must bring their bid deposit up to 10% of their total bid price. Complete bidding procedures and auction information may be obtained from the Northeast Region Office in Colville WA. Phone number (509)684-7474.

**TIMBER EXCISE TAX:** Purchaser must pay the forest excise taxes associated with the log sorts delivered to them. The tax rate for this sale is 4.2 %. Taxable Stumpage = Total Delivered Value – (Harvest Cost + Estimated Haul Cost + ARRF). For more information contact the Department of Revenue, Forest Tax Section at 1-800-548-8829.

Use the following rates for estimating taxable stumpage:

Harvest Cost = \$0.00 per Ton for sorts 01 and 02 and \$0.00 per Ton for sorts.

## TIMBER NOTICE OF SALE

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Hauling Services Payment Rate per Ton  
= (Base Rate + Mileage Rate) x (Contractor's hauling bid factor)

Base Rate = \$2.35 per ton

Mileage Rate = ((\$0.16 x C miles) + (\$0.11 x A miles)) x Fuel Index Factor

ARRF does not apply.

Note: To calculate AARF rates per ton use the tons\mbf conversion factor in the table above.

**CONFIRMATION:** Each sort is subject to confirmation following auction. Sorts will not be confirmed until at least 10 days after auction. Final contract award is contingent upon the State's haul cost analysis. Actual haul route may vary and is subject to change at the State's discretion.

**SPECIAL REMARKS:** The successful Purchaser(s) will be required to purchase logs from the sale area upon delivery to their location specified in the bid submitted. Logs will be delivered to the Purchaser's delivery location by the State's contract harvester. Purchaser is responsible for weighing and scaling costs. All tonnage loads will be weighed and all mbf loads will be scaled at State approved locations. The State reserves the right to determine where logs are authorized to be scaled and weighed.

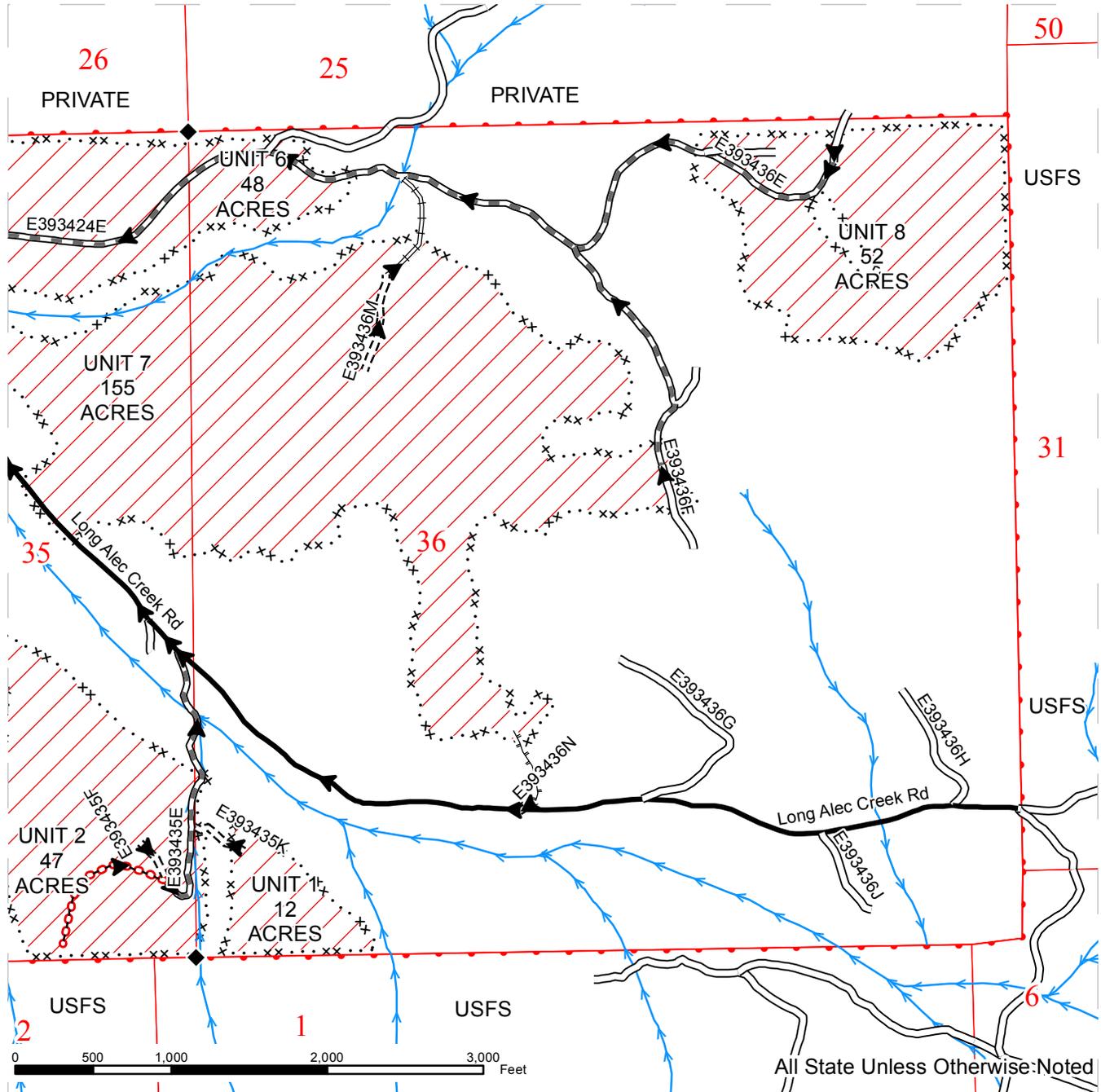
No blue stain is allowed in the lodgepole pine. Fire scars burned through the bark and into the wood fiber will be bucked from the logs prior to delivery.

For more information regarding this log sort sale visit our web site: <http://www.dnr.wa.gov/programs-and-services/product-sales-and-leasing/timber-sales/timber-auction-packets>. If you have questions call Matt Smith at the Northeast Region Office at (509)684-7474 or Steve Teitzel at the Product Sales and Leasing Division Office in Olympia at (360)902-1741.

# TIMBER SALE MAP

**SALE NAME:** ALEC FIRE SALVAGE FIT  
**AGREEMENT#:** 30-093249  
**TOWNSHIP(S):** T39R34E  
**TRUST(S):** Common School and Indemnity(3)

**REGION:** Northeast Region  
**COUNTY(S):** FERRY  
**ELEVATION RGE:** 3600-4989

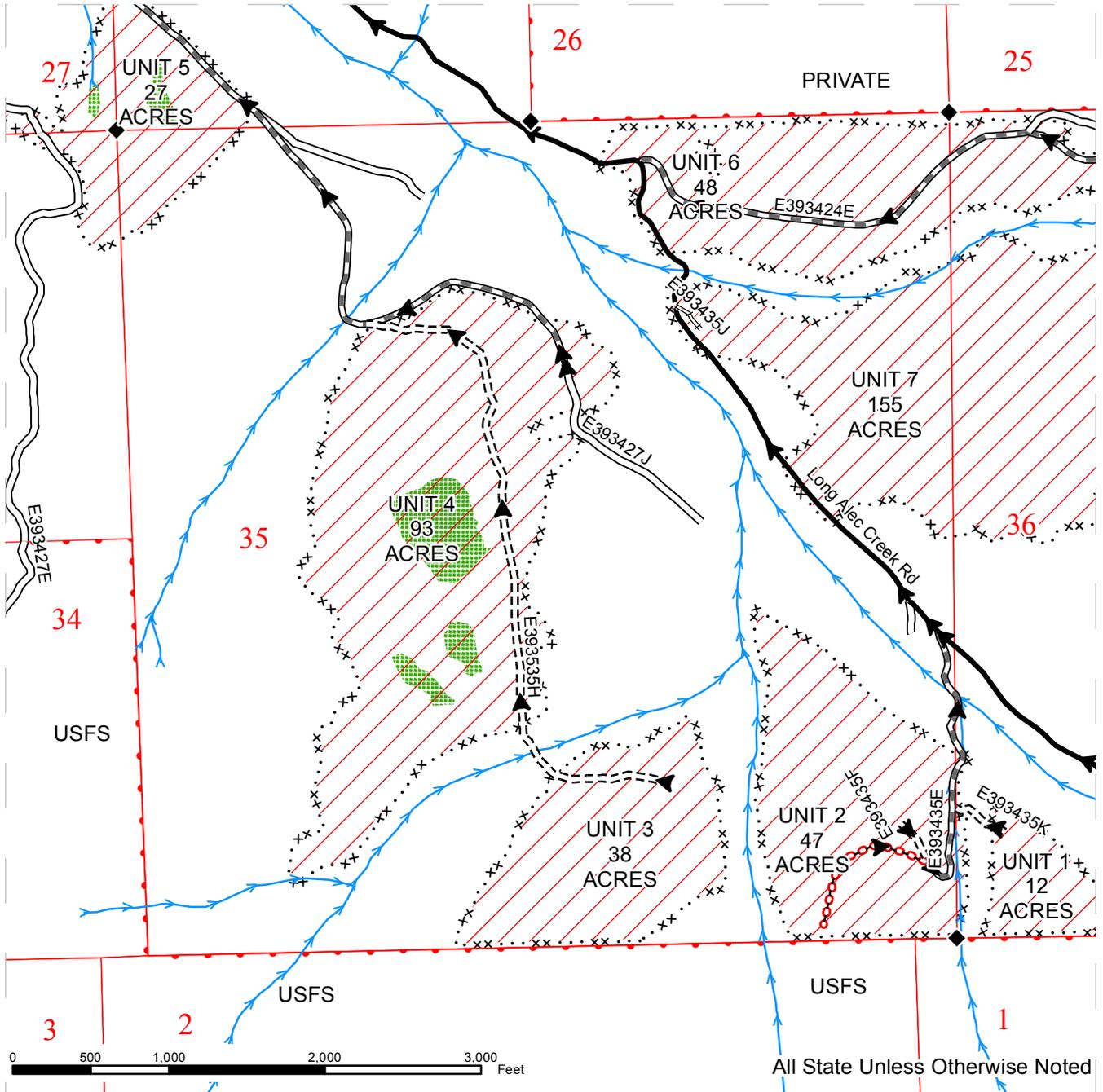


... x Special Mgmt Area Tags	— Existing Road	— Streams
▨ Ground Skidding	- - - Required Construction	◆ Monumented Corners
▨ Leave Tree Area (bounded by yellow LTA tags)	≡≡≡ Required Reconstruction	
	▬ PreHaul Maintenance	
	⌘ Designated Skid Trail	
	○ Abandonment	
	▬ County Road	
	▶ Haul Route	

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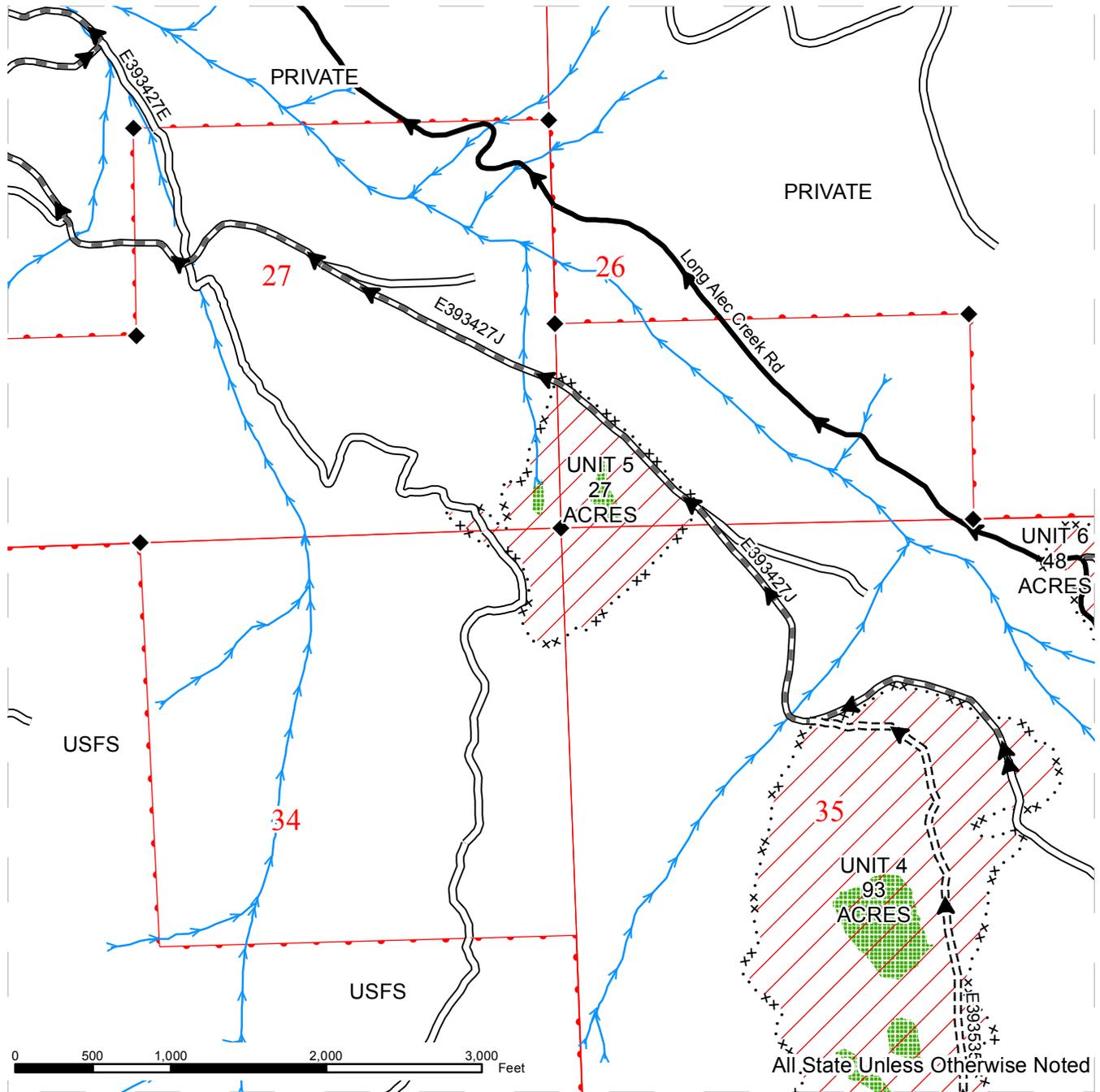


...x Special Mgmt Area Tags	Existing Road	Streams
Ground Skidding	Required Construction	Monumented Corners
Leave Tree Area (bounded by yellow LTA tags)	Required Reconstruction	
	Pre-Haul Maintenance	
	Designated Skid Trail	
	Abandonment	
	County Road	
	Haul Route	

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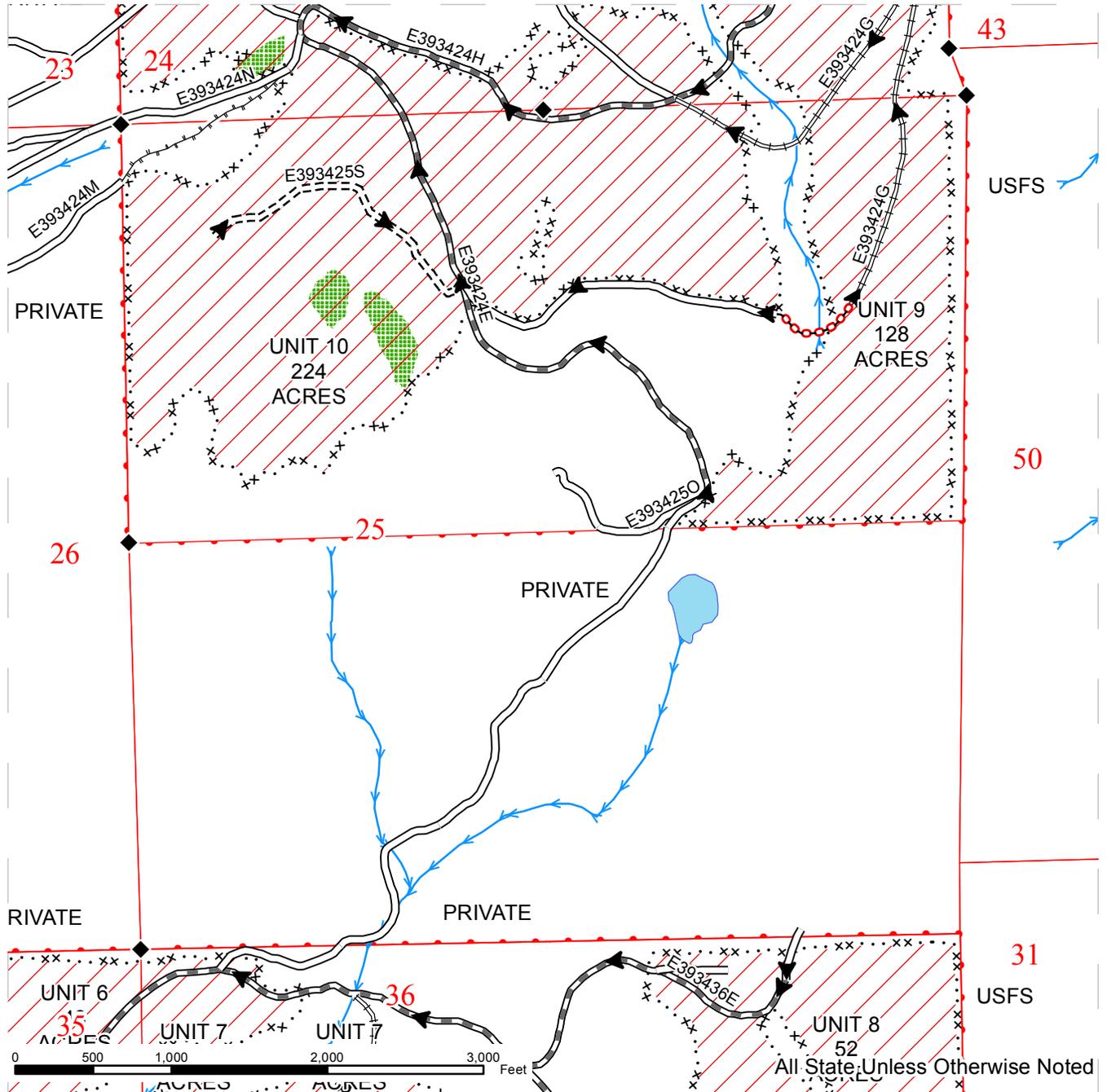


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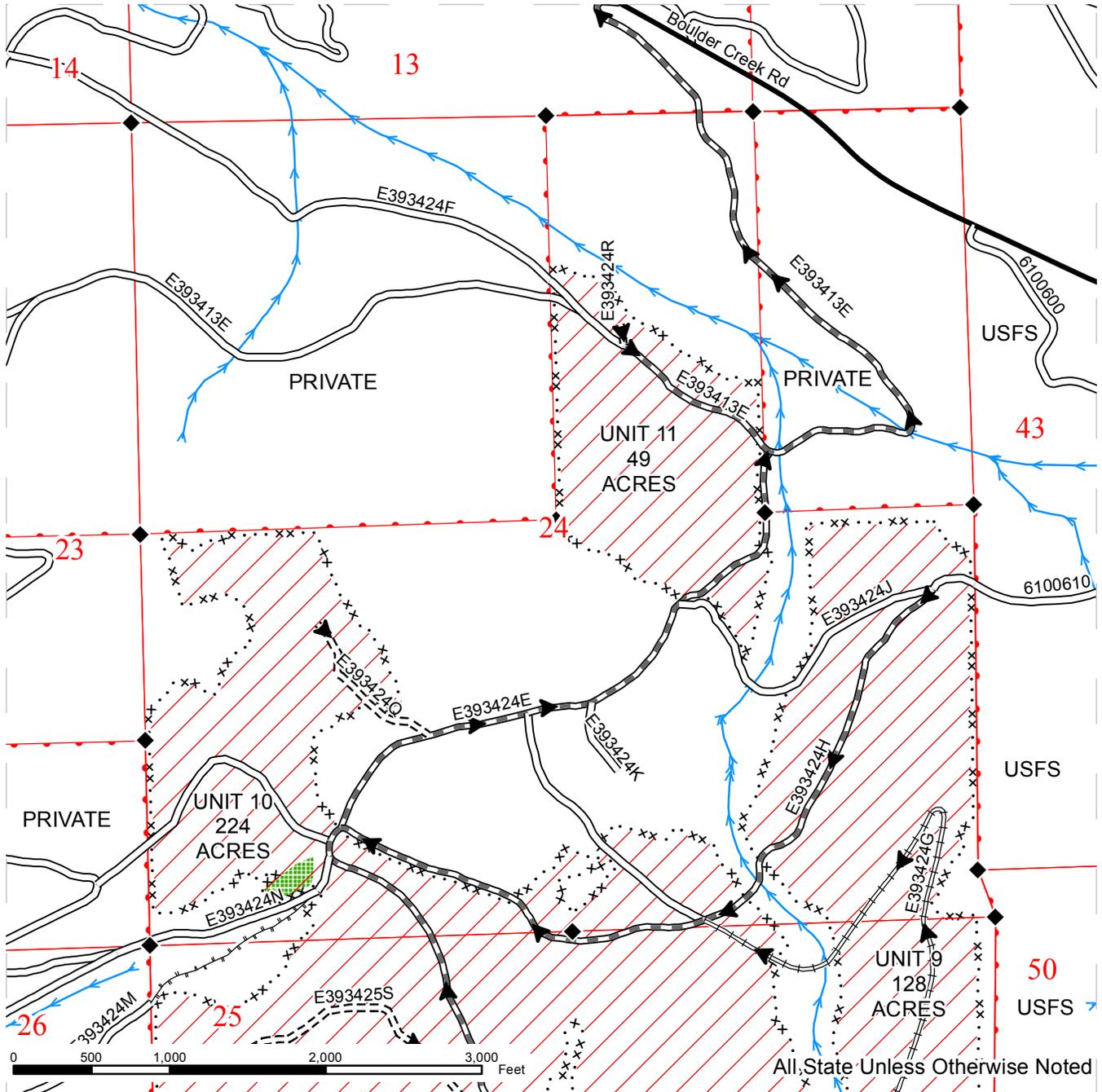
All State Unless Otherwise Noted



