## WASHINGTON STATE DEPARTMENT OF Natural Resources

## TIMBER NOTICE OF SALE

SALE NAME: DEER FIRE SALVAGE SORTS

AGREEMENT NO: 30-93522 - 30-93530

AUCTION: March 22, 2016 starting at 10:00 a.m. Northeast Region Office, Colville, WA **COUNTY: Stevens** 

SALE LOCATION: Sale located approximately 14 miles west of Springdale, WA

#### **PRODUCTS SOLD AND SALE AREA:**

All dead and dying timber, except for leave trees as described in Schedule A, in Units 1, 2, 3, 4 and 5 bounded by white timber sale boundary tags meeting the specifications described below; on parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., containing 1038 acres, more or less.

#### MINIMUM BID AND ESTIMATED LOG VOLUMES:

| Agreement<br># | Sort<br># | Species and Sort<br>Specifications                  | Average<br>Log<br>Length | e Estimated<br>Volume |       | Tons<br>Per<br>MBF | Minim<br>Deliver<br>Prices |          | Total<br>Appraised<br>Value | Bid<br>Deposit |
|----------------|-----------|---|--------------------------|-----------------------|-------|--------------------|----------------------------|----------|-----------------------------|----------------|
|                |           |   | 0                        | Mbf                   | Tons  |                    | \$/mbf                     | \$/Ton   |                             |                |
| 30-093522      | 01        | DF/WL 11"+ dib                                      | N/A                      | 1387                  | 6935  | 5                  |                            | \$67.00  | \$464,645.00                | \$46,464.50    |
| 30-093523      | 02        | DF/WL 7-10" dib                                     | N/A                      | 1095                  | 6570  | 6                  |                            | \$57.00  | \$374,490.00                | \$37,449.00    |
| 30-093524      | 03        | ES/WH/DF/GF/LP/WL                                   | N/A                      | 1449                  | 9273  | 6.4                |                            | \$42.00  | \$389,466.00                | \$38,946.60    |
|                |           | 5-6" dib  |                          |                       |       |                    |                            |          |                             |                |
| 30-093525      | 04        | PP 11"+ dib   | N/A                      | 88                    | 484   | 5.5                |                            | \$43.60  | \$21,102.40                 | \$2,110.24     |
| 30-093526      | 05        | PP 7-10" dib  | N/A                      | 47                    | 352   | 7.5                |                            | \$30.70  | \$10,806.40                 | \$1,080.64     |
| 30-093528      | 07        | ES/WH/GF/ and non-<br>chuck DF/WL 11"+ dib          | N/A                      | 1983                  | 10510 | 5.3                |                            | \$55.00  | \$578,050.00                | \$57,805.00    |
| 30-093529      | 08        | ES/WH/GF/LP and<br>non-chuckable DF/WL<br>7-10" dib | N/A                      | 1557                  | 9654  | 6.2                |                            | \$50.00  | \$482,700.00                | \$48,270.00    |
| 30-093530      | 09        | WRC 5"+ dib   | N/A                      | 332                   | 1461  | 4.4                |                            | \$155.00 | \$226,455.00                | \$22,645.50    |

#### **Totals:**

7938 45239

\$2,547,714.80

**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

**ALLOCATION:** Export Restricted

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

**BIDDING PROCEDURES:** 

PAYMENT

**EXPIRATION DATE:** November 30, 2016

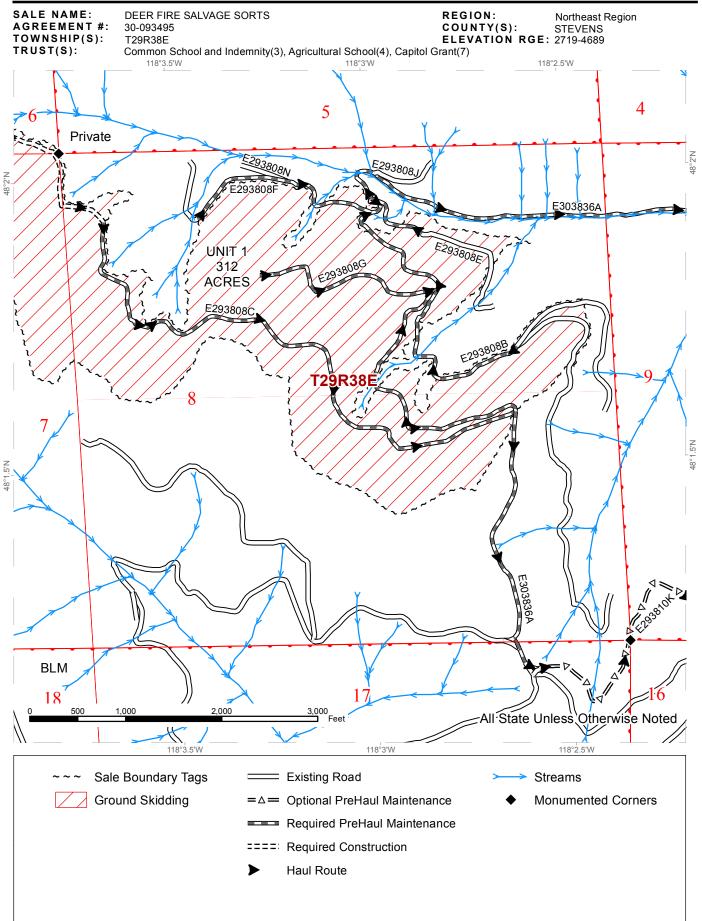
**JRES:** A separate sealed bid and envelope must be submitted for each log sort. Prospective Purchasers may bid on any or all log sorts. On the day of sale the Purchaser must bring their bid deposit up to 10% of their total bid price. Complete bidding procedures and auction information may be obtained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

