

TIMBER NOTICE OF SALE

SALE NAME: GOLDEN HALO FH FIT

AGREEMENT NO: 30-92131 - 30-92135

AUCTION: April 28, 2015 starting at 10:00 a.m.
Northeast Region Office, Colville, WA

COUNTY: Ferry, Okanogan

SALE LOCATION: Sale located approximately 5 miles south of Republic, WA for Units 1-7; 5 miles northwest of Curlew, WA for Unit 8; 33 miles northeast of Tonasket, WA for Units 9 & 10.

**PRODUCTS SOLD
AND SALE AREA:**

All products sold on a delivered log sort basis. All green conifer species (excluding ponderosa pine), not meeting leave tree guidelines set forth in Schedule 'A' which are bounded by blue "Special Management Unit Boundary" tags and pink ribbon in Units 5, 6, 8, 9 and 10; all timber bounded by orange "Right-of-way Boundary" tags meeting the specifications described below; on parts of Sections 1, and 12 all in Township 35 North, Range 32 East, Sections 26, 35, and 36 all in Township 36 North, Range 32 East, Sections 13, 14, 23, and 24 all in Township 38 North, Range 31 East, Section 25 in Township 40 North, Range 33 East W.M., containing 544 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		
30-092131	01	DF/WL Sawlogs/peelers 11" + dib	N/A	2414	12070	5		\$70.00	\$844,900.00	\$84,490.00
30-092132	02	DF/WL Sawlogs/peelers 7-10" dib	N/A	428	2568	6		\$60.00	\$154,080.00	\$15,408.00
30-092133	03	Chip & Saw 5-6" dib All species except PP	N/A	80	512	6.4		\$45.00	\$23,040.00	\$2,304.00
30-092134	04	LP/ES/AF/WP and non-chuckable DF/WL Sawlogs 7"+ dib	N/A	37	215	5.8		\$45.00	\$9,675.00	\$967.50
30-092135	05	Utility Wood all species except WRC 2" and greater	N/A	22	198	9		\$24.00	\$4,752.00	\$475.20

Totals: **2981 15563 \$1,036,447.00**

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: December 31, 2015 **ALLOCATION:** Export Restricted

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**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 = \$28.00 per Ton for sorts 01, 02, 03, 04, 06, 07, 08, 09, 11, 12, 13, 14, 16, 17, 18 and 19 and \$13.00 per Ton for sorts 05, 10, 15 and 20.

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.

There are three distinct project areas for this sale. Units 1 thru 7, which make up the "Golden" project area, are located approximately 5 miles south of Republic, WA. Unit 8, the "Rincon" project area, is located approximately 4.75 miles northwest of Curlew, WA. Units 9 and 10, the "Turner Creek" project area, are located approximately 33 miles northeast of Tonasket, WA.



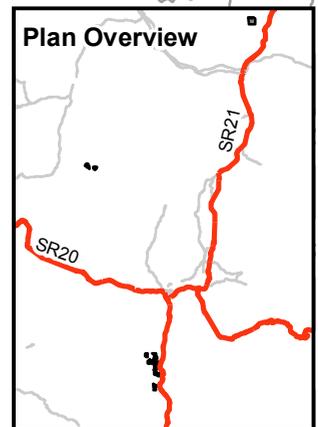
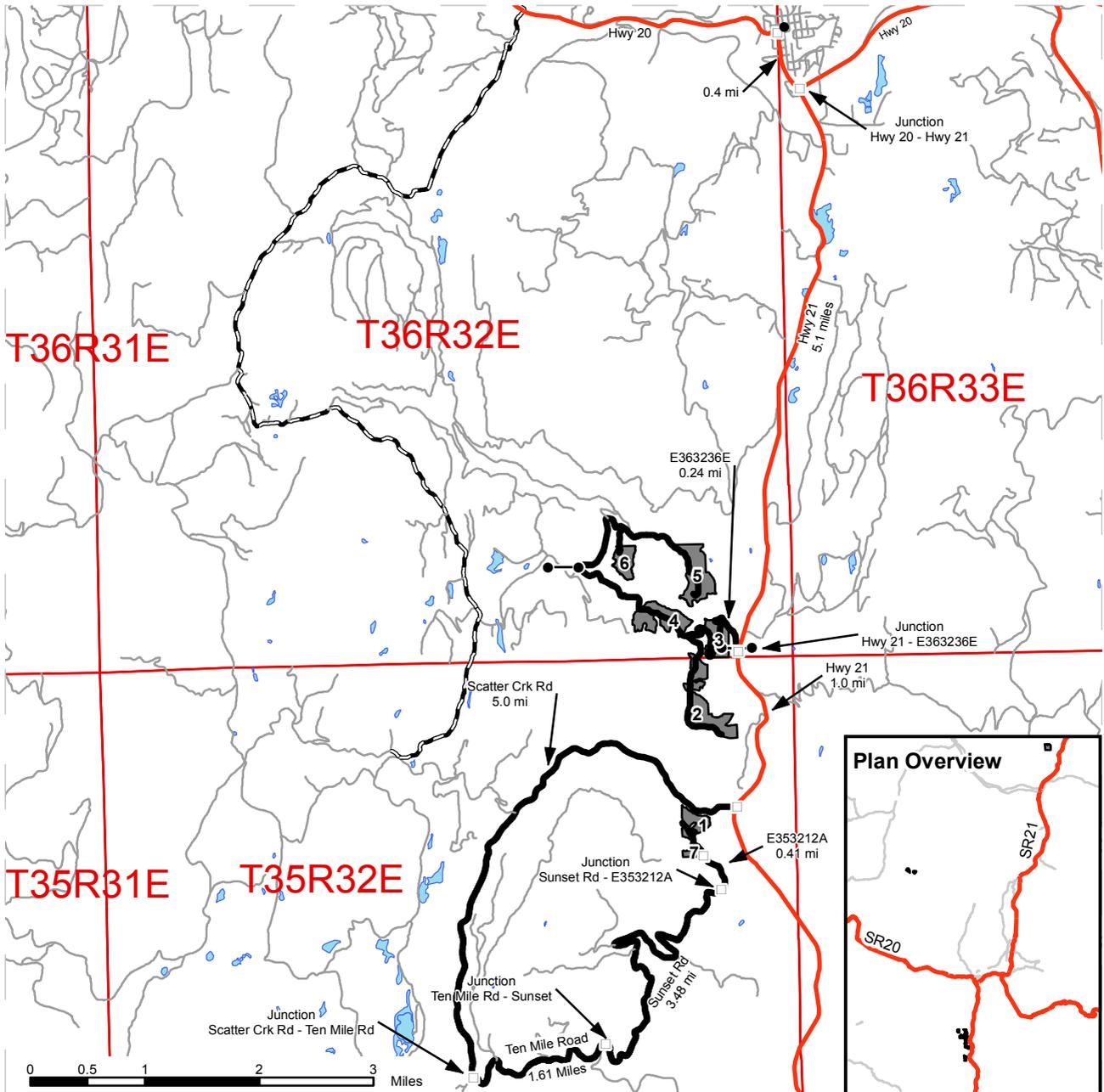
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For more information regarding this log sort sale visit our web site:
<http://www.dnr.wa.gov/BusinessPermits/Topics/AppraisalPackets/Pages/Home.aspx>. If you have questions call Jason Emsley at the Northeast Region Office at (509)684-7474 or Steve Teitzel at the Product Sales and Leasing Division Office in Olympia at (509)902-1741.

DRIVING MAP

SALE NAME: GOLDEN HALO FH FIT
AGREEMENT#: 30-091721
TOWNSHIP(S): T36R32E, T40R33E, T38R31E, T35R32E
TRUST(S): Common School and Indemnity(3)

REGION: Northeast Region
COUNTY(S): FERRY, OKANOGAN
ELEVATION RGE: 2281-4614



- Timber Sale Unit
- Highways
- County
- Haul Route
- Other Route
- Milepost Marker
- Gate

DRIVING DIRECTIONS:

To access Units 2, 3, 4, 5, and 6 travel south from Republic on Hwy 21 for 5 miles and turn right onto E363236E road, continue northwest 0.24 miles. To access units 1 & 7; travel south another mile on Hwy 21. Turn right onto Scatter Creek Rd and continue west then south 5 miles to Ten Mile Rd (NF-5320100). Turn left onto Ten Mile Rd and drive east 1.61 miles to the junction of Ten Mile Rd and Sunset Rd (NF-5320100). Turn left onto Sunset Rd and drive 3.48 miles. Turn left onto E353212A and travel north 0.41 miles to units 1 & 7.

To access Unit 8; travel north from Curlew on Hwy 21 for 3.9 miles. At the junction of Hwy 21 and Little Goosmus Crk Rd turn left. Drive 0.76 miles to junction of Little Goosmus Crk Rd and E403325A. Turn left continue east 0.31 miles to unit.

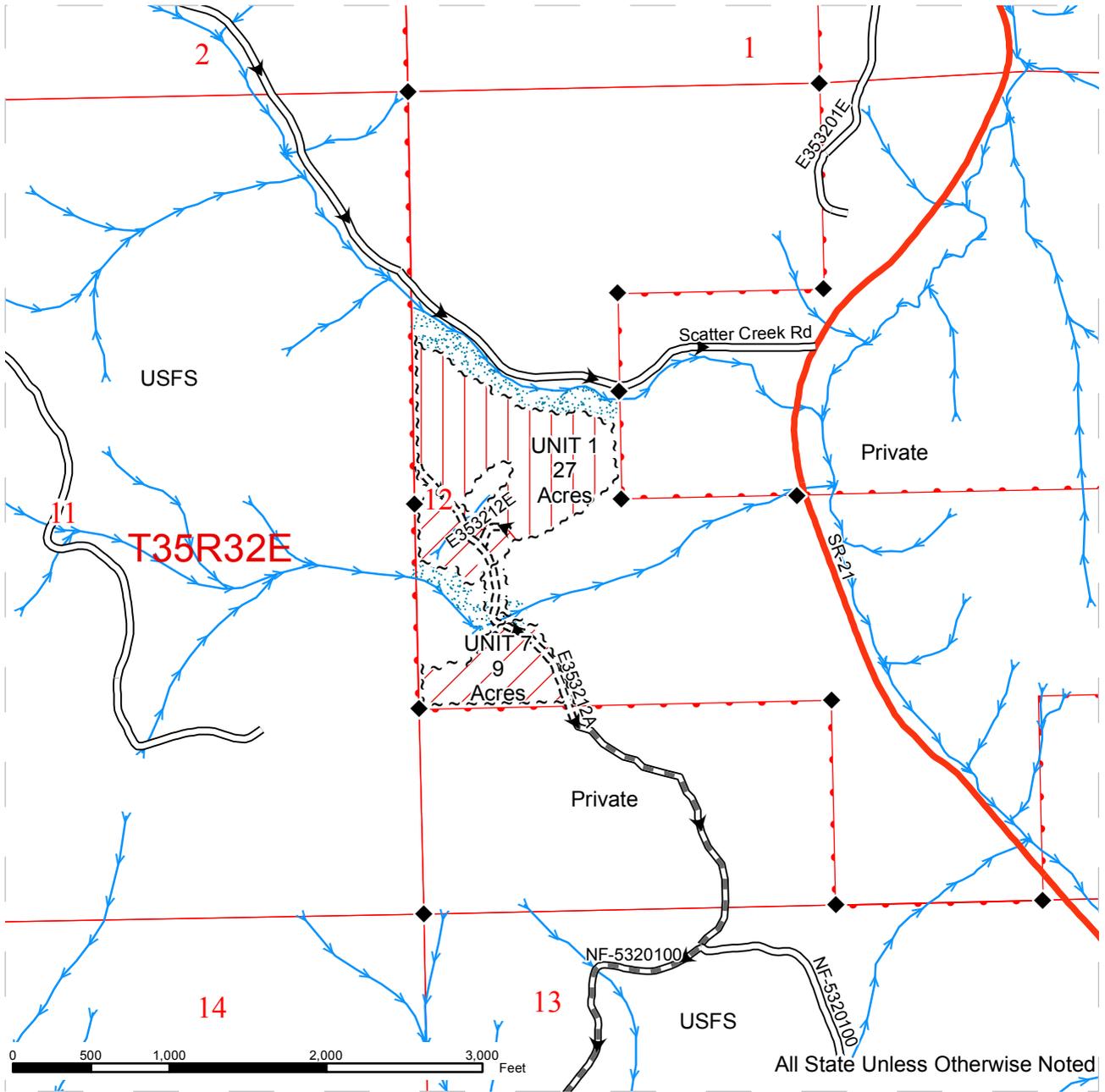
Unit 9 & 10 access travel 23 miles east from Tonasket on Hwy 20. Turn left at Toroda Crk Rd, drive 7.3 mi. At Cougar Crk Rd turn right and drive 2.95 miles. Turn left onto E383123E and drive 0.88 miles to units.



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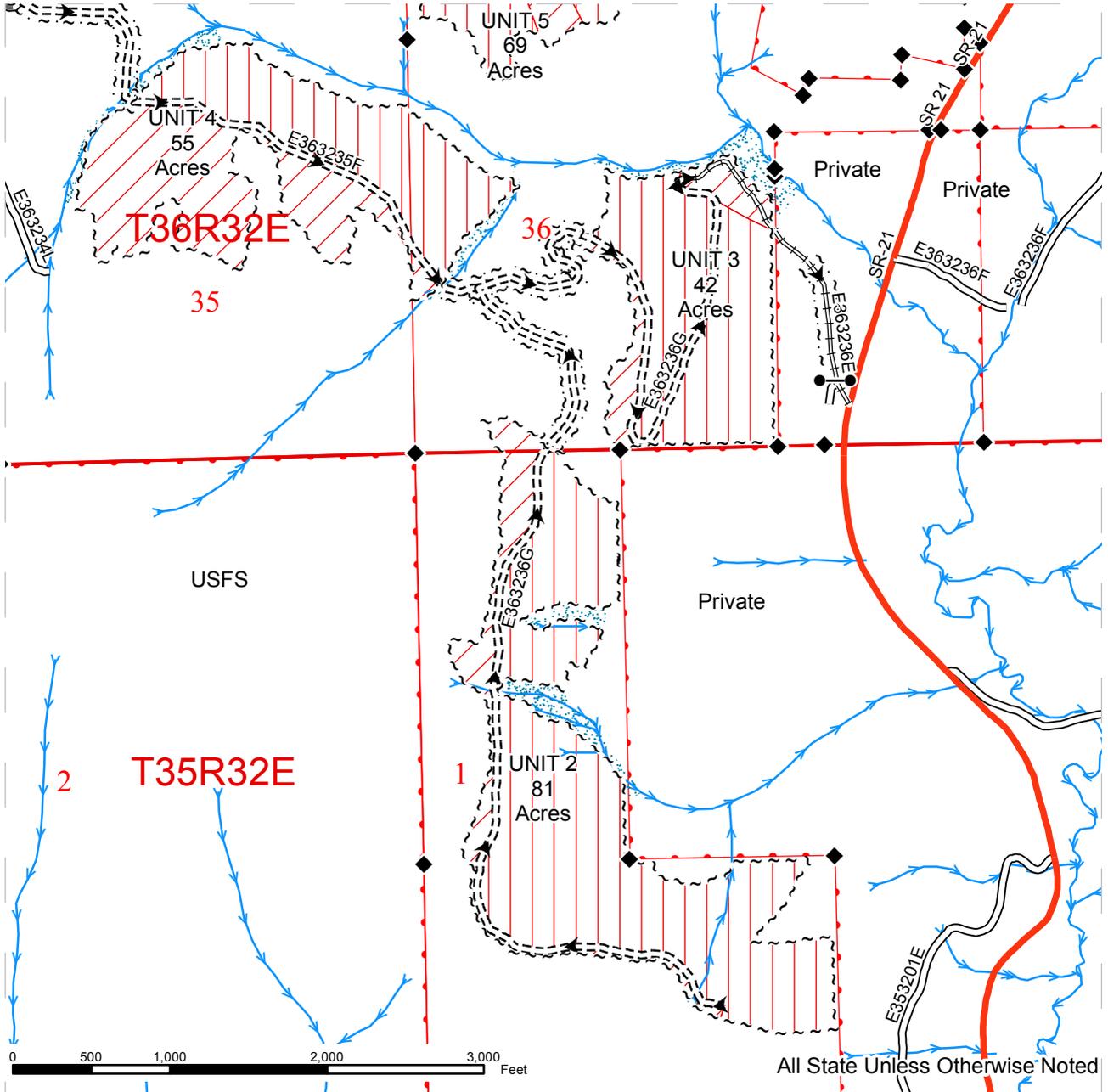
~ ~ ~ Special Management Unit Boundary Tags	— Highway	••• Riparian Management Zone
▭ Cable Yarding (283 Ac)	— County	— Streams
▨ Ground Skidding	— Existing	◆ Monumented Corners
~ ~ ~ Right of Way (6 Ac)	— Pre Haul Maintenance	● Gate
	— Required Construction	✕ Fence
	— Required Reconstruction	
	▶ Haul Route	



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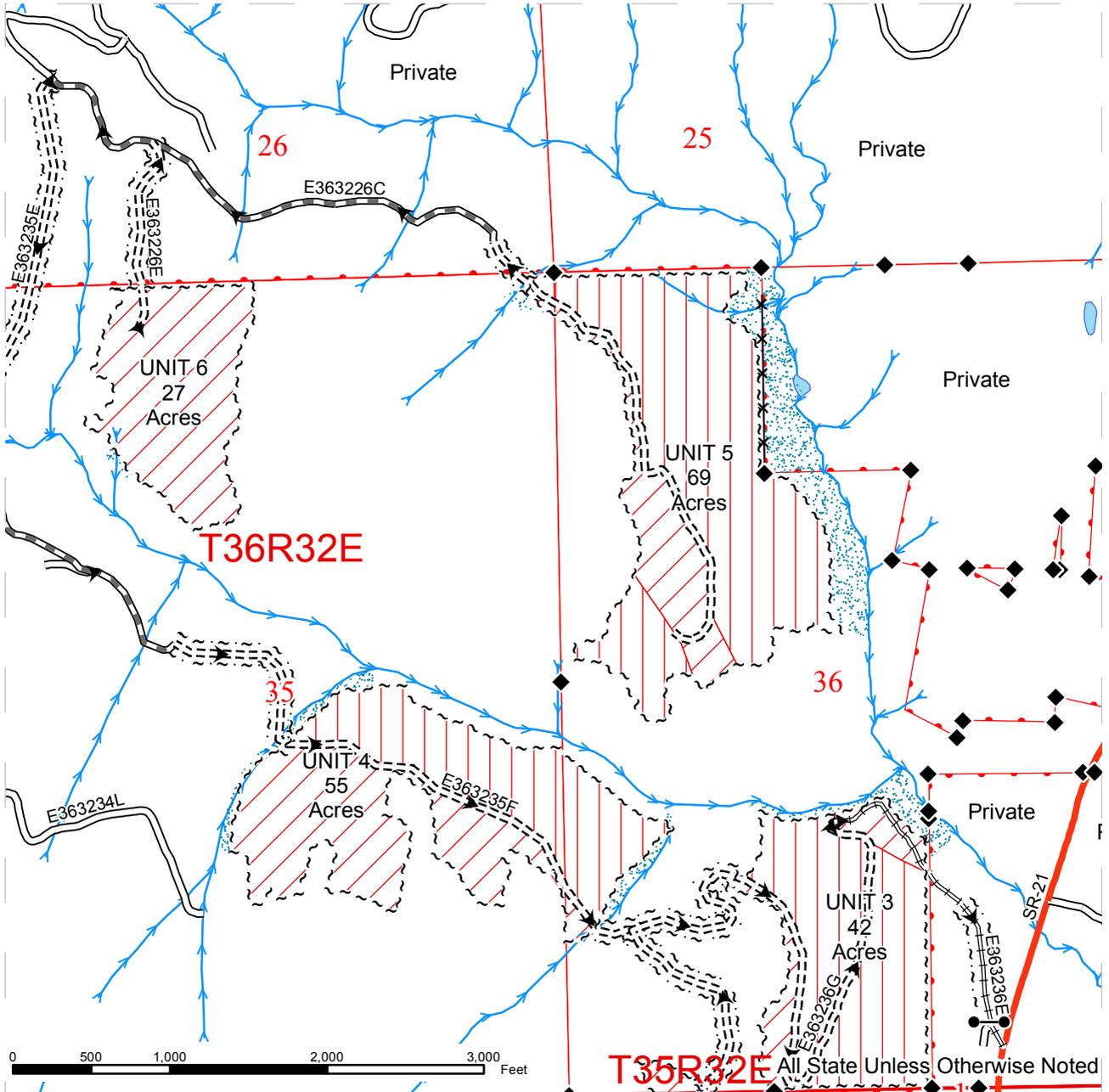