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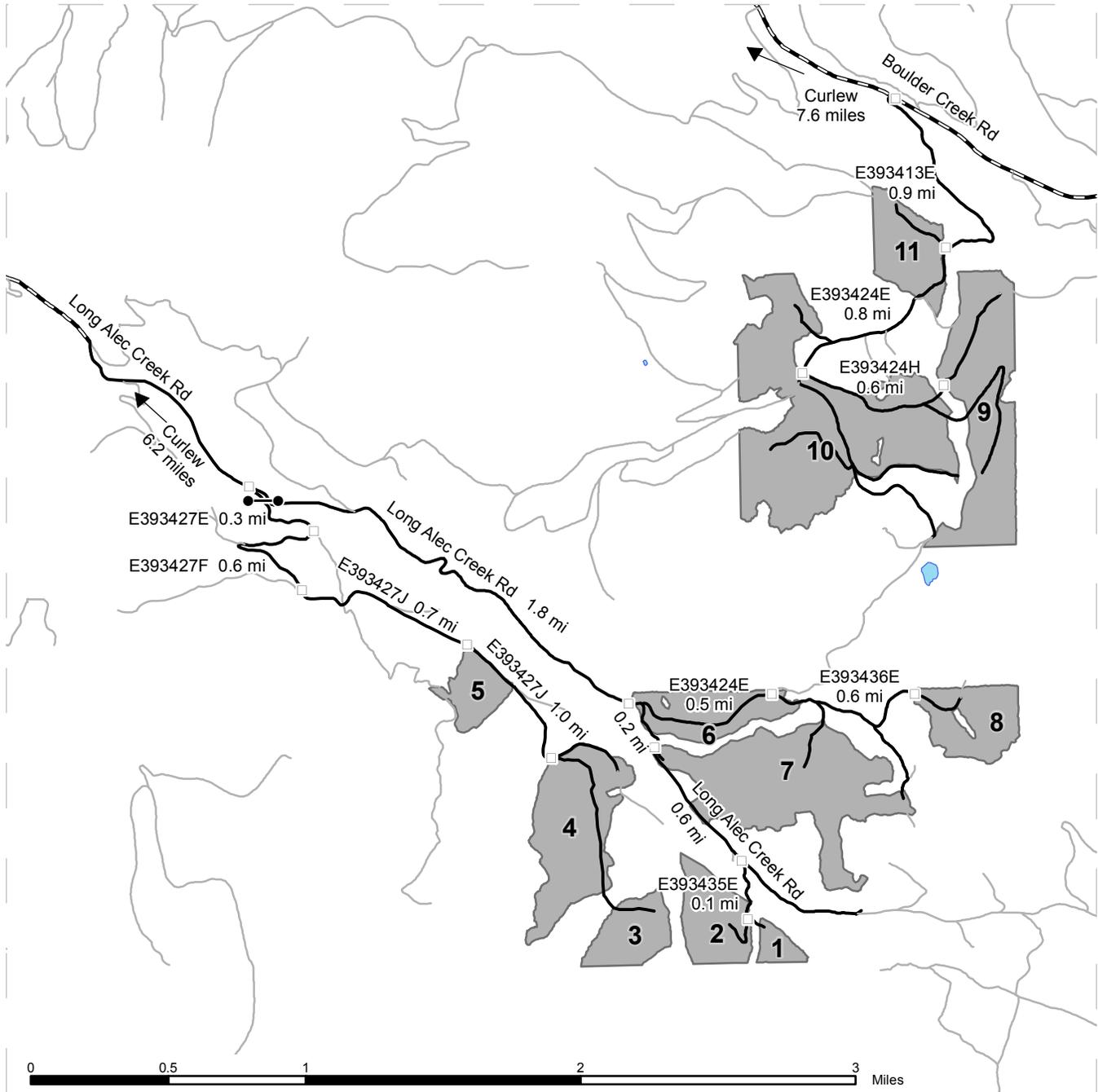
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# DRIVING MAP

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- Timber Sale Unit
- Haul Route
- Other Route
- County Road
- Milepost Markers
- Gate

**DRIVING DIRECTIONS:**

Units 9, 10, and 11:  
 From Curlew, WA travel east on Boulder Creek Rd for 7.6 miles. Turn south on E393413E. Drive 0.9 miles to Unit 11. From Unit 11, turn south on E393424E. Travel 0.8 miles to reach Unit 10 and the junction with E393424H Road. Drive east on E393424H for 0.6 miles to reach Unit 9.

Unit 1, 2, 3, 4, 5, 6, 7, and 8:  
 From Curlew, WA travel east on Long Alec Creek Rd. for 6.2 miles to the intersection with E393427E. Travel southeast on E393427E, opening the locked gate, and then proceeding for 0.3 miles to the junction with E393427F. Drive west on E393427F for 0.6 miles to reach junction with E393427J. Travel east on E393427J for 0.7 miles to reach Unit 5. From Unit 5, continue on E393427J for an additional 1.0 miles to reach the area of Units 3 and 4. From the intersection of Long Alec Creek Rd. and E393427E continue on Long Alec Creek Rd. for an additional 1.8 miles to reach Unit 6 and the junction with E393424E. To reach Unit 8, travel east on E393424E for 0.5 miles to the intersection with E393436E. Stay straight on E393436E for 0.6 miles. From the junction of Long Alec Creek Rd. and E393424E continue on Long Alec Creek Rd. for an additional 0.2 miles to reach Unit 7. From Unit 7 continue on Long Alec Creek Rd for 0.6 miles to the intersection with E393435E. Take E393435E south for 0.1 miles to reach the area of Units 1 and 2.



**STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES**

**LOG SALE AND PURCHASE CONTRACT**

**AGREEMENT NO. 30-093366**

**SALE NAME: ALEC FIRE SALVAGE FIT SORT 03**

**THE STATE OF WASHINGTON DEPARTMENT OF NATURAL  
RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY  
CAPACITY, STATE, AND PURCHASER, AGREE AS FOLLOWS:**

**Section G: General Terms**

**G-001.2 Definitions**

The following definitions apply throughout this contract;

**Contract Administrator:** Region Manager's designee responsible for assuring that the contractual obligations of the Purchaser and Contractor are met.

**Contractor:** State-selected harvester responsible to perform all duties as required by the Harvesting Services Contract, including but not limited to timber harvesting, road construction, debris removal and piling, hauling and delivery of forest products for weighing and/or scaling, to the Purchasers of the timber sales Sorts.

**Delivery:** Occurs when logs or forest products meeting the sorting specifications arrive at the Purchasers destination, as described in the contract.

**Forest Product:** Any material derived from the forest for commercial use.

**Harvesting:** A general term, referring to the Contractor's various obligations under the Harvesting Services Contract.

Harvesting Services Contract: Contract between the Contractor and the State, which sets forth the procedures and obligations of the Contractor for completing the harvesting of timber, and the delivery of various log sorts to the State's purchasers, and the payment obligations of the State, The Harvesting Services Contract will include a Road Plan for any road construction or reconstruction, where applicable.

Log Sale and Purchase Contract: Purchase Agreement between the State and Purchaser(s) of particular log sorts from the timber sale.

Purchaser: The company or individual that has entered a Log Sale Contract with the State for individual log sorts from the timber sale area. The Contractor must deliver the designated log sorts to this company or individual. Contractor will likely be delivering different log sorts to different purchasers under the Harvesting Services Contract.

State: The Washington State Department of Natural Resources, landowner and seller of forest products from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

#### **G-010.2 Products Sold and Sale Area**

Purchaser was the successful bidder on February 23, 2016 and sale was confirmed on \_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the ALEC FIRE SALVAGE FIT SORTS Timber Sale described as parts of Sections 24, 25, 26, 27, 34, 35, and 36 all in Township 39 North, Range 34 East W.M., in Ferry County.

#### **G-022.2 Sorting Specifications**

Purchaser shall accept and pay for delivery of log sorts by a state selected contractor to the designated Purchaser location that meets the following specifications:

<b>Agreement No.</b>	<b>Sort #</b>	<b>Description</b>	<b>Destination</b>
93366	3	ES/LP/SAF 7- 10" dib	

Unless otherwise specified, no blue stain is allowed in Ponderosa pine.

#### **G-024.2 Manufacturing Standards**

All forest products except poles, produced and sold under this contract will be manufactured to maximize the amount of logs meeting preferred log lengths and to achieve the average log length listed.

<b>Agreement No.</b>	<b>Sort #</b>	<b>Scaling Rule</b>
93366	03	ES

Average Log Length	Preferred Log Lengths
N/A	

"WS" indicates that west side scaling rules apply. Minimum trim is 8 inches per scaling segment for west side scaling rules. "ES" indicates that east side scaling rules apply. Minimum trim is 4 inches per scaling segment for east side scaling rules.

Poles produced under this contract will be manufactured to ANSI specifications (American National Standard Specifications and Dimensions for Wood Poles), in force at the time of signing this contract.

- a. Sweep will be limited to within the bole of the log as measured using a tape stretched between the centers of each end of the log.
- b. Logs approved by the state for peelers shall be chuckable with no more than a 2 inch diameter area of rot within a 5 inch diameter circle located at the center of either end of the log.
- c. Limbs and knots shall be cut flush, with no more than 15 percent of a log having limbs or knots over 2 inches in diameter extending more than 2 inches above the surface of the log.
- d. Surface characteristics for a high quality (HQ) "A" log sort will have sound tight knots and not to exceed 1 ½ inch in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots ½ inch and smaller in diameter shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

#### **G-026.2 Log Delivery Destination**

Purchaser shall accept logs delivered to the destination as described in the G-022.2 clause. Purchaser may make a written request to the State for a change in log delivery destination or scaling or weighing location. If agreeable and in the best interest of the State, the State may approve the Purchaser's request. Written approval must be granted by the State prior to log delivery to a new destination or use of a new scaling or weighing facility.

Increased haul distance shall result in an increase in the P-028.2 log delivery payment rate in an amount to be calculated by the State. In no circumstance shall the payment rate for delivered logs be reduced as a result of a state approved delivery destination or scaling or weighing facility change.

Purchaser may refuse loads delivered to the wrong destination.

#### **G-027.2 Log Delivery Schedule and Conditions**

- a. Delivery hours - Purchaser agrees to accept logs from the Contractor at the Purchaser's delivery location during Purchaser's working hours or at least

between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, except legal holidays unless otherwise agreed upon by the State.

- b. Improperly loaded trucks - It is understood and agreed that the Purchaser incurs no obligation to accept improperly or illegally loaded trucks in its facility. Any truck so loaded may be directed to vacate the yard and shall remain the responsibility of the harvesting contractor. The Purchaser shall notify the State within 24 hours of any load (s) rejected and specify the reasons why.
- c. Log Delivery Interruptions - Purchaser may schedule times in which delivery of logs will not be accepted. The Purchaser shall notify the Contract Administrator at least five (5) working days before the scheduled interruption or closure occurs. The duration of the log delivery interruption shall not exceed seven (7) consecutive working days or a total of ten (10) working days over the duration of the contract term. If Purchaser's scheduled delivery interruption exceeds contract requirements and causes the State harm, Purchaser will be in breach of contract and subject to liquidated damages as per the D-026.2 and D-027.2 clauses, unless Purchaser and the State have made a prior agreement in writing to mitigate potential harm to the State.
- d. Required Acceptance of Daily Load Deliveries and Notification - If the State is harmed by purchaser's refusal to accept up to DATA MISSING truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:
  1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or
  2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.
- e. State Notification to Purchaser - The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

**G-030.2 Contract Term and Expiration Date**

Purchaser agrees to accept and pay for forest products delivered through the period ending November 30, 2016.

**G-054.2 Early Contract Termination**

The State may terminate this contract in whole or in part by giving fifteen (15) days written notice to the Purchaser when it is in the best interests of the State. If this contract is so terminated, the State shall be liable only for the return of that portion of the initial deposit that is not required for payment, and the return of unapplied payments. The State shall not be liable for damages, whether direct or consequential.

**G-056.2 Force Majeure**

No Party shall be liable for any failure to perform its obligations, other than payments due, where such failure is as a result of Acts of Nature (including fire, flood, earthquake, storm, or other natural disaster), war, act of foreign enemies, hostilities (whether war is declared or not), terrorist activities, government sanction, fire, labor dispute, strike or lockout.

Any Party asserting Force Majeure as an excuse shall have the burden of proving that reasonable steps were taken (under the circumstances) to minimize delay or damages caused by foreseeable events, that all non-excused obligations were substantially fulfilled, and that the other Party was timely notified of the likelihood or actual occurrence which would justify such an assertion, so that other prudent precautions could be contemplated.

In the event of Force Majeure, the State reserves the right to terminate this agreement in accordance with clause G-054.2 'Early Contract Termination'.

**G-060.2 Exclusion of Warranties**

The PARTIES AGREE that the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and ALL OTHER WARRANTIES EXPRESSED OR IMPLIED ARE EXCLUDED from this transaction and shall not apply to the goods to be harvested or sold. For example, THE FOLLOWING SPECIFIC MATTERS ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. THE VOLUME, WEIGHT, QUANTITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.

d. Items contained in any other documents prepared for or by the State.

**G-065 Regulatory Disclaimer**

The State disclaims any responsibility for, or liability relating to, regulatory actions by any government agency, including actions pursuant to the Forest Practices Act, Ch. 76.09 RCW that may affect the operability of the timber sale.

**G-070.2 Limitation on Damage**

In the event of a breach of any provision of this contract by the State, the liability of the State shall be limited to return of the unused initial deposit and unapplied payments to the Purchaser. The State shall not be liable for any damages, whether direct, incidental, or consequential.

**G-112.2 Title**

The State hereby warrants that State is the owner of said logs and has the right to sell same, free of liens, encumbrances, or claims, but subject to trade restrictions promulgated in WAC 240-15-015. Purchaser assumes title and all risk and responsibility for said logs upon delivery.

**G-116.2 Sustainable Forestry Initiative® (SFI) Certification**

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: BV-SFIS-US09000572.

**G-160.2 Agents**

The State's rights and duties will be exercised by the Region Manager at Colville, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive, modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the logs conveyed beyond the terms of this contract.

The Purchaser agrees to notify the State in writing of their authorized representative at the log delivery destination who will be readily available and who shall be authorized to receive, on behalf of the Purchaser any instructions or notices given by the State in regard to performance under this contract, and any limits to this person's authority.

**G-180 Modifications**

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Purchaser and the State.

**G-190 Contract Complete**

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

**G-200.2 Notice**

Notices required to be given under the following clauses shall be in writing and shall be delivered to the State or Purchaser's authorized agent or sent by certified mail to the Purchaser's post office address, so that their receipt may be acknowledged.

G-026.2 Log Delivery Destination

G-027.2 Log Delivery and Schedule Conditions

G-210.2 Violation of Contract

All other notices required to be given under this contract shall be in writing and delivered to their respective authorized agent or mailed to the Party's post office address. Parties agree to notify the other of any change of mailing address.

**G-210.2 Violation of Contract**

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend delivery of further loads of forest products. If the violation is capable of being remedied, the Purchaser has five (5) days after receipt of suspension notice to remedy the violation. If the violation cannot be remedied (such as violation of WAC 240-15-015) or Purchaser fails to remedy the violation within five (5) days after receipt of a suspension notice, the State may terminate the rights of the Purchaser under this contract and collect damages as described in the damages clause in this contract.
- b. The State has the right to remedy the breach in the absence of any indicated attempt by the Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within thirty (30) days of receipt of billing.
- c. If Purchaser's violation is a result of a failure to make payment to the State when due, in addition to (a.) above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due. The State may secure payments from the security provided.

**G-240.2 Dispute Resolution**

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within five business days.

- c. Within five business days of receipt of the Region Manager's decision, the Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, the Deputy Supervisor - Uplands will hold a conference within 15 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

**G-252.2 Forest Excise Tax**

Purchaser shall be responsible for payment of all forest excise taxes pursuant to chapter 84.33 RCW.

**G-253.2 Harvesting Cost Information**

The State agrees to supply all harvesting cost information to the Purchaser for their consideration in payment of forest excise taxes.

**G-260 Venue**

This contract shall be governed by the laws of the State of Washington. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

**G-330.2 Contract Review**

Purchaser may arrange with the Contract Administrator to review the provisions of this contract prior to the delivery of forest products.

**Section P: Payments and Securities****P-010 Initial Deposit**

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in the 'Payment for Forest Products' clause, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

**P-028.2 Payment for Forest Products Delivered**

Purchaser agrees to pay the State for delivered forest products at the following rate:

\$0.00/Ton

Purchaser agrees to increase the above delivered payment rate as approved by the State in the event the location of delivery is changed per the G-026.2 clause.

**P-036.2 Missorts and Payment Reduction for Delivered Forest Products**

Forest Products delivered that do not meet the sorting specifications in G-022.2 where species are incorrect, are scaled over 1” outside the listed diameter specifications, or ponderosa pine with blue stain are considered mis-sorts.

However, when mis-sorted Forest Products amount to more than 3% of the total delivered sort volume, Purchaser may request approval for payment reduction for delivered volume exceeding the mis-sort threshold.

Requests for payment reduction must be submitted to the State in writing prior to contract expiration. Eligibility for mis-sort payment reduction is subject to State approval and shall be determined by the State’s delivered product analysis. Forest Products determined by the State eligible for mis-sort price reduction are not eligible for any other price adjustments.

Payment reduction for Forest Products deemed mis-sorted will be calculated as follows:

$$\text{Payment Reduction} = (B \times M) \times R$$

Where:

B = Bid rate from P-028.2 clause

M = Mis-sorted volume exceeding threshold excluding utility

R = Reduction factor

0.3 for mis-sort except for blue stain

0.4 for mis-sort related to blue stain

Third party scaling organization information is required to determine Scribner mbf for payment reduction purposes. Value will be derived from the applicable sort value as described in this contract.

Scale information for determining mis-sort payment reduction eligibility must be obtained from roll-out scale. Truck-ramp and/or bundle scaling information is not acceptable for determining eligibility.

Purchaser’s exclusive remedy for mis-sorts shall be the payment reduction described in this clause, notwithstanding other provisions in the Uniform Commercial Code

**P-037.2 Mismatch and Payment Reduction for Delivered Forest Products**

Forest Products delivered that do not meet preferred log length specifications or multiples or combinations of preferred lengths and Forest Products delivered not meeting minimum log quality specifications as described in the G-024.2 clause are considered mis-manufactured. Purchaser receiving mis-manufactured Forest Products is required to pay the State at the bid price under this contract.

However, when mis-manufactured Forest Products amount to more than 3% of the total delivered sort volume, Purchaser may request approval for payment reduction for delivered volume exceeding the mis-manufacture threshold.

Requests for payment reduction must be submitted to the State in writing prior to contract expiration. Eligibility for mis-manufacture payment reduction is subject to State approval and shall be determined by the State's delivered product analysis. Forest Products determined by the State eligible for mis-manufacture price reductions are not eligible for any other price adjustments.

Payment reduction for Forest Products deemed mis-manufactured will be calculated as follows:

$$\text{Payment Reduction} = (B \times M) \times (0.2)$$

Where:

B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

Third party scaling organization information is required to determine Scribner mbf for payment reduction purposes. Value will be derived from the applicable sort value as described in this contract.

Scale information for determining mis-manufacture payment reduction eligibility must be obtained from roll-out scale. Truck-ramp and/or bundle scaling information is not acceptable for determining eligibility.

Purchaser's exclusive remedy for mis-manufacture shall be the payment reduction described in this clause, notwithstanding other provisions in the Uniform Commercial Code.

### **P-039.2 Tonnage Sort Payment Reduction Requirements**

Purchaser must provide a plan in writing, acceptable to the State, to acquire third party Scribner mbf scaling information in order to be eligible for a payment reduction for a tonnage sort according to clauses P-036.2 or P-037.2. Logs delivered and accepted by the Purchaser prior to the State's acceptance of Purchaser's written payment reduction plan are not eligible for payment reduction.

Failure of Purchaser to provide sample scale data in a timely, accurate and legible basis will void an approved sample scale plan.

An approved payment reduction plan can be voided at the sole discretion of the State.

For the purpose of tonnage sort payment reduction requests, preferred log lengths for tonnage sawlog sorts shall include the following plus any additional lengths identified in clause G-024.2:

Species Type	Preferred Lengths
Conifer Sorts	16', 20', 24', 26', 32', 40'
Hardwood Sorts	18', 20', 26', 28', 30', 36', 38', 40'

#### **P-040.2 Weighing and Scaling Costs**

Purchaser agrees to pay for all weighing costs for logs delivered regardless if logs are purchased on a weight or scale basis. In addition, Purchaser agrees to pay for all scaling costs for logs delivered on a scale basis. Purchaser also agrees to pay for all costs associated with the transmission and reporting of scale or weight data.

#### **P-045.2 Guarantee of Payment**

Prior to the delivery of forest products and at a date determined by the State, Purchaser shall guarantee payment to the State for products delivered by posting with the State an approved payment security. If the Purchaser has purchased more than one sort, the payment securities may be consolidated for all the sorts. Acceptable payment security includes cash, certificate of deposit assignment, payment bond, savings account assignment, or irrevocable bank letter of credit.

The amount of payment security shall be determined by the State. The amount of payment security shall represent at least 30 days value of forest product deliveries. Payment security for products delivered will be used to guarantee payment to the State for late or non-payments.

If at any time the State determines that the security has become unsatisfactory or a demand is made against the payment security, the Purchaser agrees to increase the amount or replace the security with one acceptable to the state within 5 business days. Failure to increase the amount or replace the security is considered a breach of contract.

#### **P-050.2 Billing and Payment Procedure for Forest Products Delivered**

The State will compute and forward to Purchaser a billing statement of charges for forest products delivered during the billing period at the delivered rate shown in P-028.2 clause. After receipt of the billing statement, Purchaser's payment must be received by the Department of Natural Resources on or before the due date shown on the billing statement. Purchaser agrees to make payment, payable to the Department of Natural Resources. Failure to pay on time for forest products delivered is considered a breach of contract.

Included with the billing statement will be a summary report for the billing period compiled by the State or their log and load reporting service.

The State will adjust final billings to account for any State approved payment reductions.

#### **P-080 Payment Account Refund**

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report

of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## **Section L: Log Definitions and Accountability**

### **L-010.2 Forest Products Conveyed**

Forest products conveyed are logs or parts of logs delivered meeting the sorting criteria defined by clauses G-022.2 and G-024.2 of this contract

### **L-014.2 Sorts Delivered to Incorrect Destination**

Purchaser has agreed to purchase the sort as described in the G-022.2 clause. In the event a load from a different sort is delivered to Purchaser, Purchaser may reject the load. If Purchaser receives an incorrectly delivered load, they shall notify the State within 24 hours. If the Purchaser accepts the load, provisions in the P-035.2 or P-036.2 clause may apply.