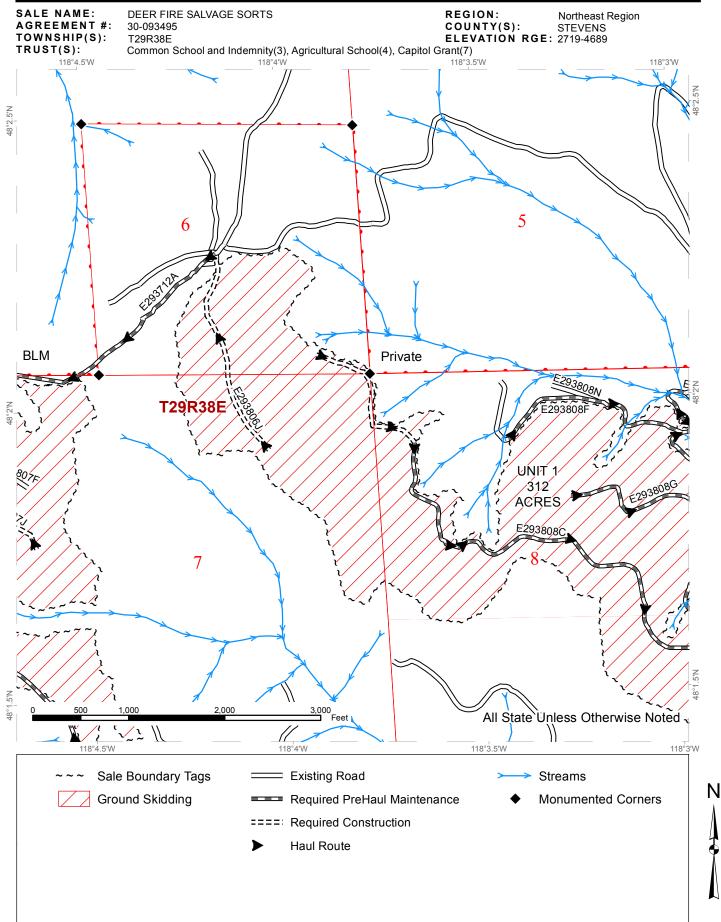
#### TIMBER EXCISE



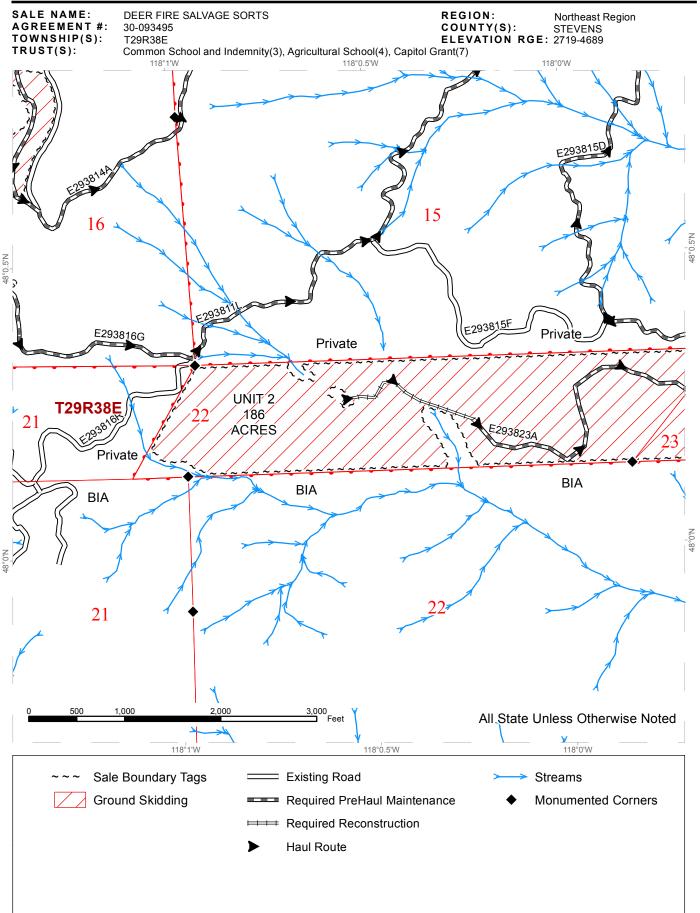
# INDED NOTICE OF CALE

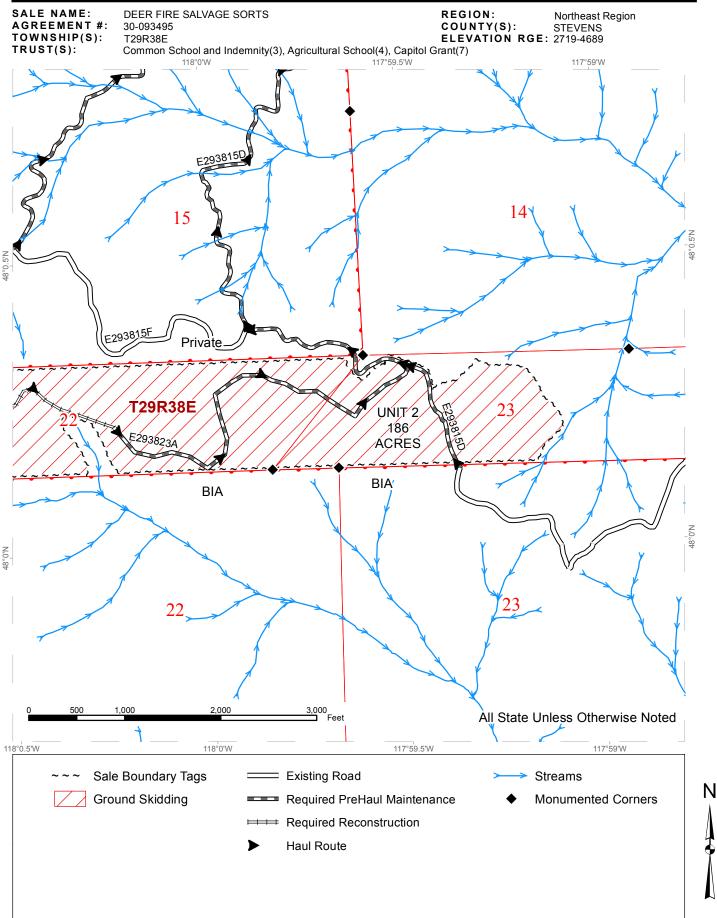
| TIMBER NOTICE O  | Purchaser must pay the forest excise taxes associated with the log sorts delivered to them.  |
|------------------|--|
| 144.             | The tax rate for this sale is 4.2 %. Taxable Stumpage = Total Delivered Value – (Harvest Cost + Estimated Haul Cost + ARRF). For more information 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, 05, 07, 08 and 09.  |
|                  | Hauling Services Payment Rate per Ton<br>= (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. |
|                  | Locked gate restricts access. Contact the Northeast Region Office at (509) 684-7474 for access. Fire scars burned through the bark and into the wood fiber will be bucked from the logs prior to delivery.   |
|                  | For more information regarding this log sort sale visit our web site:<br>http://www.dnr.wa.gov/programs-and-services/product-sales-and-leasing/timber-<br>sales/timber-auction-packets. If you have questions call Matt Ugladea at the Northeast<br>Region Office at (509)684-7474 or Steve Teitzel at the Product Sales and Leasing<br>Division Office in Olympia at (360)902-1741.   |