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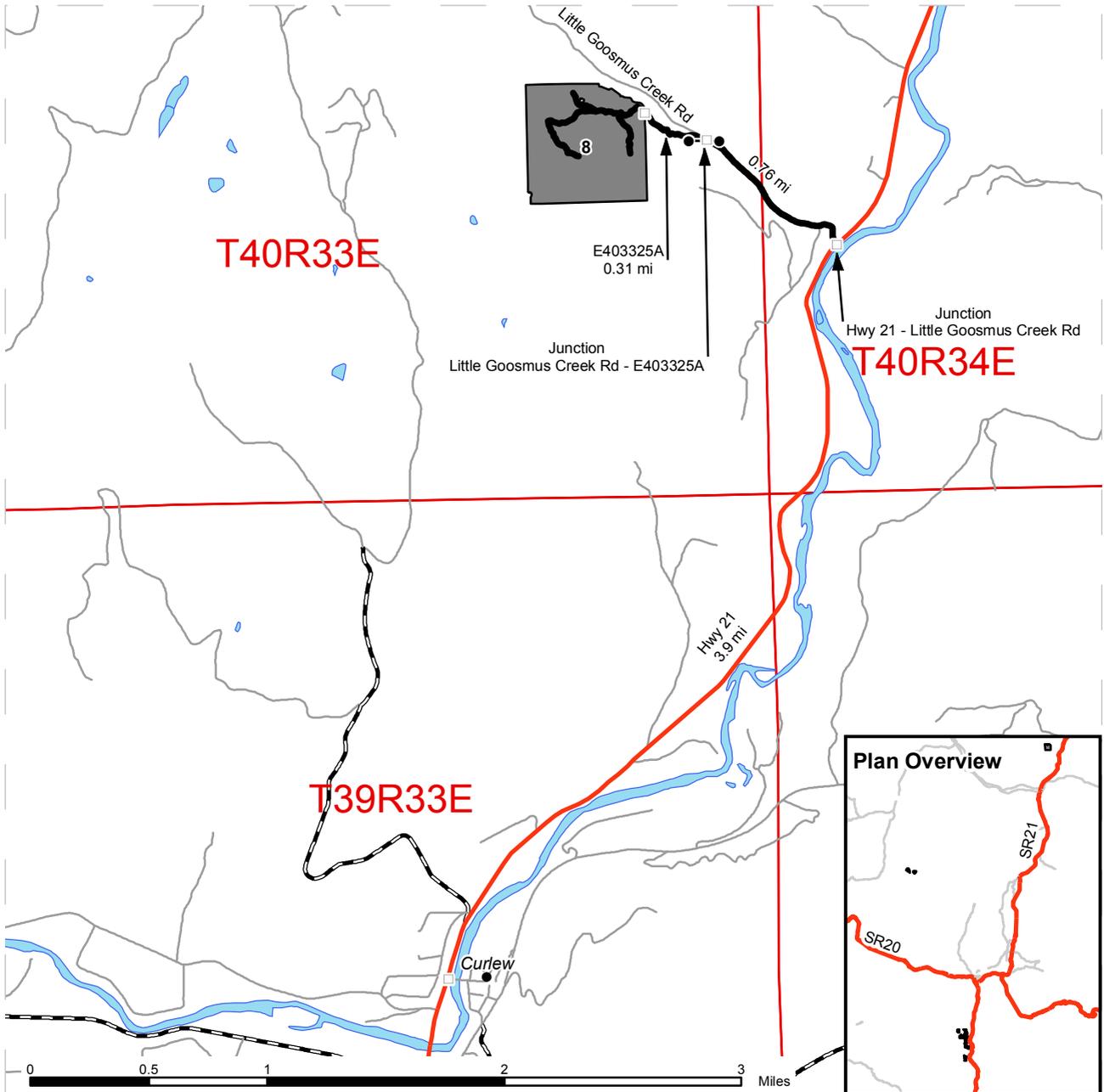


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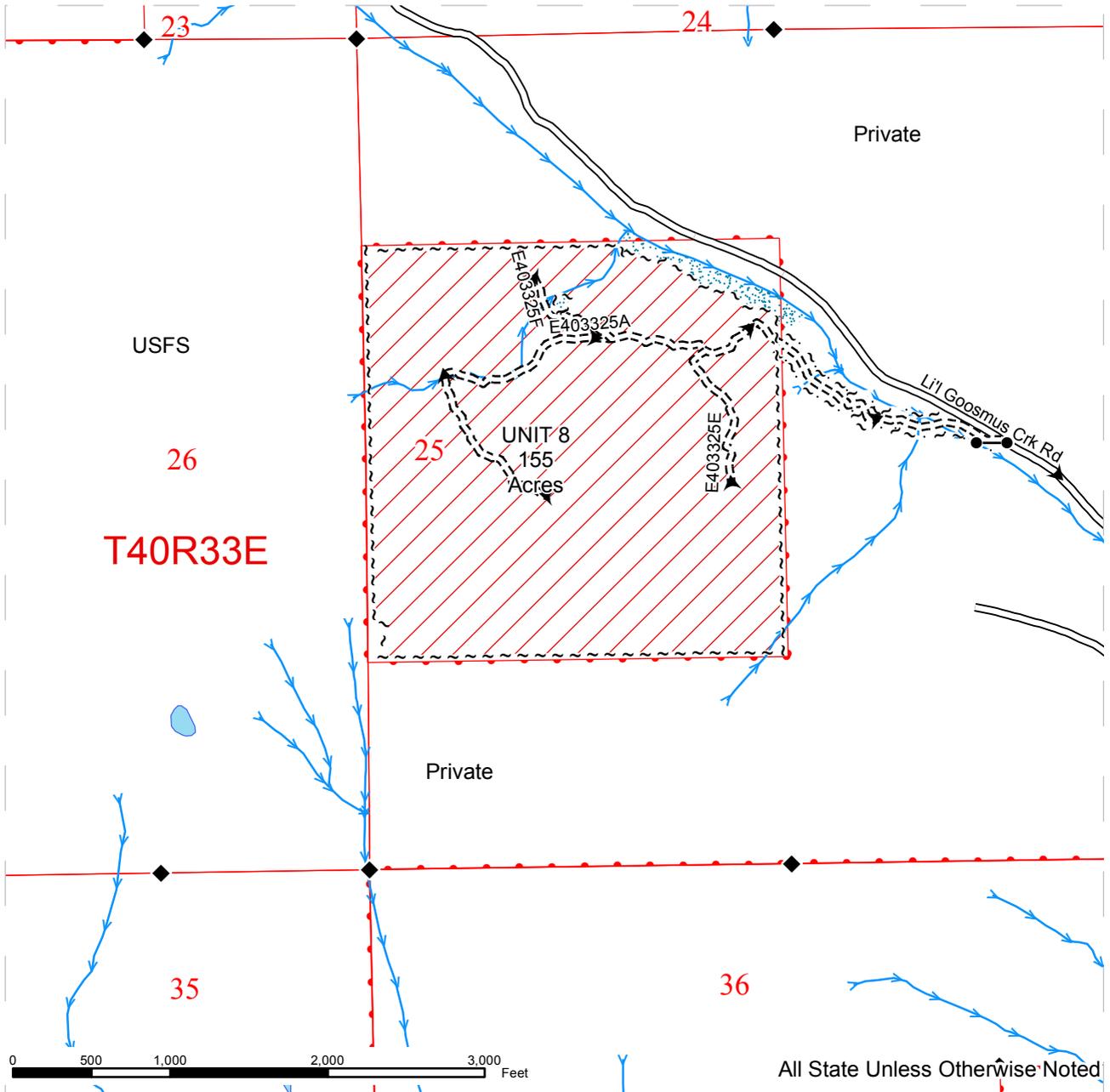
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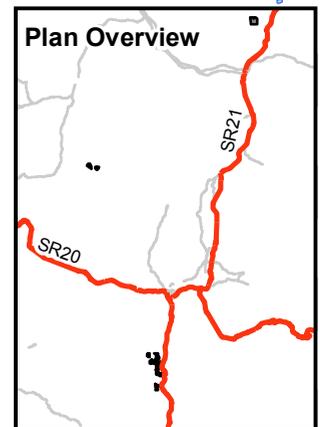
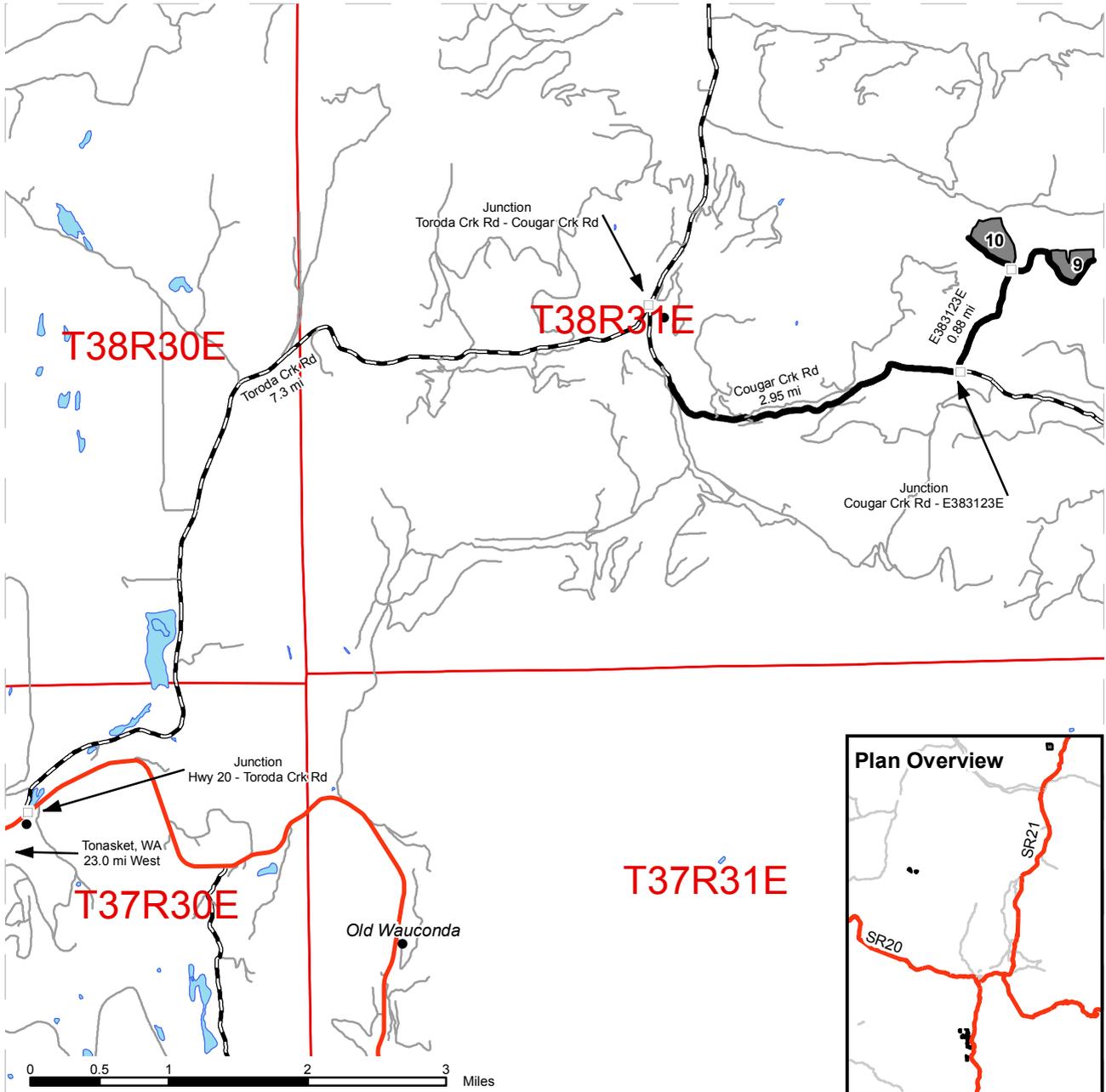
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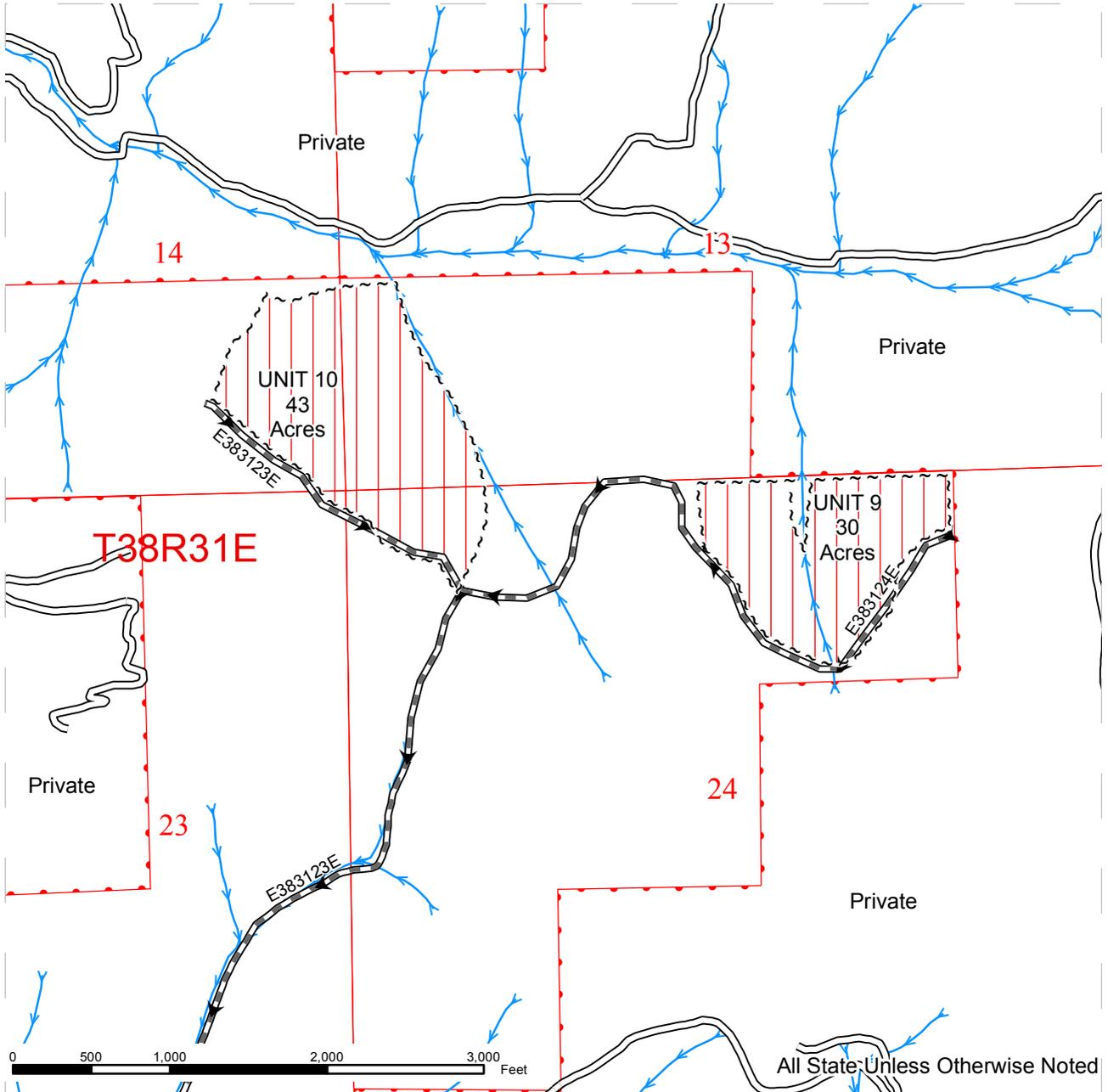
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**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
LOG SALE AND PURCHASE CONTRACT
AGREEMENT NO. 30-092131**

SALE NAME: GOLDEN HALO FH FIT SORT #01

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 April 28, 2015 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 GOLDEN HALO FH FIT Timber Sale described as parts of Sections 1, and 12 all in Township 35 North, Range 32 East, Sections 26, 35, and 36 all in Township 36 North, Range 32 East, Sections 13, 14, 23, and 24 all in Township 38 North, Range 31 East, Section 25 in Township 40 North, Range 33 East W.M., in Ferry, and Okanogan 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:

Agreement No.	Sort #	Description	Destination
92131	1	DF/WL Sawlogs/peelers 11" + 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.

Agreement No.	Sort #	Scaling Rule
92131	01	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) "B" log sort will have sound tight knots not to exceed 1½ inch in diameter. May include logs with not more than two larger knots up to 2½ inch in diameter. 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 10 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.

G-030.2 Contract Term and Expiration Date

Purchaser agrees to accept and pay for forest products delivered through the period ending December 31, 2015.

G-050.2 Contract Term Extension

Contract extensions and any other conditions subject to the extension as agreed to by the Purchaser and State, must be formalized in writing, signed by Purchaser and State.

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 SFI 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-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.

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 Mismanufacture 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.

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 also agrees to pay for all scaling costs for logs delivered on a scale basis.

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 30 days.

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 24 hours 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-010.1 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions 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 Contractor by allowing the Contractor 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:

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

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 _____

Schedule A
Harvest Prescriptions and Sort Specifications

Schedule A
Harvest Prescriptions and Sort Specifications

I. Harvest Prescriptions

1. All persons engaged in the felling of timber and manufacturing of logs or poles must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that take tree selection, log utilization, or manufacturing has been performed in a manner that does not achieve silvicultural objectives, optimize value, or otherwise causes damage to the state.

2. Unit boundaries are marked by pink flagging and blue "Special Management Unit Boundary" tags with orange flashers. Unit-external right-of-way boundaries are marked by orange "Right-of-Way" tags with orange flashers, and the road centerline is flagged with orange ribbon. Property lines are marked by pink AND yellow flagging, and blue "Special Management Unit Boundary" tags with orange flashers. Leave tree areas are marked by yellow "Leave Tree Area" tags, and pink ribbon with orange flashers.

3. Follow the prescribed cutting instructions according to the unit which is being harvested.

4. Harvest all green timber that is not described as being a leave tree, capable of at least yielding a log with a 4.6 inch small end DIB and is at least 12 feet long.

5. Leave trees will exhibit a healthy crown, vigorous growth, and be free (as practicable) of disease and or insects. Due to the distribution of natural openings, rock outcrops and the clumped and widely distributed nature of the stands, spacing can be widened. The irregular availability of quality leave trees and clumped nature of merchantable trees may result in spacing distances greater than 100 feet or less than those described for individual unit target spacing indicated in #6 part IV below. If trees with dwarf mistletoe must be retained, priority shall be placed on trees with infection in the lower 1/4 of the live crown. Harvested openings shall not create voids of greater than 400 feet between leave trees.

6. Adhere to the following leave tree requirements:

I. Retain an average of 2 wildlife recruitment trees (WRTs) per acre from the largest available preferring snags or defective and damaged trees when available on-site provided it safe to do so.

II. Leave a minimum of 6 trees per acre (85 feet x 85 feet) of the largest available. This is an over-all unit average. Trees may be clumped or scattered.

III. Species to leave in order of preference, unless otherwise specified in unit prescriptions are:

- ponderosa pine (leave all)
- Engelmann spruce
- Douglas fir (Hawksworth rating less than 2)
- western larch (Hawksworth rating less than 2)
- lodgepole pine

The above meets or exceeds the requirements of the following: Washington State Forest Practices Rules Chapter 222-30; and Washington State Department of Natural Resources PR14-006-091, "Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington)".

Unit 5: Total net acres 69:

The management prescription for these five units will be an even-aged harvest targeting suppressed and diseased trees in the midstory and overstory cohorts for removal. Leave trees identified above in instructions #6 (I, II, and III) will be derived from the 100+ year old overstory cohort when available.

- Leave trees for the overstory-cohort will be selected from the healthiest, most vigorous conifer trees giving preference to following species in the order they are listed; PP, ES, DF, WL then LPP. Approximately 6 trees per acre of the largest trees available and shall be greater than 10 inches in DBH will be left.
- Leave all ponderosa pine.
- The target average leave tree spacing for this unit will be 85 feet by 85 feet.
- An emphasis will be placed on removing trees that have high defect and poor form and removing trees that have disease/insect damage.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 6: Total net acres 27:

- Remove all green conifer species not marked with blue paint inside of blue "Special Management Unit Boundary" tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 8: Total net acres 155:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- WL marked with an “L” in blue paint will be left during harvest, but cut and left on site during whip felling.
- All non-merchantable stems shall be felled concurrently with harvest operations, areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 9: Total net acres 30:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Unit 10: Total net acres 43:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Right of Way Units: Total net acres 6

- Remove all timber within orange “Right-of-way Boundary” tags as per associated road plan (dated July 16, 2014).

Special Remarks:

Sale will be 53% cable yarded and 43% ground based skidding. Feller bunchers or hand felling may be used depending on operability.

II. Sort Specifications

Sort 01: Douglas fir and western larch sawlogs and peelers 11 inches and greater diameter inside bark.

- If Purchaser designates the logs to be peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.
- If the Purchaser designates the logs to be sawlogs, then all Douglas fir and western larch sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 02: Douglas fir and western larch sawlogs and peelers 7 inches to 10 inches diameter inside bark.

- If Purchaser designates the logs to be Peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.

- If the Purchaser designates the logs to be Sawlogs, then all Douglas fir and western larch Sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 03: All conifer species, except ponderosa pine, Chip & Saw logs 5 inches to 6 inches diameter inside bark.

Sort 04: Alpine fir, Engelmann spruce, lodgepole pine, Douglas fir and western larch sawlogs 7 inches and greater diameter inside bark.

-See Sort(s) 01 and 02 for handling procedures for Douglas fir and western larch.

Sort 05: All conifer species Utility logs 2" and greater diameter inside bark.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
LOG SALE AND PURCHASE CONTRACT
AGREEMENT NO. 30-092132**

SALE NAME: GOLDEN HALO FH FIT SORT #02

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 April 28, 2015 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 GOLDEN HALO FH FIT Timber Sale described as parts of Sections 1, and 12 all in Township 35 North, Range 32 East, Sections 26, 35, and 36 all in Township 36 North, Range 32 East, Sections 13, 14, 23, and 24 all in Township 38 North, Range 31 East, Section 25 in Township 40 North, Range 33 East W.M., in Ferry, and Okanogan 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:

Agreement No.	Sort #	Description	Destination
92132	2	DF/WL Sawlogs/peelers 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.

Agreement No.	Sort #	Scaling Rule
92132	02	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) "B" log sort will have sound tight knots not to exceed 1½ inch in diameter. May include logs with not more than two larger knots up to 2½ inch in diameter. 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 10 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.