### **L-071.2 Log and Load Reporting Service**

This contract may at the States discretion, require the services of a State approved third party log and load reporting service. Purchaser shall ensure log volume measurement, weight, or scale and weight data for each load is received by the log and load reporting service within of logs being measured or weighed.

If during the term of this contract, the State discontinues use of the Log and Load Reporting Service, the State will notify the Purchaser in writing, and will approve an alternative log and load reporting process.

### **L-090 Scaling Rules**

Determination of volume of any forest products shall be conducted by a state approved third party scaling organization and in accordance with the Eastside log scaling and grading rules, Region 6 taper rules, and Scribner Volume Table, revised July 1, 1972, contained in the Northwest Log Rules Eastside and Westside Log Scaling Handbook (developed and produced by the Northwest Log Rules Advisory Group) and in effect on the date of confirmation of this contract.

Special scaling specifications shall be noted on the State's Brand Designation form which is hereby incorporated to this contract by reference.

### **L-110 State Approval of Log Scaling and Weighing Locations**

Forest Product measurement and weighing facilities required by this contract must be approved by the State. Forest products sold under the contract which require log scaling shall be scaled, measured, or counted by a State approved third party log scaling organization. Forest products sold under the contract which require weighing shall be weighed at a location that meets Washington State Department of Agriculture approval.

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are

currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

## **Section D: Damages**

### **D-010 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for payments by Purchaser to the State for certain breaches of the terms of this contract. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

#### **D-026.2 Damages for Delivery Interruptions and Load Non-Acceptance**

- a. Purchaser's failure to accept delivery of forest products due to an extended delivery interruption exceeding the limits as described in the G-027.2 (c) clause, results in substantial injury to the State. The Purchaser shall pay the State liquidated damages at a rate of \$1,000.00 per each day of breach, until breach is remedied.
- b. Unless Purchaser and the State have made a prior agreement in writing, Purchaser's failure to accept at least the number of delivered loads as described in the G-027.2 (d) clause, results in substantial injury to the State. The Purchaser shall pay the State liquidated damages at a rate of \$200 per each truck delivery not accepted, until breach is remedied.

#### **D-027.2 Failure to Accept Forest Products Sold**

Purchaser's failure to accept all or part of the forest products sold in this agreement prior to expiration or completion of the contract results in substantial injury to the State. Except for reasons other than 'Force Majeure' (G-056.2), either section a. or b. below will apply as determined by the State.

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to

assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

$$LD = (.35V - I) + C + A - P$$

Where:

- LD = Liquidated Damages  
 V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort.  
 I = Initial Deposit  
 C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.  
 A = Administrative fee = \$2,500.00  
 P = Advance payments received exceeding the value of logs delivered under this contract.

The above formula reflects the Purchaser's forfeiture of the initial deposit in accordance with clause P-010 by deducting the initial deposit from the amount owed. In no event shall the liquidated damages be less than zero. Interest on the liquidated damage is owed from the date of the work stoppage until final payment, calculated using the following formula:

$$\text{Interest} = r \times LD \times N$$

Where:

r = daily equivalent of an annual interest at current interest rate as established by WAC 332-100-030.

N = Number of days from work stoppage to time of payment

### **D-030.2 Inadequate Log Accountability**

Failure to provide weighing and third party scaling information result in substantial injury to the State. The potential loss of accountability is not readily ascertainable. These contractual breaches result in an increase in the potential for the delivery of forest products for which the State receives inadequate payment and causes an increase in the State's administration costs associated with this contract. The actual costs of these breaches are difficult to assess.

For these reasons, Purchaser's payments for forest product delivery under this contract will be increased in the following amounts, as liquidated damages, to compensate the State for these breaches: \$250.00 each time a load weight is not provided as required by the contract, and \$250.00 each time load scale data is not determined and provided by a State approved third party scaling organization in accordance with this contract.

**DRAFT**

**DRAFT**

**DRAFT**

IN WITNESS WHEREOF, the Parties hereto have entered into this contract.

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

\_\_\_\_\_  
Purchaser

\_\_\_\_\_  
Loren D. Torgerson  
Northeast Region Manager

Date: \_\_\_\_\_  
Address: \_\_\_\_\_

Date: \_\_\_\_\_

CORPORATE ACKNOWLEDGEMENT

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared \_\_\_\_\_

\_\_\_\_\_ to me known to be the \_\_\_\_\_ of the corporation that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that (he/she was) (they were) authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

\_\_\_\_\_  
Notary Public in and for the State of

\_\_\_\_\_  
My appointment expires \_\_\_\_\_

**STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES**

**LOG SALE AND PURCHASE CONTRACT**

**AGREEMENT NO. 30-093367**

**SALE NAME: ALEC FIRE SALVAGE FIT SORT 04**

**THE STATE OF WASHINGTON DEPARTMENT OF NATURAL  
RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY  
CAPACITY, STATE, AND PURCHASER, AGREE AS FOLLOWS:**

**Section G: General Terms**

**G-001.2 Definitions**

The following definitions apply throughout this contract;

**Contract Administrator:** Region Manager's designee responsible for assuring that the contractual obligations of the Purchaser and Contractor are met.

**Contractor:** State-selected harvester responsible to perform all duties as required by the Harvesting Services Contract, including but not limited to timber harvesting, road construction, debris removal and piling, hauling and delivery of forest products for weighing and/or scaling, to the Purchasers of the timber sales Sorts.

**Delivery:** Occurs when logs or forest products meeting the sorting specifications arrive at the Purchasers destination, as described in the contract.

**Forest Product:** Any material derived from the forest for commercial use.

**Harvesting:** A general term, referring to the Contractor's various obligations under the Harvesting Services Contract.

Harvesting Services Contract: Contract between the Contractor and the State, which sets forth the procedures and obligations of the Contractor for completing the harvesting of timber, and the delivery of various log sorts to the State's purchasers, and the payment obligations of the State, The Harvesting Services Contract will include a Road Plan for any road construction or reconstruction, where applicable.

Log Sale and Purchase Contract: Purchase Agreement between the State and Purchaser(s) of particular log sorts from the timber sale.

Purchaser: The company or individual that has entered a Log Sale Contract with the State for individual log sorts from the timber sale area. The Contractor must deliver the designated log sorts to this company or individual. Contractor will likely be delivering different log sorts to different purchasers under the Harvesting Services Contract.

State: The Washington State Department of Natural Resources, landowner and seller of forest products from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

#### **G-010.2 Products Sold and Sale Area**

Purchaser was the successful bidder on February 23, 2016 and sale was confirmed on \_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the ALEC FIRE SALVAGE FIT SORTS Timber Sale described as parts of Sections 24, 25, 26, 27, 34, 35, and 36 all in Township 39 North, Range 34 East W.M., in Ferry County.

#### **G-022.2 Sorting Specifications**

Purchaser shall accept and pay for delivery of log sorts by a state selected contractor to the designated Purchaser location that meets the following specifications:

<b>Agreement No.</b>	<b>Sort #</b>	<b>Description</b>	<b>Destination</b>
93367	4	DF/WL/ES/LP/SAF 5-6" dib	

Unless otherwise specified, no blue stain is allowed in Ponderosa pine.

#### **G-024.2 Manufacturing Standards**

All forest products except poles, produced and sold under this contract will be manufactured to maximize the amount of logs meeting preferred log lengths and to achieve the average log length listed.

<b>Agreement No.</b>	<b>Sort #</b>	<b>Scaling Rule</b>
93367	04	ES

Average Log Length	Preferred Log Lengths
N/A	

"WS" indicates that west side scaling rules apply. Minimum trim is 8 inches per scaling segment for west side scaling rules. "ES" indicates that east side scaling rules apply. Minimum trim is 4 inches per scaling segment for east side scaling rules.

Poles produced under this contract will be manufactured to ANSI specifications (American National Standard Specifications and Dimensions for Wood Poles), in force at the time of signing this contract.

- a. Sweep will be limited to within the bole of the log as measured using a tape stretched between the centers of each end of the log.
- b. Logs approved by the state for peelers shall be chuckable with no more than a 2 inch diameter area of rot within a 5 inch diameter circle located at the center of either end of the log.
- c. Limbs and knots shall be cut flush, with no more than 15 percent of a log having limbs or knots over 2 inches in diameter extending more than 2 inches above the surface of the log.
- d. Surface characteristics for a high quality (HQ) "A" log sort will have sound tight knots and not to exceed 1 ½ inch in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots ½ inch and smaller in diameter shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

#### **G-026.2 Log Delivery Destination**

Purchaser shall accept logs delivered to the destination as described in the G-022.2 clause. Purchaser may make a written request to the State for a change in log delivery destination or scaling or weighing location. If agreeable and in the best interest of the State, the State may approve the Purchaser's request. Written approval must be granted by the State prior to log delivery to a new destination or use of a new scaling or weighing facility.

Increased haul distance shall result in an increase in the P-028.2 log delivery payment rate in an amount to be calculated by the State. In no circumstance shall the payment rate for delivered logs be reduced as a result of a state approved delivery destination or scaling or weighing facility change.

Purchaser may refuse loads delivered to the wrong destination.

#### **G-027.2 Log Delivery Schedule and Conditions**

- a. Delivery hours - Purchaser agrees to accept logs from the Contractor at the Purchaser's delivery location during Purchaser's working hours or at least

between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, except legal holidays unless otherwise agreed upon by the State.

- b. Improperly loaded trucks - It is understood and agreed that the Purchaser incurs no obligation to accept improperly or illegally loaded trucks in its facility. Any truck so loaded may be directed to vacate the yard and shall remain the responsibility of the harvesting contractor. The Purchaser shall notify the State within 24 hours of any load (s) rejected and specify the reasons why.
- c. Log Delivery Interruptions - Purchaser may schedule times in which delivery of logs will not be accepted. The Purchaser shall notify the Contract Administrator at least five (5) working days before the scheduled interruption or closure occurs. The duration of the log delivery interruption shall not exceed seven (7) consecutive working days or a total of ten (10) working days over the duration of the contract term. If Purchaser's scheduled delivery interruption exceeds contract requirements and causes the State harm, Purchaser will be in breach of contract and subject to liquidated damages as per the D-026.2 and D-027.2 clauses, unless Purchaser and the State have made a prior agreement in writing to mitigate potential harm to the State.
- d. Required Acceptance of Daily Load Deliveries and Notification - If the State is harmed by purchaser's refusal to accept up to DATA MISSING truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:
  1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or
  2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.
- e. State Notification to Purchaser - The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

**G-030.2 Contract Term and Expiration Date**

Purchaser agrees to accept and pay for forest products delivered through the period ending November 30, 2016.

**G-054.2 Early Contract Termination**

The State may terminate this contract in whole or in part by giving fifteen (15) days written notice to the Purchaser when it is in the best interests of the State. If this contract is so terminated, the State shall be liable only for the return of that portion of the initial deposit that is not required for payment, and the return of unapplied payments. The State shall not be liable for damages, whether direct or consequential.

**G-056.2 Force Majeure**

No Party shall be liable for any failure to perform its obligations, other than payments due, where such failure is as a result of Acts of Nature (including fire, flood, earthquake, storm, or other natural disaster), war, act of foreign enemies, hostilities (whether war is declared or not), terrorist activities, government sanction, fire, labor dispute, strike or lockout.

Any Party asserting Force Majeure as an excuse shall have the burden of proving that reasonable steps were taken (under the circumstances) to minimize delay or damages caused by foreseeable events, that all non-excused obligations were substantially fulfilled, and that the other Party was timely notified of the likelihood or actual occurrence which would justify such an assertion, so that other prudent precautions could be contemplated.

In the event of Force Majeure, the State reserves the right to terminate this agreement in accordance with clause G-054.2 'Early Contract Termination'.

**G-060.2 Exclusion of Warranties**

The PARTIES AGREE that the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and ALL OTHER WARRANTIES EXPRESSED OR IMPLIED ARE EXCLUDED from this transaction and shall not apply to the goods to be harvested or sold. For example, THE FOLLOWING SPECIFIC MATTERS ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. THE VOLUME, WEIGHT, QUANTITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.

d. Items contained in any other documents prepared for or by the State.

**G-065 Regulatory Disclaimer**

The State disclaims any responsibility for, or liability relating to, regulatory actions by any government agency, including actions pursuant to the Forest Practices Act, Ch. 76.09 RCW that may affect the operability of the timber sale.

**G-070.2 Limitation on Damage**

In the event of a breach of any provision of this contract by the State, the liability of the State shall be limited to return of the unused initial deposit and unapplied payments to the Purchaser. The State shall not be liable for any damages, whether direct, incidental, or consequential.

**G-112.2 Title**

The State hereby warrants that State is the owner of said logs and has the right to sell same, free of liens, encumbrances, or claims, but subject to trade restrictions promulgated in WAC 240-15-015. Purchaser assumes title and all risk and responsibility for said logs upon delivery.

**G-116.2 Sustainable Forestry Initiative® (SFI) Certification**

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: BV-SFIS-US09000572.

**G-160.2 Agents**

The State's rights and duties will be exercised by the Region Manager at Colville, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive, modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the logs conveyed beyond the terms of this contract.

The Purchaser agrees to notify the State in writing of their authorized representative at the log delivery destination who will be readily available and who shall be authorized to receive, on behalf of the Purchaser any instructions or notices given by the State in regard to performance under this contract, and any limits to this person's authority.

**G-180 Modifications**

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Purchaser and the State.

**G-190 Contract Complete**

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

**G-200.2 Notice**

Notices required to be given under the following clauses shall be in writing and shall be delivered to the State or Purchaser's authorized agent or sent by certified mail to the Purchaser's post office address, so that their receipt may be acknowledged.

G-026.2 Log Delivery Destination

G-027.2 Log Delivery and Schedule Conditions

G-210.2 Violation of Contract

All other notices required to be given under this contract shall be in writing and delivered to their respective authorized agent or mailed to the Party's post office address. Parties agree to notify the other of any change of mailing address.

**G-210.2 Violation of Contract**

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend delivery of further loads of forest products. If the violation is capable of being remedied, the Purchaser has five (5) days after receipt of suspension notice to remedy the violation. If the violation cannot be remedied (such as violation of WAC 240-15-015) or Purchaser fails to remedy the violation within five (5) days after receipt of a suspension notice, the State may terminate the rights of the Purchaser under this contract and collect damages as described in the damages clause in this contract.
- b. The State has the right to remedy the breach in the absence of any indicated attempt by the Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within thirty (30) days of receipt of billing.
- c. If Purchaser's violation is a result of a failure to make payment to the State when due, in addition to (a.) above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due. The State may secure payments from the security provided.

**G-240.2 Dispute Resolution**

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within five business days.

- c. Within five business days of receipt of the Region Manager's decision, the Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, the Deputy Supervisor - Uplands will hold a conference within 15 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

**G-252.2 Forest Excise Tax**

Purchaser shall be responsible for payment of all forest excise taxes pursuant to chapter 84.33 RCW.

**G-253.2 Harvesting Cost Information**

The State agrees to supply all harvesting cost information to the Purchaser for their consideration in payment of forest excise taxes.

**G-260 Venue**

This contract shall be governed by the laws of the State of Washington. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

**G-330.2 Contract Review**

Purchaser may arrange with the Contract Administrator to review the provisions of this contract prior to the delivery of forest products.

**Section P: Payments and Securities****P-010 Initial Deposit**

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in the 'Payment for Forest Products' clause, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

**P-028.2 Payment for Forest Products Delivered**

Purchaser agrees to pay the State for delivered forest products at the following rate:

DATA MISSING: No Bid Price Set

Purchaser agrees to increase the above delivered payment rate as approved by the State in the event the location of delivery is changed per the G-026.2 clause.

**P-036.2 Missorts and Payment Reduction for Delivered Forest Products**

Forest Products delivered that do not meet the sorting specifications in G-022.2 where species are incorrect, are scaled over 1” outside the listed diameter specifications, or ponderosa pine with blue stain are considered mis-sorts.

However, when mis-sorted Forest Products amount to more than 3% of the total delivered sort volume, Purchaser may request approval for payment reduction for delivered volume exceeding the mis-sort threshold.

Requests for payment reduction must be submitted to the State in writing prior to contract expiration. Eligibility for mis-sort payment reduction is subject to State approval and shall be determined by the State’s delivered product analysis. Forest Products determined by the State eligible for mis-sort price reduction are not eligible for any other price adjustments.

Payment reduction for Forest Products deemed mis-sorted will be calculated as follows:

$$\text{Payment Reduction} = (B \times M) \times R$$

Where:

B = Bid rate from P-028.2 clause

M = Mis-sorted volume exceeding threshold excluding utility

R = Reduction factor

0.3 for mis-sort except for blue stain

0.4 for mis-sort related to blue stain

Third party scaling organization information is required to determine Scribner mbf for payment reduction purposes. Value will be derived from the applicable sort value as described in this contract.

Scale information for determining mis-sort payment reduction eligibility must be obtained from roll-out scale. Truck-ramp and/or bundle scaling information is not acceptable for determining eligibility.

Purchaser’s exclusive remedy for mis-sorts shall be the payment reduction described in this clause, notwithstanding other provisions in the Uniform Commercial Code

**P-037.2 Mismatch and Payment Reduction for Delivered Forest Products**

Forest Products delivered that do not meet preferred log length specifications or multiples or combinations of preferred lengths and Forest Products delivered not meeting minimum log quality specifications as described in the G-024.2 clause are considered mis-manufactured. Purchaser receiving mis-manufactured Forest Products is required to pay the State at the bid price under this contract.

However, when mis-manufactured Forest Products amount to more than 3% of the total delivered sort volume, Purchaser may request approval for payment reduction for delivered volume exceeding the mis-manufacture threshold.

Requests for payment reduction must be submitted to the State in writing prior to contract expiration. Eligibility for mis-manufacture payment reduction is subject to State approval and shall be determined by the State's delivered product analysis. Forest Products determined by the State eligible for mis-manufacture price reductions are not eligible for any other price adjustments.

Payment reduction for Forest Products deemed mis-manufactured will be calculated as follows:

$$\text{Payment Reduction} = (B \times M) \times (0.2)$$

Where:

B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

Third party scaling organization information is required to determine Scribner mbf for payment reduction purposes. Value will be derived from the applicable sort value as described in this contract.

Scale information for determining mis-manufacture payment reduction eligibility must be obtained from roll-out scale. Truck-ramp and/or bundle scaling information is not acceptable for determining eligibility.

Purchaser's exclusive remedy for mis-manufacture shall be the payment reduction described in this clause, notwithstanding other provisions in the Uniform Commercial Code.

### **P-039.2 Tonnage Sort Payment Reduction Requirements**

Purchaser must provide a plan in writing, acceptable to the State, to acquire third party Scribner mbf scaling information in order to be eligible for a payment reduction for a tonnage sort according to clauses P-036.2 or P-037.2. Logs delivered and accepted by the Purchaser prior to the State's acceptance of Purchaser's written payment reduction plan are not eligible for payment reduction.

Failure of Purchaser to provide sample scale data in a timely, accurate and legible basis will void an approved sample scale plan.

An approved payment reduction plan can be voided at the sole discretion of the State.

For the purpose of tonnage sort payment reduction requests, preferred log lengths for tonnage sawlog sorts shall include the following plus any additional lengths identified in clause G-024.2:

Species Type	Preferred Lengths
Conifer Sorts	16', 20', 24', 26', 32', 40'
Hardwood Sorts	18', 20', 26', 28', 30', 36', 38', 40'

#### **P-040.2 Weighing and Scaling Costs**

Purchaser agrees to pay for all weighing costs for logs delivered regardless if logs are purchased on a weight or scale basis. In addition, Purchaser agrees to pay for all scaling costs for logs delivered on a scale basis. Purchaser also agrees to pay for all costs associated with the transmission and reporting of scale or weight data.

#### **P-045.2 Guarantee of Payment**

Prior to the delivery of forest products and at a date determined by the State, Purchaser shall guarantee payment to the State for products delivered by posting with the State an approved payment security. If the Purchaser has purchased more than one sort, the payment securities may be consolidated for all the sorts. Acceptable payment security includes cash, certificate of deposit assignment, payment bond, savings account assignment, or irrevocable bank letter of credit.

The amount of payment security shall be determined by the State. The amount of payment security shall represent at least 30 days value of forest product deliveries. Payment security for products delivered will be used to guarantee payment to the State for late or non-payments.

If at any time the State determines that the security has become unsatisfactory or a demand is made against the payment security, the Purchaser agrees to increase the amount or replace the security with one acceptable to the state within 5 business days. Failure to increase the amount or replace the security is considered a breach of contract.

#### **P-050.2 Billing and Payment Procedure for Forest Products Delivered**

The State will compute and forward to Purchaser a billing statement of charges for forest products delivered during the billing period at the delivered rate shown in P-028.2 clause. After receipt of the billing statement, Purchaser's payment must be received by the Department of Natural Resources on or before the due date shown on the billing statement. Purchaser agrees to make payment, payable to the Department of Natural Resources. Failure to pay on time for forest products delivered is considered a breach of contract.

Included with the billing statement will be a summary report for the billing period compiled by the State or their log and load reporting service.

The State will adjust final billings to account for any State approved payment reductions.

#### **P-080 Payment Account Refund**

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report

of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## **Section L: Log Definitions and Accountability**

### **L-010.2 Forest Products Conveyed**

Forest products conveyed are logs or parts of logs delivered meeting the sorting criteria defined by clauses G-022.2 and G-024.2 of this contract

### **L-014.2 Sorts Delivered to Incorrect Destination**

Purchaser has agreed to purchase the sort as described in the G-022.2 clause. In the event a load from a different sort is delivered to Purchaser, Purchaser may reject the load. If Purchaser receives an incorrectly delivered load, they shall notify the State within 24 hours. If the Purchaser accepts the load, provisions in the P-035.2 or P-036.2 clause may apply.

### **L-071.2 Log and Load Reporting Service**

This contract may at the States discretion, require the services of a State approved third party log and load reporting service. Purchaser shall ensure log volume measurement, weight, or scale and weight data for each load is received by the log and load reporting service within of logs being measured or weighed.

If during the term of this contract, the State discontinues use of the Log and Load Reporting Service, the State will notify the Purchaser in writing, and will approve an alternative log and load reporting process.

### **L-090 Scaling Rules**

Determination of volume of any forest products shall be conducted by a state approved third party scaling organization and in accordance with the Eastside log scaling and grading rules, Region 6 taper rules, and Scribner Volume Table, revised July 1, 1972, contained in the Northwest Log Rules Eastside and Westside Log Scaling Handbook (developed and produced by the Northwest Log Rules Advisory Group) and in effect on the date of confirmation of this contract.