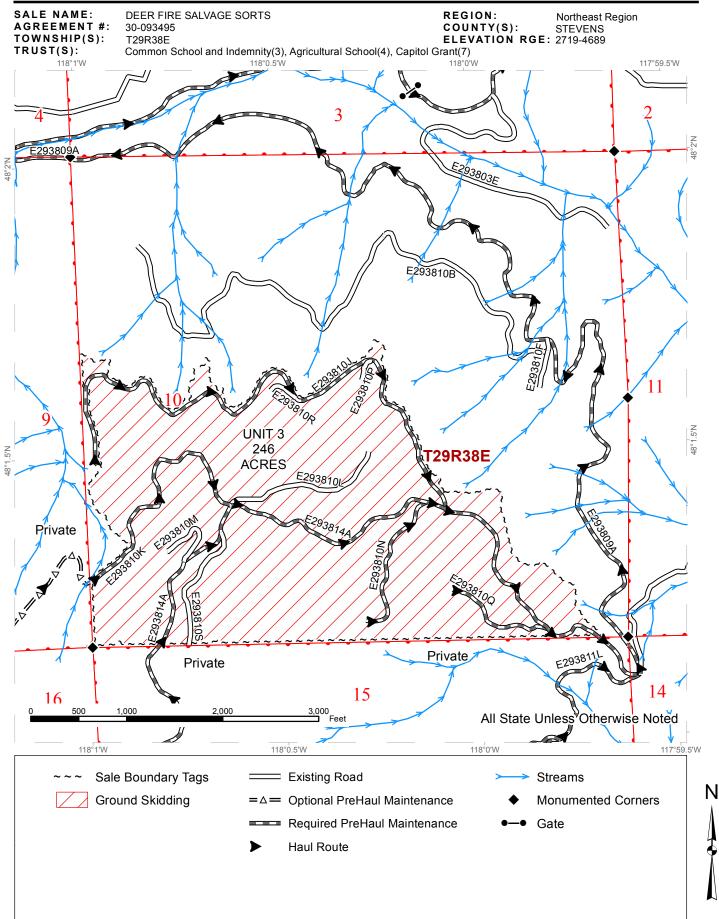


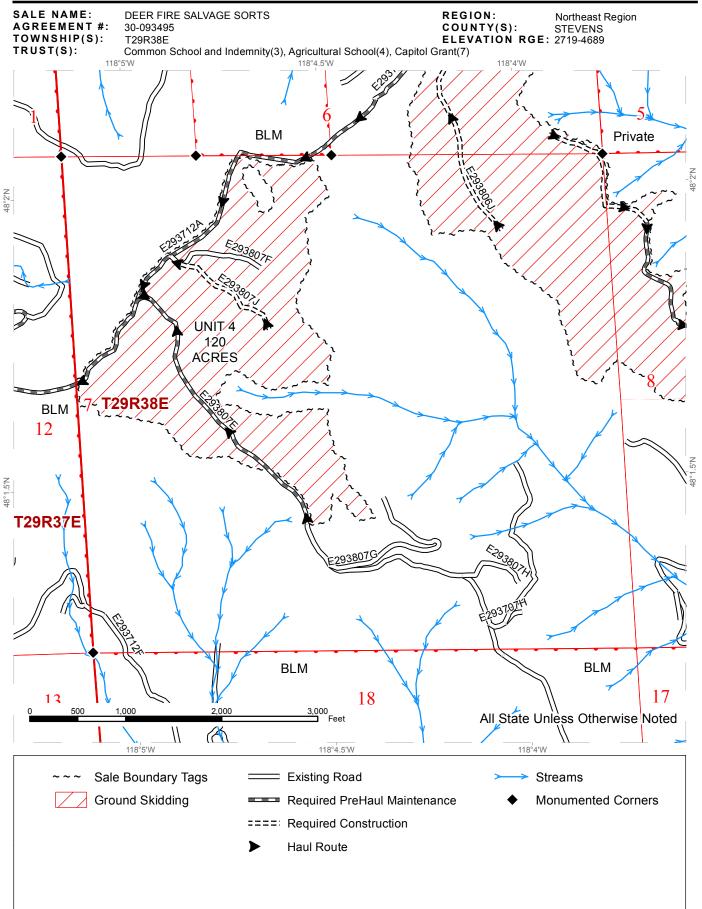


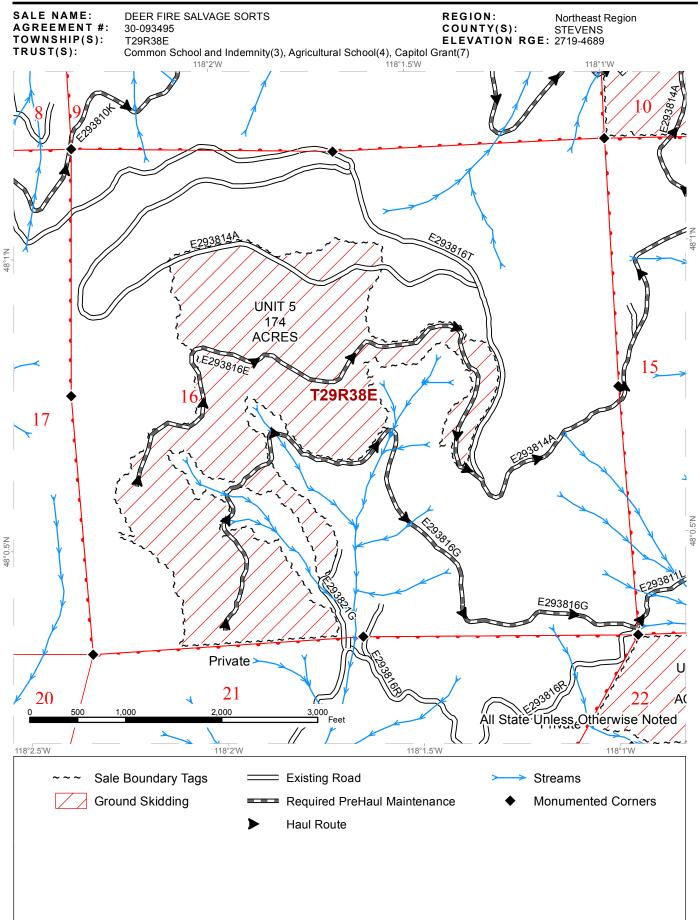
Prepared By: jmis490 01/04/2016



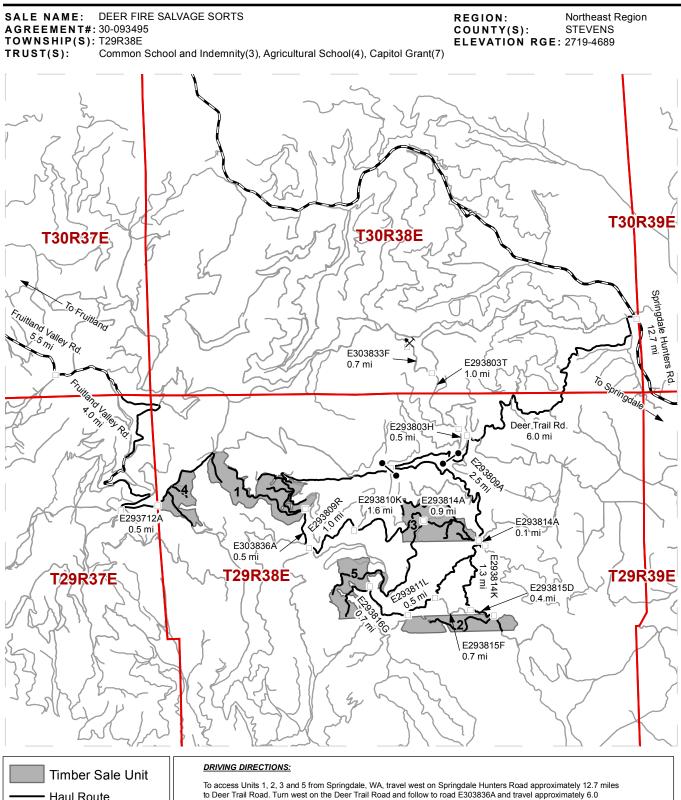








#### DRIVING MAP



miles. Cross the six mile bridge and travel east along road E293809A for 2.5 miles. At the five-way junction, take road E293814A and travel northwest approximately 0.1 miles to access Unit 3. To access Units 2 and 5, at the five-way junction, travel south on road E293814K for 1.3 miles. At the junction of

E293814K and E293815D, travel east on E283814D for 0.4 miles to Unit 2. To access Unit 5, at the junction of E293815K, E293815D and E293815F, turn west on E293815F, travel 0.7 miles to E293811L, travel southwest on E293811L 0.5 miles to E293816G, travel west on E293816G 0.7 miles to Unit 5. To access Unit 1, follow directions to Unit 3. At the junction of E293809A and E293814A, turn northeast on E293814A. Travel for 1.0 mile to the junction of E2938914A and E293810K. Travel west on the E293810K for 1.6 miles to the

junction of E293810K and E293809R. Travel southwest on the E293809R for 1.0 miles to the junction of E293809R and E303836A. Travel north for 0.5 miles on E303836A to Unit 1. To access Unit 4, from the intersection of Hwy 25 and Fruitland Valley Road in the town of Fruitland, WA, turn east on

Fruitland Valley Road off of Hwy 25, continue on Fruitland Valley Road approximately 5.5 miles to the intersection of Fruitland Valley Road and Turk Road. Continue southeast on Fruitland Valley Road for approximately 4.0 miles to the intersection of Fruitland Valley Road and E293712A road. Travel east for 0.5 miles on E293712A to Unit 4.

Haul Route

Other Route

County Road

Gate

×

Milepost Markers

**Existing Rock Pit** 

#### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

## AGREEMENT NO. 30-093522

## SALE NAME: DEER FIRE SALVAGE 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.

### DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description    | Destination |
|------------------|-----------|----------------|-------------|
| 93522            | 1         | DF/WL 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 | Sort | Scaling |
|-----------|------|---------|
| No.       | #    | Rule    |
| 93522     | 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) "A" log sort will have sound tight knots and not to exceed 1 ½ inch in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots ½ inch and smaller in diameter shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

## G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

## **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

- e. State Notification to Purchaser The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security

under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

#### **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

### G-065 Regulatory Disclaimer

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

### **G-070.2** Limitation on Damage

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

### G-112.2 Title

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

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

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

#### G-160.2 Agents

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

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

### G-180 Modifications

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

### **G-190** Contract Complete

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

### G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

### **G-210.2** Violation of Contract

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

## **G-240.2 Dispute Resolution**

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

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

### **G-252.2 Forest Excise Tax**

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

### **G-253.2 Harvesting Cost Information**

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

#### G-260 Venue

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

#### **G-330.2** Contract Review

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

#### Section P: Payments and Securities

#### P-010 Initial Deposit

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

## P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction =  $(B \times M) \times R$ Where:

B = Bid rate from P-028.2 clause

- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

### P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where: B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

## P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

## P-040.2 Weighing and Scaling Costs

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

## P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

### P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

### Section L: Log Definitions and Accountability

### L-010.2 Forest Products Conveyed

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

### L-014.2 Sorts Delivered to Incorrect Destination

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

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

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

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

#### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

#### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

### DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |  | )                  |             |                        |            |
|-------------------|--|--------------------|-------------|------------------------|------------|
| COUNTY OF         |  | )                  |             |                        |            |
| On this           | day of   |                    | , 20,       | before me              | personally |
|                   |  |                    | _ to me     | known to<br>_ of the c |            |
| that executed the | within and foregoing instru                                  | ument and acknow   |             |                        | -          |
| free and voluntar | y act and deed of the corpor<br>d that (he/she was) (they we | ration, for the us | es and purp | oses therein r         |            |

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 \_\_\_\_\_

### <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

#### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

## AGREEMENT NO. 30-093523

## SALE NAME: DEER FIRE SALVAGE 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.

### DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description     | Destination |
|------------------|-----------|-----------------|-------------|
| 93523            | 2         | DF/WL 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 | Sort | Scaling |
|-----------|------|---------|
| No.       | #    | Rule    |
| 93523     | 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) "A" log sort will have sound tight knots and not to exceed 1 ½ inch in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots ½ inch and smaller in diameter shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

## G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

## **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

- e. State Notification to Purchaser The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security

under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

#### **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

### G-065 Regulatory Disclaimer

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

### **G-070.2** Limitation on Damage

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

### G-112.2 Title

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

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

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

#### G-160.2 Agents

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

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

### G-180 Modifications

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

### **G-190** Contract Complete

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

### G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

### **G-210.2** Violation of Contract

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

## **G-240.2 Dispute Resolution**

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

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

### **G-252.2 Forest Excise Tax**

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

### **G-253.2 Harvesting Cost Information**

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

#### G-260 Venue

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

#### **G-330.2** Contract Review

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

#### Section P: Payments and Securities

#### P-010 Initial Deposit

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

## P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction =  $(B \times M) \times R$ Where:

B = Bid rate from P-028.2 clause

- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

### P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where: B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

# P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

# P-040.2 Weighing and Scaling Costs

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

# P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

## P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

### Section L: Log Definitions and Accountability

### L-010.2 Forest Products Conveyed

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

## L-014.2 Sorts Delivered to Incorrect Destination

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

### L-071.2 Log and Load Reporting Service

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

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

### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

### DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |  | )                  |             |                        |            |
|-------------------|--|--------------------|-------------|------------------------|------------|
| COUNTY OF         |  | )                  |             |                        |            |
| On this           | day of   |                    | , 20,       | before me              | personally |
|                   |  |                    | _ to me     | known to<br>_ of the c |            |
| that executed the | within and foregoing instru                                  | ument and acknow   |             |                        | -          |
| free and voluntar | y act and deed of the corpor<br>d that (he/she was) (they we | ration, for the us | es and purp | oses therein r         |            |

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 \_\_\_\_\_

### <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

# AGREEMENT NO. 30-093524

# SALE NAME: DEER FIRE SALVAGE 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.

## DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description                    | Destination |
|------------------|-----------|--------------------------------|-------------|
| 93524            | 3         | ES/WH/DF/GF/LP/WL 5-<br>6" dib |             |

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

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

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

| Agreement | Sort | Scaling |
|-----------|------|---------|
| No.       | #    | Rule    |
| 93524     | 03   | ES      |

| Average Log Length | Preferred Log Lengths |
|--------------------|-----------------------|
| N/A                |                       |

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

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

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

# G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

### **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

e. State Notification to Purchaser - The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.

f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

## **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

# G-065 Regulatory Disclaimer

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

### **G-070.2** Limitation on Damage

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

### G-112.2 Title

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

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

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

### G-160.2 Agents

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

The Purchaser agrees to notify the State in writing of their authorized representative at the log delivery destination who will be readily available and who shall be authorized

to receive, on behalf of the Purchaser any instructions or notices given by the State in regard to performance under this contract, and any limits to this person's authority.