G-030.2 Contract Term and Expiration Date

Purchaser agrees to accept and pay for forest products delivered through the period ending December 31, 2015.

G-050.2 Contract Term Extension

Contract extensions and any other conditions subject to the extension as agreed to by the Purchaser and State, must be formalized in writing, signed by Purchaser and State.

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 SFI 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-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 DATA MISSING% 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.

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 Mismanufacture 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.

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 also agrees to pay for all scaling costs for logs delivered on a scale basis.

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 30 days.

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 24 hours 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-010.1 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions 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 Contractor by allowing the Contractor 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:

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

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 _____

Schedule A
Harvest Prescriptions and Sort Specifications

Schedule A
Harvest Prescriptions and Sort Specifications

I. Harvest Prescriptions

1. All persons engaged in the felling of timber and manufacturing of logs or poles must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that take tree selection, log utilization, or manufacturing has been performed in a manner that does not achieve silvicultural objectives, optimize value, or otherwise causes damage to the state.

2. Unit boundaries are marked by pink flagging and blue "Special Management Unit Boundary" tags with orange flashers. Unit-external right-of-way boundaries are marked by orange "Right-of-Way" tags with orange flashers, and the road centerline is flagged with orange ribbon. Property lines are marked by pink AND yellow flagging, and blue "Special Management Unit Boundary" tags with orange flashers. Leave tree areas are marked by yellow "Leave Tree Area" tags, and pink ribbon with orange flashers.

3. Follow the prescribed cutting instructions according to the unit which is being harvested.

4. Harvest all green timber that is not described as being a leave tree, capable of at least yielding a log with a 4.6 inch small end DIB and is at least 12 feet long.

5. Leave trees will exhibit a healthy crown, vigorous growth, and be free (as practicable) of disease and or insects. Due to the distribution of natural openings, rock outcrops and the clumped and widely distributed nature of the stands, spacing can be widened. The irregular availability of quality leave trees and clumped nature of merchantable trees may result in spacing distances greater than 100 feet or less than those described for individual unit target spacing indicated in #6 part IV below. If trees with dwarf mistletoe must be retained, priority shall be placed on trees with infection in the lower 1/4 of the live crown. Harvested openings shall not create voids of greater than 400 feet between leave trees.

6. Adhere to the following leave tree requirements:

I. Retain an average of 2 wildlife recruitment trees (WRTs) per acre from the largest available preferring snags or defective and damaged trees when available on-site provided it safe to do so.

II. Leave a minimum of 6 trees per acre (85 feet x 85 feet) of the largest available. This is an over-all unit average. Trees may be clumped or scattered.

III. Species to leave in order of preference, unless otherwise specified in unit prescriptions are:

- ponderosa pine (leave all)
- Engelmann spruce
- Douglas fir (Hawksworth rating less than 2)
- western larch (Hawksworth rating less than 2)
- lodgepole pine

The above meets or exceeds the requirements of the following: Washington State Forest Practices Rules Chapter 222-30; and Washington State Department of Natural Resources PR14-006-091, "Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington)".

Unit 5: Total net acres 69:

The management prescription for these five units will be an even-aged harvest targeting suppressed and diseased trees in the midstory and overstory cohorts for removal. Leave trees identified above in instructions #6 (I, II, and III) will be derived from the 100+ year old overstory cohort when available.

- Leave trees for the overstory-cohort will be selected from the healthiest, most vigorous conifer trees giving preference to following species in the order they are listed; PP, ES, DF, WL then LPP. Approximately 6 trees per acre of the largest trees available and shall be greater than 10 inches in DBH will be left.
- Leave all ponderosa pine.
- The target average leave tree spacing for this unit will be 85 feet by 85 feet.
- An emphasis will be placed on removing trees that have high defect and poor form and removing trees that have disease/insect damage.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 6: Total net acres 27:

- Remove all green conifer species not marked with blue paint inside of blue "Special Management Unit Boundary" tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 8: Total net acres 155:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- WL marked with an “L” in blue paint will be left during harvest, but cut and left on site during whip felling.
- All non-merchantable stems shall be felled concurrently with harvest operations, areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 9: Total net acres 30:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Unit 10: Total net acres 43:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Right of Way Units: Total net acres 6

- Remove all timber within orange “Right-of-way Boundary” tags as per associated road plan (dated July 16, 2014).

Special Remarks:

Sale will be 53% cable yarded and 43% ground based skidding. Feller bunchers or hand felling may be used depending on operability.

II. Sort Specifications

Sort 01: Douglas fir and western larch sawlogs and peelers 11 inches and greater diameter inside bark.

- If Purchaser designates the logs to be peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.
- If the Purchaser designates the logs to be sawlogs, then all Douglas fir and western larch sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 02: Douglas fir and western larch sawlogs and peelers 7 inches to 10 inches diameter inside bark.

- If Purchaser designates the logs to be Peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.

- If the Purchaser designates the logs to be Sawlogs, then all Douglas fir and western larch Sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 03: All conifer species, except ponderosa pine, Chip & Saw logs 5 inches to 6 inches diameter inside bark.

Sort 04: Alpine fir, Engelmann spruce, lodgepole pine, Douglas fir and western larch sawlogs 7 inches and greater diameter inside bark.

-See Sort(s) 01 and 02 for handling procedures for Douglas fir and western larch.

Sort 05: All conifer species Utility logs 2" and greater diameter inside bark.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

LOG SALE AND PURCHASE CONTRACT

AGREEMENT NO. 30-092133

SALE NAME: GOLDEN HALO FH 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 April 28, 2015 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 GOLDEN HALO FH FIT Timber Sale described as parts of Sections 1, and 12 all in Township 35 North, Range 32 East, Sections 26, 35, and 36 all in Township 36 North, Range 32 East, Sections 13, 14, 23, and 24 all in Township 38 North, Range 31 East, Section 25 in Township 40 North, Range 33 East W.M., in Ferry, and Okanogan 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:

Agreement No.	Sort #	Description	Destination
92133	3	Chip & Saw 5-6" dib All species except PP	

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.

Agreement No.	Sort #	Scaling Rule
92133	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) "B" log sort will have sound tight knots not to exceed 1½ inch in diameter. May include logs with not more than two larger knots up to 2½ inch in diameter. 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 10 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.

G-030.2 Contract Term and Expiration Date

Purchaser agrees to accept and pay for forest products delivered through the period ending December 31, 2015.

G-050.2 Contract Term Extension

Contract extensions and any other conditions subject to the extension as agreed to by the Purchaser and State, must be formalized in writing, signed by Purchaser and State.

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 SFI 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-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 DATA MISSING% 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.

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 Mismanufacture 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 DATA MISSING% 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.

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 also agrees to pay for all scaling costs for logs delivered on a scale basis.

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 30 days.

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 24 hours 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-010.1 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions 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 Contractor by allowing the Contractor 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:

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

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 _____

Schedule A
Harvest Prescriptions and Sort Specifications

Schedule A
Harvest Prescriptions and Sort Specifications

I. Harvest Prescriptions

1. All persons engaged in the felling of timber and manufacturing of logs or poles must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that take tree selection, log utilization, or manufacturing has been performed in a manner that does not achieve silvicultural objectives, optimize value, or otherwise causes damage to the state.

2. Unit boundaries are marked by pink flagging and blue “Special Management Unit Boundary” tags with orange flashers. Unit-external right-of-way boundaries are marked by orange “Right-of-Way” tags with orange flashers, and the road centerline is flagged with orange ribbon. Property lines are marked by pink AND yellow flagging, and blue “Special Management Unit Boundary” tags with orange flashers. Leave tree areas are marked by yellow “Leave Tree Area” tags, and pink ribbon with orange flashers.

3. Follow the prescribed cutting instructions according to the unit which is being harvested.

4. Harvest all green timber that is not described as being a leave tree, capable of at least yielding a log with a 4.6 inch small end DIB and is at least 12 feet long.

5. Leave trees will exhibit a healthy crown, vigorous growth, and be free (as practicable) of disease and or insects. Due to the distribution of natural openings, rock outcrops and the clumped and widely distributed nature of the stands, spacing can be widened. The irregular availability of quality leave trees and clumped nature of merchantable trees may result in spacing distances greater than 100 feet or less than those described for individual unit target spacing indicated in #6 part IV below. If trees with dwarf mistletoe must be retained, priority shall be placed on trees with infection in the lower 1/4 of the live crown. Harvested openings shall not create voids of greater than 400 feet between leave trees.

6. Adhere to the following leave tree requirements:

I. Retain an average of 2 wildlife recruitment trees (WRTs) per acre from the largest available preferring snags or defective and damaged trees when available on-site provided it safe to do so.

II. Leave a minimum of 6 trees per acre (85 feet x 85 feet) of the largest available. This is an over-all unit average. Trees may be clumped or scattered.

III. Species to leave in order of preference, unless otherwise specified in unit prescriptions are:

- ponderosa pine (leave all)
- Engelmann spruce
- Douglas fir (Hawksworth rating less than 2)
- western larch (Hawksworth rating less than 2)
- lodgepole pine

The above meets or exceeds the requirements of the following: Washington State Forest Practices Rules Chapter 222-30; and Washington State Department of Natural Resources PR14-006-091, "Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington)".

Unit 5: Total net acres 69:

The management prescription for these five units will be an even-aged harvest targeting suppressed and diseased trees in the midstory and overstory cohorts for removal. Leave trees identified above in instructions #6 (I, II, and III) will be derived from the 100+ year old overstory cohort when available.

- Leave trees for the overstory-cohort will be selected from the healthiest, most vigorous conifer trees giving preference to following species in the order they are listed; PP, ES, DF, WL then LPP. Approximately 6 trees per acre of the largest trees available and shall be greater than 10 inches in DBH will be left.
- Leave all ponderosa pine.
- The target average leave tree spacing for this unit will be 85 feet by 85 feet.
- An emphasis will be placed on removing trees that have high defect and poor form and removing trees that have disease/insect damage.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 6: Total net acres 27:

- Remove all green conifer species not marked with blue paint inside of blue "Special Management Unit Boundary" tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 8: Total net acres 155:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- WL marked with an “L” in blue paint will be left during harvest, but cut and left on site during whip felling.
- All non-merchantable stems shall be felled concurrently with harvest operations, areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 9: Total net acres 30:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Unit 10: Total net acres 43:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Right of Way Units: Total net acres 6

- Remove all timber within orange “Right-of-way Boundary” tags as per associated road plan (dated July 16, 2014).

Special Remarks:

Sale will be 53% cable yarded and 43% ground based skidding. Feller bunchers or hand felling may be used depending on operability.

II. Sort Specifications

Sort 01: Douglas fir and western larch sawlogs and peelers 11 inches and greater diameter inside bark.

- If Purchaser designates the logs to be peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.
- If the Purchaser designates the logs to be sawlogs, then all Douglas fir and western larch sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 02: Douglas fir and western larch sawlogs and peelers 7 inches to 10 inches diameter inside bark.

- If Purchaser designates the logs to be Peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.

- If the Purchaser designates the logs to be Sawlogs, then all Douglas fir and western larch Sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 03: All conifer species, except ponderosa pine, Chip & Saw logs 5 inches to 6 inches diameter inside bark.

Sort 04: Alpine fir, Engelmann spruce, lodgepole pine, Douglas fir and western larch sawlogs 7 inches and greater diameter inside bark.

-See Sort(s) 01 and 02 for handling procedures for Douglas fir and western larch.

Sort 05: All conifer species Utility logs 2” and greater diameter inside bark.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
LOG SALE AND PURCHASE CONTRACT
AGREEMENT NO. 30-092134**

SALE NAME: GOLDEN HALO FH 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 April 28, 2015 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 GOLDEN HALO FH FIT Timber Sale described as parts of Sections 1, and 12 all in Township 35 North, Range 32 East, Sections 26, 35, and 36 all in Township 36 North, Range 32 East, Sections 13, 14, 23, and 24 all in Township 38 North, Range 31 East, Section 25 in Township 40 North, Range 33 East W.M., in Ferry, and Okanogan 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:

Agreement No.	Sort #	Description	Destination
92134	4	LP/ES/AF/WP and non-chuckable DF/WL Sawlogs 7"+ 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.

Agreement No.	Sort #	Scaling Rule
92134	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) "B" log sort will have sound tight knots not to exceed 1½ inch in diameter. May include logs with not more than two larger knots up to 2½ inch in diameter. 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 10 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.

G-030.2 Contract Term and Expiration Date

Purchaser agrees to accept and pay for forest products delivered through the period ending December 31, 2015.

G-050.2 Contract Term Extension

Contract extensions and any other conditions subject to the extension as agreed to by the Purchaser and State, must be formalized in writing, signed by Purchaser and State.

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 SFI 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-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 DATA MISSING% 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.

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 Mismanufacture 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 DATA MISSING% 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.

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 also agrees to pay for all scaling costs for logs delivered on a scale basis.

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 30 days.

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 24 hours 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-010.1 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions 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 Contractor by allowing the Contractor 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:

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

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 _____

Schedule A
Harvest Prescriptions and Sort Specifications

Schedule A
Harvest Prescriptions and Sort Specifications

I. Harvest Prescriptions

1. All persons engaged in the felling of timber and manufacturing of logs or poles must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that take tree selection, log utilization, or manufacturing has been performed in a manner that does not achieve silvicultural objectives, optimize value, or otherwise causes damage to the state.

2. Unit boundaries are marked by pink flagging and blue "Special Management Unit Boundary" tags with orange flashers. Unit-external right-of-way boundaries are marked by orange "Right-of-Way" tags with orange flashers, and the road centerline is flagged with orange ribbon. Property lines are marked by pink AND yellow flagging, and blue "Special Management Unit Boundary" tags with orange flashers. Leave tree areas are marked by yellow "Leave Tree Area" tags, and pink ribbon with orange flashers.

3. Follow the prescribed cutting instructions according to the unit which is being harvested.

4. Harvest all green timber that is not described as being a leave tree, capable of at least yielding a log with a 4.6 inch small end DIB and is at least 12 feet long.

5. Leave trees will exhibit a healthy crown, vigorous growth, and be free (as practicable) of disease and or insects. Due to the distribution of natural openings, rock outcrops and the clumped and widely distributed nature of the stands, spacing can be widened. The irregular availability of quality leave trees and clumped nature of merchantable trees may result in spacing distances greater than 100 feet or less than those described for individual unit target spacing indicated in #6 part IV below. If trees with dwarf mistletoe must be retained, priority shall be placed on trees with infection in the lower 1/4 of the live crown. Harvested openings shall not create voids of greater than 400 feet between leave trees.

6. Adhere to the following leave tree requirements:

I. Retain an average of 2 wildlife recruitment trees (WRTs) per acre from the largest available preferring snags or defective and damaged trees when available on-site provided it safe to do so.

II. Leave a minimum of 6 trees per acre (85 feet x 85 feet) of the largest available. This is an over-all unit average. Trees may be clumped or scattered.

III. Species to leave in order of preference, unless otherwise specified in unit prescriptions are:

- ponderosa pine (leave all)
- Engelmann spruce
- Douglas fir (Hawksworth rating less than 2)
- western larch (Hawksworth rating less than 2)
- lodgepole pine

The above meets or exceeds the requirements of the following: Washington State Forest Practices Rules Chapter 222-30; and Washington State Department of Natural Resources PR14-006-091, "Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington)".

Unit 5: Total net acres 69:

The management prescription for these five units will be an even-aged harvest targeting suppressed and diseased trees in the midstory and overstory cohorts for removal. Leave trees identified above in instructions #6 (I, II, and III) will be derived from the 100+ year old overstory cohort when available.

- Leave trees for the overstory-cohort will be selected from the healthiest, most vigorous conifer trees giving preference to following species in the order they are listed; PP, ES, DF, WL then LPP. Approximately 6 trees per acre of the largest trees available and shall be greater than 10 inches in DBH will be left.
- Leave all ponderosa pine.
- The target average leave tree spacing for this unit will be 85 feet by 85 feet.
- An emphasis will be placed on removing trees that have high defect and poor form and removing trees that have disease/insect damage.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 6: Total net acres 27:

- Remove all green conifer species not marked with blue paint inside of blue "Special Management Unit Boundary" tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 8: Total net acres 155:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- WL marked with an “L” in blue paint will be left during harvest, but cut and left on site during whip felling.
- All non-merchantable stems shall be felled concurrently with harvest operations, areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 9: Total net acres 30:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Unit 10: Total net acres 43:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Right of Way Units: Total net acres 6

- Remove all timber within orange “Right-of-way Boundary” tags as per associated road plan (dated July 16, 2014).

Special Remarks:

Sale will be 53% cable yarded and 43% ground based skidding. Feller bunchers or hand felling may be used depending on operability.

II. Sort Specifications

Sort 01: Douglas fir and western larch sawlogs and peelers 11 inches and greater diameter inside bark.

- If Purchaser designates the logs to be peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.
- If the Purchaser designates the logs to be sawlogs, then all Douglas fir and western larch sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 02: Douglas fir and western larch sawlogs and peelers 7 inches to 10 inches diameter inside bark.

- If Purchaser designates the logs to be Peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.

- If the Purchaser designates the logs to be Sawlogs, then all Douglas fir and western larch Sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 03: All conifer species, except ponderosa pine, Chip & Saw logs 5 inches to 6 inches diameter inside bark.

Sort 04: Alpine fir, Engelmann spruce, lodgepole pine, Douglas fir and western larch sawlogs 7 inches and greater diameter inside bark.

-See Sort(s) 01 and 02 for handling procedures for Douglas fir and western larch.

Sort 05: All conifer species Utility logs 2" and greater diameter inside bark.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

LOG SALE AND PURCHASE CONTRACT

AGREEMENT NO. 30-092135

SALE NAME: GOLDEN HALO FH FIT SORT #05

**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 April 28, 2015 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 GOLDEN HALO FH FIT Timber Sale described as parts of Sections 1, and 12 all in Township 35 North, Range 32 East, Sections 26, 35, and 36 all in Township 36 North, Range 32 East, Sections 13, 14, 23, and 24 all in Township 38 North, Range 31 East, Section 25 in Township 40 North, Range 33 East W.M., in Ferry, and Okanogan 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:

Agreement No.	Sort #	Description	Destination
92135	5	Utility Wood all species except WRC 2" and greater	

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.

Agreement No.	Sort #	Scaling Rule
92135	05	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.

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 10 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.

G-030.2 Contract Term and Expiration Date

Purchaser agrees to accept and pay for forest products delivered through the period ending December 31, 2015.

G-050.2 Contract Term Extension

Contract extensions and any other conditions subject to the extension as agreed to by the Purchaser and State, must be formalized in writing, signed by Purchaser and State.

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 SFI 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-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 DATA MISSING% 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.

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 Mismanufacture 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 DATA MISSING% 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.

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 also agrees to pay for all scaling costs for logs delivered on a scale basis.

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 30 days.

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 24 hours 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-010.1 Liquidated Damages**

The clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions 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 Contractor by allowing the Contractor 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:

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

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 _____

Schedule A
Harvest Prescriptions and Sort Specifications

Schedule A
Harvest Prescriptions and Sort Specifications

I. Harvest Prescriptions

1. All persons engaged in the felling of timber and manufacturing of logs or poles must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that take tree selection, log utilization, or manufacturing has been performed in a manner that does not achieve silvicultural objectives, optimize value, or otherwise causes damage to the state.

2. Unit boundaries are marked by pink flagging and blue "Special Management Unit Boundary" tags with orange flashers. Unit-external right-of-way boundaries are marked by orange "Right-of-Way" tags with orange flashers, and the road centerline is flagged with orange ribbon. Property lines are marked by pink AND yellow flagging, and blue "Special Management Unit Boundary" tags with orange flashers. Leave tree areas are marked by yellow "Leave Tree Area" tags, and pink ribbon with orange flashers.

3. Follow the prescribed cutting instructions according to the unit which is being harvested.

4. Harvest all green timber that is not described as being a leave tree, capable of at least yielding a log with a 4.6 inch small end DIB and is at least 12 feet long.

5. Leave trees will exhibit a healthy crown, vigorous growth, and be free (as practicable) of disease and or insects. Due to the distribution of natural openings, rock outcrops and the clumped and widely distributed nature of the stands, spacing can be widened. The irregular availability of quality leave trees and clumped nature of merchantable trees may result in spacing distances greater than 100 feet or less than those described for individual unit target spacing indicated in #6 part IV below. If trees with dwarf mistletoe must be retained, priority shall be placed on trees with infection in the lower 1/4 of the live crown. Harvested openings shall not create voids of greater than 400 feet between leave trees.

6. Adhere to the following leave tree requirements:

I. Retain an average of 2 wildlife recruitment trees (WRTs) per acre from the largest available preferring snags or defective and damaged trees when available on-site provided it safe to do so.

II. Leave a minimum of 6 trees per acre (85 feet x 85 feet) of the largest available. This is an over-all unit average. Trees may be clumped or scattered.

III. Species to leave in order of preference, unless otherwise specified in unit prescriptions are:

- ponderosa pine (leave all)
- Engelmann spruce
- Douglas fir (Hawksworth rating less than 2)
- western larch (Hawksworth rating less than 2)
- lodgepole pine

The above meets or exceeds the requirements of the following: Washington State Forest Practices Rules Chapter 222-30; and Washington State Department of Natural Resources PR14-006-091, "Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington)".

Unit 5: Total net acres 69:

The management prescription for these five units will be an even-aged harvest targeting suppressed and diseased trees in the midstory and overstory cohorts for removal. Leave trees identified above in instructions #6 (I, II, and III) will be derived from the 100+ year old overstory cohort when available.