Special scaling specifications shall be noted on the State's Brand Designation form which is hereby incorporated to this contract by reference.

### **L-110 State Approval of Log Scaling and Weighing Locations**

Forest Product measurement and weighing facilities required by this contract must be approved by the State. Forest products sold under the contract which require log scaling shall be scaled, measured, or counted by a State approved third party log scaling organization. Forest products sold under the contract which require weighing shall be weighed at a location that meets Washington State Department of Agriculture approval.

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are

currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

## **Section D: Damages**

### **D-010 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for payments by Purchaser to the State for certain breaches of the terms of this contract. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

#### **D-026.2 Damages for Delivery Interruptions and Load Non-Acceptance**

- a. Purchaser's failure to accept delivery of forest products due to an extended delivery interruption exceeding the limits as described in the G-027.2 (c) clause, results in substantial injury to the State. The Purchaser shall pay the State liquidated damages at a rate of \$1,000.00 per each day of breach, until breach is remedied.
- b. Unless Purchaser and the State have made a prior agreement in writing, Purchaser's failure to accept at least the number of delivered loads as described in the G-027.2 (d) clause, results in substantial injury to the State. The Purchaser shall pay the State liquidated damages at a rate of \$200 per each truck delivery not accepted, until breach is remedied.

#### **D-027.2 Failure to Accept Forest Products Sold**

Purchaser's failure to accept all or part of the forest products sold in this agreement prior to expiration or completion of the contract results in substantial injury to the State. Except for reasons other than 'Force Majeure' (G-056.2), either section a. or b. below will apply as determined by the State.

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to

assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

$$LD = (.35V - I) + C + A - P$$

Where:

- LD = Liquidated Damages  
 V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort.  
 I = Initial Deposit  
 C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.  
 A = Administrative fee = \$2,500.00  
 P = Advance payments received exceeding the value of logs delivered under this contract.

The above formula reflects the Purchaser's forfeiture of the initial deposit in accordance with clause P-010 by deducting the initial deposit from the amount owed. In no event shall the liquidated damages be less than zero. Interest on the liquidated damage is owed from the date of the work stoppage until final payment, calculated using the following formula:

$$\text{Interest} = r \times LD \times N$$

Where:

r = daily equivalent of an annual interest at current interest rate as established by WAC 332-100-030.

N = Number of days from work stoppage to time of payment

### **D-030.2 Inadequate Log Accountability**

Failure to provide weighing and third party scaling information result in substantial injury to the State. The potential loss of accountability is not readily ascertainable. These contractual breaches result in an increase in the potential for the delivery of forest products for which the State receives inadequate payment and causes an increase in the State's administration costs associated with this contract. The actual costs of these breaches are difficult to assess.

For these reasons, Purchaser's payments for forest product delivery under this contract will be increased in the following amounts, as liquidated damages, to compensate the State for these breaches: \$250.00 each time a load weight is not provided as required by the contract, and \$250.00 each time load scale data is not determined and provided by a State approved third party scaling organization in accordance with this contract.

IN WITNESS WHEREOF, the Parties hereto have entered into this contract.

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

\_\_\_\_\_  
Purchaser

\_\_\_\_\_  
Loren D. Torgerson  
Northeast Region Manager

Date: \_\_\_\_\_  
Address: \_\_\_\_\_

Date: \_\_\_\_\_

CORPORATE ACKNOWLEDGEMENT

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared \_\_\_\_\_

\_\_\_\_\_ to me known to be the \_\_\_\_\_ of the corporation that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that (he/she was) (they were) authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

\_\_\_\_\_  
Notary Public in and for the State of

\_\_\_\_\_  
My appointment expires \_\_\_\_\_

## PRE-CRUISE NARRATIVE

Sale Name: <b>Alec Fire Salvage FIT</b>	Region: <b>Northeast</b>
Agreement #: <b>30-093249</b>	District: Highlands
Contact Forester: Andy Townsend Phone / Location: 509-223-4044/Log Cabin	County(s): Okanogan, Choose a county
Alternate Contact: Matt Smith Phone / Location: <b>509-223-4044/Log Cabin</b>	Other information: <a href="#">Click here to enter text.</a>

Type of Sale: Log Sort (Contract harvest)	
Harvest System: Ground based <a href="#">Click here to enter text.</a>	100%

### UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #  Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) <b>Sec/Twp/Rng</b>	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination  (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	Sec.36/T39/R34	03	12	0	0	0	0	12	GPS (Garmin)
2	Sec.36/T39/R34	03	48	0	0	1	0	47	GPS (Garmin)
3	Sec.36/T39/R34	03	38	0	0	0	0	38	GPS (Garmin)
4	Sec.36/T39/R34	03	103	0	9	1	0	93	GPS (Garmin)
5	Sec.36/T39/R34	03	29	0	1	1	0	27	GPS (Garmin)
6	Sec.36/T39/R34	03	51	0	0	3	0	48	GPS (Garmin)
7	Sec.36/T39/R34	03	156	0	0	1	0	155	GPS (Garmin)
8	Sec.36/T39/R34	03	51	0	0	1	0	50	GPS (Garmin)
9	Sec.36/T39/R34	03	132	0	0	4	0	128	GPS (Garmin)
10	Sec.36/T39/R34	03	233	0	5	6	0	222	GPS (Garmin)
11	Sec.36/T39/R34	03	51	0	0	2	0	49	GPS (Garmin)
<b>TOTAL ACRES</b>			904	0	15	20	0	869	

**HARVEST PLAN AND SPECIAL CONDITIONS:**

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
2	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
3	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
4	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
5	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
6	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.

	A in the harvest contract. Leave six of the largest trees per acre.		
7	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
8	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
9	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
10	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.
11	Boundaries marked with blue "Special Management Area" tags, orange flashers & pink flagging. This sale will be cut by prescription. There will be no painted trees within the sale area. See schedule A in the harvest contract. Leave six of the largest trees per acre.	None	Minimum of 6 leave trees will be left per acre. This sale will comply with PR 14-006-091.

**OTHER PRE-CRUISE INFORMATION:**

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF, WL / 50	Access from E393435K	Region provided maps

2	DF, WL / 132	Access from E393435E	Region provided maps
3	DF, WL / 257	Access from E393435H	Region provided maps
4	DF, WL / 716	Access from E393427J	Region provided maps
5	DF, WL / 223	Access from E393427J	Region provided maps
6	DF, WL / 173	Access from E393424E	Region provided maps
7	DF, WL / 1,337	Access from E393421A	Region provided maps
8	DF, WL / 488	Access from E393436E	Region provided maps
9	DF, WL / 582	Access from E393424E	Region provided maps
10	DF, WL / 1,321	Access from E393424H	Region provided maps
11	DF, WL / 326	Access from E393413E	Region provided maps
TOTAL MBF	5,605		

**REMARKS:**

All volume for this sale is salvage. Ponderosa Pine with 30% live crown or greater and all other conifer species with 50% live crown or greater will not be harvested.

Prepared By: Andy Townsend Date: 10/27/2015	Title: Highlands	CC:
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## Cruise Narrative

<b>Sale Name:</b> Alec Fire Salvage FIT	<b>Region:</b> Northeast
<b>Agreement Number:</b> 30-093249	<b>District:</b> Highlands
<b>Lead Cruiser:</b> Dan Griggs	<b>Completion Date:</b> 11/23/2015
<b>Other Cruisers on sale:</b> Jim Putnam, Matt Stonich	<b>Legal:</b> Sections 24, 25, 26, 27, 34, 35 and 36, T39N, R34E WM.

Unit Acreage Specifications:							
Unit #	Gross Acres	Net Acres	Total Deletions	Existing Roads	Leave Tree Acres	Power Line	Other
1	11.88	11.88	0.00	0.00	0.00	0.00	0.00
2	47.87	46.87	1.00	1.00	0.00	0.00	0.00
3	38.32	38.32	0.00	0.00	0.00	0.00	0.00
4	102.83	92.83	10.00	1.00	9.00	0.00	0.00
5	28.69	26.69	2.00	1.00	1.00	0.00	0.00
6	51.65	48.65	3.00	3.00	0.00	0.00	0.00
7	156.36	155.36	1.00	1.00	0.00	0.00	0.00
8	52.78	51.78	1.00	1.00	0.00	0.00	0.00
9	131.67	127.67	4.00	4.00	0.00	0.00	0.00
10	234.83	223.83	11.00	6.00	5.00	0.00	0.00
11	51.16	49.16	2.00	2.00	0.00	0.00	0.00
<b>Total</b>	<b>908.04</b>	<b>873.04</b>	<b>35.00</b>	<b>20.00</b>	<b>15.00</b>	<b>0.00</b>	<b>0.00</b>

### Cruise Sample Design:

This timber sale was cruised using the **variable plot** sampling method. The double basal area system was employed; a small BAF to determine Basal Area (count trees) and a large BAF to determine the Volume-Basal Area Ratio (cruise trees). Each plot was a full plot. Plot locations were created using a computer generated grid, and found using a hand held GPS unit.

Unit #	Small BAF (count)	Large BAF (cruise)	Sighting height	Grid size (plot spacing in feet)	% Cruise to count Target	% Cruise to count Actual	Total number of Plots
1	33.61	33.61	D4H	430 x 430	100%	100%	3
2	33.61	62.50	D4H	430 x 430	53.8%	81.3%	12
3	27.78	27.78	D4H	430 x 430	100%	100%	10
4	33.61	134.44	D4H	430 x 430	25%	21.9%	23
5	33.61	33.61	D4H	430 x 430	100%	100%	6
6	27.78	54.45	D4H	430 x 430	51%	54.5%	12
7	33.61	134.44	D4H	430 x 430	25%	15.5%	38
8	27.78	54.45	D4H	430 x 430	51%	50%	14
9	33.61	134.44	D4H	430 x 430	25%	13.6%	35
10	33.61	111.11	D4H	430 x 430	30%	21%	52
11	33.61	62.50	D4H	430 x 430	53.8%	57.1%	12
Total						31.5%	217

### Cruise Specifications:

Minor species cruise intensity:	We grade the first tree of all minor species encountered with the smaller BAF; then followed through with the small BAF to large BAF ratio.
Minimum top dib:	<b>.All species:</b> Trees less than 17.5" DBH have a minimum top of 5.6" dib. Trees 17.6" and greater DBH have a minimum top dib of 40% of DOB at 16' or a 6" top whichever is greater.
Minimum dbh:	Ponderosa pine: 8.0 inches DBH All other species: 7.0 inches DBH
Log lengths:	Saw logs: 32 feet where possible, minimum of 12 feet
Take / Leave tree description:	Harvest all fire damaged Ponderosa Pine with less than 30% live crown and all other species with less than 50% live crown remaining that meet the minimum cruise specifications. Leave 6 trees per acre among the largest trees. See Schedule "A" for unit spacing requirements.
Commercial species observed in sale area, but not in cruise:	Lodgepole pine and engelmann spruce
Utility wood:	None
Status codes used:	None
Sort codes used	D – saw log
Species table used:	NE 2 inch
Grade table used:	Eastgrad
Other tables used (cruise adjustment):	Cruise Adjustment table - Alec
Volume reductions	The sales volume was reduced by 16% to account for leave trees, hidden cull and further wood degradation. Volume reduction by species: Western larch – 15%                      Lodgepole pine – 25% Douglas-fir – 15%                         Engelmann spruce – 25%

**Field Observations:**

Location:	This sale is 33 miles northwest of Kettle Falls, WA in northern Ferry County.
Aspect:	North, East, South and West
Elevation:	3600-5040 ft.
Slope:	Unit 1 – 0% to 30%, Average 15% Unit 2 – 0% to 35%, Average 25% Unit 3 – 0% to 30%, Average 25% Unit 4 – 0% to 55%, Average 30% Unit 5 – 15% to 55%, Average 35% Unit 6 – 0% to 35%, Average 20% Unit 7 – 0% to 35%, Average 25% Unit 8 – 10% to 50%, Average 35% Unit 9 – 0% to 45%, Average 30% Unit 10 – 5% to 55%, Average 30% Unit 11 – 0% to 35%, Average 25%
Harvest Methods:	100% Ground base yarding with the longest skidding of 3000 feet.
Stand Composition:	The stands are fire killed, second growth Douglas-fir, western larch and lodgepole pine with larger residual trees. There is a minor component of engelmann spruce and sub-alpine fir.
Stand Health:	The trees in this sale have been killed by the Stickpin Fire which burned in mid-August. Bark beetles are active and the woodpeckers are working on those trees.
Timber Quality:	This sale is a mix of poor quality western larch (50%), Douglas-fir (40%), lodgepole pine (5%), engelmann spruce (4%) and sub-alpine fir(1%).
Non-board Foot Volume:	None
Other Considerations:	This sale will be sold on the tons of logs removed from the sale area. The fire burnt hot through these stands of timber. The small diameter lodgepole pine and engelmann spruce had some of their bark burnt off exposing the wood and degrading the wood fiber.

**Trust and Counties:**

Trust 03                      100% Ferry County

**Prepared by:** Jim Putnam**Title:** Timber Cruiser and Small Sales Forester**CC:** Timber Sales Document Center & File # 30-093249

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
T39N R34E S24 Ty0U11 THRU T39N R34E S36 Ty0U8				Project: <b>ALECFS2</b>				Page <b>1</b>				Date <b>12/9/2015</b>									
				Acres <b>873.04</b>				Time <b>11:47:48AM</b>													
Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99					
WL	D	2		5	19.8	171	137	120			70	30	5	95	31	15	247	2.22	.6		
WL	D	3		64	17.0	1,975	1,640	1,432			97	3	0	100	32	7	58	0.49	28.3		
WL	D	4		31	20.8	988	782	683			99	1	41	59	21	6	22	0.29	35.3		
<b>WL Totals</b>				50	18.3	3,134	2,560	2,235			93	5	2	13	87	26	7	40	0.42	64.1	
LP	D	3		41	31.0	152	105	91			100			100	31	7	51	0.40	2.1		
LP	D	4		59	25.0	195	146	128			100			93	16	6	14	0.20	10.6		
<b>LP Totals</b>				5	27.6	347	251	219			100			54	46	18	6	20	0.26	12.7	
DF	D	2		22	23.8	618	471	411				94	6	100	32	15	238	2.06	2.0		
DF	D	3		56	18.1	1,406	1,152	1,006			98	2		100	32	9	92	0.84	12.5		
DF	D	4		22	27.5	617	447	391			100			64	17	6	18	0.36	25.2		
<b>DF Totals</b>				40	21.6	2,641	2,070	1,807			76	22	1	14	86	23	7	52	0.70	39.7	
ES	D	3		78	25.9	204	151	132			100			100	32	8	65	0.38	2.3		
ES	D	4		22	25.0	55	41	36			100			74	17	6	18	0.21	2.3		
<b>ES Totals</b>				4	25.7	259	192	168			100			16	84	25	7	41	0.32	4.7	
AF	D	2		32	20.6	17	14	12				100		100	32	21	540	3.66	.0		
AF	D	3		56	45.2	43	24	21			100			100	32	8	56	0.53	.4		
AF	D	4		12	46.0	9	5	4			100			100	16	6	11	0.22	.4		
<b>AF Totals</b>				1	39.2	69	42	37			68		32	12	88	24	7	48	0.55	.9	
<b>Totals</b>					20.7	6,450	5,115	4,466			86	12	2	15	85	24	7	42	0.49	122.1	

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT ALECFS2							DATE	12/9/2015	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	24	ALEC FIRE	0U11	THR	873.04	217	406	S	E	
39N	34E	36	ALEC FIRE	00U8							
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			217	406	1.9						
CRUISE			86	126	1.5	80,340	.2				
DBH COUNT											
REFOREST											
COUNT			84	183	2.2						
BLANKS			47								
100 %											
STAND SUMMARY											
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
W LARCH		72	48.0	10.5	73	8.9	29.0	3,134	2,560	702	699
DOUG FIR		39	29.5	12.7	57	7.3	26.0	2,641	2,070	641	627
LP PINE		7	11.5	8.4	67	1.5	4.4	347	251	81	59
ALP FIR		5	.7	13.0	57	0.2	.6	69	42	16	12
E SPRUCE		3	2.3	11.0	86	0.5	1.5	259	192	49	37
<b>TOTAL</b>		<i>126</i>	<i>92.0</i>	<i>11.1</i>	<i>67</i>	<i>18.5</i>	<i>61.5</i>	<i>6,450</i>	<i>5,115</i>	<i>1,488</i>	<i>1,434</i>
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH		121.2	14.4	110	128	147					
DOUG FIR		119.9	19.5	101	125	150					
LP PINE		86.8	35.4	17	27	36					
ALP FIR		180.7	89.9	18	180	342					
E SPRUCE		44.6	30.9	73	105	137					
<b>TOTAL</b>		<i>127.7</i>	<i>11.5</i>	<i>109</i>	<i>123</i>	<i>137</i>	<i>652</i>	<i>333</i>	<i>163</i>		
CL	68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH		123.6	8.4	44	48	52					
DOUG FIR		163.5	11.1	26	30	33					
LP PINE		294.0	20.0	9	11	14					
ALP FIR		1116.4	75.8	0	1	1					
E SPRUCE		638.3	43.3	1	2	3					
<b>TOTAL</b>		<i>75.6</i>	<i>5.1</i>	<i>87</i>	<i>92</i>	<i>97</i>	<i>229</i>	<i>117</i>	<i>57</i>		
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH		111.1	7.5	27	29	31					
DOUG FIR		171.3	11.6	23	26	29					
LP PINE		299.1	20.3	3	4	5					
ALP FIR		1213.4	82.4	0	1	1					
E SPRUCE		590.7	40.1	1	2	2					
<b>TOTAL</b>		<i>76.6</i>	<i>5.2</i>	<i>58</i>	<i>62</i>	<i>65</i>	<i>235</i>	<i>120</i>	<i>59</i>		
CL	68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH		112.1	7.6	2,365	2,560	2,755					
DOUG FIR		218.5	14.8	1,763	2,070	2,377					
LP PINE		340.8	23.1	193	251	309					
ALP FIR		1172.4	79.6	9	42	76					
E SPRUCE		597.2	40.5	114	192	270					
<b>TOTAL</b>		<i>95.7</i>	<i>6.5</i>	<i>4,783</i>	<i>5,115</i>	<i>5,447</i>	<i>367</i>	<i>187</i>	<i>92</i>		

**PROJECT STATISTICS**  
**PROJECT ALECFS2**

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
39N	34E	24	ALEC FIRE	0U11	THR	873.04	217	406	S	E
39N	34E	36	ALEC FIRE	00U8						

CL	68.1	COEFF	V BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
W LARCH				81	88	95			
DOUG FIR				68	80	92			
LP PINE		119.7	8.1	44	57	71			
ALP FIR		1172.4	79.6	14	69	124			
E SPRUCE		213.0	14.5	75	125	176			
<b>TOTAL</b>		<b>94.3</b>	<b>6.4</b>	<b>78</b>	<b>83</b>	<b>89</b>	<b>356</b>	<b>182</b>	<b>89</b>

<b>T39N R34E S36 T00U1</b>										<b>T39N R34E S36 T00U1</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>36</b>	<b>ALEC FIRE</b>	<b>00U1</b>	<b>11.88</b>	<b>3</b>	<b>2</b>	<b>S</b>	<b>E</b>					

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre					
								Net BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/Lf	
													4-5	6-11	12-16	17+	12-20	21-32	33-55						56-99
LP	D	4	100	25.0	963	722	9	100				100				24	6	22	0.20	32.1					
<b>LP</b>	<b>Totals</b>		52	25.0	963	722	9	100				100				24	6	22	0.20	32.1					
DF	D	4	100	15.0	796	676	8	100				100				24	6	26	0.32	26.5					
<b>DF</b>	<b>Totals</b>		48	15.0	796	676	8	100				100				24	6	26	0.32	26.5					
<b>Type Totals</b>				20.5	1,759	1,399	17	100				100				24	6	24	0.26	58.6					

<b>T39N R34E S36 T00U2</b>										<b>T39N R34E S36 T00U2</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>36</b>	<b>ALEC FIRE</b>	<b>00U2</b>	<b>46.87</b>	<b>12</b>	<b>13</b>	<b>S</b>	<b>E</b>					

Spp	Sp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs						
									Net	BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
															4-5	6-11	12-16	17+	12-20	21-32		33-55					56-99
WL		D	2	35	16.6	1,541	1,286	60			63	37		100				32	16	301	2.65	4.3					
WL		D	3	52	15.6	2,221	1,875	88		93	7			1	99			32	8	67	0.57	27.8					
WL		D	4	13	47.7	837	438	21		63		37		33	67			20	7	29	0.65	15.1					
<b>WL</b>	<b>Totals</b>			79	21.8	4,599	3,599	169		56	26	18		4	96			28	8	76	0.80	47.2					
DF		D	2	45	15.0	512	436	20			100			100				32	12	162	1.18	2.7					
DF		D	3	48	20.4	572	455	21		100				100				32	8	72	0.73	6.4					
DF		D	4	7	15.0	73	62	3		100			100					20	6	17	0.27	3.7					
<b>DF</b>	<b>Totals</b>			21	17.7	1,158	953	45		54	46			7	93			29	8	75	0.74	12.7					
<b>Type Totals</b>					20.9	5,757	4,552	213		56	30	14		5	95			28	8	76	0.79	60.0					

<b>T39N R34E S36 T00U3</b>										<b>T39N R34E S36 T00U3</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>36</b>	<b>ALEC FIRE</b>	<b>00U3</b>	<b>38.32</b>	<b>10</b>	<b>15</b>	<b>S</b>	<b>E</b>					

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99					
WL	D	2		54	27.6	1,240	897	34			62	38	17	83			29	15	208	1.86	4.3
WL	D	3		30	42.5	852	490	19		100				100			32	8	52	0.36	9.5
WL	D	4		16	15.0	290	246	9		100			78	22			20	6	19	0.30	13.0
<b>WL</b>	<b>Totals</b>			44	31.4	2,381	1,633	63		45	34	21	21	79			26	8	61	0.61	26.8
AF	D	2		32	20.6	393	312	12			100			100			32	21	540	3.66	.6
AF	D	3		56	45.2	981	537	21		100				100			32	8	56	0.53	9.5
AF	D	4		12	46.0	209	113	4		100			100				16	6	11	0.22	10.0
<b>AF</b>	<b>Totals</b>			26	39.2	1,582	962	37		68	32		12	88			24	7	48	0.55	20.1
DF	D	2		20	15.0	264	225	9			100			100			32	13	204	1.90	1.1
DF	D	3		72	21.6	983	771	30		100				100			32	8	78	0.64	9.9
DF	D	4		8	15.0	102	87	3		100			100				18	6	17	0.35	5.1
<b>DF</b>	<b>Totals</b>			29	19.8	1,349	1,083	41		79	21		8	92			27	8	67	0.68	16.1
<b>Type Totals</b>					30.8	5,313	3,678	141		61	21	18	15	85			26	8	58	0.61	62.9