### G-180 Modifications

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

### **G-190** Contract Complete

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

### G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

# **G-210.2** Violation of Contract

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

### **G-240.2 Dispute Resolution**

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

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

### **G-252.2 Forest Excise Tax**

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

# **G-253.2 Harvesting Cost Information**

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

### G-260 Venue

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

### **G-330.2** Contract Review

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

# Section P: Payments and Securities

# P-010 Initial Deposit

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

to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

## P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction = (B x M) x R Where:

- B = Bid rate from P-028.2 clause
- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

# P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where:

B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

# P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

### P-040.2 Weighing and Scaling Costs

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

### P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

## P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

### Section L: Log Definitions and Accountability

### L-010.2 Forest Products Conveyed

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

## L-014.2 Sorts Delivered to Incorrect Destination

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

### L-071.2 Log and Load Reporting Service

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

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

### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

## DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |   | )                |        |                    |        |      |
|-------------------|---|------------------|--------|--------------------|--------|------|
| COUNTY OF         |   | )                |        |                    |        |      |
| On this           | day of  |                  | _, 20, | before me          | person | ally |
|                   |   |                  | to me  | known to<br>of the |        |      |
| that executed the | within and foregoing instr                                  | ument and acknow |        |                    | 1      |      |
| •                 | y act and deed of the corpo<br>l that (he/she was) (they we |                  |        |                    |        | ned, |

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 \_\_\_\_\_

### <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

# AGREEMENT NO. 30-093525

# SALE NAME: DEER FIRE SALVAGE 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.

## DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description | Destination |
|------------------|-----------|-------------|-------------|
| 93525            | 4         | PP 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<br># | Scaling<br>Rule |
|---------------|-----------|-----------------|
| 93525         | 04        | ES              |

| Average Log Length | Preferred Log Lengths |
|--------------------|-----------------------|
| N/A                |                       |

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

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

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

# G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

# **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

- e. State Notification to Purchaser The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security

under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

### **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

### G-065 Regulatory Disclaimer

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

### **G-070.2** Limitation on Damage

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

### G-112.2 Title

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

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

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

### G-160.2 Agents

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

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

### G-180 Modifications

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

### **G-190** Contract Complete

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

### G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

### **G-210.2** Violation of Contract

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

# **G-240.2 Dispute Resolution**

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

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

### **G-252.2 Forest Excise Tax**

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

### **G-253.2 Harvesting Cost Information**

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

### G-260 Venue

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

### **G-330.2** Contract Review

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

### Section P: Payments and Securities

### P-010 Initial Deposit

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

# P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction =  $(B \times M) \times R$ Where:

B = Bid rate from P-028.2 clause

- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

### P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where: B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

# P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

# P-040.2 Weighing and Scaling Costs

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

# P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

# P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## Section L: Log Definitions and Accountability

## L-010.2 Forest Products Conveyed

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

# L-014.2 Sorts Delivered to Incorrect Destination

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

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

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

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

#### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

#### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

# DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |  | )                  |             |                        |            |
|-------------------|--|--------------------|-------------|------------------------|------------|
| COUNTY OF         |  | )                  |             |                        |            |
| On this           | day of   |                    | , 20,       | before me              | personally |
|                   |  |                    | _ to me     | known to<br>_ of the c |            |
| that executed the | within and foregoing instru                                  | ument and acknow   |             |                        | -          |
| free and voluntar | y act and deed of the corpor<br>d that (he/she was) (they we | ration, for the us | es and purp | oses therein r         |            |

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 \_\_\_\_\_

## <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

# AGREEMENT NO. 30-093526

# SALE NAME: DEER FIRE SALVAGE 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.

# DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description  | Destination |
|------------------|-----------|--------------|-------------|
| 93526            | 5         | PP 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.       | #  | Rule |
| 93526     | 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. Surface characteristics for a high quality (HQ) "A" log sort will have sound tight knots and not to exceed 1 ½ inch in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots ½ inch and smaller in diameter shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

# G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

# **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

- e. State Notification to Purchaser The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security

under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

#### **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

## G-065 Regulatory Disclaimer

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

## **G-070.2** Limitation on Damage

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

## G-112.2 Title

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

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

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

#### G-160.2 Agents

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

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

## G-180 Modifications

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

## **G-190** Contract Complete

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

## G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

## **G-210.2** Violation of Contract

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

# **G-240.2 Dispute Resolution**

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

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

## **G-252.2 Forest Excise Tax**

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

## **G-253.2 Harvesting Cost Information**

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

#### G-260 Venue

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

#### **G-330.2** Contract Review

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

#### Section P: Payments and Securities

#### P-010 Initial Deposit

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

# P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction =  $(B \times M) \times R$ Where:

B = Bid rate from P-028.2 clause

- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

# P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where: B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

# P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

# P-040.2 Weighing and Scaling Costs

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

# P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

# P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## Section L: Log Definitions and Accountability

## L-010.2 Forest Products Conveyed

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

# L-014.2 Sorts Delivered to Incorrect Destination

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

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

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

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

#### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

#### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

# DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |   | )                |        |                    |        |      |
|-------------------|---|------------------|--------|--------------------|--------|------|
| COUNTY OF         |   | )                |        |                    |        |      |
| On this           | day of  |                  | _, 20, | before me          | person | ally |
|                   |   |                  | to me  | known to<br>of the |        |      |
| that executed the | within and foregoing instr                                  | ument and acknow |        |                    | 1      |      |
| •                 | y act and deed of the corpo<br>l that (he/she was) (they we |                  |        |                    |        | ned, |

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 \_\_\_\_\_

## <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

# AGREEMENT NO. 30-093528

# SALE NAME: DEER FIRE SALVAGE SORT 07

# 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.

# DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description                                  | Destination |
|------------------|-----------|--|-------------|
| 93528            | 7         | ES/WH/GF/LP and non-<br>chuck DF/WL 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 | Sort | Scaling |
|-----------|------|---------|
| No.       | #    | Rule    |
| 93528     | 07   | ES      |

| Average Log Length | Preferred Log Lengths |
|--------------------|-----------------------|
| N/A                |                       |

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

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

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

# G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

#### **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

e. State Notification to Purchaser - The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.

f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

# **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

# G-065 Regulatory Disclaimer

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

# **G-070.2** Limitation on Damage

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

#### G-112.2 Title

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

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

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

#### G-160.2 Agents

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

The Purchaser agrees to notify the State in writing of their authorized representative at the log delivery destination who will be readily available and who shall be authorized

to receive, on behalf of the Purchaser any instructions or notices given by the State in regard to performance under this contract, and any limits to this person's authority.

## G-180 Modifications

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

### **G-190** Contract Complete

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

## G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

# **G-210.2** Violation of Contract

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

### **G-240.2 Dispute Resolution**

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

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

## **G-252.2 Forest Excise Tax**

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

# **G-253.2 Harvesting Cost Information**

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

#### G-260 Venue

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

#### **G-330.2** Contract Review

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

# Section P: Payments and Securities

# P-010 Initial Deposit

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

to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

# P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction = (B x M) x R Where:

- B = Bid rate from P-028.2 clause
- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

# P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where:

B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

# P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

## P-040.2 Weighing and Scaling Costs

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

#### P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

# P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## Section L: Log Definitions and Accountability

## L-010.2 Forest Products Conveyed

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

# L-014.2 Sorts Delivered to Incorrect Destination

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

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

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

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

#### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

#### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

## DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |  | )                  |             |                        |            |
|-------------------|--|--------------------|-------------|------------------------|------------|
| COUNTY OF         |  | )                  |             |                        |            |
| On this           | day of   |                    | , 20,       | before me              | personally |
|                   |  |                    | _ to me     | known to<br>_ of the c |            |
| that executed the | within and foregoing instru                                  | ument and acknow   |             |                        | -          |
| free and voluntar | y act and deed of the corpor<br>d that (he/she was) (they we | ration, for the us | es and purp | oses therein r         |            |

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 \_\_\_\_\_

## <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

# LOG SALE AND PURCHASE CONTRACT

## AGREEMENT NO. 30-093529

## SALE NAME: DEER FIRE SALVAGE SORT 08

## 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.

## DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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 | Sort | Description  | Destination |
|-----------|------|--|-------------|
| No.       | #    |  |             |
| 93529     | 8    | ES/WH/GF/LP and non-<br>chuckable DF/WL 7-10"<br>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 | Sort | Scaling |
|-----------|------|---------|
| No.       | #    | Rule    |

93529 08 ES

| Average Log Length | Preferred Log Lengths |
|--------------------|-----------------------|
| N/A                |                       |

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

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

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

### G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

### **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

e. State Notification to Purchaser - The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.

f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

#### **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

### G-065 Regulatory Disclaimer

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

#### **G-070.2** Limitation on Damage

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

### G-112.2 Title

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

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

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

#### G-160.2 Agents

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

The Purchaser agrees to notify the State in writing of their authorized representative at the log delivery destination who will be readily available and who shall be authorized

to receive, on behalf of the Purchaser any instructions or notices given by the State in regard to performance under this contract, and any limits to this person's authority.