- Leave trees for the overstory-cohort will be selected from the healthiest, most vigorous conifer trees giving preference to following species in the order they are listed; PP, ES, DF, WL then LPP. Approximately 6 trees per acre of the largest trees available and shall be greater than 10 inches in DBH will be left.
- Leave all ponderosa pine.
- The target average leave tree spacing for this unit will be 85 feet by 85 feet.
- An emphasis will be placed on removing trees that have high defect and poor form and removing trees that have disease/insect damage.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 6: Total net acres 27:

- Remove all green conifer species not marked with blue paint inside of blue "Special Management Unit Boundary" tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- All non-merchantable stems shall be felled concurrently with harvest operations in areas where ground based yarding techniques are to be used as designated on the Timber Sale Maps. Areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 8: Total net acres 155:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.
- WL marked with an “L” in blue paint will be left during harvest, but cut and left on site during whip felling.
- All non-merchantable stems shall be felled concurrently with harvest operations, areas of healthy regeneration may be excluded from whip felling as approved by the Contract Administrator.

Unit 9: Total net acres 30:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Unit 10: Total net acres 43:

- Remove all green conifer species not marked with blue paint inside of blue “Special Management Unit Boundary” tags, pink ribbon and orange flashers. Leave all ponderosa pine, all hardwood species and any snags that may be left safely standing.

Right of Way Units: Total net acres 6

- Remove all timber within orange “Right-of-way Boundary” tags as per associated road plan (dated July 16, 2014).

Special Remarks:

Sale will be 53% cable yarded and 43% ground based skidding. Feller bunchers or hand felling may be used depending on operability.

II. Sort Specifications

Sort 01: Douglas fir and western larch sawlogs and peelers 11 inches and greater diameter inside bark.

- If Purchaser designates the logs to be peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.
- If the Purchaser designates the logs to be sawlogs, then all Douglas fir and western larch sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 02: Douglas fir and western larch sawlogs and peelers 7 inches to 10 inches diameter inside bark.

- If Purchaser designates the logs to be Peeler logs, then chuckability standards apply to the logs. Non-chuckable logs will be delivered to the Sort 04 Purchaser.

- If the Purchaser designates the logs to be Sawlogs, then all Douglas fir and western larch Sawlogs will be delivered to the Purchaser of this sort and none will be delivered to the Purchaser of Sort 04.

Sort 03: All conifer species, except ponderosa pine, Chip & Saw logs 5 inches to 6 inches diameter inside bark.

Sort 04: Alpine fir, Engelmann spruce, lodgepole pine, Douglas fir and western larch sawlogs 7 inches and greater diameter inside bark.

-See Sort(s) 01 and 02 for handling procedures for Douglas fir and western larch.

Sort 05: All conifer species Utility logs 2" and greater diameter inside bark.

Golden Halo Cruise Narrative

Sale Name: Golden Halo	Region: Northeast
Agreement #: 30-091721	District: Highlands
Lead Cruiser: Dan Griggs	Completion date: 11/10/2014
Other Cruisers on sale: Nathan Simpkins All the units except units 6, 11 and 12 were contract cruised by Cougar Environmental	Legal: Sections 1 & 12, T 35 N, R 32 E; Sections 26, 35 & 36, T 36 N, R 32 E; Sections 13, 14, 23, and 24, T 38 N, R 31 E; Section 25, T 40 N, R 33 E; WM.

Unit Acreage Specifications:

Unit#	Gross Acres	Net Acres	List deletions for each unit.
1	28.66	27.46	Leave tree area - 1.2 Acres
2	80.74	80.74	
3	41.87	41.87	
4	55.08	55.08	
5	69.15	69.15	
6	27.19	27.19	
7	8.55	8.55	
8	154.81	154.81	
9	30.56	29.56	Existing Road - 1 Acre
10	44.36	43.36	Existing Road - 1 Acre
RW11	4.58	4.58	
RW12	1.02	1.02	
Total	546.57	543.37	Existing Roads - 2 Acres Leave Tree Area - 1.2 Acres

Cruise Specifications:

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 (D4H, or 16')	Grid size (plot spacing in feet)	% Cruise to count Target	% Cruise to count Actual	Total number of plots
1		33.61	D4H	280x280	100%	100%	22
2		20	D4H	280x280	100%	100%	52
3		20	D4H	280x280	100%	100%	28
4		33.61	D4H	280x280	100%	100%	30
5		33.61	D4H	280x280	100%	100%	37
6	27.78	80.28	D4H	280x280	30%	33%	18
7		33.61	D4H	280x280	100%	100%	4
8		25.15	D4H	280x280	100%	100%	59
9		27.78	D4H	280x280	100%	100%	24
10		27.78	D4H	280x280	100%	100%	32
RW11		27.78	D4H	530x530	100%	100%	8
RW12		100%	D4H		100%	100%	1
Total						86.9%	317

Sale / Cruise Description:

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 cruise specifications:	<p>Ponderosa pine: 8.0" to 17.5" DBH has minimum top of 6" dob. 17.6" and greater DBH measured height to 40% of DOB at 16' or a 6" top whichever is greater.</p> <p>All other species: 7.0" – 17.5" DBH has minimum top of 5" dob. 17.6" and greater DBH measured height to 40% of DOB at 16' or a 6" top whichever is greater.</p> <p>Utility Wood: Comprised of non-board foot volume and volume below the minimum top diameter of 5" or 40% of DOB at 16' to a minimum of a 2.6" top.</p>

Take /leave tree Description:	This timber sale is a prescriptive cut which varies by unit, see Schedule A for details. Harvest all green conifers that meet the minimum cruise specifications and are not banded with blue paint. Remove all timber within the orange right of way tags.
Other conditions:	All timber was graded in 32 foot segments with the Scaling Bureaus Eastside / Northwest log rules. Leave trees can be identified in the cruise data by an "L" in the status column. No volume was given for snags, but they can be identified in the cruise data by an "S" in the status column. The utility wood was given a board foot volume.

Field Observations:

Golden Halo Timber Sale	
Location: Units 1 through 7 are in Southern Ferry County, 5 miles South of Republic; Unit 8 is in Northern Ferry County, 4.5 miles North of Curlew; Units 9 & 10 are in Eastern Okanogan County, 24.5 miles Northwest of Republic, Washington.	
Aspect: North, South, East, and West	
Elevation: 2,400 to 4,800 feet	
Slope:	
Unit 1 - 0% to 75% average 55%	
Unit 2 - 0% to 70% average 33%	
Unit 3 - 0% to 75% average 38%	
Unit 4 - 0% to 70% average 44%	
Unit 5 - 0% to 55% average 40%	
Unit 6 - 0% to 70% average 30%	
Unit 7 - 0% to 35% average 28%	
Unit 8 - 0% to 35% average 40%	
Unit 9 - 0% to 65% average 45%	
Unit 10 - 0% to 65% average 40%	
Harvesting methods:	
Units 1 through 10- About half of the sale acreage can be harvested by ground based methods and the other half will require uphill cable yarding.	
Stand composition:	
The stands are second growth Douglas-fir and western larch with larger residual trees. There is a minor component of Engelmann spruce, lodgepole pine, and ponderosa pine.	
Stand health:	
There is light bark beetle activity in the ponderosa pine.	
The Douglas-fir has a light mistletoe problem.	
The western larch has a light mistletoe problem.	
There are scattered small patches of root rot.	

Timber quality:

The timber is a mix of average quality Douglas-fir (76.7%) and western larch (20.7%). The Engelmann spruce (1.7%), lodgepole pine (0.7%), and ponderosa pine (0.2%) are of average quality. These percentages were derived from the net volume that is scheduled to be removed.

Non-board foot volume:

Of the 6,119MBF scheduled to be removed on this timber sale, 421MBF consists of utility wood.

Other considerations:

The stand density is highly variable ranging from brushy areas with widely spaced trees to draws with dense stands of timber.

Unit #	Based on Volume	Based on Acres	
	Trust 03 Vol. MBF	Ferry Co.	Okanogan Co.
1	357	27.46	
2	588	80.74	
3	397	41.87	
4	853	55.08	
5	996	69.15	
6	439	27.19	
7	143	8.55	
8	1,769	154.81	
9	215		29.56
10	314		43.36
RW11	45	4.58	
RW12	1	1.02	
Total	6117	470.45	72.92
% of Total	100%	86.58%	13.42%

Grants: 03

Prepared by: Nathan Simpkins

Title: Natural Resource Specialist 1

CC: Timber Sales Document Center & File #30-091721

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
T35N R32E S01 Ty00U2 THRU T40N R33E S25 Ty00U8				Project: GOLDHALO											Page 1							
				Acres 543.37											Date 12/8/2014							
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						
DF	D	2		26	10.2	2,558	2,297	1,248			77	23		99	1			16	14	109	1.32	21.0
DF	D	3		23	9.7	2,224	2,008	1,091		81	18	1		99	1	0		16	11	60	0.73	33.3
DF	D	4		43	7.1	4,008	3,722	2,023	14	85	0			99	1			16	7	26	0.34	145.5
DF	U	UT		8	6.7	659	615	334	91	9	0			92	8			16	4	10	0.14	60.9
DF Totals				65	8.5	9,449	8,642	4,696	13	56	25	6		99	1	0		16	7	33	0.42	260.7
DF	L	D	2	73	2.2	993	972	528			39	61		100				16	16	173	1.90	5.6
DF	L	D	3	16	.8	215	213	116		36	42	22		100				16	12	99	1.09	2.2
DF	L	D	4	7		91	91	50	1	71	17	12		100				16	9	43	0.61	2.1
DF	L	U	UT	4	5.7	54	51	28	20	31	30	20		98	2			15	6	31	0.47	1.7
DF Totals				10	1.9	1,354	1,327	721	1	12	38	50		100	0			16	13	115	1.31	11.5
WL	D	2		38	2.4	930	908	493			73	27		100	0			16	14	123	1.36	7.4
WL	D	3		24	1.7	548	539	293		78	21	1		99	1	0		16	11	67	0.73	8.1
WL	D	4		32	6.6	817	763	414	9	90	1	1		100	0			16	7	28	0.36	27.3
WL	U	UT		6	.5	123	123	67	80	7	13			98	2			16	4	13	0.17	9.5
WL Totals				17	3.6	2,418	2,332	1,267	7	48	34	11		100	0	0		16	8	45	0.52	52.3
WL	L	D	1	12	3.6	40	38	21				100		100				16	32	707	7.06	.1
WL	L	D	2	73	2.2	233	228	124			35	65		100				16	17	185	1.88	1.2
WL	L	D	3	8		25	25	14		19	54	27		100				16	13	102	1.11	.2
WL	L	D	4	5	3.2	15	15	8		77	23			100				16	9	42	0.61	.4
WL	L	U	UT	2		4	4	2	28	72				61	39			18	5	26	0.33	.1
WL Totals				2	2.2	317	310	168	0	6	31	63		100	0			16	15	153	1.59	2.0
PP	L	D	2	6	.0	30	30	16				100		100				16	27	558	4.68	.1
PP	L	D	4	62	3.6	314	303	164			45	55		100				16	16	156	1.69	1.9
PP	L	D	5	31	1.5	157	154	84		65	22	13		99	1			16	9	54	0.69	2.9
PP	L	U	UT	1		1	1	1		100				100				16	7	29	0.51	.0
PP Totals				4	2.7	501	488	265		21	35	45		100	0			16	12	100	1.13	4.9
LP	D	3		16		14	14	7			100			100				16	12	80	1.09	.2
LP	D	4		69	10.7	64	57	31	17	83				100				16	7	28	0.36	2.1
LP	U	UT		15		12	12	7	100					100				15	4	12	0.13	1.1
LP Totals				1	7.6	90	83	45	27	57	16			100				16	6	25	0.33	3.3
ES	D	2		23	10.8	51	45	25			71	29		100				16	15	142	1.63	.3
ES	D	3		19	16.8	42	35	19		16	23	61		100				16	14	116	1.16	.3
ES	D	4		44	3.4	87	84	46	2	95	3			100				16	7	28	0.36	3.0
ES	U	UT		14	3.6	26	25	13	100					100				16	4	12	0.14	2.1
ES Totals				1	8.0	205	189	103	14	45	23	18		100				16	7	33	0.39	5.7
Totals					6.7	14,334	13,370	7,265	10	48	28	14		99	1	0		16	8	39	0.48	340.5

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT GOLDHALO							DATE	12/8/2014	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
35N 40N	32E 33E	01 25	GOLDEN GOLDEN HALO	00U2 00U8	THR	543.37	297	1,102	S	E	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			297	1102	3.7						
CRUISE			250	958	3.8	57,353	1.7				
DBH COUNT											
REFOREST											
COUNT			36	80	2.2						
BLANKS											
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
DOUG FIR		602	78.2	12.5	69	18.8	66.2	9,449	8,642	1,891	1,768
DOUG FIR-L		81	2.2	23.6	83	1.4	6.7	1,354	1,327	241	241
DOUG FIR-S		62	5.7	14.2	48	1.7	6.3				
W LARCH		116	11.8	14.0	88	3.4	12.7	2,418	2,332	448	438
W LARCH-L		11	.3	27.0	113	0.2	1.2	317	310	52	52
W LARCH-S		33	2.9	15.5	74	1.0	3.8				
P PINE-L		31	1.2	20.8	81	0.6	2.9	501	488	88	88
P PINE-S		7	.3	18.2	58	0.1	.5				
E SPRUCE		11	1.9	11.0	62	0.4	1.3	205	189	39	36
LP PINE		4	1.0	10.0	66	0.2	.5	90	83	17	17
TOTAL		958	105.6	13.3	71	28.0	102.0	14,334	13,370	2,775	2,640
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		
DOUG FIR		91.7	3.8	185	192	199					
DOUG FIR-L		58.7	6.6	717	768	818					
DOUG FIR-S											
W LARCH		101.6	9.5	303	335	367					
W LARCH-L		53.4	18.9	1,466	1,807	2,147					
W LARCH-S											
P PINE-L		99.6	17.9	525	639	753					
P PINE-S											
E SPRUCE		114.3	38.1	168	272	376					
LP PINE		58.8	33.6	61	93	124					
TOTAL		135.7	4.4	256	268	280	737	376	184		
CL	68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR		103.7	6.0	73	78	83					
DOUG FIR-L		221.0	12.8	2	2	3					
DOUG FIR-S		340.2	19.7	5	6	7					
W LARCH		208.9	12.1	10	12	13					
W LARCH-L		613.4	35.6	0	0	0					
W LARCH-S		355.8	20.6	2	3	3					
P PINE-L		426.8	24.8	1	1	2					
P PINE-S		1074.3	62.3	0	0	0					
E SPRUCE		936.3	54.3	1	2	3					
LP PINE		847.3	49.2	1	1	1					
TOTAL		76.8	4.5	101	106	110	236	120	59		
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		

PROJECT STATISTICS
PROJECT GOLDHALO

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
35N 40N	32E 33E	01 25	GOLDEN GOLDEN HALO	00U2 00U8	THR	543.37	297	1,102	S	E	
			DOUG FIR	92.0	5.3	63	66	70			
			DOUG FIR-L	208.6	12.1	6	7	8			
			DOUG FIR-S	273.1	15.8	5	6	7			
			W LARCH	193.2	11.2	11	13	14			
			W LARCH-L	619.8	36.0	1	1	2			
			W LARCH-S	338.6	19.6	3	4	5			
			P PINE-L	379.0	22.0	2	3	4			
			P PINE-S	1136.9	66.0	0	1	1			
			E SPRUCE	887.8	51.5	1	1	2			
			LP PINE	718.2	41.7	0	1	1			
			TOTAL	<i>60.8</i>	<i>3.5</i>	<i>98</i>	<i>102</i>	<i>106</i>	<i>148</i>	<i>75</i>	<i>37</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		
			DOUG FIR	91.8	5.3	8,181	8,642	9,102			
			DOUG FIR-L	215.4	12.5	1,161	1,327	1,493			
			DOUG FIR-S								
			W LARCH	215.3	12.5	2,040	2,332	2,623			
			W LARCH-L	640.7	37.2	194	310	425			
			W LARCH-S								
			P PINE-L	357.3	20.7	387	488	589			
			P PINE-S								
			E SPRUCE	1045.8	60.7	74	189	303			
			LP PINE	738.5	42.9	48	83	119			
			TOTAL	<i>71.1</i>	<i>4.1</i>	<i>12,819</i>	<i>13,370</i>	<i>13,921</i>	<i>202</i>	<i>103</i>	<i>50</i>
CL	68.1	COEFF		V BAR/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
			DOUG FIR	88.4	5.1	124	131	138			
			DOUG FIR-L	228.7	13.3	173	197	222			
			DOUG FIR-S								
			W LARCH	168.7	9.8	161	184	207			
			W LARCH-L	619.6	36.0	166	264	362			
			W LARCH-S								
			P PINE-L	351.1	20.4	134	169	205			
			P PINE-S								
			E SPRUCE	985.4	57.2	58	148	238			
			LP PINE	646.5	37.5	87	152	217			
			TOTAL	<i>70.0</i>	<i>4.1</i>	<i>126</i>	<i>131</i>	<i>136</i>	<i>196</i>	<i>100</i>	<i>49</i>

T35N R32E S12 T00U1	T35N R32E S12 T00U1
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt	BdFt
35N 32E 12 GOLDEN 00U1 27.46 18 68 S	E

Spp	Sp	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
DF		D	2	22	5.1	2,991	2,839	78			87	13			100				16	13	103	1.31	27.5			
DF		D	3	30	1.2	3,698	3,653	100			82	18			100				16	11	66	0.78	55.3			
DF		D	4	39	2.2	5,088	4,976	137	16	84				100	0				16	7	26	0.36	193.6			
DF		U	UT	9		1,002	1,002	28	91	9				98	2				17	4	11	0.14	90.7			
DF	Totals			76	2.4	12,778	12,469	342	14	58	25	3		100	0				16	7	34	0.44	367.0			
DF	L	D	2	78	3.8	2,418	2,326	64			41	59		100					16	17	174	1.97	13.4			
DF	L	D	3	16	.0	494	494	14			48	52		100					16	11	73	0.87	6.7			
DF	L	D	4	4		103	103	3			100			100					16	7	28	0.50	3.6			
DF	L	U	UT	2		47	47	1	49	51				100					15	4	13	0.26	3.5			
DF	L	Totals		18	3.0	3,062	2,970	82	1	12	41	46		100					16	12	109	1.28	27.3			
WL		D	4	90		492	492	14	31	69				100					16	6	20	0.23	24.6			
WL		U	UT	10		53	53	1	100					100					16	4	10	0.11	5.3			
WL	Totals			3		545	545	15	38	62				100					16	5	18	0.21	29.9			
PP	L	D	4	93		372	372	10			33	67		100					16	18	202	2.00	1.8			
PP	L	D	5	7		28	28	1			100			100					16	10	60	0.81	.5			
PP	L	Totals		2		400	400	11		7	31	62		100					16	16	174	1.76	2.3			
Type	Totals				2.4	16,786	16,384	450	12	49	27	12		100	0				16	7	38	0.48	426.5			

T	TSPCSTGR	Species, Sort Grade - Board Foot Volumes (Type)										Page	1								
Project: GOLDHALO												Date	11/10/2014								
												Time	9:22:56AM								
T35N R32E S01 T00U2										T35N R32E S01 T00U2											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
35N	32E	01	GOLDEN	00U2	80.74	45	188	S	E												
Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
					Net BdFt	Def%	Gross		Net	Log Scale Dia.				Log Length				Ln	Dia		Bd
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99	Ft	In	Ft	Lf	
DF	D	2		33	3.2	1,835	1,776	143			73	27		100			16	14	118	1.44	15.0
DF	D	3		26	2.8	1,430	1,391	112			73	27		100			16	11	69	0.83	20.3
DF	D	4		35	.8	1,848	1,834	148	11	89				100			16	7	28	0.39	65.1
DF	U	UT		6		287	287	23	72	28			74	26			18	4	12	0.17	23.8
DF	Totals			44	2.1	5,400	5,287	427	8	52	32	9	99	1			16	8	43	0.54	124.2
DF	L	D	2	67	1.2	2,581	2,551	206			15	85		100			16	18	230	2.35	11.1
DF	L	D	3	21	1.2	809	799	65			12	52	36	100			16	15	138	1.44	5.8
DF	L	D	4	6		229	229	18			46	40	14	100			16	11	73	0.88	3.1
DF	L	U	UT	6		207	207	17	5	37	50	8	97	3			16	9	53	0.68	3.9
DF	L	Totals		32	1.0	3,826	3,787	306	0	7	26	66	100	0			16	15	158	1.67	23.9
WL	D	2		51	1.1	1,036	1,025	83			56	44		100			16	15	154	1.58	6.6
WL	D	3		25	.3	504	502	41			56	35	9	100			16	11	76	0.82	6.7
WL	D	4		21	.8	408	405	33	8	86	6		100				16	7	31	0.41	13.0
WL	U	UT		3		56	56	5	100				93	7			16	4	14	0.18	4.1
WL	Totals			17	.8	2,004	1,988	161	4	32	39	25	100	0			16	10	65	0.72	30.4
WL	L	D	2	42	10.3	63	56	5				100	100				16	21	260	2.74	.2
WL	L	D	3	35		46	46	4				100	100				16	18	210	1.92	.2
WL	L	D	4	23	10.0	33	29	2			22	78	100				16	13	90	1.06	.3
WL	L	Totals		1	6.9	141	131	11			5	17	78	100			16	16	173	1.79	.8
PP	L	D	4	73	.2	533	531	43			35	65		100			16	16	168	1.70	3.2
PP	L	D	5	26	5.6	202	190	15			67	33		100			16	9	50	0.68	3.8
PP	L	U	UT	1		2	2	0			100			100			16	6	20	0.37	.1
PP	L	Totals		6	1.7	737	724	58			18	35	47	100			16	12	102	1.13	7.1
Type	Totals				1.6	12,107	11,918	962	4	32	31	33	99	1			16	9	64	0.74	186.3