<b>T39N R34E S35 T00U4</b>										<b>T39N R34E S35 T00U4</b>			
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>				
<b>39N</b>	<b>34E</b>	<b>35</b>	<b>ALEC FIRE</b>	<b>00U4</b>	<b>92.83</b>	<b>23</b>	<b>9</b>	<b>S</b>	<b>E</b>				

Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs						
									Net	BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
															4-5	6-11	12-16	17+	12-20	21-32		33-55					56-99
WL	D		3	59	15.0	2,162	1,837	171	100				100				32	7	50	0.39	37.0						
WL	D		4	41	15.0	1,460	1,241	115	100				43 57				22	6	26	0.26	48.1						
<b>WL</b>	<b>Totals</b>			81	15.0	3,622	3,079	286	100				17 83				26	6	36	0.33	85.1						
DF	D		4	100	15.0	352	299	28	100				100				12	6	9	0.23	35.2						
<b>DF</b>	<b>Totals</b>			8	15.0	352	299	28	100				100				12	6	9	0.23	35.2						
LP	D		3	68	25.0	398	299	28	100				100				30	6	38	0.20	8.0						
LP	D		4	32	25.0	181	136	13	100				100				16	6	15	0.20	9.0						
<b>LP</b>	<b>Totals</b>			11	25.0	579	434	40	100				31 69				23	6	26	0.20	17.0						
<b>Type Totals</b>					16.3	4,553	3,812	354	100				25 75				22	6	28	0.30	137.3						

<b>T39N R34E S26 T00U5</b>										<b>T39N R34E S26 T00U5</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>26</b>	<b>ALEC FIRE</b>	<b>00U5</b>	<b>26.69</b>	<b>6</b>	<b>10</b>	<b>S</b>	<b>E</b>					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/Lf	
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99					
WL	D	3	85	16.3	5,063	4,238	113	100				100				32	8	70	0.61	60.7
WL	D	4	15	15.0	850	723	19	100				74	26			17	6	20	0.29	35.9
<b>WL</b>	<b>Totals</b>		87	16.1	5,913	4,961	132	100				11	89			27	7	51	0.53	96.6
DF	D	3	54	15.0	483	411	11	100				100				32	7	59	0.59	6.9
DF	D	4	46	15.0	411	349	9	100				100				28	6	34	0.43	10.3
<b>DF</b>	<b>Totals</b>		13	15.0	894	760	20	100				100				30	6	44	0.50	17.2
<b>Type Totals</b>				16.0	6,807	5,721	153	100				9	91			27	7	50	0.53	113.8

<b>T39N R34E S35 T00U6</b>		<b>T39N R34E S35 T00U6</b>
<b>Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt</b>		<b>BdFt</b>
<b>39N 34E 35 ALEC FIRE 00U6 48.65 12 6 S</b>		<b>E</b>

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre		
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf			
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99							
WL	D	3	66	15.0	1,822	1,549	75	71	29					100				32	11	129	1.16	12.0
WL	D	4	34	15.0	933	793	39	100						35	65			19	6	28	0.35	28.4
<b>WL</b>	<b>Totals</b>		81	15.0	2,755	2,342	114	81	19					12	88			23	8	58	0.68	40.4
DF	D	3	82	15.0	516	438	21	100						100				32	10	119	1.16	3.7
DF	D	4	18	15.0	110	94	5	100						100				16	7	25	0.41	3.7
<b>DF</b>	<b>Totals</b>		19	15.0	626	532	26	100						18	82			24	9	72	0.91	7.4
<b>Type Totals</b>				15.0	3,381	2,874	140	84	16					13	87			23	8	60	0.72	47.8

<b>T39N R34E S36 T00U7</b>										<b>T39N R34E S36 T00U7</b>			
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>				
<b>39N</b>	<b>34E</b>	<b>36</b>	<b>ALEC FIRE</b>	<b>00U7</b>	<b>155.36</b>	<b>38</b>	<b>16</b>	<b>S</b>	<b>E</b>				

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99					
WL		D	3	63	16.7	2,723	2,269	353	100				100				32	8	62	0.53	36.4
WL		D	4	37	26.5	1,811	1,331	207	100				28 72				22	6	20	0.30	66.0
<b>WL</b>	<b>Totals</b>			41	20.6	4,534	3,601	559	100				10 90				26	7	35	0.40	102.4
DF		D	2	39	23.0	2,468	1,901	295	100				100				32	15	247	2.06	7.7
DF		D	3	54	15.0	2,991	2,542	395	100				100				32	9	96	0.78	26.5
DF		D	4	7	15.0	376	319	50	100				100				16	6	17	0.32	18.8
<b>DF</b>	<b>Totals</b>			54	18.4	5,835	4,763	740	60 40				7 93				26	9	90	0.91	53.0
LP		D	3	80	33.3	614	410	64	100				100				32	8	60	0.53	6.8
LP		D	4	20	25.0	137	102	16	100				100				16	6	15	0.20	6.8
<b>LP</b>	<b>Totals</b>			6	31.8	751	512	80	100				20 80				24	7	37	0.42	13.7
<b>Type Totals</b>					20.2	11,120	8,876	1,379	79 21				9 91				26	7	53	0.57	169.0

<b>T39N R34E S36 T00U8</b>										<b>T39N R34E S36 T00U8</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>36</b>	<b>ALEC FIRE</b>	<b>00U8</b>	<b>51.78</b>	<b>14</b>	<b>17</b>	<b>S</b>	<b>E</b>					

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99						
DF	D	2		45	28.8	2,353	1,674	87		74	26			100				32	15	242	2.38	6.9
DF	D	3		31	20.7	1,433	1,136	59		74	26			100				32	8	79	0.80	14.4
DF	D	4		24	23.8	1,145	873	45	100					65	35			18	6	21	0.36	42.4
<b>DF</b>	<b>Totals</b>			72	25.3	4,931	3,683	191		47	42	12		15	85			23	8	58	0.81	63.7
WL	D	2		38	15.0	575	489	25		100				100				32	14	209	1.98	2.3
WL	D	3		41	22.9	660	509	26		64	36			100				32	7	61	0.60	8.3
WL	D	4		21	38.1	426	263	14	100					100				29	7	37	0.45	7.2
<b>WL</b>	<b>Totals</b>			25	24.0	1,662	1,262	65		47	53			100				31	8	71	0.73	17.8
ES	D	3		75	38.6	230	141	7	100					100				32	9	68	0.57	2.1
ES	D	4		25	25.0	63	47	2	100					100				16	7	23	0.27	2.1
<b>ES</b>	<b>Totals</b>			4	35.7	292	188	10	100					25	75			24	8	45	0.47	4.2
<b>Type Totals</b>					25.4	6,885	5,133	266		49	43	9		12	88			25	8	60	0.77	85.7

<b>T39N R34E S25 T00U9</b>										<b>T39N R34E S25 T00U9</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>25</b>	<b>ALEC FIRE</b>	<b>00U9</b>	<b>127.67</b>	<b>35</b>	<b>10</b>	<b>S</b>	<b>E</b>					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99					
WL	D	3	78	15.0	2,186	1,858	237	100				100				32	7	47	0.38	39.7
WL	D	4	22	15.0	583	496	63	100				17	83			19	6	19	0.31	26.1
<b>WL</b>	<b>Totals</b>		63	15.0	2,769	2,354	301	100				4	96			27	6	36	0.36	65.8
DF	D	3	37	33.9	506	335	43	100				100				32	8	59	0.87	5.6
DF	D	4	63	50.2	1,124	559	71	100				45	55			18	6	13	0.29	42.7
<b>DF</b>	<b>Totals</b>		24	45.2	1,630	894	114	100				28	72			20	6	19	0.40	48.3
LP	D	4	100	25.0	148	111	14	100				100				12	6	8	0.24	14.8
<b>LP</b>	<b>Totals</b>		3	25.0	148	111	14	100				100				12	6	8	0.24	14.8
ES	D	3	80	25.0	410	307	39	100				100				32	11	128	0.71	2.4
ES	D	4	20	25.0	96	72	9	100				100				24	6	30	0.32	2.4
<b>ES</b>	<b>Totals</b>		10	25.0	506	380	48	100				100				28	9	79	0.54	4.8
<b>Type Totals</b>				26.0	5,054	3,739	477	100				12	88			23	6	28	0.37	133.8

<b>T39N R34E S25 T0U10</b>										<b>T39N R34E S25 T0U10</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>39N</b>	<b>34E</b>	<b>25</b>	<b>ALEC FIRE</b>	<b>0U10</b>	<b>223.83</b>	<b>52</b>	<b>19</b>	<b>S</b>	<b>E</b>					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99					
DF	D	3	71	18.3	2,330	1,902	426	100				100				32	9	98	0.93	19.4
DF	D	4	29	20.6	948	753	169	100				59	41			18	6	24	0.48	31.4
<b>DF</b>	<b>Totals</b>		53	19.0	3,278	2,655	594	100				17	83			24	7	52	0.71	50.8
WL	D	3	69	18.3	1,353	1,106	247	100				100				32	7	54	0.48	20.5
WL	D	4	31	15.0	560	476	107	100				77	23			19	6	20	0.26	24.1
<b>WL</b>	<b>Totals</b>		32	17.3	1,913	1,582	354	100				23	77			25	7	35	0.39	44.6
LP	D	4	100	25.0	337	253	57	100				100				16	6	15	0.19	16.9
<b>LP</b>	<b>Totals</b>		5	25.0	337	253	57	100				100				16	6	15	0.19	16.9
ES	D	3	77	25.0	508	381	85	100				100				32	7	53	0.30	7.3
ES	D	4	23	25.0	145	109	24	100				100				16	6	15	0.17	7.3
<b>ES</b>	<b>Totals</b>		10	25.0	653	490	110	100				22	78			24	7	34	0.26	14.5
<b>Type</b>	<b>Totals</b>			19.4	6,180	4,979	1,115	100				23	77			23	7	39	0.49	126.8

<b>T39N R34E S24 T0U11</b>		<b>T39N R34E S24 T0U11</b>
<b>Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt</b>		<b>BdFt</b>
<b>39N 34E 24 ALEC FIRE 0U11 49.16 12 9 S E</b>		

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre					
								Net BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/Lf	
													4-5	6-11	12-16	17+	12-20	21-32	33-55						56-99
WL	D	3	53	17.2	2,529	2,093	103	100				100				31	8	62	0.51	34.0					
WL	D	4	47	15.0	2,137	1,816	89	100				42 58				21	6	26	0.26	69.6					
<b>WL</b>	<b>Totals</b>		91	16.2	4,666	3,909	192	100				20 80				24	7	38	0.36	103.6					
LP	D	4	100	25.0	533	400	20	100				100				16	6	15	0.20	26.7					
<b>LP</b>	<b>Totals</b>		9	25.0	533	400	20	100				100				16	6	15	0.20	26.7					
<b>Type Totals</b>				17.1	5,199	4,309	212	100				27 73				23	6	33	0.34	130.3					

**Species Summary - Trees, Logs, Tons, CCF, MBF**

T39N R34E S24 Ty0U11	49.1
T39N R34E S25 Ty00U9	127.6
T39N R34E S36 Ty00U	51.7

**Project ALECFS2**  
**Acres 873.04**

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Species	Total	Total	Total	Net Cubic Ft/		CF/ LF	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log		Gross	Net	Gross	Net
W LARCH	41,931	56,822	14,711	14.55	10.74	0.42	6,130	6,101	2,736	2,235
DOUG FIR	25,788	34,679	15,940	21.24	15.80	0.69	5,593	5,478	2,306	1,807
LP PINE	10,000	11,061	1,688	5.17	4.68	0.26	703	517	303	219
E SPRUCE	2,040	4,080	1,113	15.75	7.87	0.32	428	321	226	168
ALP FIR	581	769	343	17.32	13.09	0.55	137	101	61	37
<b>Totals</b>	<b>80,340</b>	<b>107,410</b>	<b>33,795</b>	<b>15.58</b>	<b>11.65</b>	<b>0.49</b>	<b>12,991</b>	<b>12,518</b>	<b>5,631</b>	<b>4,466</b>

Wood Type Species	Total	Total	Total	Net Cubic Ft/		CF/ LF	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log		Gross	Net	Gross	Net
C	80,340	107,410	33,795	15.58	11.65	0.49	12,991	12,518	5,631	4,466
<b>Totals</b>	<b>80,340</b>	<b>107,410</b>	<b>33,795</b>	<b>15.58</b>	<b>11.65</b>	<b>0.49</b>	<b>12,991</b>	<b>12,518</b>	<b>5,631</b>	<b>4,466</b>



**Log Stock Table - MBF**

T39N R34E S24 Ty0U11  
THRU  
T39N R34E S36 Ty0U8

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**Acres 873.04**

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Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-4	5-6	7-10	11-12	13-14	15-16	17-18	19-20	21-23	24-29	30-39	40+	
DF		Totals			2,306	21.6	1,807	40.5		323	966	112	24	359		23					
ES		D	3	32	178	25.9	132	78.5			93	39									
ES		D	4	16	36	25.0	27	16.0		24	2										
ES		D	4	24	12	25.0	9	5.5		9											
ES		Totals			226	25.7	168	3.8		34	95	39									
AF		D	2	32	15	20.6	12	32.4									12				
AF		D	3	32	38	45.2	21	55.9			21										
AF		D	4	12	1	100.0															
AF		D	4	14	4		4	11.7		4											
AF		D	4	26	3	100.0															
AF		Totals			61	39.2	37	.8		4	21						12				
Total		All Species			5,631	20.7	4,466	100.0		1473	2190	263	70	392		21	33	25			



**Project Log Stock Table - TONS(SED)**

T39N R34E S24 Ty0U11  
THRU  
T39N R34E S36 Ty0U8

**Project: ALECFS2**  
**Acres 873.04**

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Spp	S T	So rt	Gr de	Log Len	SED	TONS	Tons by Scaling Diameter in Inches										
							2-4	5-6	7-10	11-12	13-14	15-16	17-18	19-20	21-23	24-29	30-39
DF		D	4	28	6.0	232		232									
DF		D	4	32	6.3	1,041		515	526								
Graded						15940		3283	8800	680	229	2790		158			
DF		Totals			7.2	15,940		3283	8800	680	229	2790		158			
ES		D	3	32	8.2	859			617	242							
ES		D	4	16	6.2	173		157	16								
ES		D	4	24	6.0	82		82									
Graded						1113		239	633	242							
ES		Totals			7.2	1,113		239	633	242							
AF		D	2	32	21.0	65								65			
AF		D	3	32	8.2	219			154	66							
AF		D	4	12	6.0	8		8									
AF		D	4	14	6.0	32		32									
AF		D	4	26	6.0	19		19									
Graded						343		59	154	66				65			
AF		Totals			7.5	343		59	154	66				65			
Total		All Species				33,795		10922	16999	1769	490	3028	185	248	154		

TC TSTATS				STATISTICS				PAGE	1	
PROJECT				ALECFS2				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	36	ALEC FIRE	00U1	11.88	3	2	S	E	
				TREES	ESTIMATED		PERCENT			
				PER PLOT	TOTAL		SAMPLE			
					TREES		TREES			
TOTAL	3	2		.7						
CRUISE	2	2		1.0	696		.3			
DBH COUNT										
REFOREST										
COUNT										
BLANKS	1									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
LP PINE	1	32.1	8.0	65	4.0	11.2	963	722	210	158
DOUG FIR	1	26.5	8.8	70	3.8	11.2	796	676	203	203
<b>TOTAL</b>	<b>2</b>	<b>58.6</b>	<b>8.4</b>	<b>67</b>	<b>7.7</b>	<b>22.4</b>	<b>1,759</b>	<b>1,399</b>	<b>413</b>	<b>361</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0			
LP PINE										
DOUG FIR										
<b>TOTAL</b>		8.8	8.3	22	24	26	5	3		1
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
LP PINE		173.2	120.0		32	71				
DOUG FIR		173.2	120.0		27	58				
<b>TOTAL</b>		87.8	60.8	23	59	94	443	226	111	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
LP PINE		173.2	120.0		11	25				
DOUG FIR		173.2	120.0		11	25				
<b>TOTAL</b>		86.6	60.0	9	22	36	432	220	108	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
LP PINE		173.2	120.0		722	1,588				
DOUG FIR		173.2	120.0		676	1,488				
<b>TOTAL</b>		86.7	60.1	558	1,399	2,239	433	221	108	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
LP PINE		173.2	120.0		64	142				
DOUG FIR		173.2	120.0		60	133				
<b>TOTAL</b>		86.7	60.1	25	62	100	433	221	108	

TC TSTATS				STATISTICS				PAGE	1	
PROJECT				ALECFS2				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	36	ALEC FIRE	00U2	46.87	12	16	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	12	16	1.3							
CRUISE	8	13	1.6	1,663		.8				
DBH COUNT										
REFOREST										
COUNT										
BLANKS	4									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
W LARCH	11	29.1	15.1	67	9.4	36.4	4,599	3,599	1,061	1,059
DOUG FIR	2	6.4	15.6	87	2.1	8.4	1,158	953	270	270
<b>TOTAL</b>	<b>13</b>	<b>35.5</b>	<b>15.2</b>	<b>71</b>	<b>11.5</b>	<b>44.8</b>	<b>5,757</b>	<b>4,552</b>	<b>1,331</b>	<b>1,328</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	97.7	30.9	194	281	368					
DOUG FIR	67.0	62.8	60	162	263					
<b>TOTAL</b>	<b>97.7</b>	<b>28.2</b>	<b>189</b>	<b>263</b>	<b>337</b>	<b>413</b>	<b>211</b>	<b>103</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	81.1	24.4	22	29	36					
DOUG FIR	248.6	74.9	2	6	11					
<b>TOTAL</b>	<b>78.6</b>	<b>23.7</b>	<b>27</b>	<b>35</b>	<b>44</b>	<b>269</b>	<b>137</b>	<b>67</b>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	61.7	18.6	30	36	43					
DOUG FIR	248.6	74.9	2	8	15					
<b>TOTAL</b>	<b>66.6</b>	<b>20.1</b>	<b>36</b>	<b>45</b>	<b>54</b>	<b>193</b>	<b>99</b>	<b>48</b>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	71.5	21.5	2,824	3,599	4,373					
DOUG FIR	248.6	74.9	239	953	1,668					
<b>TOTAL</b>	<b>71.4</b>	<b>21.5</b>	<b>3,573</b>	<b>4,552</b>	<b>5,531</b>	<b>222</b>	<b>113</b>	<b>56</b>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	59.6	18.0	78	99	120					
DOUG FIR	217.4	65.5	28	113	198					
<b>TOTAL</b>	<b>116.5</b>	<b>35.1</b>	<b>80</b>	<b>102</b>	<b>123</b>	<b>592</b>	<b>302</b>	<b>148</b>		

TC TSTATS		STATISTICS					PAGE	1			
		PROJECT ALECF2					DATE	12/9/2015			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
39N	34E	36	ALEC FIRE	00U3	38.32	10	15	S	E		
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL		10	15	1.5							
CRUISE		7	15	2.1	1,696	.9					
DBH COUNT											
REFOREST COUNT											
BLANKS		3									
100 %											
STAND SUMMARY											
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
W LARCH	6	19.2	12.6	72	4.7	16.7	2,381	1,633	481	425	
ALP FIR	5	15.2	13.0	57	3.9	13.9	1,582	962	358	263	
DOUG FIR	4	9.9	14.3	68	2.9	11.1	1,349	1,083	301	301	
<b>TOTAL</b>	<b>15</b>	<b>44.3</b>	<b>13.1</b>	<b>66</b>	<b>11.5</b>	<b>41.7</b>	<b>5,313</b>	<b>3,678</b>	<b>1,140</b>	<b>989</b>	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL: 68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.			
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10			
W LARCH	101.1	45.1	129	235	341						
ALP FIR	180.7	89.9	18	180	342						
DOUG FIR	67.1	38.4	85	138	191						
<b>TOTAL</b>	<b>121.7</b>	<b>32.5</b>	<b>129</b>	<b>191</b>	<b>253</b>	<b>635</b>	<b>324</b>	<b>159</b>			
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.			
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10			
W LARCH	169.3	56.4	8	19	30						
ALP FIR	230.1	76.6	4	15	27						
DOUG FIR	187.6	62.5	4	10	16						
<b>TOTAL</b>	<b>98.9</b>	<b>32.9</b>	<b>30</b>	<b>44</b>	<b>59</b>	<b>434</b>	<b>221</b>	<b>109</b>			
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.			
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10			
W LARCH	140.5	46.8	9	17	24						
ALP FIR	253.9	84.6	2	14	26						
DOUG FIR	174.8	58.2	5	11	18						
<b>TOTAL</b>	<b>90.3</b>	<b>30.1</b>	<b>29</b>	<b>42</b>	<b>54</b>	<b>362</b>	<b>184</b>	<b>90</b>			
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.			
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10			
W LARCH	151.7	50.5	808	1,633	2,459						
ALP FIR	243.8	81.2	181	962	1,743						
DOUG FIR	178.7	59.5	438	1,083	1,727						
<b>TOTAL</b>	<b>93.8</b>	<b>31.3</b>	<b>2,528</b>	<b>3,678</b>	<b>4,828</b>	<b>391</b>	<b>199</b>	<b>98</b>			
CL: 68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.			
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10			
W LARCH	151.7	50.5	48	98	148						
ALP FIR	243.8	81.2	13	69	126						
DOUG FIR	178.7	59.5	39	97	155						
<b>TOTAL</b>	<b>93.8</b>	<b>31.3</b>	<b>61</b>	<b>88</b>	<b>116</b>	<b>391</b>	<b>199</b>	<b>98</b>			