## G-180 Modifications

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

### **G-190** Contract Complete

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

## G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

## **G-210.2** Violation of Contract

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

### **G-240.2 Dispute Resolution**

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

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

## **G-252.2 Forest Excise Tax**

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

## **G-253.2 Harvesting Cost Information**

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

### G-260 Venue

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

### **G-330.2** Contract Review

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

## Section P: Payments and Securities

## P-010 Initial Deposit

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

to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

## P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction = (B x M) x R Where:

- B = Bid rate from P-028.2 clause
- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

## P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where:

B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

# P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

## P-040.2 Weighing and Scaling Costs

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

### P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

## P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## Section L: Log Definitions and Accountability

## L-010.2 Forest Products Conveyed

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

## L-014.2 Sorts Delivered to Incorrect Destination

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

### L-071.2 Log and Load Reporting Service

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

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

### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

## DRAFT

# CORPORATE ACKNOWLEDGEMENT

| STATE OF          |  | )                  |             |                        |            |
|-------------------|--|--------------------|-------------|------------------------|------------|
| COUNTY OF         |  | )                  |             |                        |            |
| On this           | day of   |                    | , 20,       | before me              | personally |
|                   |  |                    | _ to me     | known to<br>_ of the c |            |
| that executed the | within and foregoing instru                                  | ument and acknow   |             |                        | -          |
| free and voluntar | y act and deed of the corpor<br>d that (he/she was) (they we | ration, for the us | es and purp | oses therein r         |            |

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 \_\_\_\_\_

## <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.

### STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

## LOG SALE AND PURCHASE CONTRACT

## **AGREEMENT NO. 30-093530**

## SALE NAME: DEER FIRE SALVAGE SORT 09

## 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.

## DRAFT

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 March 22, 2016 and sale was confirmed on \_\_\_\_\_\_. The State, as owner, agrees to sell and deliver to the Purchaser logs meeting the log sort specifications as described in the G-022.2 clause. Logs will be delivered from the DEER FIRE SALVAGE SORTS Timber Sale described as parts of Sections 6, 7, 8, 10, 16, 22, and 23 all in Township 29 North, Range 38 East W.M., in Stevens 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<br>No. | Sort<br># | Description | Destination |
|------------------|-----------|-------------|-------------|
| 93530            | 9         | WRC 5"+ 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 | Sort | Scaling |
|-----------|------|---------|
| No.       | #    | Rule    |
| 93530     | 09   | ES      |

| Average Log Length | Preferred Log Lengths |
|--------------------|-----------------------|
| N/A                |                       |

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

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

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

## G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title               |
|----------|---------------------|
| А        | Sort Specifications |

## **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 20 truck deliveries of any one sort per day, Purchaser will be in breach of contract and subject to damages as per the D-026.2 and D-027.2 clauses. A truck delivery is all the wood delivered including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. The Purchaser shall notify the Contract Administrator at least 48 hours in advance if:

1. Purchaser intends to limit the number of truck deliveries accepted on any day to less than that listed above, or

2. Purchaser intends to limit the number of truck deliveries accepted on any day to the number listed above.

- e. State Notification to Purchaser The State will notify the Purchaser when it anticipates or schedules an interruption of deliveries and when it anticipates the number of truck deliveries on any day will exceed the number listed above.
- f. If payments are not received or, the State determines that the payment security has become unsatisfactory or, a demand is made against the payment security

under the P-045.2 clause the State shall suspend deliveries until such time as the violation has been remedied. Any suspension of deliveries due to late payment or inadequate payment security will be considered a Log Delivery Interruption under (c) of this clause.

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

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

### **G-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, QUANITY, OR QUALITY, of the forest products to be harvested. The descriptions of the forest products to be conveyed, are estimates only, made solely for administrative and identification purposes. The timing of forest product deliveries.
- d. Items contained in any other documents prepared for or by the State.

## G-065 Regulatory Disclaimer

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

## **G-070.2** Limitation on Damage

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

## G-112.2 Title

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

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

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

### G-160.2 Agents

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

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

## G-180 Modifications

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

## **G-190** Contract Complete

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

## G-200.2 Notice

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

G-026.2 Log Delivery Destination G-027.2 Log Delivery and Schedule Conditions G-210.2 Violation of Contract

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

## **G-210.2** Violation of Contract

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

## **G-240.2 Dispute Resolution**

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

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

## **G-252.2 Forest Excise Tax**

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

## **G-253.2 Harvesting Cost Information**

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

### G-260 Venue

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

### **G-330.2** Contract Review

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

### Section P: Payments and Securities

### P-010 Initial Deposit

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

## P-028.2 Payment for Forest Products Delivered

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

\$0.00/Ton

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

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

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

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

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

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

Payment Reduction =  $(B \times M) \times R$ Where:

B = Bid rate from P-028.2 clause

- M = Mis-sorted volume exceeding threshold excluding utility
- R = Reduction factor
  - 0.3 for mis-sort except for blue stain
  - 0.4 for mis-sort related to blue stain

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

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

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

## P-037.2 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:

Payment Reduction =  $(B \times M) \times (0.2)$ Where: B = Bid rate from P-028.2 clause

M = Mis-manufactured volume exceeding threshold excluding utility

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

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

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

## P-039.2 Tonnage Sort Payment Reduction Requirements

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

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

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

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

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

## P-040.2 Weighing and Scaling Costs

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

## P-045.2 Guarantee of Payment

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

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

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

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

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

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

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

## P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

## Section L: Log Definitions and Accountability

## L-010.2 Forest Products Conveyed

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

## L-014.2 Sorts Delivered to Incorrect Destination

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

### L-071.2 Log and Load Reporting Service

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

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

### L-090 Scaling Rules

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

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

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

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

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

### Section D: Damages

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

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

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

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

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

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

- a. When Purchaser's refusal to accept forest products does not prevent further harvesting operations, or forest products can be re-sold to another buyer acceptable to the State, Purchaser shall be liable for and pay State for actual damages plus costs, as determined by the State associated with the administration and re-sale of forest products not accepted by Purchaser under the terms of this contract.
- b. When Purchaser's refusal to accept forest products causes a stoppage of the State's harvesting operations and prevents the State from further harvest of the sale area, the actual damage to the State and associated costs are difficult to assess. The remaining value of all the forest products left in the sale area once the stoppage occurs is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans. Therefore, Purchaser agrees to pay the State as liquidated damages, a sum calculated using the following formula:

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

Where:

LD = Liquidated Damages

V = The stumpage value remaining in the sale area at the date of work stoppage. This will be determined by multiplying the contract bid rate contained in the P-028.2 clause for all sorts originating in the sale area, by the State's estimate of the remaining volume, less the cost of harvesting and delivery associated with each sort. I = Initial Deposit

C = Costs associated with required harvesting services and road construction services prior to work stoppage but not amortized or paid.

A = Administrative fee = \$2,500.00

P = Advance payments received exceeding the value of logs delivered under this contract.

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

Interest =  $r \times LD \times N$ 

Where:

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

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

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

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

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

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

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

Purchaser

Loren D. Torgerson Northeast Region Manager

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

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

### DRAFT

### CORPORATE ACKNOWLEDGEMENT

| STATE OF          |  | )                  |             |                        |            |
|-------------------|--|--------------------|-------------|------------------------|------------|
| COUNTY OF         |  | )                  |             |                        |            |
| On this           | day of   |                    | , 20,       | before me              | personally |
|                   |  |                    | _ to me     | known to<br>_ of the c |            |
| that executed the | within and foregoing instru                                  | ument and acknow   |             |                        | -          |
| free and voluntar | y act and deed of the corpor<br>d that (he/she was) (they we | ration, for the us | es and purp | oses therein r         |            |

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 \_\_\_\_\_

### <u>Schedule A</u> Sort Specifications

Sort #1: Douglas fir and western larch 11 inches and greater in diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #7. If the Purchaser designates sawlog lengths, 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 #7.

Sort #2: Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. If Purchaser designates peeler lengths, then chuckability standards apply to the logs. Nonchuckable logs will be delivered to the Purchaser of Sort #8. If the Purchaser designates sawlog lengths, 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 #8.

Sort #3: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 5 inches to 6 inches diameter inside the bark.