T TSPCSTGR	Species, Sort Grade - Board Foot Volumes (Type)										Page 1														
	Project: GOLDHALO										Date 11/10/2014														
											Time 9:22:56AM														
T36N R32E S36 T00U3										T36N R32E S36 T00U3															
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt																
36N	32E	36	GOLDEN	00U3	41.87	21	101	S	E																
Spp	S	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre					
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia	Bd		CF/Lf				
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99	Ft	In	Ft							
DF	D	2		10	6.4	904	846						100			100					16	13	93	1.23	9.1
DF	D	3		21	1.7	1,730	1,701						91	9		100					16	11	65	0.76	26.1
DF	D	4		60	2.0	4,941	4,841					20	80			100					16	7	26	0.34	184.3
DF	U	UT		9		668	668					100				81	19				18	3	11	0.12	60.8
DF	Totals			59	2.3	8,243	8,056					20	67	12		98	2				16	7	29	0.36	280.3
DF	L	D	2	75	.9	1,948	1,931						59	41		100					16	15	151	1.66	12.8
DF	L	D	3	11	1.3	284	280						49	29	23	100					16	12	81	0.96	3.5
DF	L	D	4	9		222	222						55	9	36	100					16	9	50	0.69	4.5
DF	L	U	UT	5	25.5	158	118					5	19			100					15	7	53	0.89	2.2
DF	L	Totals		19	2.3	2,612	2,552					1	10	48	41	100					16	13	112	1.29	22.9
PP	L	D	2	27	.0	388	388							100		100					16	27	558	4.68	.7
PP	L	D	4	43	6.6	652	608						28	72		100					16	17	193	1.96	3.2
PP	L	D	5	29		410	410						14	22	65	100					16	13	118	1.23	3.5
PP	L	U	UT	1		8	8					0	100			100					16	9	40	0.68	.2
PP	L	Totals		10	3.0	1,457	1,414						5	18	77	100					16	16	188	1.84	7.5
WL	D	2		67	1.5	986	971						35	65		100					16	15	155	1.59	6.3
WL	D	3		9	5.2	130	123						100			100					16	11	63	0.69	2.0
WL	D	4		22		315	315					19	50	14	18	100					16	7	33	0.39	9.6
WL	U	UT		2		26	26					1	100			100					16	4	14	0.20	1.9
WL	Totals			10	1.5	1,457	1,435					6	19	27	48	100					16	10	73	0.78	19.7
WL	L	D	2	92		252	252						15	85		100					16	19	232	2.10	1.1
WL	L	D	3	8		22	22						100			100					16	12	80	1.01	.3
WL	L	Totals		2		273	273						22	78		100					16	17	202	1.88	1.4
Type Totals					2.2	14,042	13,730					13	44	21	22	99	1				16	7	41	0.49	331.7

Species, Sort Grade - Board Foot Volumes (Type)											Page 1									
T TSPCSTGR											Date 11/10/2014									
Project: GOLDHALO											Time 9:22:56AM									
T36N R32E S35 T00U4											T36N R32E S35 T00U4									
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt											BdFt									
36N 32E 35 GOLDEN 00U4 55.08 30 119 S											E									
Spp	S	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia	Bd	
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99	Ft	In	Ft		
DF	D		2	32	3.3	2,813	2,720	150				89	11	100		16	14	108	1.30	25.1
DF	D		3	21	1.1	1,745	1,726	95			76	24	100		16	11	67	0.76	26.0	
DF	D		4	38		3,137	3,137	173	14	86				98	2	16	7	28	0.37	114.1
DF	U		UT	9		661	661	36	75	25				98	2	15	4	11	0.17	60.1
DF	Totals			44	1.3	8,356	8,244	454	11	51	34	4	99	1	16	7	37	0.47	225.2	
DF	L D		2	76	2.9	1,618	1,570	86			78	22	100		16	14	119	1.46	13.2	
DF	L D		3	10		219	219	12			83	17	100		16	11	67	0.75	3.3	
DF	L D		4	11		228	228	13	2	98			100		16	8	33	0.49	7.0	
DF	L U		UT	3		48	48	3	76	24			100		16	4	13	0.21	3.8	
DF	L Totals			11	2.2	2,112	2,065	114	2	20	61	17	100		16	11	76	0.96	27.2	
WL	D		2	28	1.2	1,961	1,938	107			100		100		16	13	101	1.17	19.2	
WL	D		3	31	.7	2,067	2,052	113			91	9	100		16	11	65	0.71	31.6	
WL	D		4	32		2,184	2,184	120	4	96			100		16	7	29	0.37	75.8	
WL	U		UT	9		546	546	30	72	2	26		100		15	4	13	0.17	41.7	
WL	Totals			36	.6	6,758	6,720	370	7	59	34		100		16	8	40	0.48	168.3	
WL	L D		2	82	3.2	804	779	43			76	24	100		16	15	128	1.45	6.1	
WL	L D		3	6		59	59	3			57	43	100		16	11	74	0.80	.8	
WL	L D		4	9	.0	82	82	5		100			100		15	8	33	0.52	2.5	
WL	L U		UT	3		25	25	1	42	58			42	58	19	5	21	0.27	1.2	
WL	L Totals			5	2.6	971	946	52	1	14	66	20	98	2	16	12	89	1.04	10.6	
LP	D		4	77		413	413	23	24	76			100		16	7	27	0.31	15.4	
LP	U		UT	23		121	121	7	100				100		16	4	14	0.13	8.9	
LP	Totals			3		535	535	29	41	59			100		16	5	22	0.24	24.3	
PP	L D		5	100		162	162	9			58	42	100		16	9	47	0.58	3.4	
PP	L Totals			1		162	162	9			58	42	100		16	9	47	0.58	3.4	
Type Totals					1.2	18,895	18,673	1,029	9	49	38	4	99	1	16	8	41	0.50	459.0	

T36N R32E S36 T00U5 T36N R32E S36 T00U5
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt
 36N 32E 36 GOLDEN 00U5 69.15 37 147 S E

Spp	S	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
DF	D	2		39	3.2	4,965	4,807	332			85	15		100				16	14	116	1.35	41.6				
DF	D	3		22	3.1	2,652	2,571	178			82	18		100				16	11	64	0.78	40.1				
DF	D	4		32	1.0	3,943	3,904	270		5	95			100				16	7	28	0.38	140.0				
DF	U	UT		7		810	810	56		92	8			91	9			15	4	10	0.15	84.7				
DF	Totals			63	2.2	12,370	12,092	836		8	49	38	6	99	1			16	8	39	0.51	306.4				
DF	L	D	2	80	3.7	1,363	1,313	91			37	63		100				16	16	172	1.94	7.6				
DF	L	D	3	12		201	201	14			83	17		100				16	11	71	0.86	2.8				
DF	L	D	4	6		94	94	7			100			100				15	8	30	0.50	3.2				
DF	L	U	UT	2		31	31	2		50	50			100				15	4	11	0.28	2.7				
DF	L	Totals		9	3.0	1,689	1,639	113		1	17	32	51	100				16	12	100	1.21	16.4				
WL	D	2		28	4.8	409	390	27			100			100				16	13	99	1.13	3.9				
WL	D	3		21		295	295	20			88	12		100				16	11	65	0.71	4.5				
WL	D	4		42		575	575	40			100			100				16	8	31	0.39	18.5				
WL	U	UT		9		117	117	8		100				100				15	4	13	0.15	9.0				
WL	Totals			7	1.4	1,397	1,377	95		9	61	31		100				16	8	38	0.45	36.0				
WL	L	D	1	22	3.6	313	301	21				100		100				16	32	707	7.06	.4				
WL	L	D	2	69	1.2	962	950	66				13	87	100				16	19	243	2.33	3.9				
WL	L	D	3	7		83	83	6			12	88		100				16	13	95	1.11	.9				
WL	L	D	4	1		17	17	1			100			100				16	9	40	0.61	.4				
WL	L	U	UT	1		10	10	1			100			100				16	10	60	0.73	.2				
WL	L	Totals		7	1.7	1,383	1,360	94		3	15	83		100				16	18	235	2.33	5.8				
PP	L	D	4	65	4.8	1,153	1,097	76			56	44		100				16	15	138	1.58	8.0				
PP	L	D	5	35	.9	591	586	40			85	15		100				16	9	46	0.63	12.7				
PP	L	Totals		9	3.5	1,744	1,683	116		30	42	29		100				16	11	82	1.00	20.6				
ES	D	2		26		251	251	17			100			100				16	14	120	1.31	2.1				
ES	D	3		8		74	74	5			41	59		100				16	11	70	0.80	1.0				
ES	D	4		50		467	467	32		2	98			100				16	7	29	0.36	15.9				
ES	U	UT		16		148	148	10		100				100				17	4	13	0.14	11.1				
ES	Totals			5		940	940	65		17	52	31		100				16	7	31	0.36	30.2				
Type	Totals				2.2	19,523	19,092	1,320		7	42	35	16	100	0			16	8	46	0.57	415.4				

T36N R32E S35 T00U6	T36N R32E S35 T00U6
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt	BdFt
36N 32E 35 GOLDEN HALO 00U6 27.19 17 20 S	E

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					
DF	D	2		21	2.9	1,986	1,929	52		66	34			100			16	13	108	1.35	17.8
DF	D	3		15		1,337	1,337	36		91	9			100			16	11	66	0.75	20.4
DF	D	4		59		5,216	5,216	142	12	88				100			16	7	27	0.36	192.7
DF	U	UT		5		403	403	11	100					100			16	4	14	0.16	28.9
DF	Totals			55	.6	8,942	8,885	242	12	65	16	7		100			16	7	34	0.44	259.8
WL	D	2		62	4.3	4,656	4,455	121		63	37			100			16	15	133	1.45	33.6
WL	D	3		13	6.9	1,026	955	26		53	47			100			16	11	68	0.81	14.1
WL	D	4		21		1,480	1,480	40	5	95				100			16	8	33	0.43	44.6
WL	U	UT		4		249	249	7	63	37				100			16	5	17	0.23	14.8
WL	Totals			44	3.7	7,411	7,139	194	3	28	46	23		100			16	10	67	0.77	107.2
ES	D	4		100		131	131	4		100				100			16	7	25	0.42	5.2
ES	Totals			1		131	131	4		100				100			16	7	25	0.42	5.2
Type Totals					2.0	16,484	16,155	439	8	49	29	14		100			16	8	43	0.53	372.2

T35N R32E S12 T00U7		T35N R32E S12 T00U7
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt		BdFt
35N 32E 12 GOLDEN 00U7 8.55 4 17 S		E

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						
DF	D	2		34	13.9	5,964	5,135	44			57	43		100				16	15	122	1.24	42.1
DF	D	3		11	13.9	1,742	1,500	13		100				100				16	10	52	0.62	29.0
DF	D	4		43	15.8	7,628	6,422	55	3	97				100				16	7	21	0.30	298.8
DF	U	UT		12	13.9	1,962	1,689	14	96	4				100				17	4	11	0.13	150.0
DF	Totals			86	14.7	17,295	14,746	126	12	53	20	15		100				16	7	28	0.34	519.8
WL	D	4		90	20.0	1,189	951	8		100				100				16	7	24	0.29	39.6
WL	U	UT		10	20.0	132	106	1	100					100				16	4	8	0.11	13.2
WL	Totals			6	20.0	1,321	1,057	9	10	90				100				16	7	20	0.24	52.8
PP	L	D	4	90	4.0	1,213	1,164	10		54	46			100				16	16	160	1.76	7.3
PP	L	D	5	10		121	121	1	100				100					22	6	50	0.56	2.4
PP	L	Totals		8	3.6	1,334	1,286	11		9	49	42		91	9			18	14	132	1.38	9.7
Type	Totals				14.3	19,950	17,088	146	11	52	21	16		99	1			16	7	29	0.35	582.4

T40N R33E S25 T00U8		T40N R33E S25 T00U8
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt		BdFt
40N 33E 25 GOLDEN HALO 00U8 154.81 59 238 S		E

Spp	Sp	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
DF		D	2	26	21.3	3,202	2,521	390			66	34			100				16	14	103	1.27	24.5			
DF		D	3	28	19.4	3,396	2,736	424			78	20	2		100				16	10	53	0.65	51.7			
DF		D	4	39	18.9	4,546	3,688	571	12	86	2			100					16	7	24	0.32	155.7			
DF		U	UT	7	17.2	814	674	104	95	5				91	9				16	4	9	0.11	75.7			
DF	Totals			84	19.6	11,958	9,619	1,489	11	56	24	9		99	1				16	7	31	0.40	307.6			
WL		D	2	42	1.0	703	696	108			77	23			100				16	14	120	1.34	5.8			
WL		D	3	31	2.4	514	501	78			82	18			100				16	10	62	0.70	8.0			
WL		D	4	23	1.0	379	375	58	7	93				100					16	7	29	0.40	12.8			
WL		U	UT	4	1.0	50	49	8	78	22				88	12				18	4	12	0.17	4.1			
WL	Totals			14	1.5	1,645	1,621	251	4	47	39	10		100	0				16	9	53	0.62	30.7			
ES		D	2	24	29.4	65	46	7				100		100					16	23	253	3.27	.2			
ES		D	3	49	21.6	114	90	14			6	10	84	100					16	17	152	1.45	.6			
ES		D	4	20	21.6	49	38	6			73	27		100					16	7	23	0.27	1.7			
ES		U	UT	7	21.6	15	12	2	100					100					16	4	8	0.11	1.5			
ES	Totals			2	23.7	243	186	29	6	18	10	65		100					16	8	47	0.53	3.9			
Type Totals					17.5	13,847	11,426	1,769	10	54	26	10		99	1				16	8	33	0.42	342.2			

T36N R32E S35 TRW11										T36N R32E S35 TRW11				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
36N	32E	35	GOLDEN HALO	RW11	4.58	9	31	S	E					

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		31	4.0	2,803	2,691	12		68	32		100				32	15	304	1.84	8.8
DF	D	3		37	6.9	3,512	3,271	15		90	10		97	3			32	9	115	0.94	28.4
DF	D	4		27	7.6	2,526	2,334	11	57	43			23	77			23	5	32	0.35	72.1
DF	U	UT		5		367	367	2	27	37	36		100				15	6	28	0.55	13.0
DF	Totals			88	5.9	9,209	8,662	40	16	47	27	10	10	89	1		25	7	71	0.68	122.3
WL	D	2		22	11.1	291	259	1		100			100				32	12	160	1.38	1.6
WL	D	3		49	1.5	575	566	3		87	13		87	13			32	9	121	0.73	4.7
WL	D	4		11	.0	124	124	1	100				31	69			23	5	29	0.30	4.2
WL	U	UT		18		198	198	1	1		99		100				16	12	91	1.15	2.2
WL	Totals			12	3.5	1,188	1,147	5	11	43	46		21	73	6		26	9	90	0.75	12.7
Type Totals					5.7	10,397	9,809	45	16	47	29	9	12	87	2		25	7	73	0.68	135.0

T36N R32E S35 TRW12	T36N R32E S35 TRW12
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt	BdFt
36N 32E 35 GOLDEN HALO RW12 1.02 1 5 S	E

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/	Per	
															4-5	6-11	12-16	17+	12-20		21-32	33-55						56-99
WL	D		3	90	5.6	696	657	1	49	51				49	51			34	9	134	0.94	4.9						
WL	D		4	8	.0	59	59	0	100					50	50			17	5	20	0.22	2.9						
WL	U		UT	2		10	10	0	100					100				14	3	10	0.09	1.0						
WL	Totals			90	5.1	765	725	1	9	45	46			5	49	46		26	7	82	0.73	8.8						
DF	D		3	87		69	69	0	100					100				32	7	70	0.53	1.0						
DF	D		4	13		10	10	0	100					100				12	5	10	0.20	1.0						
DF	Totals			10		78	78	0	13	87				13	87			22	6	40	0.44	2.0						
Type Totals					4.7	843	804	1	10	49	41			6	52	41		25	7	75	0.68	10.8						

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

T35N R32E S01 Ty00U2	80.7
T35N R32E S12 Ty00U1	27.4
T40N R33E S25 Ty00U	154.8

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Species	S T	Total	Total	Total	Net Cubic Ft/		CF/ LF	Total CCF		Total MBF	
		Trees	Logs	Tons	Tree	Log		Gross	Net	Gross	Net
DOUG FIR		42,493	141,677	29,291	22.61	6.78	0.42	10,277	9,609	5,134	4,696
W LARCH		6,432	28,392	5,845	37.04	8.39	0.52	2,435	2,382	1,314	1,267
DOUG FIR	L	1,205	6,269	3,725	108.53	20.85	1.30	1,307	1,307	735	721
P PINE	L	662	2,649	1,145	72.08	18.01	1.12	477	477	272	265
W LARCH	L	161	1,102	675	175.11	25.53	1.60	281	281	172	168
E SPRUCE		1,052	3,106	546	18.64	6.31	0.39	210	196	112	103
LP PINE		546	1,804	223	17.13	5.19	0.33	93	94	49	45
DOUG FIR	S	3,076			0.00	0.00					
P PINE	S	153			0.00	0.00					
W LARCH	S	1,574			0.00	0.00					
Totals		57,353	184,999	41,449	25.01	7.75	0.49	15,081	14,347	7,789	7,265

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	57,353	184,999	41,449	25.01	7.75	0.49	15,081	14,347	7,789	7,265
Totals	57,353	184,999	41,449	25.01	7.75	0.49	15,081	14,347	7,789	7,265

Log Stock Table - MBF

T35N R32E S01 Ty00U2
THRU
T40N R33E S25 Ty00U8

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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	L	U	UT	14	2		2	.2	1		1									
DF	L	U	UT	15	0		0	.1			0									
DF	L	U	UT	16	26	6.6	24	3.3	3	2	3	3	3	4	2				3	
DF	L	U	UT	23	1		1	.1			1									
DF		Totals			735	1.9	721	9.9	4	5	54	69	106	124	129	98	64	65		4
WL		D	2	16	504	2.4	492	38.8				61	194	104	80	25	18	4		6
WL		D	2	32	1	11.1	1	.1				1								
WL		D	3	16	295	1.7	289	22.8			123	146	16	0	2	2				
WL		D	3	32	3		3	.2			3									
WL		D	3	40	1	10.5	1	.1					1							
WL		D	4	12	0		0	.0		0										
WL		D	4	13	1		1	.1		1										
WL		D	4	14	2		2	.2		2										
WL		D	4	16	438	6.7	409	32.3		104	291	8	1	3	2					
WL		D	4	20	2		2	.1			2									
WL		D	4	22	0		0	.0			0									
WL		D	4	30	0		0	.0			0									
WL		U	UT	13	1		1	.1	1	1										
WL		U	UT	14	9		9	.7	7	2										
WL		U	UT	15	3		3	.2	2		0									
WL		U	UT	16	44		44	3.5	18	15	2	4	5							
WL		U	UT	17	1		1	.1	1											
WL		U	UT	18	4		4	.3	2	1	1									
WL		U	UT	19	1		1	.1	1											
WL		U	UT	20	3		3	.2	3											
WL		U	UT	21	0		0	.0	0											
WL		U	UT	22	1	1.0	1	.1	1											
WL		Totals			1,314	3.6	1,267	17.4	37	127	420	220	216	108	84	27	18	4		6
WL	L	D	1	16	22	3.6	21	12.4												21
WL	L	D	2	16	126	2.2	124	73.5			6	13	25	23	27	12	19			
WL	L	D	3	16	14		14	8.1			7	1	2	2	2					
WL	L	D	4	12	0		0	.1		0										
WL	L	D	4	16	8	3.3	8	4.6			6	1	1							

Log Stock Table - MBF

T35N R32E S01 Ty00U2
THRU
T40N R33E S25 Ty00U8

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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+
WL	L	U	UT	16	1		1	.8	0	0	1									
WL	L	U	UT	23	1		1	.5		1										
WL		Totals			172	2.2	168	2.3	0	1	7	13	15	27	24	29	12	19	21	
PP	L	D	2	16	16		16	6.1									3	7	6	
PP	L	D	4	16	171	3.6	164	62.1			10	23	41	39	27	25				
PP	L	D	5	12	0		0	.1		0										
PP	L	D	5	13	1		1	.2		1										
PP	L	D	5	14	2		2	.8		1	1									
PP	L	D	5	16	81	1.6	80	30.2		1	32	31	2	1	3	2	2	2	2	2
PP	L	D	5	22	1		1	.4		1										
PP	L	U	UT	16	1		1	.2		0	0									
PP		Totals			272	2.7	265	3.6		5	33	41	25	42	41	29	30	9	9	
LP		D	3	16	7		7	16.5			7									
LP		D	4	16	35	10.7	31	68.8		6	21	4								
LP		U	UT	14	2		2	4.0	2											
LP		U	UT	16	4		4	8.0		4										
LP		U	UT	17	1		1	2.8	1											
LP		Totals			49	7.6	45	.6	3	10	21	11								
ES		D	2	16	27	10.8	25	23.9				7	10				7			
ES		D	3	16	23	16.8	19	18.5			2	4	1		2	6	4			
ES		D	4	16	47	3.4	46	44.6		9	34	1	2							
ES		U	UT	15	3		3	2.5	3											
ES		U	UT	16	10	5.2	9	8.9	4	5										
ES		U	UT	20	2		2	1.6	2											
ES		Totals			112	8.0	103	1.4	8	14	36	5	9	12	2	6	11			
Total		All Species			7,789	6.7	7,265	100.0	287	888	2426	1143	873	613	436	266	177	117	39	

Project Log Stock Table - TONS(SED)