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT ALECF2				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	35	ALEC FIRE	00U4	92.83	23	36	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		23	36	1.6						
CRUISE		6	9	1.5	11,886	.1				
DBH COUNT										
REFOREST										
COUNT		11	24	2.2						
BLANKS		6								
100 %										
STAND SUMMARY										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
W LARCH	5	75.8	9.2	76	11.6	35.1	3,622	3,079	734	734
DOUG FIR	2	35.2	7.3	44	3.8	10.2	352	299	98	98
LP PINE	2	17.0	7.9	68	2.1	5.8	579	434	105	78
<b>TOTAL</b>	<b>9</b>	<b>128.0</b>	<b>8.6</b>	<b>66</b>	<b>17.5</b>	<b>51.1</b>	<b>4,553</b>	<b>3,812</b>	<b>937</b>	<b>911</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	46.5	23.1	35	46	57					
DOUG FIR										
LP PINE	60.6	56.8	11	26	41					
<b>TOTAL</b>	<b>55.0</b>	<b>20.7</b>	<b>30</b>	<b>37</b>	<b>45</b>	<b>138</b>	<b>70</b>	<b>34</b>		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	125.4	26.7	56	76	96					
DOUG FIR	208.6	44.5	20	35	51					
LP PINE	223.1	47.6	9	17	25					
<b>TOTAL</b>	<b>70.5</b>	<b>15.0</b>	<b>109</b>	<b>128</b>	<b>147</b>	<b>208</b>	<b>106</b>	<b>52</b>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	124.2	26.5	26	35	44					
DOUG FIR	208.6	44.5	6	10	15					
LP PINE	222.8	47.5	3	6	9					
<b>TOTAL</b>	<b>73.8</b>	<b>15.7</b>	<b>43</b>	<b>51</b>	<b>59</b>	<b>228</b>	<b>116</b>	<b>57</b>		
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	123.6	26.4	2,267	3,079	3,890					
DOUG FIR	208.6	44.5	166	299	432					
LP PINE	232.2	49.5	219	434	649					
<b>TOTAL</b>	<b>88.5</b>	<b>18.9</b>	<b>3,093</b>	<b>3,812</b>	<b>4,532</b>	<b>328</b>	<b>167</b>	<b>82</b>		
CL: 68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH			65	88	111					
DOUG FIR	95.8	20.4	16	29	42					
LP PINE	154.4	32.9	38	74	111					
<b>TOTAL</b>	<b>536.4</b>	<b>114.4</b>	<b>60</b>	<b>75</b>	<b>89</b>	<b>12,034</b>	<b>6,140</b>	<b>3,008</b>		

TC TSTATS		<b>STATISTICS</b>				PAGE	1			
		<b>PROJECT ALECF52</b>				DATE	12/9/2015			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	26	ALEC FIRE	00U5	26.69	6	10	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		6	10	1.7						
CRUISE		5	10	2.0	1,747	.6				
DBH COUNT										
REFOREST										
COUNT										
BLANKS		1								
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
W LARCH	8	48.3	13.0	87	12.4	44.8	5,913	4,961	1,361	1,361
DOUG FIR	2	17.2	10.9	70	3.4	11.2	894	760	254	254
<b>TOTAL</b>	<i>10</i>	<i>65.5</i>	<i>12.5</i>	<i>83</i>	<i>15.8</i>	<i>56.0</i>	<i>6,807</i>	<i>5,721</i>	<i>1,615</i>	<i>1,615</i>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH			132	132	132					
DOUG FIR	38.6	36.2	30	47	64					
<b>TOTAL</b>	<i>31.8</i>	<i>11.2</i>	<i>101</i>	<i>113</i>	<i>126</i>		<i>45</i>	<i>23</i>	<i>11</i>	
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	102.5	45.7	26	48	70					
DOUG FIR	244.9	109.2		17	36					
<b>TOTAL</b>	<i>103.4</i>	<i>46.1</i>	<i>35</i>	<i>65</i>	<i>96</i>		<i>509</i>	<i>260</i>	<i>127</i>	
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	102.5	45.7	24	45	65					
DOUG FIR	244.9	109.2		11	23					
<b>TOTAL</b>	<i>90.3</i>	<i>40.3</i>	<i>33</i>	<i>56</i>	<i>79</i>		<i>389</i>	<i>198</i>	<i>97</i>	
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	101.4	45.2	2,718	4,961	7,204					
DOUG FIR	244.9	109.2		760	1,589					
<b>TOTAL</b>	<i>90.5</i>	<i>40.3</i>	<i>3,413</i>	<i>5,721</i>	<i>8,029</i>		<i>391</i>	<i>199</i>	<i>98</i>	
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	101.4	45.2	61	111	161					
DOUG FIR	244.9	109.2		68	142					
<b>TOTAL</b>	<i>90.5</i>	<i>40.3</i>	<i>61</i>	<i>102</i>	<i>143</i>		<i>391</i>	<i>199</i>	<i>98</i>	

TC TSTATS				<b>STATISTICS</b>				PAGE 1		
				<b>PROJECT ALECF52</b>				DATE 12/9/2015		
<b>TWP</b>	<b>RGE</b>	<b>SECT</b>	<b>TRACT</b>	<b>TYPE</b>	<b>ACRES</b>	<b>PLOTS</b>	<b>TREES</b>	<b>CuFt</b>	<b>BdFt</b>	
<b>39N</b>	<b>34E</b>	<b>35</b>	<b>ALEC FIRE</b>	<b>00U6</b>	48.65	12	11	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES				
TOTAL	12	11	.9							
CRUISE	4	6	1.5	1,562	.4					
DBH COUNT										
REFOREST										
COUNT	3	3	1.0							
BLANKS	5									
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
W LARCH	5	28.4	12.8	39	7.1	25.2	2,755	2,342	639	639
DOUG FIR	1	3.7	16.7	78	1.4	5.6	626	532	160	160
<b>TOTAL</b>	<b>6</b>	<b>32.1</b>	<b>13.3</b>	<b>44</b>	<b>8.5</b>	<b>30.8</b>	<b>3,381</b>	<b>2,874</b>	<b>799</b>	<b>799</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	51.0	25.4	105	141	177					
DOUG FIR										
<b>TOTAL</b>	<b>45.5</b>	<b>20.3</b>	<b>113</b>	<b>142</b>	<b>170</b>	<b>99</b>	<b>50</b>	<b>25</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	142.5	42.9	16	28	41					
DOUG FIR	233.5	70.4	1	4	6					
<b>TOTAL</b>	<b>120.1</b>	<b>36.2</b>	<b>20</b>	<b>32</b>	<b>44</b>	<b>629</b>	<b>321</b>	<b>157</b>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	115.5	34.8	16	25	34					
DOUG FIR	233.5	70.4	2	6	10					
<b>TOTAL</b>	<b>86.5</b>	<b>26.1</b>	<b>23</b>	<b>31</b>	<b>39</b>	<b>326</b>	<b>166</b>	<b>82</b>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	114.5	34.5	1,534	2,342	3,150					
DOUG FIR	233.5	70.4	158	532	907					
<b>TOTAL</b>	<b>85.3</b>	<b>25.7</b>	<b>2,135</b>	<b>2,874</b>	<b>3,613</b>	<b>317</b>	<b>162</b>	<b>79</b>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	58.4	17.6	61	93	125					
DOUG FIR	147.7	44.5	28	95	162					
<b>TOTAL</b>	<b>224.2</b>	<b>67.6</b>	<b>69</b>	<b>93</b>	<b>117</b>	<b>2,192</b>	<b>1,118</b>	<b>548</b>		

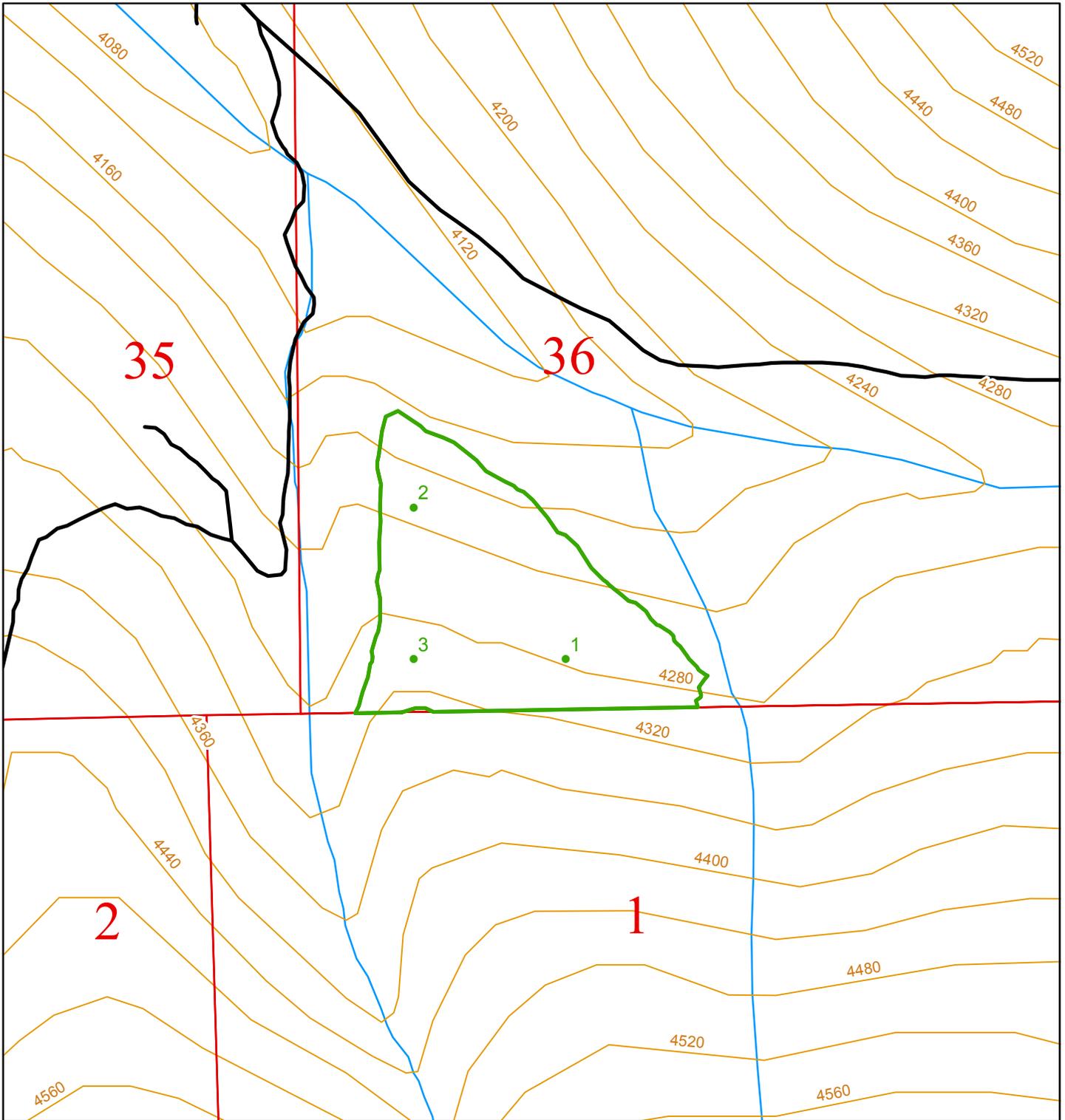
TC TSTATS				STATISTICS				PAGE 1		
PROJECT ALECF2				DATE 12/9/2015						
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	36	ALEC FIRE	00U7	155.36	38	104	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL	38	104	2.7							
CRUISE	13	16	1.2		17,226		.1			
DBH COUNT										
REFOREST										
COUNT	21	65	3.1							
BLANKS	4									
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
W LARCH	13	77.6	10.3	74	14.0	45.1	4,534	3,601	1,056	1,056
DOUG FIR	2	26.5	16.8	71	9.9	40.7	5,835	4,763	1,263	1,263
LP PINE	1	6.8	12.9	79	1.7	6.2	751	512	185	139
<b>TOTAL</b>	<b>16</b>	<b>110.9</b>	<b>12.3</b>	<b>74</b>	<b>26.2</b>	<b>92.1</b>	<b>11,120</b>	<b>8,876</b>	<b>2,504</b>	<b>2,458</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				<b># OF TREES REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	68.0	19.6	47	58	70					
DOUG FIR	73.3	68.7	72	230	387					
LP PINE										
<b>TOTAL</b>	<b>100.2</b>	<b>25.9</b>	<b>60</b>	<b>81</b>	<b>102</b>	<b>428</b>	<b>219</b>	<b>107</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	77.5	12.6	68	78	87					
DOUG FIR	186.5	30.3	18	26	35					
LP PINE	305.4	49.5	3	7	10					
<b>TOTAL</b>	<b>38.0</b>	<b>6.2</b>	<b>104</b>	<b>111</b>	<b>118</b>	<b>58</b>	<b>29</b>	<b>14</b>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	76.1	12.3	40	45	51					
DOUG FIR	186.4	30.2	28	41	53					
LP PINE	305.4	49.5	3	6	9					
<b>TOTAL</b>	<b>64.5</b>	<b>10.5</b>	<b>82</b>	<b>92</b>	<b>102</b>	<b>167</b>	<b>85</b>	<b>42</b>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	76.6	12.4	3,153	3,601	4,048					
DOUG FIR	186.4	30.2	3,323	4,763	6,203					
LP PINE	305.4	49.5	258	512	766					
<b>TOTAL</b>	<b>83.8</b>	<b>13.6</b>	<b>7,669</b>	<b>8,876</b>	<b>10,082</b>	<b>281</b>	<b>143</b>	<b>70</b>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH			70	80	90					
DOUG FIR			82	117	152					
LP PINE			42	83	124					
<b>TOTAL</b>	<b>969.0</b>	<b>157.2</b>	<b>83</b>	<b>96</b>	<b>110</b>	<b>37,560</b>	<b>19,163</b>	<b>9,390</b>		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT ALECF2				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	36	ALEC FIRE	00U8	51.78	14	33	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	14	33	2.4	3,718		.5				
CRUISE	11	17	1.5							
DBH COUNT										
REFOREST										
COUNT	2	2	1.0							
BLANKS	1									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	11	55.8	12.5	54	13.5	47.6	4,931	3,683	1,204	1,178
W LARCH	5	13.9	14.4	71	4.2	15.9	1,662	1,262	411	399
E SPRUCE	1	2.1	13.2	78	0.5	2.0	292	188	62	47
<b>TOTAL</b>	<b>17</b>	<b>71.8</b>	<b>12.9</b>	<b>58</b>	<b>18.2</b>	<b>65.5</b>	<b>6,885</b>	<b>5,133</b>	<b>1,677</b>	<b>1,623</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				<b># OF TREES REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	125.7	39.8	116	192	269					
W LARCH	85.4	42.5	92	160	228					
E SPRUCE										
<b>TOTAL</b>	<b>115.9</b>	<b>29.0</b>	<b>126</b>	<b>177</b>	<b>228</b>	<b>571</b>	<b>291</b>	<b>143</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	108.8	30.2	39	56	73					
W LARCH	132.5	36.7	9	14	19					
E SPRUCE	374.2	103.7	2		4					
<b>TOTAL</b>	<b>64.4</b>	<b>17.8</b>	<b>59</b>	<b>72</b>	<b>85</b>	<b>178</b>	<b>91</b>	<b>45</b>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	92.7	25.7	35	48	60					
W LARCH	113.1	31.4	11	16	21					
E SPRUCE	374.2	103.7	2		4					
<b>TOTAL</b>	<b>35.7</b>	<b>9.9</b>	<b>59</b>	<b>65</b>	<b>72</b>	<b>55</b>	<b>28</b>	<b>14</b>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	96.4	26.7	2,699	3,683	4,667					
W LARCH	106.3	29.5	890	1,262	1,634					
E SPRUCE	374.2	103.7	188		383					
<b>TOTAL</b>	<b>39.0</b>	<b>10.8</b>	<b>4,578</b>	<b>5,133</b>	<b>5,688</b>	<b>65</b>	<b>33</b>	<b>16</b>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			57	77	98					
W LARCH	65.1	18.0	56	79	103					
E SPRUCE	374.2	103.7	95		193					
<b>TOTAL</b>	<b>186.6</b>	<b>51.7</b>	<b>70</b>	<b>78</b>	<b>87</b>	<b>1,500</b>	<b>765</b>	<b>375</b>		

TC TSTATS				STATISTICS				PAGE	1	
PROJECT				ALECFS2				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	25	ALEC FIRE	00U9	127.67	35	67	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		35	67	1.9						
CRUISE		8	10	1.3	15,501	.1				
DBH COUNT										
REFOREST										
COUNT		17	33	1.9						
BLANKS		10								
100 %										
STAND SUMMARY										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
W LARCH	4	55.9	9.9	72	9.5	29.8	2,769	2,354	644	644
DOUG FIR	4	48.3	10.1	49	8.5	26.9	1,630	894	459	387
LP PINE	1	14.8	7.7	67	1.7	4.8	148	111	57	43
E SPRUCE	1	2.4	14.8	78	0.7	2.9	506	380	98	73
<b>TOTAL</b>	<b>10</b>	<b>121.4</b>	<b>9.9</b>	<b>62</b>	<b>20.5</b>	<b>64.3</b>	<b>5,054</b>	<b>3,739</b>	<b>1,257</b>	<b>1,146</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
W LARCH		39.3	22.5	35	45	55				
DOUG FIR		91.9	52.5	13	28	42				
LP PINE										
E SPRUCE										
<b>TOTAL</b>		<b>98.8</b>	<b>32.9</b>	<b>30</b>	<b>45</b>	<b>60</b>	<b>434</b>	<b>221</b>	<b>108</b>	
CL:	68.1 %	COEFF	TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
W LARCH		128.0	21.6	44	56	68				
DOUG FIR		125.3	21.2	38	48	59				
LP PINE		301.0	50.9	7	15	22				
E SPRUCE		435.7	73.7	1	2	4				
<b>TOTAL</b>		<b>77.7</b>	<b>13.1</b>	<b>105</b>	<b>121</b>	<b>137</b>	<b>242</b>	<b>123</b>	<b>60</b>	
CL:	68.1 %	COEFF	BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
W LARCH		127.8	21.6	23	30	36				
DOUG FIR		124.3	21.0	21	27	33				
LP PINE		301.0	50.9	2	5	7				
E SPRUCE		435.7	73.7	1	3	5				
<b>TOTAL</b>		<b>81.5</b>	<b>13.8</b>	<b>55</b>	<b>64</b>	<b>73</b>	<b>266</b>	<b>136</b>	<b>66</b>	
CL:	68.1 %	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
W LARCH		128.0	21.6	1,845	2,354	2,863				
DOUG FIR		128.8	21.8	699	894	1,089				
LP PINE		301.0	50.9	55	111	168				
E SPRUCE		435.7	73.7	100	380	660				
<b>TOTAL</b>		<b>103.9</b>	<b>17.6</b>	<b>3,083</b>	<b>3,739</b>	<b>4,395</b>	<b>431</b>	<b>220</b>	<b>108</b>	
CL:	68.1 %	COEFF	V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
W LARCH				62	79	96				
DOUG FIR				26	33	40				
LP PINE		64.2	10.8	11	23	35				
E SPRUCE		172.4	29.1	35	132	229				
<b>TOTAL</b>		<b>930.0</b>	<b>157.2</b>	<b>48</b>	<b>58</b>	<b>68</b>	<b>34,593</b>	<b>17,649</b>	<b>8,648</b>	

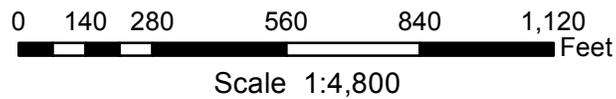
TC TSTATS				STATISTICS				PAGE	1	
PROJECT				ALECFS2				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	25	ALEC FIRE	0U10	223.83	52	95	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	52	95	1.8							
CRUISE	15	19	1.3	19,456		.1				
DBH COUNT										
REFOREST										
COUNT	26	51	2.0							
BLANKS	11									
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	10	34.5	13.7	60	9.6	35.5	3,278	2,655	857	853
W LARCH	7	28.3	10.4	79	5.2	16.8	1,913	1,582	432	432
LP PINE	1	16.9	7.5	67	1.9	5.2	337	253	74	51
E SPRUCE	1	7.3	9.9	88	1.2	3.9	653	490	121	91
<b>TOTAL</b>	<i>19</i>	<i>86.9</i>	<i>11.4</i>	<i>70</i>	<i>18.2</i>	<i>61.4</i>	<i>6,180</i>	<i>4,979</i>	<i>1,484</i>	<i>1,426</i>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				<b># OF TREES REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	58.9	19.6	74	93	111					
W LARCH	47.8	19.5	53	66	78					
LP PINE										
E SPRUCE										
<b>TOTAL</b>	<i>61.0</i>	<i>14.4</i>	<i>66</i>	<i>77</i>	<i>88</i>	<i>157</i>	<i>80</i>	<i>39</i>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	107.1	14.9	29	34	40					
W LARCH	137.8	19.1	23	28	34					
LP PINE	236.8	32.8	11	17	22					
E SPRUCE	370.2	51.3	4	7	11					
<b>TOTAL</b>	<i>73.4</i>	<i>10.2</i>	<i>78</i>	<i>87</i>	<i>96</i>	<i>216</i>	<i>110</i>	<i>54</i>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	104.9	14.6	30	36	41					
W LARCH	134.3	18.6	14	17	20					
LP PINE	236.8	32.8	3	5	7					
E SPRUCE	370.2	51.3	2	4	6					
<b>TOTAL</b>	<i>71.7</i>	<i>9.9</i>	<i>55</i>	<i>61</i>	<i>68</i>	<i>205</i>	<i>105</i>	<i>51</i>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	110.3	15.3	2,249	2,655	3,061					
W LARCH	135.9	18.9	1,283	1,582	1,880					
LP PINE	236.8	32.8	170	253	336					
E SPRUCE	370.2	51.3	238	490	741					
<b>TOTAL</b>	<i>83.1</i>	<i>11.5</i>	<i>4,405</i>	<i>4,979</i>	<i>5,553</i>	<i>277</i>	<i>141</i>	<i>69</i>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			63	75	86					
W LARCH			76	94	112					
LP PINE			33	49	65					
E SPRUCE	67.3	9.3	61	126	191					
<b>TOTAL</b>	<i>629.4</i>	<i>87.3</i>	<i>72</i>	<i>81</i>	<i>90</i>	<i>15,845</i>	<i>8,084</i>	<i>3,961</i>		