Sort #4: Ponderosa pine 11 inches and greater in diameter inside the bark.

Sort #5: Ponderosa pine 7 inches to 10 inches diameter inside the bark.

Sort #6: Blue Stain ponderosa pine 7 inches and greater in diameter inside the bark.

Sort #7: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 11 inches and greater in diameter inside the bark. See Sort #1 description for handling procedures for Douglas fir and western larch.

Sort #8: Lodgepole pine, grand fir, Engelmann spruce, western hemlock, Douglas fir and western larch 7 inches to 10 inches diameter inside the bark. See Sort #2 description for handling procedures for Douglas fir and western larch.

Sort #9: Western red cedar 5 inches and greater in diameter inside the bark.



### WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

### FOREST EXCISE TAX ROAD SUMMARY SHEET

**Region:** 

Timber Sale Name:

**Application Number:** 

**EXCISE TAX APPLICABLE ACTIVITIES** 

Construction: linear feet Road to be constructed (optional and required) but not abandoned

**Reconstruction:** linear feet Road to be reconstructed (optional and required) but not abandoned

Abandonment:linear feetAbandonment of existing roads not reconstructed under the contract

**Decommission:** *Road to be made undriveable but not officially abandoned.* 

 Pre-Haul Maintenance:
 linear feet

 Existing road to receive maintenance work (specifically required by the contract) prior to haul

**EXCISE TAX EXEMPT ACTIVITIES** 

| <b>Temporary Optional Construction:</b><br><i>Optional roads to be constructed and then abandoned</i>     | linear feet |
|---|-------------|
| <b>Temporary Optional Reconstruction:</b><br><i>Optional roads to be reconstructed and then abandoned</i> | linear feet |

**New Abandonment:** linear feet Abandonment of roads constructed or reconstructed under the contract

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contact. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829. (Revised 4/09)

linear feet

# **Cruise Narrative**

| Sale Name: Deer Fire Salvage   | Region: Northeast   |
|--|---|
| Agreement Number: 30-093495  | District: Arcadia   |
| Lead Cruiser: Jim Putnam   | Completion Date: 1/12/2016                                    |
| Other Cruisers on sale: Nathan Simpkins, Randy<br>Burke, Pete Malninak, Joe Hoagland, Dan Griggs | Legal: Sections 6, 7, 8, 10, 16, 22 and 23, T29N,<br>R38E WM. |

| Unit Acre | eage Specificat | ions:     |                    |      |                     |                        |       |
|-----------|-----------------|-----------|--------------------|------|---------------------|------------------------|-------|
| Unit #    | Gross Acres     | Net Acres | Total<br>Deletions | •    | Leave Tree<br>Acres | Existing<br>Road Acres | Other |
| 1         | 316.59          |           |                    |      | AUCS                | 4.80                   |       |
| 2         | 189.71          |           |                    |      |                     | 3.17                   | 1.00  |
| 3         | 253.43          |           |                    |      |                     | 7.23                   |       |
| 4         | 123.70          | 119.68    | 4.02               |      |                     | 3.02                   | 1.00  |
| 5         | 177.94          | 174.42    | 3.52               |      |                     | 3.52                   |       |
| Total     | 1061.37         | 1037.63   | 23.74              | 0.00 | 0.00                | 21.74                  | 2.00  |

### **Cruise Sample Design:**

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

| Unit # | Small BAF | Large BAF | Sighting | Grid size        | %            | %            | Total     |
|--------|-----------|-----------|----------|------------------|--------------|--------------|-----------|
|        | (count)   | (cruise)  | height   | (plot spacing in | Cruise to    | Cruise to    | number of |
|        |           |           |          | feet)            | count Target | count Actual | Plots     |
| 1      | 33.61     | 134.44    | D4H      | 450 x 450        | 25%          | 18.8%        | 58        |
| 2      | 27.78     | 111.11    | D4H      | 450 x 450        | 25%          | 20.5%        | 48        |
| 3      | 33.61     | 134.44    | D4H      | 450 x 450        | 25%          | 22.1%        | 58        |
| 4      | 33.61     | 134.44    | D4H      | 450 x 450        | 25%          | 24.1%        | 26        |
| 5      | 33.61     | 134.44    | D4H      | 450 x 450        | 25%          | 20.9%        | 39        |
| Total  |           |           |          |                  |              | 20.9%        | 229       |

## **Cruise Specifications:**

| Minor species cruise intensity:                              | We grade the fin<br>BAF; then follow  |                                    | •                 |               |           |  |  |  |  |  |  |  |
|--|---|------------------------------------|-------------------|---------------|-----------|--|--|--|--|--|--|--|
| Minimum top dib:   | Ponderosa pine  |                                    |                   | - to large DA |           |  |  |  |  |  |  |  |
|  | •   | han 17.5" DBH                      |                   | m top of 5.6' | " dib.    |  |  |  |  |  |  |  |
|  |   | and greater DI                     |                   | •             |           |  |  |  |  |  |  |  |
|  | DOB at 16'or a 6" top whichever is greater.   |                                    |                   |               |           |  |  |  |  |  |  |  |
|  |   |                                    |                   |               |           |  |  |  |  |  |  |  |
|  | All other specie  |                                    |                   |               | ,         |  |  |  |  |  |  |  |
|  | Trees less than 17.5" DBH have a minimum top of 5.6" dib.<br>Trees 17.6" and greater DBH have a minimum top dib of 40% of |                                    |                   |               |           |  |  |  |  |  |  |  |
|  |   | and greater Di<br>t 16'or a 6" top |                   | •             | of 40% of |  |  |  |  |  |  |  |
|  | DOB a   |                                    | whichever is g    | lealer.       |           |  |  |  |  |  |  |  |
| Minimum dbh:   | Ponderosa pine:   | 8.0 inches DBH                     | 1                 |               |           |  |  |  |  |  |  |  |
|  | All other species   | s: 7.0 inches DB                   | Н                 |               |           |  |  |  |  |  |  |  |
| Log lengths:   | Saw logs: 32 fee  | •                                  |                   |               |           |  |  |  |  |  |  |  |
| Take / Leave tree description:                               | Harvest all trees   |                                    | e take tree crite | ria of the un | it's      |  |  |  |  |  |  |  |
|  | prescription.   |                                    |                   |               |           |  |  |  |  |  |  |  |
|  |   | Take Tree Prescription Summary     |                   |               |           |  |  |  |  |  |  |  |
|  | Species   | DF & WL                            | GF, RC, AF,       | PP            | WL Unit 4 |  |  |  |  |  |  |  |
|  | Demonstrall   | 70.110                             | ES, WH & LP       |               |           |  |  |  |  |  |  |  |
|  | Remove all trees with   | 7.0 - 11.9                         | 7.0 - 26.0        |               | Any DBH   |  |  |  |  |  |  |  |
|  | less than this  | DBH                                | DBH               |               |           |  |  |  |  |  |  |  |
|  | dbh   |                                    |                   |               |           |  |  |  |  |  |  |  |
|  | Remove all  | DF only 12.0                       | 26.1 and          |               |           |  |  |  |  |  |  |  |
|  | trees with  | and greater                        | greater DBH       |               |           |  |  |  |  |  |  |  |
|  | less than 50%   | DBH                                | Breater DBH       |               |           |  |  |  |  |  |  |  |
|  | live crown  |                                    |                   |               |           |  |  |  |  |  |  |  |
|  | Remove all  |                                    |                   | Any DBH       |           |  |  |  |  |  |  |  |
|  | trees with  |                                    |                   |               |           |  |  |  |  |  |  |  |
|  | less than 30%   |                                    |                   |               |           |  |  |  |  |  |  |  |
|  | live crown  |                                    |                   |               |           |  |  |  |  |  |  |  |
| Commercial species observed in sale area, but not in cruise: |   |                                    |                   |               |           |  |  |  |  |  |  |  |
| Utility wood:  | None  |                                    |                   |               |           |  |  |  |  |  |  |  |
| Status codes used:   | L – leave tree  |                                    |                   |               |           |  |  |  |  |  |  |  |
| Sort codes used  | D – saw log   |                                    |                   |               |           |  |  |  |  |  |  |  |
| Species table used:  | NE 2 inch   |                                    |                   |               |           |  |  |  |  |  |  |  |
| Grade table used:  | Eastgrad  |                                    |                   |               |           |  |  |  |  |  |  |  |
| Other tables used  |   |                                    |                   |               |           |  |  |  |  |  |  |  |
| (cruise adjustment):   |   |                                    |                   |               |           |  |  |  |  |  |  |  |