T35N R32E S01 Ty00U2
THRU
T40N R33E S25 Ty00U8

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Spp	S T	So	Gr	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	L	U	UT	13	6.7		8			4	4							
DF	L	U	UT	14	3.9		14	8		7								
DF	L	U	UT	15	7.0		3			3								
DF	L	U	UT	16	5.9		156	31	15	25	16	14	19	21				15
DF	L	U	UT	23	8.0		4			4								
Graded							3725	40	43	349	380	590	635	655	461	286	274	14
DF			Totals			12.5	3,725	40	43	349	380	590	635	655	461	286	274	14
WL		D	2	16	14.4		2,094			297	848	430	329	92	65	14		20
WL		D	2	32	12.0		8			8								
WL		D	3	16	10.8		1,232			521	629	67	3	6	7			
WL		D	3	32	8.5		12			12								
WL		D	3	40	15.0		4					4						
WL		D	4	12	5.0		0											
WL		D	4	13	6.0		7											
WL		D	4	14	5.1		13											
WL		D	4	16	7.2		2,131		480	1529	37	26	50	9				
WL		D	4	20	7.0		12			12								
WL		D	4	22	5.0		0											
WL		D	4	30	5.0		2			2								
WL		U	UT	12	3.0		7	7										
WL		U	UT	13	4.1		7	2	5									
WL		U	UT	14	3.3		34	21	13									
WL		U	UT	15	3.1		11	8		4								
WL		U	UT	16	4.5		212	100	63	8	18	23						
WL		U	UT	17	3.0		5	5										
WL		U	UT	18	3.4		23	15	4	4								
WL		U	UT	19	3.0		4	4										
WL		U	UT	20	3.0		19	19										
WL		U	UT	21	3.0		3	3										
WL		U	UT	22	3.0		6	6										
Graded							5845	188	587	2089	988	964	487	344	99	65	14	20
WL			Totals		7.9		5,845	188	587	2089	988	964	487	344	99	65	14	20
WL	L	D	1	16	32.0		80											80
WL	L	D	2	16	16.6		484			25	52	101	86	109	46	64		
WL	L	D	3	16	12.7		57			31	5	7	6	7				

Project Log Stock Table - TONS(SED)

T35N R32E S01 Ty00U2
THRU
T40N R33E S25 Ty00U8

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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	40+		
WL	L	D	4	12	6.0	2			2											
WL	L	D	4	16	9.1	41				33		4	5							
WL	L	U	UT	16	5.0	7		1	2	3										
WL	L	U	UT	23	6.0	5			5											
		Graded				675		1	9	36	57	61	113	92	116	46	64	80		
WL	Totals				14.2	675		1	9	36	57	61	113	92	116	46	64	80		
PP	L	D	2	16	27.4	52										9	23	20		
PP	L	D	4	16	16.0	682			50	98	170	165	102	96						
PP	L	D	5	12	6.0	2		2												
PP	L	D	5	13	6.0	3		3												
PP	L	D	5	14	6.6	13		6	6											
PP	L	D	5	16	9.9	384		8	170	150	11	6	11	7	7	6	8			
PP	L	D	5	22	6.0	6		6												
PP	L	U	UT	16	7.9	3		1	2											
		Graded				1145		27	178	201	109	175	176	109	113	29	28			
PP	Totals				12.6	1,145		27	178	201	109	175	176	109	113	29	28			
LP		D	3	16	12.0	39			39											
LP		D	4	16	7.1	156		32	97	26										
LP		U	UT	12	3.0	3		3												
LP		U	UT	14	3.0	6		6												
LP		U	UT	16	5.0	14		14												
LP		U	UT	17	3.0	5		5												
		Graded				223		14	47	97	65									
LP	Totals				6.3	223		14	47	97	65									
ES		D	2	16	14.7	128				32	47				49					
ES		D	3	16	13.1	94			11	19	9		12	27	17					
ES		D	4	16	7.1	254		52	188	5		9								
ES		U	UT	15	3.0	9		9												
ES		U	UT	16	3.9	50		29	21											
ES		U	UT	20	3.0	11		11												
		Graded				546		48	73	199	24	41	56	12	27	66				
ES	Totals				6.5	546		48	73	199	24	41	56	12	27	66				

Project Log Stock Table - TONS(SED)

T35N R32E S01 Ty00U2
 THRU
 T40N R33E S25 Ty00U8

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S Spp	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
Total		All Species				41,449	1891	5183	14994	6637	4822	3107	2143	1227	805	498	141

TC TSTATS				STATISTICS			PAGE	2		
				PROJECT GOLDHALO			DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	32E	12	GOLDEN	00U1	27.46	18	68	S	E	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	7	10	
P PINE-L		424.3	102.9		400	811				
TOTAL		<i>49.6</i>	<i>12.0</i>	<i>14,413</i>	<i>16,384</i>	<i>18,355</i>	<i>104</i>	<i>53</i>	<i>26</i>	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		52.6	12.8	117	134	151				
DOUG FIR-L		117.1	28.4	127	177	227				
DOUG FIR-S										
W LARCH		291.1	70.6	43	146	249				
W LARCH-S										
P PINE-L		424.3	102.9		214	434				
TOTAL		<i>49.6</i>	<i>12.0</i>	<i>114</i>	<i>129</i>	<i>145</i>	<i>104</i>	<i>53</i>	<i>26</i>	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	32E	01	GOLDEN	00U2	80.74	45	188	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		45	188	4.2						
CRUISE		44	187	4.3	4,831		3.9			
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
DOUG FIR	82	34.0	14.0	73	9.7	36.4	5,400	5,287	1,093	1,093
DOUG FIR-L	37	4.4	26.1	91	3.2	16.4	3,826	3,787	638	638
DOUG FIR-S	29	9.9	15.7	47	3.4	13.3				
W LARCH-S	7	2.5	15.1	60	0.8	3.1				
W LARCH	21	6.8	15.9	88	2.3	9.3	2,004	1,988	352	352
W LARCH-L	1	.1	27.4	123	0.1	.4	141	131	22	22
P PINE-L	9	1.7	20.6	78	0.9	4.0	737	724	128	128
P PINE-S	1	.4	15.0	35	0.1	.4				
TOTAL	<i>187</i>	<i>59.8</i>	<i>16.0</i>	<i>71</i>	<i>20.9</i>	<i>83.6</i>	<i>12,107</i>	<i>11,918</i>	<i>2,233</i>	<i>2,233</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		
DOUG FIR	76.4	8.4	215	235	255					
DOUG FIR-L	46.8	7.7	875	948	1,021					
DOUG FIR-S										
W LARCH	115.7	25.9	408	550	692					
W LARCH-L										
W LARCH-S										
P PINE-L	62.5	22.1	413	530	647					
P PINE-S										
TOTAL	<i>119.4</i>	<i>8.7</i>	<i>351</i>	<i>384</i>	<i>418</i>	<i>570</i>	<i>291</i>	<i>143</i>		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	102.7	15.3	29	34	39					
DOUG FIR-L	108.4	16.2	4	4	5					
DOUG FIR-S	167.3	24.9	7	10	12					
W LARCH	198.8	29.6	5	7	9					
W LARCH-L	670.8	100.0	0	0	0					
W LARCH-S	258.1	38.5	2	3	3					
P PINE-L	239.2	35.7	1	2	2					
P PINE-S	670.8	100.0	0	0	1					
TOTAL	<i>70.5</i>	<i>10.5</i>	<i>54</i>	<i>60</i>	<i>66</i>	<i>199</i>	<i>102</i>	<i>50</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		
DOUG FIR	69.5	10.4	33	36	40					
DOUG FIR-L	107.8	16.1	14	16	19					
DOUG FIR-S	146.6	21.8	10	13	16					
W LARCH	162.2	24.2	7	9	12					
W LARCH-L	670.8	100.0	0	0	1					
W LARCH-S	235.6	35.1	2	3	4					

TC TSTATS				STATISTICS			PAGE	2		
				PROJECT GOLDHALO			DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	32E	01	GOLDEN	00U2	80.74	45	188	S	E	
CL:	68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	7	10	
P PINE-L		228.6	34.1	3	4	5				
P PINE-S		670.8	100.0	0	0	1				
TOTAL		42.2	6.3	78	84	89	71	36	18	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		68.1	10.2	4,750	5,287	5,824				
DOUG FIR-L		112.5	16.8	3,152	3,787	4,422				
DOUG FIR-S										
W LARCH		164.9	24.6	1,500	1,988	2,477				
W LARCH-L		670.8	100.0	0	131	263				
W LARCH-S										
P PINE-L		247.9	37.0	457	724	992				
P PINE-S										
TOTAL		56.6	8.4	10,912	11,918	12,924	128	65	32	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		68.1	10.2	130	145	160				
DOUG FIR-L		112.5	16.8	192	230	269				
DOUG FIR-S										
W LARCH		164.9	24.6	161	213	265				
W LARCH-L		670.8	100.0	0	295	591				
W LARCH-S										
P PINE-L		247.9	37.0	114	181	248				
P PINE-S										
TOTAL		56.6	8.4	131	143	155	128	65	32	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	36	GOLDEN	00U3	41.87	21	101	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		21	101	4.8						
CRUISE		20	101	5.1	4,444		2.3			
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
DOUG FIR	64	90.1	11.1	67	18.3	61.0	8,243	8,056	1,640	1,640
DOUG FIR-L	14	4.5	23.3	81	2.8	13.3	2,612	2,552	471	471
DOUG FIR-S	2	.9	19.5	66	0.4	1.9				
P PINE-L	6	1.5	26.1	96	1.1	5.7	1,457	1,414	221	221
P PINE-S	6	3.0	18.8	64	1.3	5.7				
W LARCH	7	5.4	15.0	76	1.7	6.7	1,457	1,435	247	247
W LARCH-L	1	.3	25.4	95	0.2	1.0	273	273	41	41
W LARCH-S	1	.4	20.0	30	0.2	1.0				
TOTAL	<i>101</i>	<i>106.1</i>	<i>12.9</i>	<i>68</i>	<i>26.8</i>	<i>96.2</i>	<i>14,042</i>	<i>13,730</i>	<i>2,619</i>	<i>2,619</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		
DOUG FIR	63.0	8.0	113	123	133					
DOUG FIR-L	70.5	19.6	550	684	817					
DOUG FIR-S										
P PINE-L	74.0	33.0	967	1,443	1,919					
P PINE-S										
W LARCH	65.9	26.9	409	559	709					
W LARCH-L										
W LARCH-S										
TOTAL	<i>157.7</i>	<i>15.8</i>	<i>261</i>	<i>311</i>	<i>360</i>	<i>995</i>	<i>507</i>	<i>249</i>		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	79.9	17.9	74	90	106					
DOUG FIR-L	140.6	31.4	3	4	6					
DOUG FIR-S	316.3	70.8	0	1	2					
P PINE-L	214.7	48.0	1	2	2					
P PINE-S	329.9	73.8	1	3	5					
W LARCH	281.1	62.9	2	5	9					
W LARCH-L	458.3	102.5	0	1	1					
W LARCH-S	458.3	102.5	0	1	1					
TOTAL	<i>67.1</i>	<i>15.0</i>	<i>90</i>	<i>106</i>	<i>122</i>	<i>189</i>	<i>97</i>	<i>47</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		
DOUG FIR	69.2	15.5	52	61	70					
DOUG FIR-L	128.5	28.7	10	13	17					
DOUG FIR-S	315.8	70.7	1	2	3					
P PINE-L	162.0	36.2	4	6	8					
P PINE-S	334.7	74.9	1	6	10					
W LARCH	197.5	44.2	4	7	10					
W LARCH-L	458.3	102.5	1	2	2					
W LARCH-S	458.3	102.5	1	2	2					
TOTAL	<i>43.9</i>	<i>9.8</i>	<i>87</i>	<i>96</i>	<i>106</i>	<i>81</i>	<i>41</i>	<i>20</i>		

TC TSTATS				STATISTICS			PAGE	2		
				PROJECT GOLDHALO			DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	36	GOLDEN	00U3	41.87	21	101	S	E	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E. %	LOW	AVG	HIGH	5	7	10	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5	7	10	
DOUG FIR		71.6	16.0	6,765	8,056	9,347				
DOUG FIR-L		133.6	29.9	1,789	2,552	3,314				
DOUG FIR-S										
P PINE-L		166.8	37.3	886	1,414	1,941				
P PINE-S										
W LARCH		206.7	46.2	772	1,435	2,099				
W LARCH-L		458.3	102.5		273	554				
W LARCH-S										
TOTAL		<i>49.9</i>	<i>11.2</i>	<i>12,198</i>	<i>13,730</i>	<i>15,261</i>	<i>105</i>	<i>53</i>	<i>26</i>	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5	7	10	
DOUG FIR		71.6	16.0	111	132	153				
DOUG FIR-L		133.6	29.9	134	191	249				
DOUG FIR-S										
P PINE-L		166.8	37.3	155	247	340				
P PINE-S										
W LARCH		206.7	46.2	116	215	315				
W LARCH-L		458.3	102.5		287	581				
W LARCH-S										
TOTAL		<i>49.9</i>	<i>11.2</i>	<i>127</i>	<i>143</i>	<i>159</i>	<i>105</i>	<i>53</i>	<i>26</i>	

TC TSTATS				STATISTICS				PAGE	1	
PROJECT				GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	35	GOLDEN	00U4	55.08	30	119	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	30	119	4.0							
CRUISE	30	115	3.8	7,327	1.6					
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
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	51	67.4	12.5	65	16.2	57.1	8,356	8,244	1,664	1,664
DOUG FIR-L	11	5.1	21.0	81	2.7	12.3	2,112	2,065	413	413
DOUG FIR-S	4	8.2	13.2	49	2.2	7.8				
W LARCH	30	30.7	14.2	101	8.9	33.6	6,758	6,720	1,276	1,277
W LARCH-L	4	1.6	22.4	101	0.9	4.5	971	946	178	178
W LARCH-S	11	10.9	15.1	83	3.5	13.4				
LP PINE	3	8.2	8.7	61	1.1	3.4	535	535	93	94
P PINE-L	1	.9	15.5	93	0.3	1.1	162	162	32	32
TOTAL	115	133.0	13.6	75	36.2	133.3	18,895	18,673	3,656	3,657
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		
DOUG FIR	79.2	11.1	180	203	225					
DOUG FIR-L	36.5	11.5	375	424	473					
DOUG FIR-S										
W LARCH	38.6	7.4	269	291	313					
W LARCH-L	23.2	13.3	514	593	671					
W LARCH-S										
LP PINE	31.2	21.6	52	67	81					
P PINE-L										
TOTAL	81.2	7.6	212	229	247	264	135	66		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	103.0	19.1	54	67	80					
DOUG FIR-L	138.2	25.7	4	5	6					
DOUG FIR-S	227.1	42.2	5	8	12					
W LARCH	143.5	26.7	23	31	39					
W LARCH-L	262.4	48.8	1	2	2					
W LARCH-S	196.1	36.4	7	11	15					
LP PINE	309.1	57.4	3	8	13					
P PINE-L	547.7	101.8		1	2					
TOTAL	47.8	8.9	121	133	145	95	48	24		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	88.9	16.5	48	57	67					
DOUG FIR-L	133.7	24.8	9	12	15					
DOUG FIR-S	184.4	34.3	5	8	11					
W LARCH	120.3	22.4	26	34	41					
W LARCH-L	259.3	48.2	2	4	7					
W LARCH-S	203.4	37.8	8	13	19					
LP PINE	305.1	56.7	1	3	5					
P PINE-L	547.7	101.8		1	2					
TOTAL	29.2	5.4	126	133	141	35	18	9		

TC TSTATS				STATISTICS			PAGE	2		
				PROJECT	GOLDHALO		DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	35	GOLDEN	00U4	55.08	30	119	S	E	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	7	10	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		94.0	17.5	6,805	8,244	9,684				
DOUG FIR-L		138.7	25.8	1,533	2,065	2,597				
DOUG FIR-S										
W LARCH		126.6	23.5	5,139	6,720	8,301				
W LARCH-L		259.5	48.2	490	946	1,402				
W LARCH-S										
LP PINE		310.7	57.7	226	535	844				
P PINE-L		547.7	101.8		162	328				
TOTAL		<i>51.7</i>	<i>9.6</i>	<i>16,880</i>	<i>18,673</i>	<i>20,466</i>	<i>111</i>	<i>56</i>	<i>28</i>	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		94.0	17.5	119	144	169				
DOUG FIR-L		138.7	25.8	124	168	211				
DOUG FIR-S										
W LARCH		126.6	23.5	153	200	247				
W LARCH-L		259.5	48.2	109	211	313				
W LARCH-S										
LP PINE		310.7	57.7	67	159	251				
P PINE-L		547.7	101.8		145	293				
TOTAL		<i>51.7</i>	<i>9.6</i>	<i>127</i>	<i>140</i>	<i>154</i>	<i>111</i>	<i>56</i>	<i>28</i>	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	36	GOLDEN	00U5	69.15	37	147	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	37	147	4.0							
CRUISE	36	147	4.1	8,739		1.7				
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
DOUG FIR	90	86.2	13.2	67	22.5	81.8	12,370	12,092	2,445	2,448
DOUG FIR-L	10	3.2	22.8	78	1.9	9.1	1,689	1,639	310	310
DOUG FIR-S	12	12.5	12.7	42	3.1	10.9				
W LARCH	8	8.0	12.9	91	2.0	7.3	1,397	1,377	258	258
W LARCH-L	5	.7	33.9	135	0.8	4.5	1,383	1,360	215	215
W LARCH-S	3	1.9	16.2	59	0.7	2.7				
P PINE-L	13	5.5	19.9	78	2.6	11.8	1,744	1,683	327	327
E SPRUCE	6	8.5	10.9	71	1.7	5.5	940	940	176	176
TOTAL	147	126.4	13.9	67	35.8	133.5	19,523	19,092	3,731	3,735
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		
DOUG FIR	74.3	8.0	214	233	252					
DOUG FIR-L	69.2	24.4	563	746	928					
DOUG FIR-S										
W LARCH	55.0	20.8	178	225	272					
W LARCH-L			3,890	3,890	3,890					
W LARCH-S										
P PINE-L	47.3	13.6	318	368	419					
E SPRUCE	60.3	30.0	140	200	260					
TOTAL	150.2	12.8	292	335	378	903	461	226		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	89.8	14.8	73	86	99					
DOUG FIR-L	203.3	33.4	2	3	4					
DOUG FIR-S	319.1	52.5	6	12	19					
W LARCH	252.5	41.5	5	8	11					
W LARCH-L	386.0	63.5	0	1	1					
W LARCH-S	352.0	57.9	1	2	3					
P PINE-L	217.4	35.7	4	5	7					
E SPRUCE	519.2	85.4	1	8	16					
TOTAL	68.4	11.2	112	126	141	187	96	47		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	64.7	10.6	73	82	90					
DOUG FIR-L	188.0	30.9	6	9	12					
DOUG FIR-S	272.4	44.8	6	11	16					
W LARCH	221.7	36.4	5	7	10					
W LARCH-L	355.8	58.5	2	5	7					
W LARCH-S	341.3	56.1	1	3	4					
P PINE-L	203.7	33.5	8	12	16					
E SPRUCE	514.2	84.5	1	5	10					
TOTAL	40.9	6.7	125	134	143	67	34	17		

TC TSTATS				STATISTICS			PAGE	2		
				PROJECT GOLDHALO			DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	36	GOLDEN	00U5	69.15	37	147	S	E	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	7	10	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		68.6	11.3	10,729	12,092	13,456				
DOUG FIR-L		196.5	32.3	1,109	1,639	2,168				
DOUG FIR-S										
W LARCH		220.1	36.2	879	1,377	1,876				
W LARCH-L		348.8	57.3	580	1,360	2,140				
W LARCH-S										
P PINE-L		199.4	32.8	1,131	1,683	2,235				
E SPRUCE		542.0	89.1	102	940	1,778				
TOTAL		57.9	9.5	17,273	19,092	20,911	134	69	34	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR		68.6	11.3	131	148	165				
DOUG FIR-L		196.5	32.3	122	180	239				
DOUG FIR-S										
W LARCH		220.1	36.2	121	190	258				
W LARCH-L		348.8	57.3	128	300	471				
W LARCH-S										
P PINE-L		199.4	32.8	96	143	189				
E SPRUCE		542.0	89.1	19	172	326				
TOTAL		57.9	9.5	129	143	157	134	69	34	