TC TSTATS				<b>STATISTICS</b>				PAGE	1	
				<b>PROJECT ALECF2</b>				DATE	12/9/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	34E	24	ALEC FIRE	0U11	49.16	12	17	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		12	17	1.4						
CRUISE		7	9	1.3	5,187		.2			
DBH COUNT										
REFOREST										
COUNT		4	5	1.3						
BLANKS		1								
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
W LARCH	8	78.8	9.5	61	12.7	39.2	4,666	3,909	918	918
LP PINE	1	26.7	7.6	56	3.0	8.4	533	400	116	87
<b>TOTAL</b>	9	105.5	9.1	60	15.8	47.6	5,199	4,309	1,035	1,006
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				# OF TREES REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	74.4	28.1	49	68	87					
LP PINE										
<b>TOTAL</b>	81.3	28.7	44	62	80	297	152	74		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	43.6	13.1	68	79	89					
LP PINE	180.9	54.5	12	27	41					
<b>TOTAL</b>	49.4	14.9	90	106	121	106	54	27		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	33.4	10.1	35	39	43					
LP PINE	180.9	54.5	4	8	13					
<b>TOTAL</b>	36.3	11.0	42	48	53	58	29	14		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	41.3	12.4	3,423	3,909	4,395					
LP PINE	180.9	54.5	182	400	618					
<b>TOTAL</b>	38.1	11.5	3,814	4,309	4,804	63	32	16		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH			87	100	112					
LP PINE	60.3	18.2	22	48	74					
<b>TOTAL</b>	173.4	52.2	80	90	101	1,310	669	328		



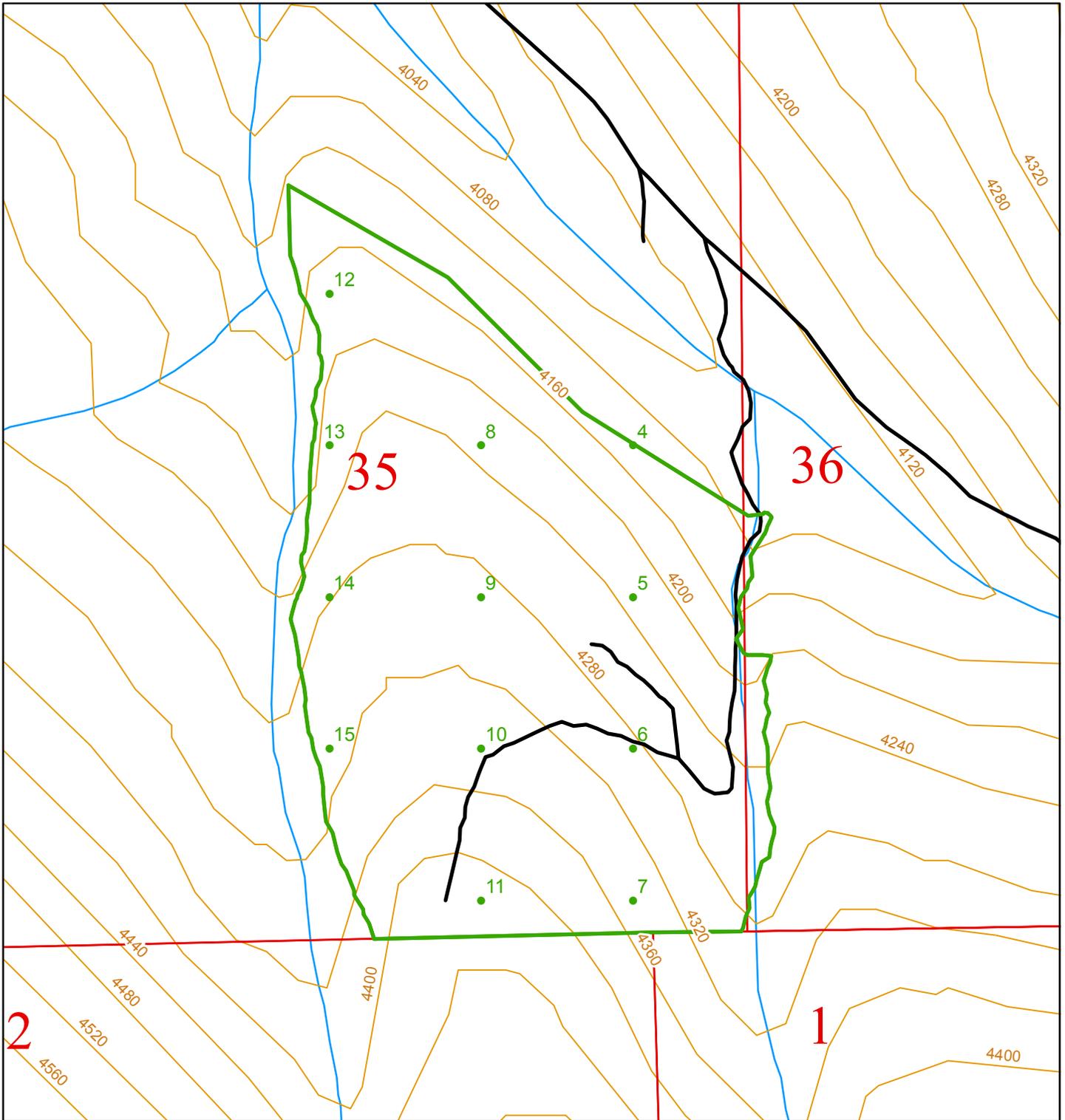
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	ALEC FIRE SALVAGE U1	Township:	T39R34E
FMU_ID:	93503	DNR Region:	NORTHEAST
Acres:	11	Total Sample Points:	3
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



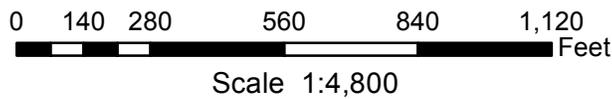
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



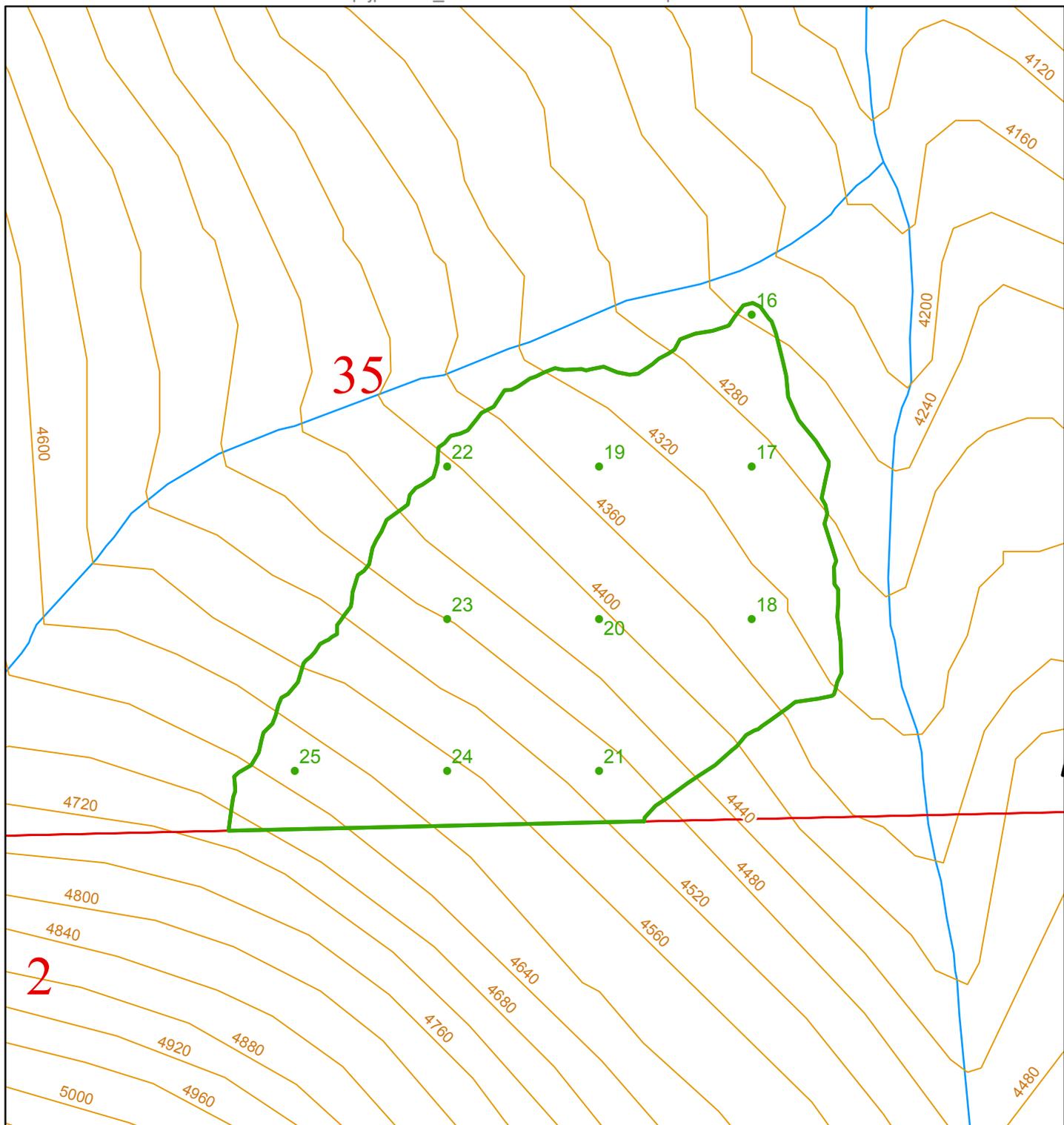
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	ALEC FIRE SALVAGE U2	Township:	T39R34E
FMU_ID:	93736	DNR Region:	NORTHEAST
Acres:	47	Total Sample Points:	12
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



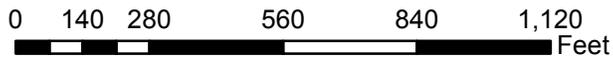
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

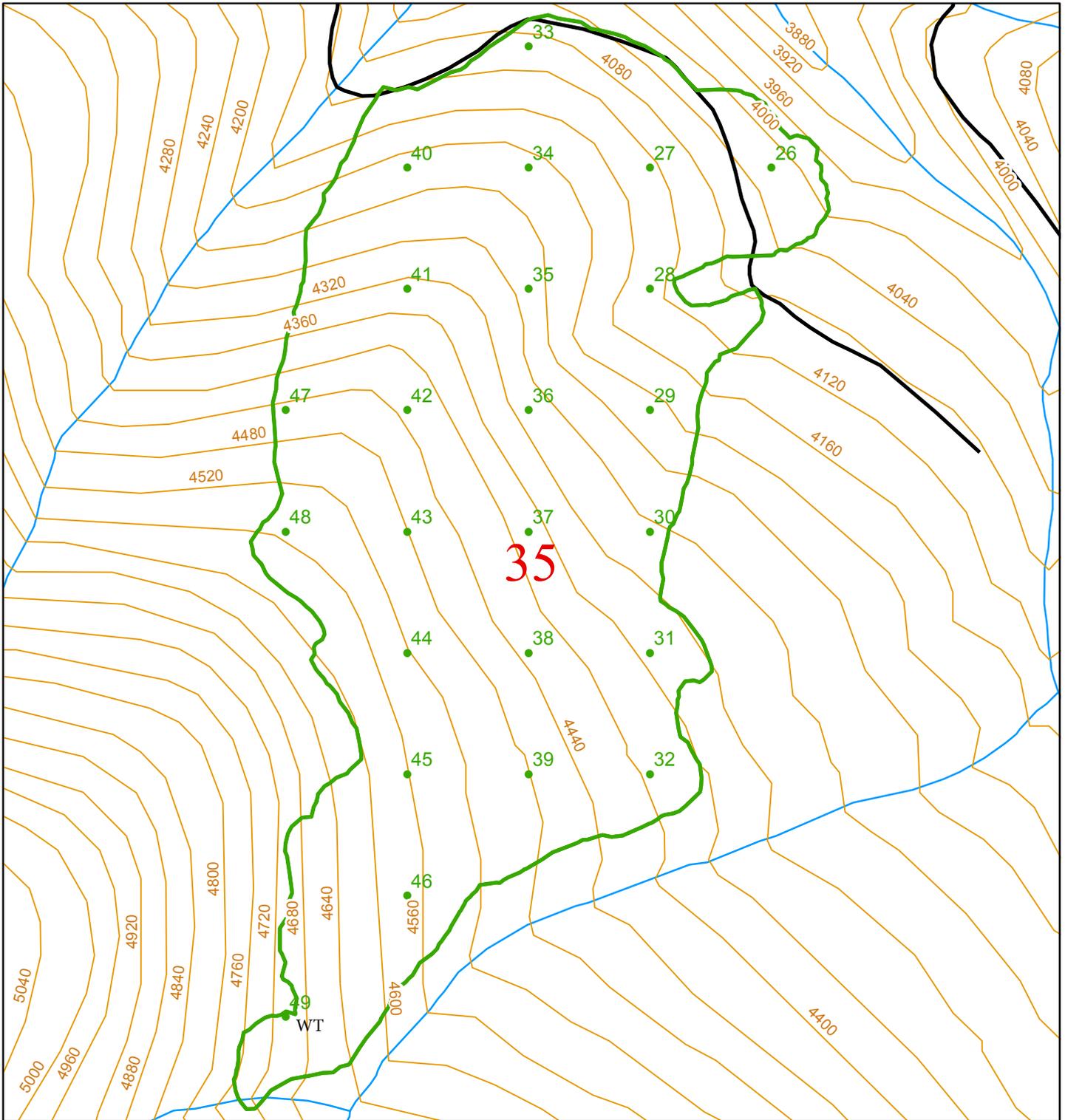
FMU_NM:	ALEC FIRE SALVAGE U3	Township:	T39R34E
FMU_ID:	93737	DNR Region:	NORTHEAST
Acres:	38	Total Sample Points:	10
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



Scale 1:4,800

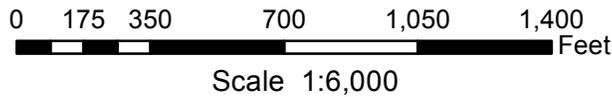
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



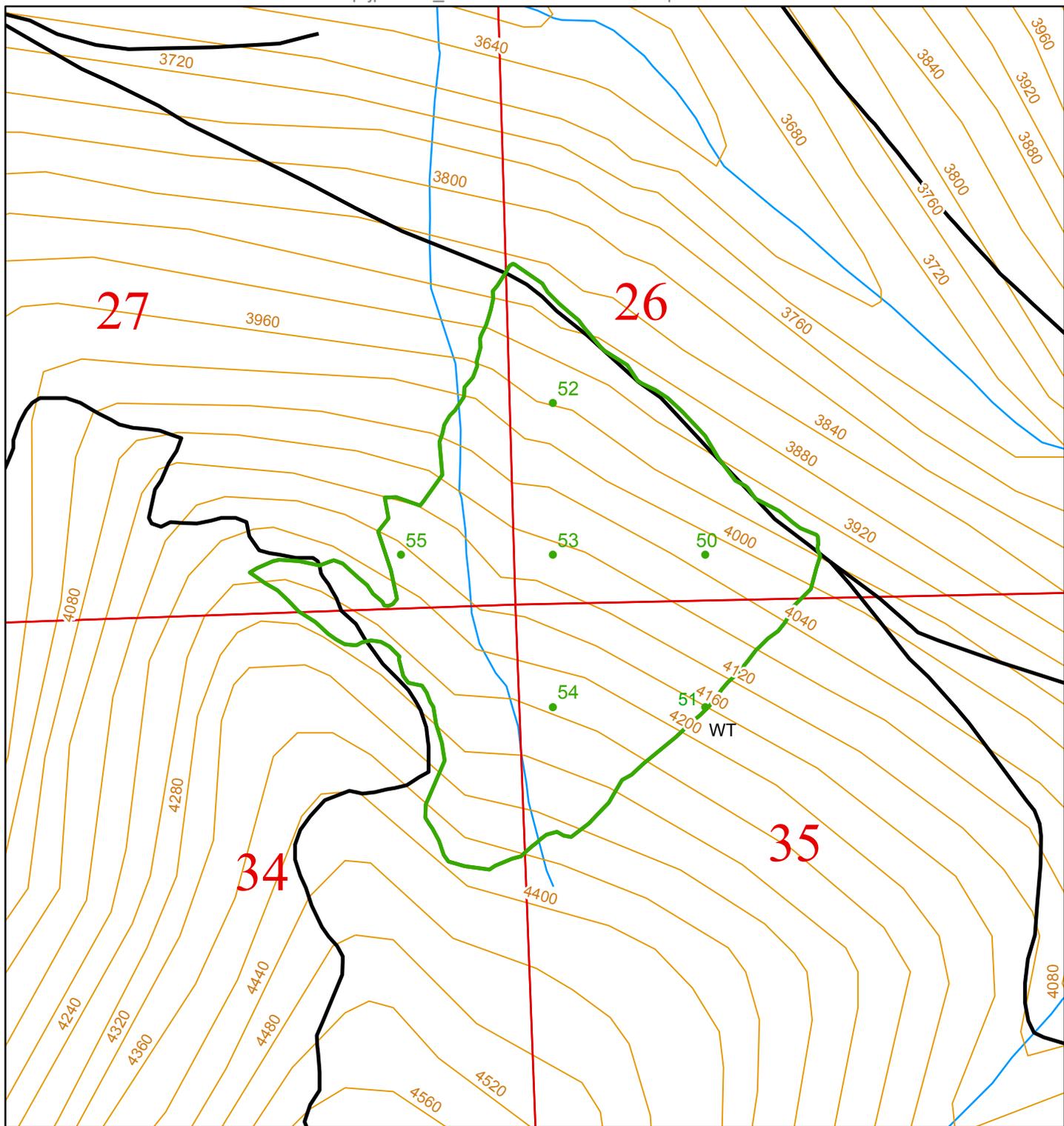
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	ALEC FIRE SALVAGE U4	Township:	T39R34E
FMU_ID:	93738	DNR Region:	NORTHEAST
Acres:	103	Total Sample Points:	24
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
Walk Through Plots	WT	Point Rotation Degrees:	0



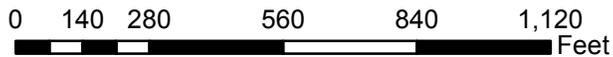
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

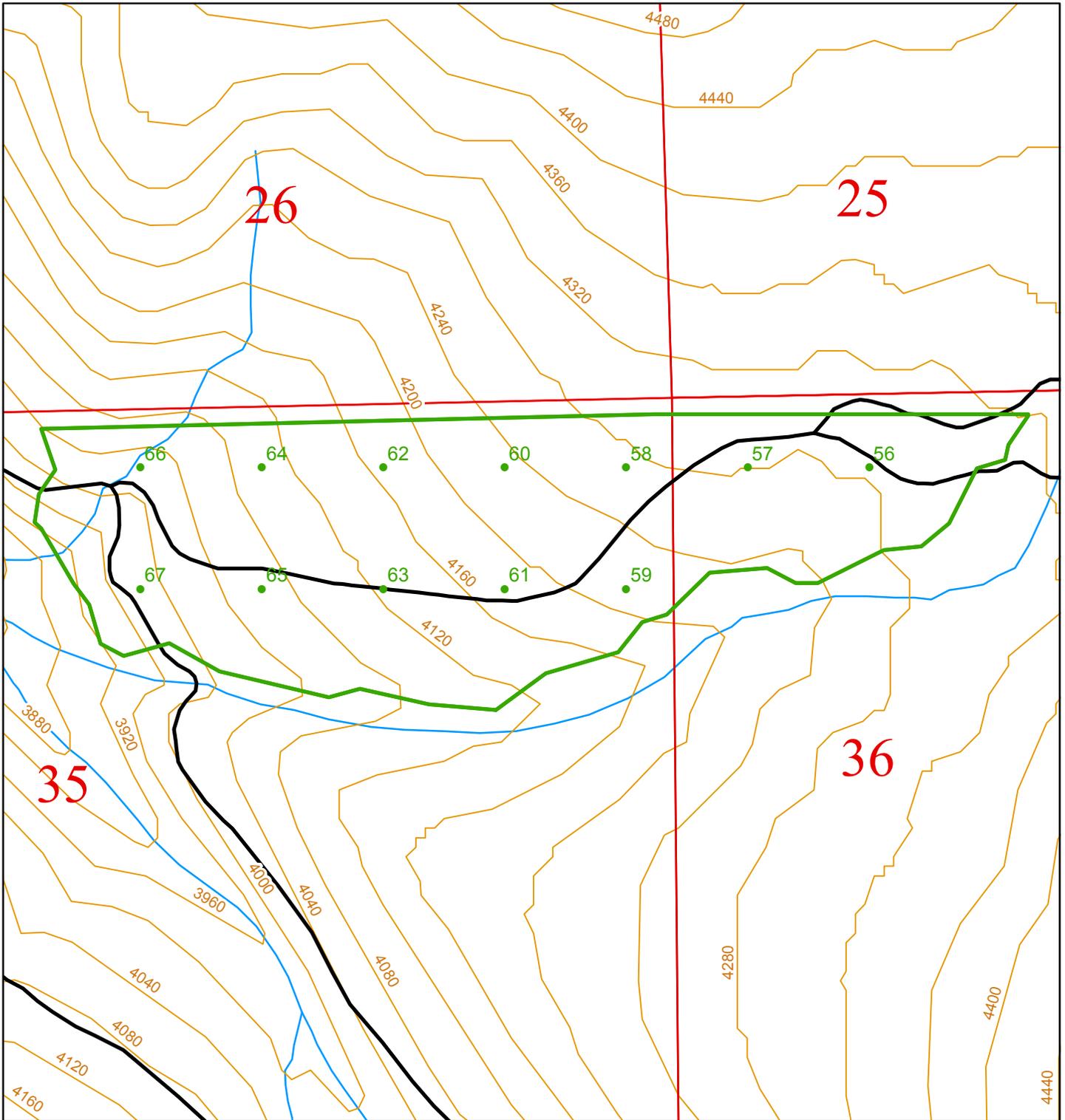
FMU_NM:	ALEC FIRE SALVAGE U5	Township:	T39R34E
FMU_ID:	93739	DNR Region:	NORTHEAST
Acres:	29	Total Sample Points:	6
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
Walk Through Plots	WT	Point Rotation Degrees:	0



Scale 1:4,800

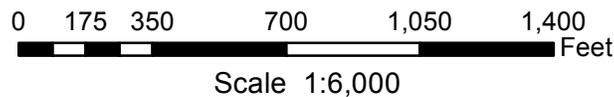
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