### **Field Observations:**

| Location:              | 61 road miles south of Colville, WA in southern Stevens County.            |
|------------------------|--|
| Aspect:                | North, East, South and West  |
| Elevation:             | 2720-4680  |
| Slope:                 | Unit 1 – 0% to 60%, Average 35%  |
|                        | Unit 2 – 0% to 40%, Average 25%  |
|                        | Unit 3 – 0% to 45%, Average 30%  |
|                        | Unit 4 – 0% to 55%, Average 35%  |
|                        | Unit 5 – 0% to 55%, Average 35%  |
| Harvest Methods:       | 100% Ground base yarding with the longest skidding of 1320 feet.           |
| Stand Composition:     | The stands are fire damaged second growth Douglas-fir and grand fir        |
|                        | with larger residual trees. There is a minor component of western          |
|                        | larch, western red cedar ponderosa pine, lodgepole pine engelmann          |
|                        | spruce and western hemlock.  |
| Stand Health:          | The trees in this sale were killed by the Carpenter Road Fire which        |
|                        | burned in August, 2015.  |
|                        | Bark beetles are active and the woodpeckers are working on those trees     |
| Timber Quality:        | This sale is a mix of poor quality Grand fir (48%), Douglas-fir (38%), red |
|                        | cedar (4%), western larch (4%) ponderosa pine (2%), lodgepole pine         |
|                        | (1%), engelmann spruce (0.6%) and western hemlock (0.6%).                  |
| Non-board Foot Volume: | None cruised   |
| Other Considerations:  | This sale will be sold on the tons of logs removed from the sale area.     |

### **Trust and Counties:**

|            |               | Based or      | n Volume      |            | Bas         | ed on Acres |
|------------|---------------|---------------|---------------|------------|-------------|-------------|
| Unit #     | Trust 03 Vol. | Trust 04 Vol. | Trust 07 Vol. | Total Vol. | Stevens Co. | Spokane     |
| 1          | 2900          | 647           | 471           | 4018       | 311.79      |             |
| 2          | 1040          |               |               | 1040       | 185.54      |             |
| 3          |               | 796           |               | 796        | 246.2       |             |
| 4          | 1435          |               |               | 1435       | 119.68      |             |
| 5          | 699           |               |               | 699        | 174.42      |             |
| Total      | 6074          | 1443          | 471           | 7988       | 1037.63     | 0           |
| % of Total | 76.04%        | 18.06%        | 5.90%         | 100.00%    | 100.00%     | 0.00%       |

Prepared by: Dan Griggs

Title: Check Cruiser 1

**CC:** Timber Sales Document Center & File # 30-093495

| TC        | PSPCSTGR       |          | SI          | pecies, S      | Sort G         | rade - Board   | d Fo     | ot Vo    | olumo    | es (P   | roject   |                   |          |         |            |              |              |
|-----------|----------------|----------|-------------|----------------|----------------|----------------|----------|----------|----------|---------|----------|-------------------|----------|---------|------------|--------------|--------------|
| TO        | 9N R38E S07    | TVOOL    | 4           |                |                | Project:       | DE       | ERF      | SAL      |         |          |                   |          | Page    |            | 1            |              |
| 12:       | THRU           | 1 9000   | +           |                |                | Acres          | 1.       | 037.6    | 53       |         |          |                   |          | Date    |            | 19/20        |              |
| T29       | 9N R38E S22    | Ty00U    | 2           |                |                |                | _,       |          |          |         |          |                   |          | Time    | 1          | :39:4        | 4PM          |
| -         |                | %        |             |                |                | 1              | Perc     | cent of  | Net Bo   | oard Fo | oot Volu | ime               |          | Avera   | ge Lo      | g            | Logs         |
|           | S So Gr        | Net      | Bd. Ft      | . per Acre     |                | Total          | L        | .og Sca  | ale Dia. |         |          | Log Length        | Ln       | Dia     | Bd         | CF/          | Per          |
| Spp       | T rt ad        | BdFt     | Def%        | Gross          | Net            | Net MBF        | 4-5      | 6-11     | 12-16    | 17+     | 12-20    | 21-32 33-55 56-99 | Ft       | In      | Ft         | Lf           | /Acre        |
| DF        | D 2            | 30       | 4.3         | 935            | 894            | 928            |          |          | 96       | 4       |          | 100               | 32       |         | 258        | 1.79         | 3.5          |
| DF<br>DF  | D 3<br>D 4     | 48<br>22 | 3.1<br>3.5  | 1,475<br>658   | 1,429<br>634   | 1,483<br>658   | 69       | 89<br>31 | 11       |         | 26       | 100<br>74         | 32<br>24 | 9<br>5  | 110<br>28  | 0.82<br>0.34 | 13.0<br>22.5 |
|           |                |          |             |                |                |                |          |          | 24       |         |          |                   |          |         |            |              |              |
|           | Totals         | 34       | 3.6         | 3,067          | 2,958          | 3,069          | 15       | 50       | 34       | 1       | 6        | 94                | 27       | 7       |            | 0.68         | 38.9         |
|           | L D 2<br>L D 3 | 22<br>65 | 2.3         | 210<br>623     | 210<br>609     | 218<br>632     |          | 91       | 100<br>9 |         |          | 100<br>100        | 32<br>32 | 12<br>9 | 190<br>117 | 1.38<br>0.77 | 1.1<br>5.2   |
|           | LDJ<br>LD4     | 13       | 2.5         | 117            | 117            | 121            | 67       | 33       | ,        |         | 25       | 75                | 25       | 5       |            | 0.39         | 3.9          |
| DF        | Totals         | 11       | 1.5         | 950            | 936            | 971            | 8        | 64       | 28       |         | 3        | 97                | 29       | 8       | 91         | 0.72         | 10.3         |
|           |                |          |             |                |                |                |          |          | -        |         | -        |                   |          |         |            |              |              |
| WL        | D 3            | 31       |             | 101            | 101            | 105            |          | 100      |          |         |          | 100               | 32       | 7       | 63         | 0.44         | 1.6          |
| WL        | D 4            | 69       | 15.3        | 255            | 216            | 224            | 48       | 52       |          |         | 16       | 84                | 26       | 5       | 28         | 0.20         | 7.8          |
| WL        | Totals         | 4        | 11.0        | 356            | 317            | 329            | 33       | 67       |          |         | 11       | 89                | 27       | 6       | 34         | 0.25         | 9.4          |
|           | L D 3          | 75       | 14.3        | 135            | 116            | 120            |          | 100      |          |         |          | 100               | 32       | 8       | 60         | 0.57         | 1.9          |
| WL        | LD4            | 25       |             | 39             | 39             | 40             |          | 100      |          |         | 100      |                   | 18       | 6       | 20         | 0.27         | 1.9          |
| WL        | Totals         | 2        | 11.1        | 173            | 154            | 160            |          | 100      |          |         | 25       | 75                | 25       | 7       | 40         | 0.46         | 3.9          |
| <b>CE</b> | D 0            | 20       | 10.2        | 1 202          | 1 104          | 1.100          |          |          | 75       | 25      |          | 100               | 20       | 15      | 270        | 1.02         | 1.2          |
| GF<br>GF  | D 2<br>D 3     | 30<br>56 | 19.2<br>3.4 | 1,392<br>2,186 | 1,124<br>2,112 | 1,166<br>2,192 |          | 83       | 75<br>13 | 25<br>4 |          | 100<br>100        | 32<br>32 | 15<br>9 | 270<br>120 | 1.92<br>0.74 | 4.2<br>17.6  |
| GF        | D 4            | 14       | 5.6         | 521            | 492            | 511            | 61       | 39       | 10       |         | 27       | 73                | 22       | 6       |            | 0.33         | 16.8         |
| GF        | Totals         | 42       | 9.0         | 4,099          | 3,728          | 3,869          | 8        | 52       | 30       | 10      | 4        | 96                | 27       | 8       | 97         | 0.75         | 38.6         |
|           |                |          |             |                |                |                |          |          |          |         |          |                   |          |         |            |              |              |
| WH        | D 2            | 35       |             | 17             | 17             | 17             |          |          | 100      |         |          | 100               |          | 15      | 320        | 1.60         | .1           |
| WH<br>WH  | D 3<br>D 4     | 53<br>12 |             | 25<br>5        | 25<br>5        | 26<br>5        | 100      | 100      |          |         | 100      | 100               | 32<br>16 | 7<br>5  | 78<br>20   | 0.52<br>0.20 | .3<br>.3     |
|           |                |          |             |                |                |                |          | 52       | 26       |         |          | 80                |          |         |            |              |              |
| WH        | Totals         | 1        |             | 47             | 47             | 48             | 11       | 53       | 36       |         | 11       | 89                | 25       | /       | /4         | 0.55         | .6           |
| RC        | D 3            | 72       | 9.2         | 257            | 234            | 243            |          | 69       | 31       |         |          | 100               | 32       | 11      | 159        | 1.14         | 1.5          |
| RC        | D 4            | 28       |             | 87             | 87             | 90             | 67       | 33       |          |         | 33       | 67                | 23       | 5       | 30         | 0.34         | 2.9          |
| RC        | Totals         | 4        | 6.9         | 344            | 320            | 333            | 18       | 59       | 22       |         | 9        | 91                | 26       | 7       | 73         | 0.67         | 4.4          |
|           |                |          |             |                |                |                |          |          |          |         |          |                   |          |         |            |              |              |
| ES        | D 3            | 88       |             | 41             | 41             | 43             | 100      | 57       | 43       |         | 24       | 100               | 32       |         |            | 1.37         | .2           |
| ES        | D 4            | 12       |             | 5              | 5              | 6              | 100      |          |          |         | 24       | 76                | 27       |         |            | 0.38         | .1           |
| ES        | Totals         | 1        |             | 47             | 47             | 48             | 12       | 50       | 38       |         | 3        | 97                | 30       | 9       | 128        | 1.00         | .4           |
| LP        | D 3            | 31       | 28.6        | 45             | 32             | 33             |          | 100      |          |         |          | 100               | 32       | 7       | 50         | 0.41         | .6           |
| LP        | D 3<br>D 4     | 69       | 20.0        | 45<br>71       | 52<br>71       | 53<br>74       | 100      | 100      |          |         | 18       | 82                | 28       | 5       |            | 0.41         | 1.8          |
| LP        | Totals         | 1        | 11.0        | 116            | 103            | 107            | 69       | 31       |          |         | 12       | 88                | 29       | 6       |            | 0.26         | 2.4          |
|           |                |          |             |                |                |                |          |          |          |         |          |                   |          |         |            |              |              |
| PP        | D 4            | 47       | 5.7         | 90             | 85             | 88             |          | 100      | 54       | 46      | 2        | 100               | 32       |         |            | 1.68         | .3           |
| PP        | D 5            | 53       |             | 94             | 94             | 97             |          | 100      |          |         | 3        | 97                | 31       |         |            | 0.55         | 1.3          |
| PP        | Totals         | 2        | 2.8         | 184            | 179            | 186            | <u> </u> | 52       | 26       | 22      | 1        | 99                | 31       | 8       | 113        | 0.74         | 1.6          |
| Tota      | ls             |          | 6.3         | 9,383          | 8,789          | 9,119          | 12       | 54       | 29       | 5       | 5        | 95                | 27       | 7       | 80         | 0.66         | 110.5        |