TC TSTATS				STATISTICS				PAGE	1	
PROJECT				GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	35	GOLDEN HALO	00U6	27.19	17	60	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	17	60	3.5							
CRUISE	10	20	2.0	2,724			.7			
DBH COUNT										
REFOREST										
COUNT	6	16	2.7							
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	13	79.4	12.3	78	18.6	65.4	8,942	8,885	1,821	1,823
W LARCH	6	18.2	17.7	109	7.4	31.0	7,411	7,139	1,322	1,323
E SPRUCE	1	2.6	10.7	66	0.5	1.6	131	131	35	35
TOTAL	20	100.2	13.4	83	26.8	98.0	16,484	16,155	3,178	3,181
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		
DOUG FIR	102.1	29.5	117	165	214					
W LARCH	52.9	23.6	392	513	634					
E SPRUCE										
TOTAL	97.4	22.4	205	264	323	400	204	100		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			79	79	79					
W LARCH	174.1	43.5	10	18	26					
E SPRUCE	412.3	103.1	3		5					
TOTAL			100	100	100					
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			65	65	65					
W LARCH	175.8	43.9	17	31	45					
E SPRUCE	412.3	103.1	2		3					
TOTAL			98	98	98					
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			8,885	8,885	8,885					
W LARCH	179.1	44.8	3,943	7,139	10,335					
E SPRUCE	412.3	103.1	131		266					
TOTAL	43.7	10.9	14,389	16,155	17,922	81	41	20		
CL: 68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			136	136	136					
W LARCH			127	230	333					
E SPRUCE	412.3	103.1	80		163					
TOTAL	327.2	81.8	147	165	183	4,550	2,322	1,138		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	32E	12	GOLDEN	00U7	8.55	4	17	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	4	17	4.3							
CRUISE	4	17	4.3	1,776			1.0			
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
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	14	176.7	11.0	66	35.4	117.6	17,295	14,746	3,349	2,883
W LARCH	1	13.2	10.8	88	2.6	8.4	1,321	1,057	258	207
W LARCH-S	1	15.4	10.0	20	2.7	8.4				
P PINE	1	2.4	25.2	85	1.7	8.4	1,334	900	234	164
TOTAL	17	207.8	11.2	64	42.6	142.8	19,950	16,702	3,841	3,254
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		
DOUG FIR	133.8	37.1	107	170	233					
W LARCH										
W LARCH-S										
P PINE										
TOTAL	130.0	32.5	112	166	220	718	366	180		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	49.0	28.0	127	177	226					
W LARCH	200.0	114.4		13	28					
W LARCH-S	200.0	114.4		15	33					
P PINE	200.0	114.4		2	5					
TOTAL	29.9	17.1	172	208	243	47	24	12		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	16.5	9.4	107	118	129					
W LARCH	200.0	114.4		8	18					
W LARCH-S	200.0	114.4		8	18					
P PINE	200.0	114.4		8	18					
TOTAL	11.8	6.7	133	143	152	7	4	2		
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	48.9	28.0	10,622	14,746	18,869					
W LARCH	200.0	114.4		1,057	2,265					
W LARCH-S										
P PINE	200.0	114.4		900	1,929					
TOTAL	35.5	20.3	13,309	16,702	20,096	66	34	17		
CL: 68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	48.9	28.0	90	125	160					
W LARCH	200.0	114.4		126	270					
W LARCH-S										
P PINE	200.0	114.4		107	230					
TOTAL	35.5	20.3	93	117	141	66	34	17		

TC TSTATS		STATISTICS						PAGE	1	
		PROJECT GOLDHALO						DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
40N	33E	25	GOLDEN HALO	00U8	154.81	59	239	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		59	239	4.1						
CRUISE		55	234	4.3	15,782	1.5				
DBH COUNT										
REFOREST										
COUNT		1	2	2.0						
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
DOUG FIR	190	85.5	13.2	73	22.4	81.3	11,958	9,619	2,382	1,974
DOUG FIR-S	11	4.8	14.5	57	1.5	5.5				
W LARCH	22	7.2	15.5	87	2.4	9.4	1,645	1,621	311	308
W LARCH-S	8	2.8	16.7	88	1.0	4.3				
E SPRUCE	3	1.7	11.8	53	0.4	1.3	243	186	42	33
TOTAL	<i>234</i>	<i>101.9</i>	<i>13.5</i>	<i>73</i>	<i>27.6</i>	<i>101.7</i>	<i>13,847</i>	<i>11,426</i>	<i>2,736</i>	<i>2,315</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
DOUG FIR	101.8	7.4	178	192	206					
DOUG FIR-S										
W LARCH	58.1	12.7	264	302	340					
W LARCH-S										
E SPRUCE	88.5	61.3	211	544	877					
TOTAL	<i>106.5</i>	<i>7.0</i>	<i>178</i>	<i>191</i>	<i>204</i>	<i>454</i>	<i>231</i>			<i>113</i>
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7			10
DOUG FIR	101.2	13.2	74	85	97					
DOUG FIR-S	268.2	34.9	3	5	7					
W LARCH	240.8	31.3	5	7	9					
W LARCH-S	261.2	34.0	2	3	4					
E SPRUCE	731.5	95.2	0	2	3					
TOTAL	<i>80.1</i>	<i>10.4</i>	<i>91</i>	<i>102</i>	<i>113</i>	<i>256</i>	<i>131</i>			<i>64</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
DOUG FIR	79.6	10.4	73	81	90					
DOUG FIR-S	239.4	31.2	4	6	7					
W LARCH	185.7	24.2	7	9	12					
W LARCH-S	248.7	32.4	3	4	6					
E SPRUCE	568.6	74.0	0	1	2					
TOTAL	<i>56.0</i>	<i>7.3</i>	<i>94</i>	<i>102</i>	<i>109</i>	<i>126</i>	<i>64</i>			<i>31</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
DOUG FIR	81.4	10.6	8,599	9,619	10,639					
DOUG FIR-S										
W LARCH	185.5	24.2	1,230	1,621	2,013					
W LARCH-S										
E SPRUCE	591.1	76.9	43	186	329					
TOTAL	<i>64.5</i>	<i>8.4</i>	<i>10,466</i>	<i>11,426</i>	<i>12,386</i>	<i>167</i>	<i>85</i>			<i>42</i>
CL: 68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7			10
DOUG FIR	81.3	10.6	106	118	131					

TC TSTATS				STATISTICS			PAGE 2		
				PROJECT GOLDHALO			DATE 11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
40N	33E	25	GOLDEN HALO	00U8	154.81	59	239	S	E
CL: 68.1 %		COEFF		V-BAR/ACRE			# OF PLOTS REQ.	INF. POP.	
SD: 1.0		VAR.	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR-S									
W LARCH		185.5	24.2	131	173	215			
W LARCH-S									
E SPRUCE		591.1	76.9	34	146	258			
TOTAL		65.5	8.5	103	112	122	172	88	43

TC TSTATS		STATISTICS					PAGE	1		
		PROJECT GOLDHALO					DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	31E	24	GOLDEN HALO	00U9	29.56	24	53	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		24	53	2.2						
CRUISE		10	13	1.3	2,631	.5				
DBH COUNT										
REFOREST										
COUNT		13	30	2.3						
BLANKS		1								
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
DOUG FIR	8	62.3	11.5	67	13.3	45.1	5,433	5,433	1,137	1,137
W LARCH	5	26.7	10.5	72	5.0	16.2	2,183	1,844	420	357
TOTAL	<i>13</i>	<i>89.0</i>	<i>11.2</i>	<i>68</i>	<i>18.3</i>	<i>61.3</i>	<i>7,616</i>	<i>7,278</i>	<i>1,557</i>	<i>1,494</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		
DOUG FIR	47.4	17.9	84	103	121					
W LARCH	43.4	21.6	53	68	83					
TOTAL	<i>49.8</i>	<i>14.4</i>	<i>76</i>	<i>89</i>	<i>102</i>	<i>107</i>	<i>55</i>	<i>27</i>		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	71.0	14.8	53	62	71					
W LARCH	114.5	23.9	20	27	33					
TOTAL	<i>45.1</i>	<i>9.4</i>	<i>81</i>	<i>89</i>	<i>97</i>	<i>85</i>	<i>43</i>	<i>21</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		
DOUG FIR	69.8	14.6	39	45	52					
W LARCH	112.1	23.4	12	16	20					
TOTAL	<i>46.2</i>	<i>9.6</i>	<i>55</i>	<i>61</i>	<i>67</i>	<i>89</i>	<i>45</i>	<i>22</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		
DOUG FIR	69.9	14.6	4,642	5,433	6,225					
W LARCH	117.9	24.6	1,391	1,844	2,298					
TOTAL	<i>46.5</i>	<i>9.7</i>	<i>6,572</i>	<i>7,278</i>	<i>7,983</i>	<i>90</i>	<i>46</i>	<i>23</i>		
CL: 68.1 %	COEFF	V-BAR/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			103	120	138					
W LARCH			86	114	142					
TOTAL	<i>449.2</i>	<i>93.7</i>	<i>107</i>	<i>119</i>	<i>130</i>	<i>8,421</i>	<i>4,296</i>	<i>2,105</i>		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT GOLDHALO				DATE	11/10/2014	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	31E	23	GOLDEN HALO	0U10	43.36	32	74	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				TREES	TREES	TREES				
TOTAL	32	74	2.3							
CRUISE	13	20	1.5	4,794			.4			
DBH COUNT										
REFOREST										
COUNT	16	32	2.0							
BLANKS	3									
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	14	91.3	9.8	65	15.3	47.7	5,569	5,569	1,126	1,126
W LARCH	4	14.1	12.6	71	3.4	12.2	1,597	1,184	320	261
LP PINE	1	2.2	14.9	88	0.7	2.6	452	366	96	96
E SPRUCE	1	3.1	10.2	41	0.5	1.7	122	122	30	30
TOTAL	20	110.6	10.3	65	20.0	64.2	7,741	7,241	1,571	1,513
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		
DOUG FIR	61.5	17.0	63	76	89					
W LARCH	91.3	52.2	63	133	202					
LP PINE										
E SPRUCE										
TOTAL	76.9	17.6	74	90	106	249	127	62		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	50.9	9.0	83	91	99					
W LARCH	165.7	29.3	10	14	18					
LP PINE	315.9	55.8	1	2	3					
E SPRUCE	393.5	69.6	1	3	5					
TOTAL	36.8	6.5	103	111	118	54	28	14		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	49.5	8.8	44	48	52					
W LARCH	152.9	27.0	9	12	15					
LP PINE	315.9	55.8	1	3	4					
E SPRUCE	393.5	69.6	1	2	3					
TOTAL	25.6	4.5	61	64	67	26	13	7		
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	49.8	8.8	5,079	5,569	6,060					
W LARCH	156.9	27.7	856	1,184	1,512					
LP PINE	315.9	55.8	161	366	570					
E SPRUCE	393.5	69.6	37	122	208					
TOTAL	29.6	5.2	6,862	7,241	7,620	35	18	9		
CL: 68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			106	117	127					
W LARCH			70	97	124					
LP PINE	162.4	28.7	62	140	219					
E SPRUCE	268.8	47.5	21	70	120					
TOTAL	381.9	67.5	107	113	119	5,835	2,977	1,459		

TC TSTATS		STATISTICS					PAGE	1		
		PROJECT GOLDHALO					DATE	11/10/2014		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	35	GOLDEN HALO	RW11	4.58	9	31	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		9	31	3.4						
CRUISE		9	31	3.4	364	8.5				
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
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
DOUG FIR	25	75.1	13.5	56	20.2	74.3	9,209	8,662	2,085	2,085
W LARCH	6	4.4	17.4	89	1.8	7.4	1,188	1,147	249	249
TOTAL	31	79.5	13.7	58	22.0	81.6	10,397	9,809	2,334	2,334
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		
DOUG FIR	114.0	23.3	175	228	281					
W LARCH	47.3	21.1	170	215	260					
TOTAL	104.8	18.8	183	225	268	439	224	110		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	68.3	24.1	57	75	93					
W LARCH	160.2	56.6	2	4	7					
TOTAL	65.7	23.2	61	80	98	194	99	48		
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	52.4	18.5	61	74	88					
W LARCH	164.0	57.9	3	7	12					
TOTAL	45.8	16.2	68	82	95	94	48	24		
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	81.6	28.8	6,165	8,662	11,159					
W LARCH	169.1	59.7	462	1,147	1,832					
TOTAL	71.3	25.2	7,340	9,809	12,278	228	116	57		
CL: 68.1 %	COEFF	V-BAR/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	70.0	24.7	83	117	150					
W LARCH	230.4	81.4	63	155	248					
TOTAL	78.4	27.7	90	120	150	276	141	69		

TC TSTATS		STATISTICS					PAGE 1			
		PROJECT GOLDHALO					DATE 11/10/2014			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	32E	35	GOLDEN HALO	RW12	1.02	1	5	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		1	5	5.0						
CRUISE		1	5	5.0	5	100.0				
DBH COUNT										
REFOREST COUNT										
BLANKS 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	3.9	15.9	76	1.4	5.4	765	725	166	166
DOUG FIR	1	1.0	12.2	61	0.2	.8	78	78	19	19
TOTAL	5	4.9	15.2	73	1.6	6.2	843	804	185	185
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	63.1	36.1	118	185	252					
DOUG FIR										
TOTAL	68.0	33.8	109	164	219	229 117		57		

TC		Stand Table Summary														
TSTNDSUM		Project GOLDHALO														
T35N R32E S12 T00U1											T35N R32E S12 T00U1					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:								
35N	32E	12	GOLDEN	00U1	27.46	18	68	1	Date:	11/10/201		Time: 9:22:57AM				
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		7	3	74	46	19.295	5.60	38.59	2.5	13.2	2.73	96	511	75	26	14
DF		8	3	77	44	17.040	5.60	28.59	3.2	16.0	2.69	92	456	74	25	13
DF		9	2	76	58	8.657	3.73	21.84	3.4	11.9	2.14	75	260	59	21	7
DF		10	3	82	73	10.427	5.60	34.64	4.2	21.0	4.12	146	726	113	40	20
DF		11	3	81	68	8.469	5.60	24.94	5.7	25.5	4.06	142	637	111	39	17
DF		12	5	81	70	12.015	9.34	38.43	5.9	24.9	6.46	227	958	177	62	26
DF		13	4	84	84	8.340	7.47	33.36	6.9	34.2	6.58	231	1,140	181	63	31
DF		14	4	82	84	7.121	7.47	30.31	7.5	37.0	6.47	227	1,121	178	62	31
DF		15	5	85	83	7.640	9.34	30.68	9.3	44.9	8.18	287	1,377	225	79	38
DF		16	4	85	83	5.438	7.47	23.06	10.1	50.0	6.64	233	1,152	182	64	32
DF		17	5	83	83	5.988	9.34	24.02	11.7	55.1	7.98	281	1,325	219	77	36
DF		18	4	80	93	4.397	7.47	18.68	12.4	59.4	6.58	231	1,110	181	63	30
DF		19	1	82	97	.969	1.87	4.84	12.9	64.0	1.79	63	310	49	17	9
DF		20	2	85	94	1.713	3.73	8.56	15.4	76.2	3.73	132	652	103	36	18
DF		23	2	85	100	1.300	3.73	6.51	20.5	113.0	3.79	133	735	104	37	20
DF		Totals	50	80	67	118.808	93.36	367.04	7.1	34.0	73.93	2,595	12,469	2,030	713	342
DF	L	18	1	82	93	1.118	1.87	5.59	11.0	56.0	1.75	61	313	48	17	9
DF	L	22	1	80	86	.741	1.87	3.70	15.1	76.0	1.59	56	281	44	15	8
DF	L	23	1	82	102	.676	1.87	3.38	18.7	96.0	1.80	63	325	49	17	9
DF	L	24	2	80	83	1.194	3.73	4.75	24.2	122.0	3.26	115	580	90	32	16
DF	L	25	2	81	96	1.096	3.73	5.45	22.5	118.9	3.51	123	648	96	34	18
DF	L	28	1	87	107	.434	1.87	2.60	27.6	161.7	2.05	72	421	56	20	12
DF	L	31	1	84	103	.356	1.87	1.78	38.0	226.0	1.93	68	403	53	19	11
DF		Totals	9	82	93	5.615	16.81	27.26	20.4	108.9	15.88	557	2,970	436	153	82
WL		8	1	87	74	5.349	1.87	16.05	2.9	16.7	1.13	47	267	31	13	7
WL		9	1	94	72	4.629	1.87	13.89	3.7	20.0	1.22	51	278	33	14	8
WL		Totals	2	90	73	9.978	3.73	29.93	3.3	18.2	2.35	98	545	65	27	15
PP	L	27	1	88	114	.459	1.87	2.30	28.2	174.0	1.56	65	400	43	18	11
PP		Totals	1	88	114	.459	1.87	2.30	28.2	174.0	1.56	65	400	43	18	11
DF	S	12	1	82	30	2.377	1.87									
DF	S	14	1	83	20	1.747	1.87									
DF	S	15	1	82	60	1.522	1.87									
DF	S	22	1	82	30	.707	1.87									
DF		Totals	4	82	34	6.353	7.47									
WL	S	15	1	87	90	1.522	1.87									
WL	S	25	1	86	110	.548	1.87									
WL		Totals	2	87	95	2.069	3.73									
Totals		68	81	68		143.282	126.97	426.53	7.8	38.4	93.72	3315	16,384	2,573	910	450

TC		TSTNDSUM													Stand Table Summary		
Project															GOLDHALO		
T35N R32E S01 T00U2												T35N R32E S01 T00U2					
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	1					
35N	32E	01	GOLDEN		00U2	80.74	45	188			Date:	11/10/201					
											Time:	9:22:57AM					
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		7	1	82	51	1.616	.44	3.23	2.5	15.0	.23	8	48	19	7	4	
DF		8	3	82	60	3.790	1.33	8.89	3.3	15.7	.84	29	140	68	24	11	
DF		9	1	77	58	.942	.44	2.83	3.8	20.0	.30	11	57	24	9	5	
DF		10	3	83	67	2.440	1.33	7.32	4.5	20.0	.94	33	146	76	27	12	
DF		11	3	78	61	1.973	1.33	5.22	5.5	23.8	.82	29	124	66	23	10	
DF		12	9	81	74	5.089	4.00	18.17	5.9	25.0	3.07	108	454	248	87	37	
DF		13	6	82	87	2.840	2.67	10.84	7.3	36.4	2.26	79	394	182	64	32	
DF		14	8	79	76	3.396	3.56	13.16	7.3	31.9	2.72	95	420	220	77	34	
DF		15	5	79	85	1.847	2.22	7.75	8.5	39.0	1.87	66	302	151	53	24	
DF		16	6	84	84	1.951	2.67	8.43	10.0	47.3	2.39	84	398	193	68	32	
DF		17	6	82	89	1.720	2.67	8.00	10.6	51.0	2.41	84	408	194	68	33	
DF		18	10	82	84	2.562	4.44	10.49	12.7	59.4	3.78	133	623	305	107	50	
DF		19	4	81	95	.899	1.78	4.27	13.4	65.8	1.64	57	281	132	46	23	
DF		20	4	83	97	.821	1.78	3.89	15.3	79.6	1.69	59	310	137	48	25	
DF		21	4	81	106	.729	1.78	3.83	16.4	87.8	1.79	63	336	145	51	27	
DF		22	3	87	104	.513	1.33	2.74	18.6	102.0	1.45	51	279	117	41	23	
DF		23	2	83	122	.322	.89	2.09	17.5	95.4	1.04	37	200	84	30	16	
DF		24	2	85	128	.281	.89	1.82	20.7	115.4	1.08	38	210	87	31	17	
DF		25	2	84	92	.269	.89	1.21	24.0	128.9	.83	29	156	67	23	13	
DF		Totals	82	81	77	33.999	36.44	124.18	8.8	42.6	31.14	1,093	5,287	2,514	883	427	
DF	L	18	1	81	70	.252	.44	1.01	12.0	50.0	.34	12	50	27	10	4	
DF	L	23	3	83	114	.470	1.33	2.51	19.8	107.4	1.42	50	270	115	40	22	
DF	L	24	7	84	104	.981	3.11	5.19	22.0	124.1	3.26	114	644	263	92	52	
DF	L	25	4	81	125	.522	1.78	3.12	22.5	127.9	2.00	70	400	161	57	32	
DF	L	26	6	79	127	.738	2.67	4.05	25.2	144.6	2.91	102	586	235	83	47	
DF	L	27	2	81	100	.225	.89	1.02	28.9	164.1	.84	29	167	68	24	13	
DF	L	28	5	84	126	.517	2.22	3.00	31.1	192.4	2.66	93	578	215	75	47	
DF	L	29	1	88	121	.098	.44	.59	33.4	211.7	.56	20	124	45	16	10	
DF	L	30	2	84	117	.181	.89	1.00	34.9	215.6	.99	35	215	80	28	17	
DF	L	31	2	93	103	.172	.89	.86	42.4	284.3	1.04	36	244	84	29	20	
DF	L	32	1	90	108	.079	.44	.40	45.2	302.0	.51	18	119	41	14	10	
DF	L	33	1	89	112	.073	.44	.44	43.4	291.7	.54	19	128	44	15	10	
DF	L	34	1	78	115	.069	.44	.35	44.1	250.0	.44	15	87	35	12	7	
DF	L	35	1	94	141	.066	.44	.39	60.0	443.3	.67	24	175	54	19	14	
DF		Totals	37	83	114	4.443	16.44	23.92	26.7	158.3	18.18	638	3,787	1,468	515	306	
WL		8	1	85	60	1.183	.44	2.37	3.5	20.0	.20	8	47	16	7	4	
WL		12	2	85	91	1.211	.89	5.45	5.3	26.7	.69	29	145	56	23	12	
WL		14	1	92	98	.398	.44	1.99	8.6	46.0	.41	17	92	33	14	7	
WL		15	4	86	96	1.474	1.78	6.64	9.0	46.7	1.44	60	310	117	48	25	
WL		16	1	94	89	.339	.44	1.36	11.3	62.5	.37	15	85	30	12	7	
WL		17	2	90	105	.557	.89	3.07	11.2	61.8	.83	34	189	67	28	15	
WL		19	2	90	114	.442	.89	2.43	14.8	83.7	.86	36	203	70	29	16	
WL		20	1	85	106	.206	.44	1.03	15.5	84.0	.38	16	86	31	13	7	
WL		21	2	81	114	.384	.89	2.30	14.0	72.5	.77	32	167	62	26	13	
WL		22	1	93	127	.173	.44	1.21	17.5	105.7	.51	21	128	41	17	10	
WL		24	1	95	130	.140	.44	.98	22.7	145.7	.53	22	143	43	18	12	
WL		27	1	87	155	.109	.44	.76	28.6	172.9	.52	22	131	42	18	11	
WL		29	1	88	123	.100	.44	.50	36.0	236.0	.43	18	118	35	15	10	
WL		41	1	92	128	.049	.44	.29	70.9	485.0	.50	21	142	40	17	12	
WL		Totals	21	87	95	6.766	9.33	30.38	11.6	65.5	8.46	352	1,988	683	284	161	