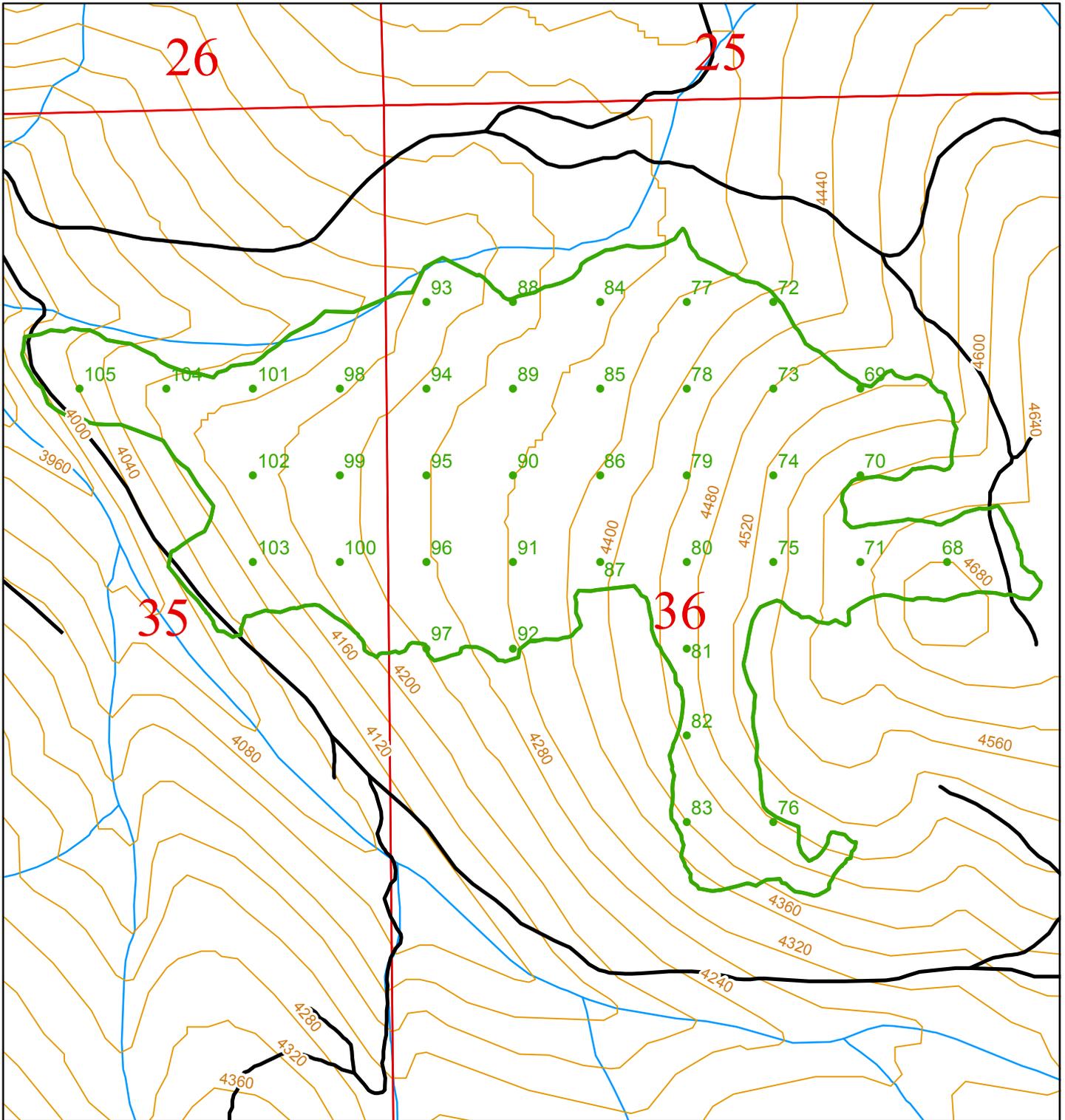
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	ALEC FIRE SALVAGE U6	Township:	T39R34E
FMU_ID:	35499	DNR Region:	NORTHEAST
Acres:	58	Total Sample Points:	12
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



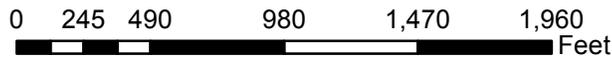
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

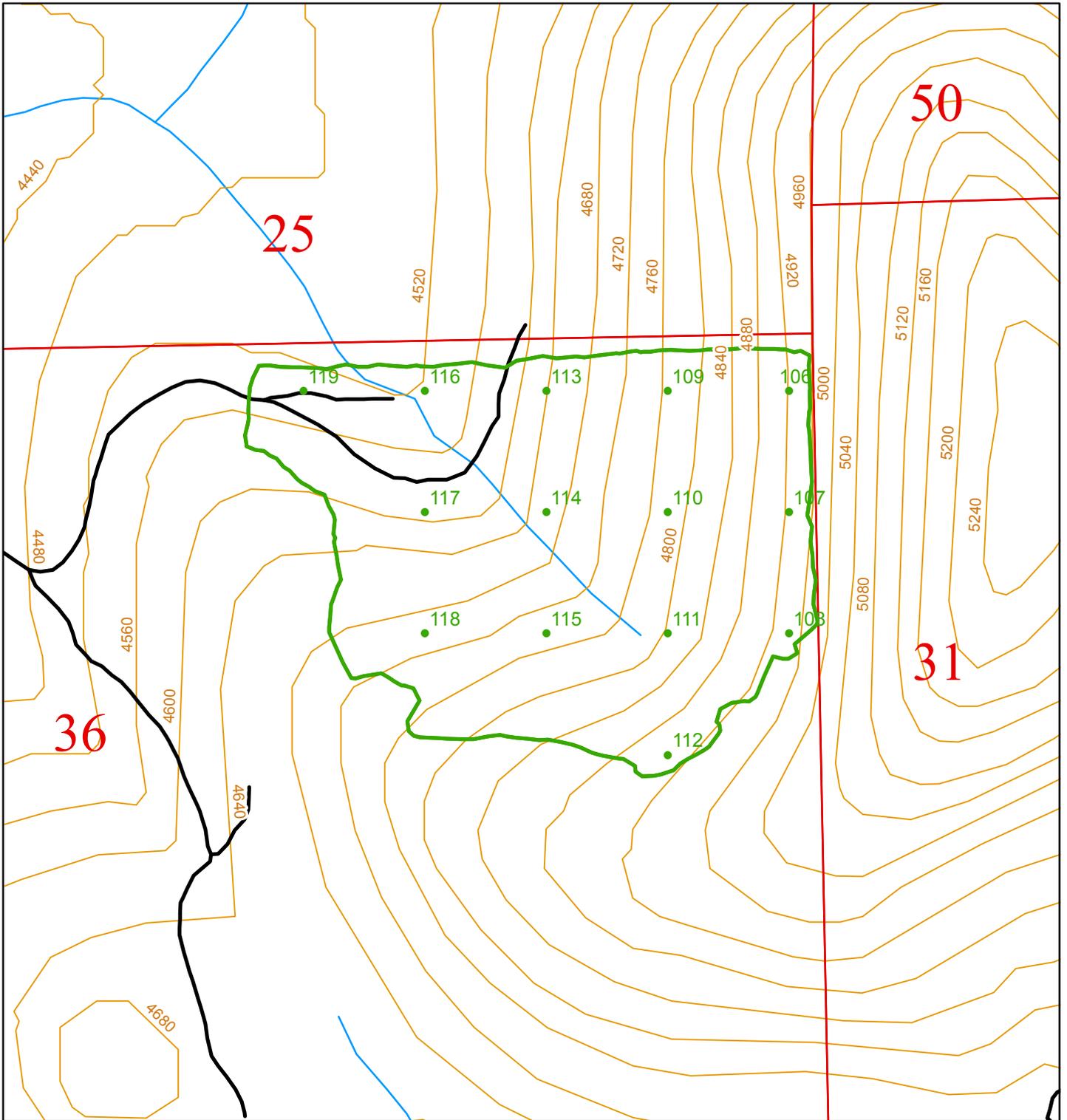
FMU_NM:	ALEC FIRE SALVAGE U7	Township:	T39R34E
FMU_ID:	93741	DNR Region:	NORTHEAST
Acres:	156	Total Sample Points:	38
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



Scale 1:8,400

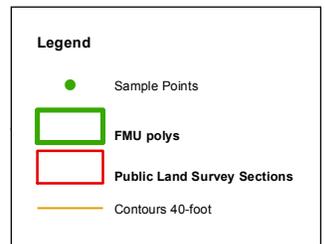
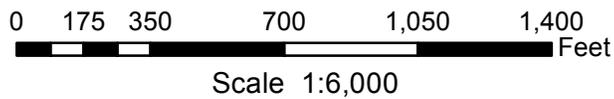
**Legend**

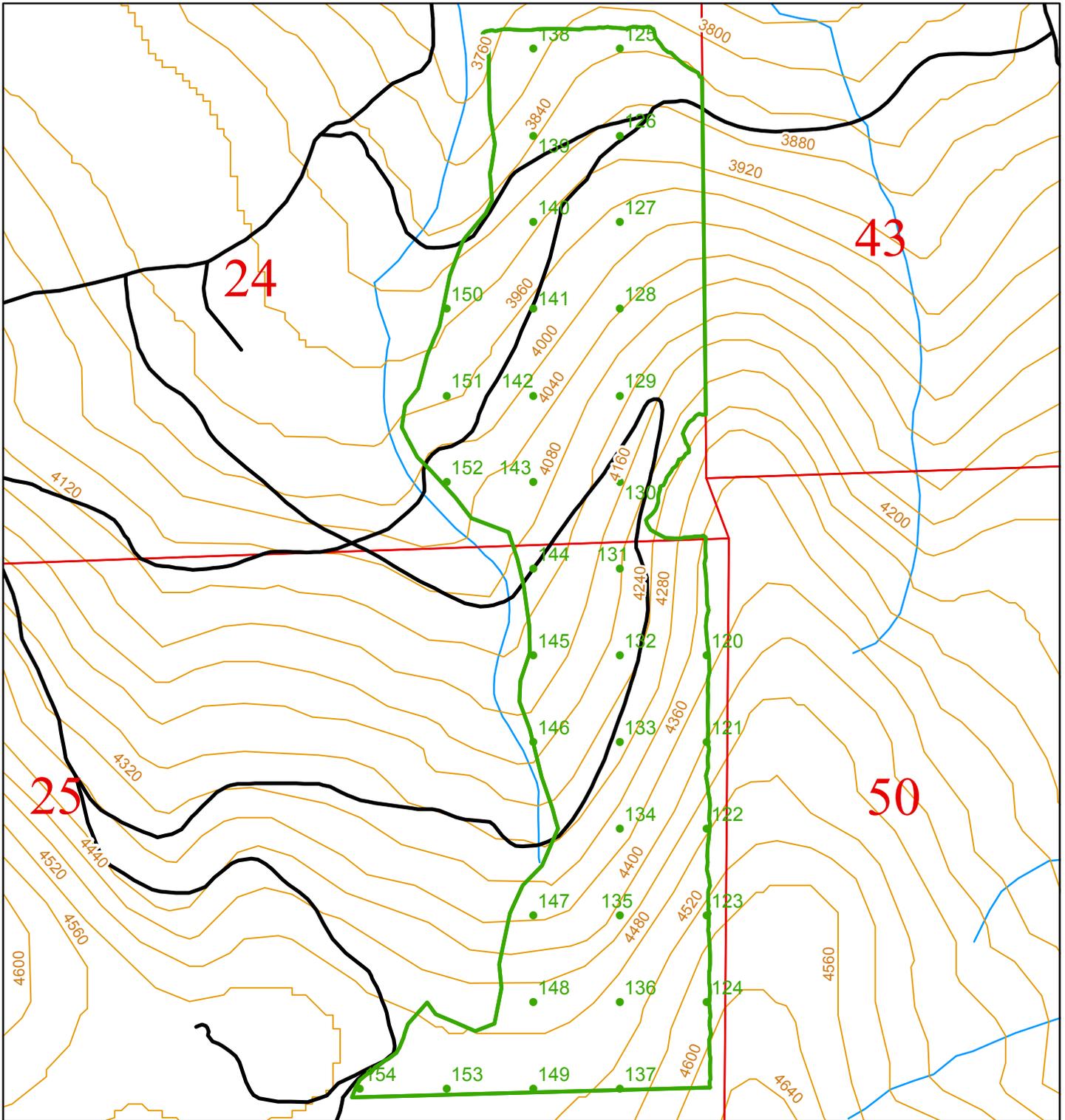
- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

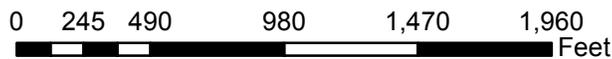
FMU_NM:	ALEC FIRE SALVAGE U8	Township:	T39R34E
FMU_ID:	93742	DNR Region:	NORTHEAST
Acres:	53	Total Sample Points:	14
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0





**FMU POLYGON AND SAMPLE POINT INFORMATION**

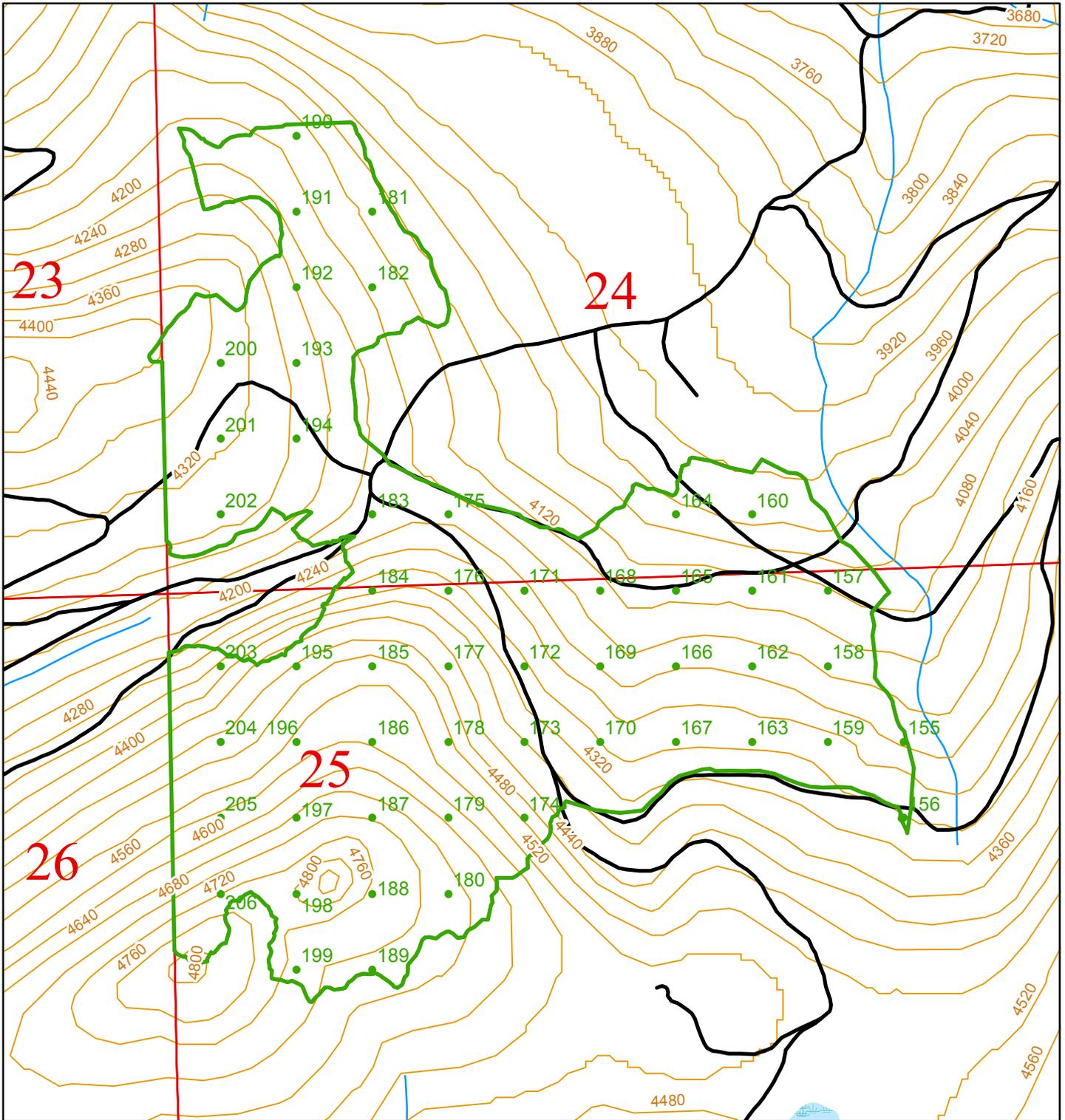
FMU_NM:	ALEC FIRE SALVAGE U9	Township:	T39R34E
FMU_ID:	93743	DNR Region:	NORTHEAST
Acres:	131	Total Sample Points:	35
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



Scale 1:8,400

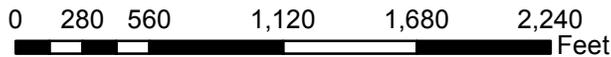
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

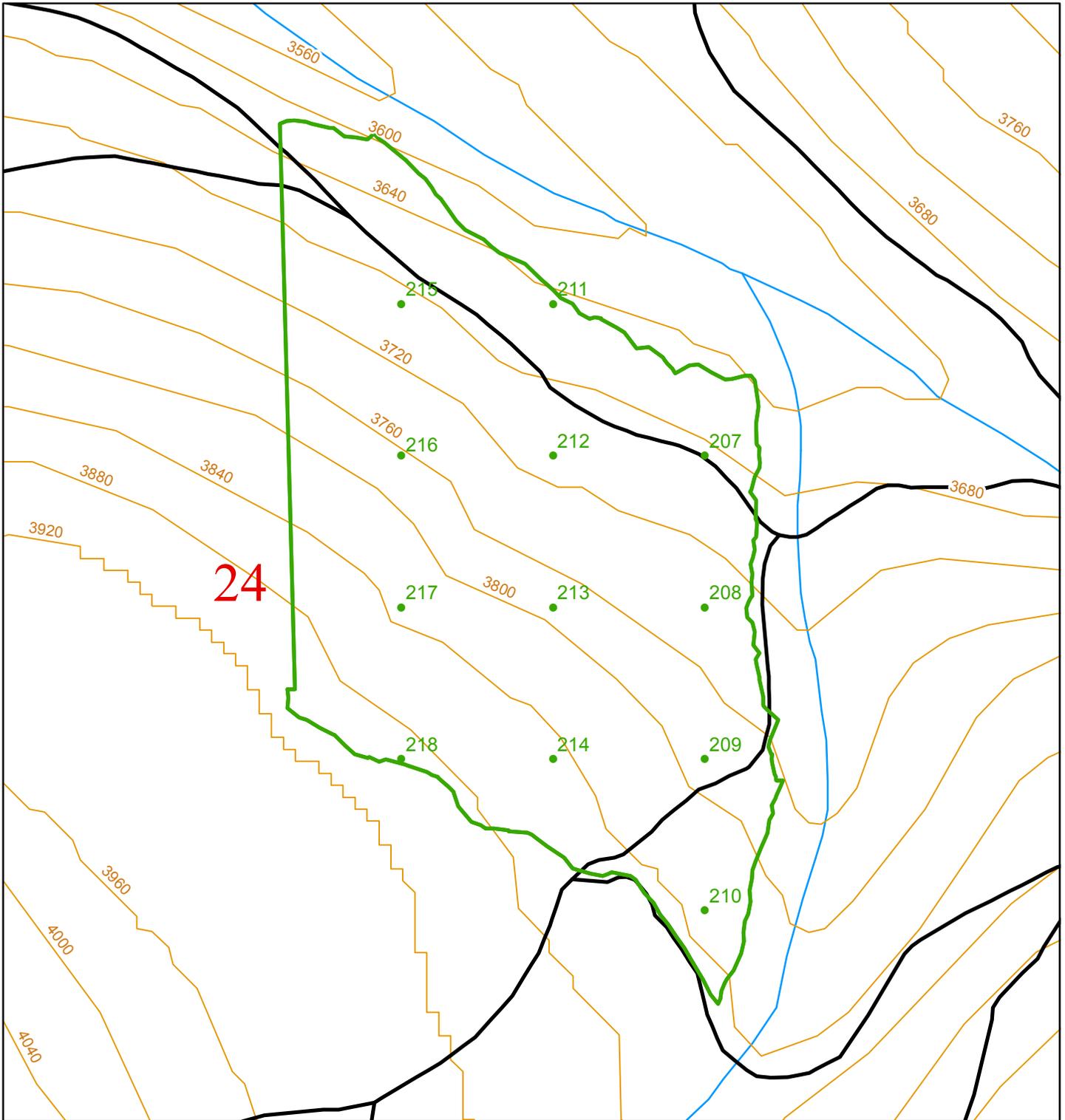
FMU_NM:	ALEC FIRE SALVAGEU10	Township:	T39R34E
FMU_ID:	93744	DNR Region:	NORTHEAST
Acres:	235	Total Sample Points:	52
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



Scale 1:9,600

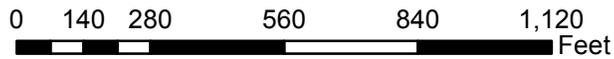
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	ALEC FIRE SALVAGEU11	Township:	T39R34E
FMU_ID:	93745	DNR Region:	NORTHEAST
Acres:	51	Total Sample Points:	12
County:	FERRY	Spacing Between Points:	Width: 430 Height: 430
		Point Rotation Degrees:	0



Scale 1:4,800

**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**  
 Peter Goldmark - Commissioner of Public Lands

FPA/N No: 3020575

Effective Date: 12/3/2015

Expiration Date: 12/3/2018

Shut Down Zone: 678E

EARR Tax Credit:  Eligible  Non-eligible

Reference: Alec Fire Salvage FIT

S: 23-27, 34-36 T: 39 R: 34

**Forest Practices Application/Notification  
 Notice of Decision**

**Decision**

- Notification Operations shall not begin before the effective date.
- Approved This Forest Practices Application is subject to the conditions listed below.
- Disapproved This Forest Practices Application is disapproved for the reasons listed below.
- Closed Applicant has withdrawn FPA/N.

**FPA/N Classification**

**Number of Years Granted on Multi-Year Request**

- Class II  Class III  Class IVG  Class IVS
- 4 years  5 years

**Conditions on Approval / Reasons for Disapproval**

Conditions -

1. Streams and wetlands may have been identified within this harvest area. If changes occur to streams or wetlands during the time of this activity, notify the forest practice forester immediately for correct protection measures.
2. When harvesting on slopes that have the potential to deliver sediment to a public resource, use best management practices to minimize the potential. This could include: progressive water barring of skid trails, slash placement or grass seeding. Leaving small trees or logs on the ground that are perpendicular to the slope can also be helpful in minimizing erosion or delivering sediment to a public resource.

Issued By: Robert Hinds Region: Northeast

Title: Forest Practices Forester Date: 12/3/2015

Copies to:  Landowner, Timber Owner and Operator.

Issued in person:  Landowner  Timber Owner  Operator By: Nichole Fandrey