TC		Stand Table Summary														
TSTNDSUM		Project											GOLDHALO			
T35N R32E S01 T00U2											T35N R32E S01 T00U2					
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:					
35N	32E	01	GOLDEN		00U2	80.74	45	188			2					
		Date:	Time:													
		11/10/201	9:22:57AM													
Spc	S	Sample		Av		Trees/	BA/	Logs	Average Log		Net	Net	Net	Totals		
		DBH	Trees	FF	Ht				Acres	Acres				Acres	Net	Net
PP	L	16	1	85	69	.339	.44	1.02	10.0	43.3	.24	10	44	20	8	4
PP	L	17	1	90	85	.299	.44	1.20	10.8	57.5	.31	13	69	25	10	6
PP	L	18	1	80	90	.260	.44	.78	13.2	53.3	.25	10	42	20	8	3
PP	L	21	1	90	86	.185	.44	.74	17.7	97.5	.31	13	72	25	11	6
PP	L	23	1	93	117	.160	.44	.80	21.3	130.0	.41	17	104	33	14	8
PP	L	25	1	95	114	.130	.44	.65	26.5	172.0	.41	17	112	33	14	9
PP	L	26	3	88	111	.360	1.33	1.92	24.6	146.8	1.13	47	282	92	38	23
PP		Totals	9	88	93	1.733	4.00	7.10	18.0	102.0	3.07	128	724	248	103	58
WL	L	27	1	87	155	.109	.44	.76	28.6	172.9	.52	22	131	42	18	11
WL		Totals	1	87	155	.109	.44	.76	28.6	172.9	0.52	22	131	42	18	11
DF	S	10	2	83	30	1.686	.92									
DF	S	11	1	83	25	.697	.46									
DF	S	12	6	82	41	3.512	2.76									
DF	S	13	1	83	25	.499	.46									
DF	S	15	3	83	47	1.124	1.38									
DF	S	18	1	82	40	.260	.46									
DF	S	20	1	83	75	.211	.46									
DF	S	21	1	82	53	.191	.46									
DF	S	22	2	83	88	.348	.92									
DF	S	23	1	82	90	.159	.46									
DF	S	24	1	82	125	.146	.46									
DF	S	25	5	82	64	.674	2.30									
DF	S	26	1	83	171	.125	.46									
DF	S	28	1	83	178	.108	.46									
DF	S	30	1	83	120	.094	.46									
DF	S	32	1	82	120	.082	.46									
DF		Totals	29	82	48	9.916	13.33									
PP	S	15	1	86	35	.362	.44									
PP		Totals	1	86	35	.362	.44									
WL	S	12	2	86	58	1.132	.89									
WL	S	15	2	87	48	.724	.89									
WL	S	17	1	86	100	.282	.44									
WL	S	20	1	87	100	.204	.44									
WL	S	22	1	86	20	.168	.44									
WL		Totals	7	86	60	2.510	3.11									
Totals			187	83	77	59.839	83.56	186.34	12.0	64.0	61.37	2233	11,918	4,955	1,803	962

TC TSTNDSUM

Stand Table Summary

Project GOLDHALO

T36N R32E S36 T00U3

T36N R32E S36 T00U3

Twp Rge Sec Tract Type Acres Plots Sample Trees
36N 32E 36 GOLDEN 00U3 41.87 21 101

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S Spc	T	Av			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		Sample DBH	FF Trees	Ht 16'				Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
PP		Totals	6	86	64	2.959	5.71									
WL	S	20	1	86	30	.437	.95									
WL		Totals	1	86	30	.437	.95									
Totals			101	83	70	106.138	96.19	331.71	7.9	41.4	72.35	2619	13,730	3,029	1,097	575

TC		TSTNDSUM											Stand Table Summary				
Project													GOLDHALO				
T36N R32E S35 T00U4											T36N R32E S35 T00U4						
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	2					
36N	32E	35	GOLDEN		00U4	55.08	30	119			Date:	11/10/201					
											Time:	9:22:57AM					
Spc	T	DBH	Sample Trees	FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF	S	17	1	82	45	1.244	1.96										
DF	S	25	1	82	100	.599	1.96										
DF		Totals	4	82	49	8.222	7.84										
WL	S	10	1	87	32	2.241	1.22										
WL	S	11	1	87	86	1.852	1.22										
WL	S	15	2	86	96	1.992	2.44										
WL	S	16	1	86	100	.875	1.22										
WL	S	17	2	87	76	1.598	2.44										
WL	S	19	2	86	115	1.275	2.44										
WL	S	20	1	87	118	.560	1.22										
WL	S	22	1	87	123	.463	1.22										
WL		Totals	11	87	83	10.857	13.44										
Totals			115	84	78	133.032	133.32	459.02	8.0	40.7	97.08	3657	18,673	5,347	2,014	1,029	

TC		Stand Table Summary														
TSTNDSUM		Project GOLDHALO														
T36N R32E S36 T00U5											T36N R32E S36 T00U5					
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	1				
36N	32E	36	GOLDEN		00U5	69.15	37	147			Date:	11/10/201				
											Time:	9:22:57AM				
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	7	85	50	18.565	6.36	42.70	3.1	16.7	3.74	132	711	259	92	49
DF		9	4	84	58	8.960	3.63	26.88	3.3	14.9	2.54	89	400	176	61	28
DF		10	3	84	66	4.872	2.73	14.62	4.7	21.1	1.95	68	308	135	47	21
DF		11	5	84	66	6.730	4.54	21.47	5.5	24.9	3.35	118	534	231	81	37
DF		12	6	84	65	7.192	5.45	25.09	5.6	25.3	3.99	141	634	276	97	44
DF		13	12	82	75	12.073	10.90	45.35	6.6	31.0	8.57	301	1,407	592	208	97
DF		14	5	83	78	4.230	4.54	18.64	6.9	31.8	3.66	129	592	253	89	41
DF		15	2	86	93	1.523	1.82	7.55	8.2	41.1	1.77	62	311	122	43	21
DF		16	5	84	86	3.364	4.54	14.79	9.8	47.2	4.12	144	698	285	100	48
DF		17	7	85	89	4.077	6.36	18.59	11.4	55.9	6.02	211	1,039	416	146	72
DF		18	8	83	88	4.133	7.27	18.64	12.3	58.7	6.51	229	1,094	450	158	76
DF		19	6	85	88	2.849	5.45	12.86	13.9	72.5	5.10	179	932	353	124	64
DF		20	9	85	89	3.745	8.18	18.26	14.9	77.8	7.76	272	1,420	537	188	98
DF		21	5	85	94	1.952	4.54	9.74	16.3	84.1	4.52	159	819	313	110	57
DF		22	3	83	109	1.032	2.73	6.19	16.4	87.7	2.90	102	543	200	70	38
DF		24	3	88	111	.890	2.73	5.06	22.1	128.4	3.19	112	650	221	77	45
DF		Totals	90	84	70	86.187	81.75	306.44	8.0	39.5	69.68	2,448	12,092	4,818	1,693	836
PP	L	15	2	88	78	1.494	1.82	4.48	9.9	49.8	1.06	44	223	73	31	15
PP	L	17	2	81	85	1.175	1.82	4.14	11.0	53.8	1.10	46	223	76	32	15
PP	L	21	2	80	86	.766	1.82	3.07	15.2	76.1	1.12	47	233	77	32	16
PP	L	22	1	90	93	.335	.91	1.34	19.6	105.0	.63	26	141	44	18	10
PP	L	23	1	96	103	.307	.91	1.53	21.6	130.0	.79	33	199	55	23	14
PP	L	24	3	81	104	.900	2.73	4.20	19.6	102.1	1.98	82	428	137	57	30
PP	L	26	1	80	72	.246	.91	.74	26.4	126.7	.47	20	94	33	13	6
PP	L	27	1	87	99	.228	.91	1.14	25.5	124.0	.70	29	142	48	20	10
PP		Totals	13	84	88	5.452	11.81	20.64	15.8	81.6	7.84	327	1,683	542	226	116
DF	L	17	1	82	87	.570	.91	2.85	9.6	44.0	.78	27	125	54	19	9
DF	L	18	1	84	94	.544	.91	2.72	11.8	58.0	.91	32	158	63	22	11
DF	L	19	1	87	89	.452	.91	2.26	13.9	70.0	.89	31	158	61	22	11
DF	L	23	1	87	99	.309	.91	1.55	21.8	114.0	.96	34	176	66	23	12
DF	L	24	2	85	87	.564	1.82	2.82	21.3	112.0	1.71	60	316	118	42	22
DF	L	25	1	80	95	.277	.91	1.39	20.8	112.0	.82	29	155	57	20	11
DF	L	30	2	72	103	.370	1.82	2.03	30.1	156.5	1.74	61	317	120	42	22
DF	L	37	1	84	111	.124	.91	.75	48.2	311.7	1.02	36	232	71	25	16
DF		Totals	10	83	93	3.211	9.08	16.36	19.0	100.2	8.84	310	1,639	611	215	113
WL		9	1	90	78	2.151	.91	8.60	3.1	20.0	.65	27	172	45	19	12
WL		11	1	88	86	1.376	.91	5.51	5.4	25.0	.72	30	138	50	21	10
WL		13	2	87	94	2.099	1.82	8.39	7.1	37.5	1.43	60	315	99	41	22
WL		15	1	88	112	.721	.91	4.33	8.5	45.0	.88	37	195	61	25	13
WL		16	1	94	111	.676	.91	4.05	9.7	55.0	.95	40	223	66	27	15
WL		19	2	87	96	.938	1.82	5.14	12.7	65.2	1.56	65	335	108	45	23
WL		Totals	8	89	91	7.961	7.27	36.03	7.2	38.2	6.19	258	1,377	428	178	95
WL	L	28	2	77	178	.413	1.82	3.30	26.2	158.7	2.08	87	524	144	60	36
WL	L	32	1	88	168	.168	.91	1.34	36.7	241.2	1.18	49	324	82	34	22
WL	L	48	2	77	158	.142	1.82	1.14	69.8	450.0	1.90	79	512	132	55	35
WL		Totals	5	80	172	.723	4.54	5.78	37.2	235.2	5.16	215	1,360	357	149	94
ES		8	1	90	65	2.418	.91	7.25	3.7	20.0	.70	27	145	48	19	10
ES		10	2	84	78	3.691	1.82	14.76	4.2	22.5	1.60	62	332	111	43	23

TC		TSTNDSUM											Stand Table Summary				
Project													GOLDHALO				
T36N R32E S36 T00U5											T36N R32E S36 T00U5						
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	2					
36N	32E	36	GOLDEN		00U5	69.15	37	147			Date:	11/10/201					
											Time:	9:22:57AM					
Spc	T	DBH	Sample Trees	FF	Av Ht	Trees/Acre	BA/Acre	Logs/Acre	Average Log		Net Tons/Acre	Net Cu.Ft./Acre	Net Bd.Ft./Acre	Totals			
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
ES		11	1	85	58	1.328	.91	3.98	5.7	26.7	.59	23	106	41	16	7	
ES		18	2	87	93	1.047	1.82	4.19	15.6	85.2	1.70	65	357	117	45	25	
ES		Totals		6	86	73	8.483	5.45	30.19	5.8	31.1	4.59	176	940	317	122	65
DF	S	10	3	83	30	4.996	2.73										
DF	S	11	1	82	60	1.376	.91										
DF	S	12	2	82	43	2.313	1.82										
DF	S	14	2	82	23	1.699	1.82										
DF	S	15	1	83	80	.740	.91										
DF	S	18	1	83	80	.514	.91										
DF	S	20	2	82	55	.833	1.82										
DF		Totals		12	83	42	12.473	10.90									
WL	S	15	2	86	50	1.480	1.82										
WL	S	20	1	87	90	.416	.91										
WL		Totals		3	86	59	1.897	2.73									
Totals		147		84	71	126.385	133.53	415.42	9.0	46.0	102.30	3735	19,092	7,074	2,583	1,320	

TC	TSTNDSUM	Stand Table Summary														
		Project GOLDHALO														
T36N R32E S35 T00U6										T36N R32E S35 T00U6						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
36N	32E	35	GOLDEN HALO	00U6	27.19	17	20	Date:	11/10/201	Time:	9:22:57AM					
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		9	1	82	81	11.381	5.03	34.14	4.0	23.3	3.91	137	797	106	37	22
DF		10	2	72	70	18.526	10.06	47.06	4.6	20.0	6.11	216	941	166	59	26
DF		11	2	80	85	16.265	10.06	56.70	5.1	25.7	8.23	289	1,459	224	79	40
DF		12	1	80	69	6.510	5.03	19.53	6.2	30.0	3.47	122	586	94	33	16
DF		13	2	78	76	10.746	10.06	32.24	7.7	33.3	7.05	247	1,073	192	67	29
DF		15	2	84	89	8.428	10.06	33.71	9.7	48.6	9.32	327	1,638	253	89	45
DF		17	1	84	89	3.153	5.03	15.76	10.6	56.0	4.76	167	883	129	45	24
DF		18	1	72	77	2.845	5.03	11.38	11.3	40.0	3.65	129	455	99	35	12
DF		24	1	84	106	1.548	5.03	9.29	20.4	113.3	5.39	189	1,053	147	51	29
DF		Totals	13	79	79	79.403	65.36	259.81	7.0	34.2	51.90	1,823	8,885	1,411	496	242
WL		12	1	87	110	6.589	5.17	32.94	5.7	28.0	4.51	188	922	123	51	25
WL		17	1	79	105	3.362	5.17	16.81	9.9	46.0	3.99	167	773	109	45	21
WL		19	1	88	137	2.574	5.17	18.02	13.7	74.3	5.88	246	1,338	160	67	36
WL		22	2	87	138	3.868	10.35	27.08	17.9	103.4	11.66	486	2,801	317	132	76
WL		23	1	86	137	1.763	5.17	12.34	19.1	105.7	5.69	236	1,304	155	64	35
WL		Totals	6	86	121	18.155	31.05	107.18	12.3	66.6	31.73	1,323	7,139	863	360	194
ES		11	1	75	66	2.617	1.63	5.23	6.7	25.0	.91	35	131	25	10	4
ES		Totals	1	75	66	2.617	1.63	5.23	6.7	25.0	0.91	35	131	25	10	4
Totals			20	80	86	100.174	98.05	372.23	8.5	43.4	84.55	3181	16,155	2,299	865	439

TC		TSTNDSUM											Stand Table Summary			
Project													GOLDHALO			
T35N R32E S12 T00U7											T35N R32E S12 T00U7					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees			Page:	1					
35N	32E	12	GOLDEN	00U7	8.55	4	17			Date:	12/8/2014					
										Time:	8:22:16AM					
Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	2	83	57	51.459	16.81	102.92	2.8	15.2	9.52	288	1,565	81	25	13
DF		9	1	84	63	19.449	8.40	58.35	3.3	17.2	6.42	194	1,005	55	17	9
DF		10	3	82	66	47.840	25.21	143.52	3.9	17.2	18.34	554	2,471	157	47	21
DF		12	3	83	74	31.851	25.21	105.57	5.3	24.9	18.51	559	2,627	158	48	22
DF		14	1	83	64	8.453	8.40	25.36	6.9	25.8	5.77	174	655	49	15	6
DF		15	1	84	83	6.668	8.40	26.67	8.1	40.9	7.18	217	1,091	61	19	9
DF		18	1	94	97	4.755	8.40	23.77	12.5	70.6	9.86	298	1,679	84	25	14
DF		20	1	91	99	3.890	8.40	19.45	14.6	86.1	9.42	285	1,675	81	24	14
DF		26	1	92	107	2.369	8.40	14.22	22.1	139.2	10.40	314	1,979	89	27	17
DF		Totals	14	83	67	176.735	117.64	519.83	5.5	28.4	95.44	2,883	14,746	816	246	126
PP	L	25	1	87	85	2.426	8.40	9.70	24.2	132.5	5.62	235	1,286	48	20	11
PP		Totals	1	87	85	2.426	8.40	9.70	24.2	132.5	5.62	235	1,286	48	20	11
WL		11	1	88	88	13.208	8.40	52.83	3.9	20.0	6.20	207	1,057	53	18	9
WL		Totals	1	88	88	13.208	8.40	52.83	3.9	20.0	6.20	207	1,057	53	18	9
WL	S	10	1	86	20	15.406	8.40									
WL		Totals	1	86	20	15.406	8.40									
Totals			17	84	65	207.775	142.84	582.37	5.7	29.3	107.26	3324	17,088	917	284	146

TC TSTNDSUM		Stand Table Summary															
Project											GOLDHALO						
T40N R33E S25 T00U8											T40N R33E S25 T00U8						
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	2					
40N	33E	25	GOLDEN HALO		00U8	154.81	59	238			Date:	11/10/201					
											Time:	9:22:57AM					
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF	S	26	1	82	66	.136	.50										
DF		Totals		11	83	59	4.824	5.53									
WL	S	12	1	87	77	.677	.53										
WL	S	14	1	87	90	.497	.53										
WL	S	15	2	87	83	.867	1.06										
WL	S	18	1	87	125	.301	.53										
WL	S	21	1	87	121	.232	.53										
WL	S	25	1	86	138	.156	.53										
WL	S	35	1	86	164	.081	.53										
WL		Totals		8	87	96	2.811	4.25									
Totals			234	82	75	101.944	101.68	342.23	6.8	33.4	76.46	2315	11,426	11,836	3,584	1,769	

TC TSTNDSUM		Stand Table Summary														
Project GOLDHALO																
T38N R31E S24 T00U9										T38N R31E S24 T00U9						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:								
38N	31E	24	GOLDEN HALO	00U9	29.56	24	13		1	Date:	11/10/201					
										Time:	9:22:57AM					
S Spc	T	Av			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		Sample DBH	FF Trees	Ht 16'				Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		9	2	89	61	26.761	11.29	66.30	4.0	22.1	7.52	264	1,466	222	78	43
DF		12	2	73	64	14.873	11.29	44.62	5.6	23.2	7.14	251	1,036	211	74	31
DF		13	2	83	80	11.966	11.29	47.87	7.1	35.1	9.71	341	1,679	287	101	50
DF		15	1	80	71	4.723	5.64	18.89	7.7	35.0	4.14	145	661	122	43	20
DF		16	1	74	79	3.942	5.64	15.77	8.7	37.5	3.91	137	591	116	41	17
DF		Totals	8	82	67	62.267	45.14	193.44	5.9	28.1	32.41	1,137	5,433	958	336	161
WL		9	1	90	62	7.336	3.24	22.01	3.5	20.0	1.87	78	440	55	23	13
WL		10	2	89	78	12.296	6.48	42.60	4.4	24.4	4.45	186	1,041	132	55	31
WL		12	1	85	72	3.928	3.24	11.78	1.5	6.7	1.93	17	79	57	5	2
WL		14	1	78	67	3.166	3.24	9.50	8.0	30.0	1.82	76	285	54	22	8
WL		Totals	5	87	72	26.726	16.21	85.89	4.2	21.5	10.07	357	1,844	298	105	55
Totals			13	84	68	88.992	61.35	279.33	5.3	26.1	42.49	1494	7,278	1,256	442	215

TC	TSTNDSUM	Stand Table Summary														
		Project GOLDHALO														
T38N R31E S23 T0U10										T38N R31E S23 T0U10						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
38N	31E	23	GOLDEN HALO	0U10	43.36	32	20	Date:	11/10/201	Time:	9:22:57AM					
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		8	4	79	61	38.441	13.64	86.65	3.2	17.8	7.92	278	1,542	343	120	67
DF		9	2	80	58	16.374	6.82	40.47	3.6	20.0	4.20	147	809	182	64	35
DF		10	2	79	69	12.776	6.82	38.33	4.2	20.0	4.54	159	767	197	69	33
DF		11	2	71	64	10.273	6.82	30.82	4.8	20.0	4.24	149	616	184	64	27
DF		12	1	84	83	4.067	3.41	16.27	6.4	32.5	2.96	104	529	128	45	23
DF		13	1	75	82	3.589	3.41	14.35	6.3	25.0	2.56	90	359	111	39	16
DF		15	2	84	75	5.748	6.82	22.99	8.6	41.2	5.66	198	948	245	86	41
DF	Totals	14	79	65		91.268	47.75	249.88	4.5	22.3	32.08	1,126	5,569	1,391	488	241
WL		8	1	83	67	8.087	3.04	16.17	3.5	20.0	1.36	57	323	59	25	14
WL		13	1	79	75	3.197	3.04	12.79	5.8	20.0	1.81	75	256	78	32	11
WL		19	1	84	99	1.543	3.04	7.72	13.2	62.0	2.44	102	478	106	44	21
WL		21	1	81	89	1.263	3.04	5.05	5.5	25.0	2.07	28	126	90	12	5
WL	Totals	4	82	74		14.090	12.15	41.73	6.2	28.4	7.68	261	1,184	333	113	51
LP		15	1	84	88	2.151	2.60	10.75	8.9	34.0	2.29	96	366	99	42	16
LP	Totals	1	84	88		2.151	2.60	10.75	8.9	34.0	2.29	96	366	99	42	16
ES		10	1	71	41	3.060	1.74	6.12	5.0	20.0	.79	30	122	34	13	5
ES	Totals	1	71	41		3.060	1.74	6.12	5.0	20.0	0.79	30	122	34	13	5
Totals		20	79	66		110.569	64.24	308.49	4.9	23.5	42.84	1513	7,241	1,858	656	314



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

FPA/N No: 3019553
Effective Date: 11/18/2014
Expiration Date: 11/18/2017
Shut Down Zone: 678E
EARR Tax Credit: Eligible Non-eligible
Reference: Golden Halo FH FIT
 Multiple

**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

No conditions.

Issued By: Shane Knowlton **Region:** Northeast

Title: Forest Practices Forester **Date:** 11/18/2014

Copies to: Landowner, Timber Owner and Operator.

Issued in person: Landowner Timber Owner Operator By: _____