| IC PSTATS  |  |   |  |                                       | OJECT S<br>ROJECT   |  | STICS<br>RFSAL  |                                 |  | PAGE<br>DATE                                  | <b>1</b><br>1/19/2016   |
|--|--|---|--|---------------------------------------|---|--|---|---------------------------------|--|---|---|
| WP RGI   | E S  | SC TRACT  |  | ТҮРЕ                                  |   | AC   | RES   | PLOTS                           | TREES  | CuFt  | BdFt  |
| 29N 38E<br>29N 38E   |  | 07 DEER FII<br>22 DEER FII  |  | 00U4<br>00U2                          | THR   | 1,0  | )37.63  | 229                             | 575  | S   | Е   |
|  |  |   |  |                                       | TREES   | Ι  | ESTIMATED<br>TOTAL  |                                 | ERCENT<br>SAMPLE                                     |   |   |
|  |  | PLOTS   | TREES  |                                       | PER PLOT  |  | TREES   |                                 | TREES  |   |   |
| TOTAL  |  | 229   | 575  |                                       | 2.5   |  |   |                                 |  |   |   |
| CRUISE<br>DBH COUN   | т  | 89  | 120  |                                       | 1.3   |  | 68,822  |                                 | .2   |   |   |
| REFOREST   |  |   |  |                                       |   |  |   |                                 |  |   |   |
| COUNT  |  | 91  | 217  |                                       | 2.4   |  |   |                                 |  |   |   |
| BLANKS   |  | 49  |  |                                       |   |  |   |                                 |  |   |   |
| 100 %  |  |   |  |                                       |   |  |   |                                 |  |   |   |
|  |  |   |  | ST                                    | AND SUMM  | IARY   |   |                                 |  |   |   |
|  |  | SAMPLE  | TREES  | AVG                                   | BOLE  | REL  | BASAL   | GROSS                           | NET  | GROSS   | NET   |
| B.0  |  | TREES   | /ACRE  | DBH                                   | LEN   | DEN  | AREA  | BF/AC                           | BF/AC  | CF/AC   | CF/AC   |
| DOUG FIR   |  | 51  | 25.4   | 13.6                                  | 61  | 6.9  | 25.5  | 3,067                           | 2,958  | 724   | 721   |
| DOUG FIR-  | L  | 7   | 5.5  | 15.5                                  | 69<br>70  | 1.8  | 7.1   | 950<br>4 000                    | 936<br>2 728   | 215   | 215   |
| GR FIR   |  | 37  | 19.5   | 14.7                                  | 70<br>72  | 6.0  | 23.0  | 4,099                           | 3,728  | 793   | 793   |
| W LARCH  | т  | 9<br>1  | 7.5<br>1.9   | 8.8<br>12.0                           | 72<br>78  | 1.1<br>0.4   | 3.2<br>1.5  | 356<br>173                      | 317<br>154   | 73<br>44                                      | 64<br>44  |
| W LARCH-   |  | 6   | 1.9<br>3.0   | 12.0                                  |   | 0.4  | 1.5<br>2.6  | 173<br>344                      |  | 44<br>77                                      |   |
| WR CEDAR   | (  | 6<br>3  | 5.0<br>1.3   | 12.0                                  | 48<br>64  | 0.7  | 2.6<br>1.5  | 544<br>184                      | 320<br>179   | 37  | 77<br>37  |
| P PINE<br>E SPRUCE   |  | 2   | .1   | 14.4                                  | 04<br>72  | 0.4  | .3  | 47                              | 47   | 57<br>11                                      | 11  |
|  |  |   | 1.8  | 8.4                                   | 72  | 0.1  | .3<br>.7  | 47                              | 103  | 11  | 11  |
|  |  | 2   |  |                                       |   | 0.2  | . /   | 110                             | 105  |   |   |
| LP PINE  | чĸ   | 2   |  |                                       |   | 0.1  | 3   | 47                              | 47   | 9   | g   |
| LP PINE<br>WHEMLOC<br>TOTAL  |  | 2<br><i>120</i><br>E LIMITS OF  | .3<br>66.3<br>THE SAMP   | 12.7<br><i>13.5</i><br>LE             | 75<br>66  | 0.1<br><i>17.9</i><br>BE WITH  | .3<br>65.7<br>IIN THE SAM   | 47<br><i>9,383</i><br>MPLE ERRC | 47<br>8,789<br>DR                                    | 9<br>2,001                                    |   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CL 68.1  | NCE<br>68.1                                    | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T  | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL I<br>SAMPLI  | <i>17.9</i><br>BE WITH<br>E <b>TREES</b>   | 65.7<br>IIN THE SAN<br>- <b>BF</b>  | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CL 68.1<br>SD: 1.0   | NCE<br>68.1                                    | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%   | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW   | 17.9<br>BE WITH<br>E <b>TREES</b><br>AVG   | 65.7<br>IIN THE SAM<br>- <b>BF</b><br>HIGH  | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR  | 2,001   | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR   | NCE<br>68.1                                    | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br><u>S.E.%</u><br>14.0  | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184   | 65.7<br>IIN THE SAM<br>- <b>BF</b><br>HIGH<br>209   | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR-  | NCE<br>68.1                                    | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133   | 17.9<br>BE WITH<br>E <b>TREES</b><br>AVG<br>184<br>161   | 65.7<br>IIN THE SAN<br>- BF<br>HIGH<br>209<br>190   | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR  | NCE<br>68.1                                    | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298   | 65.7<br>IIN THE SAN<br><b>3 - BF</b><br>HIGH<br>209<br>190<br>341   | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR-  | NCE<br>68.1                                    | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133   | 17.9<br>BE WITH<br>E <b>TREES</b><br>AVG<br>184<br>161   | 65.7<br>IIN THE SAN<br>- BF<br>HIGH<br>209<br>190   | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH   | NCE<br>68.1<br>L                               | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298   | 65.7<br>IIN THE SAN<br><b>3 - BF</b><br>HIGH<br>209<br>190<br>341   | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH  | NCE<br>68.1<br>L                               | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL I<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60   | 65.7<br>IIN THE SAN<br><b>5 - BF</b><br>HIGH<br>209<br>190<br>341<br>70   | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH-I<br>WR CEDAR<br>P PINE<br>E SPRUCE   | NCE<br>68.1<br>L                               | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325  | 65.7<br>IIN THE SAN<br><b>5 - BF</b><br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464  | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>E SPRUCE<br>LP PINE   | NCE<br>68.1<br>L                               | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60  | 65.7<br>IIN THE SAN<br><b>5 - BF</b><br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73  | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | <i>1,989</i><br>INF. POP.   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>E SPRUCE<br>LP PINE<br>E SPRUCE<br>LP PINE<br>WHEMLOC   | NCE<br>68.1<br>L                               | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265   | 65.7<br>IIN THE SAN<br>5 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497  | <i>9,383</i><br>MPLE ERRC       | 8,789<br>OR<br>OF TREES<br>5                         | 2,001<br>REQ.<br>7                            | 1,989<br>INF. POP.<br>1   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>E SPRUCE<br>LP PINE   | NCE<br>68.1<br>L                               | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1   | 12.7<br><i>13.5</i><br>LE<br>THE VOLU | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60  | 65.7<br>IIN THE SAN<br><b>5 - BF</b><br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73  | <i>9,383</i><br>MPLE ERRC       | 8,789<br>DR<br>OF TREES                              | 2,001<br>REQ.                                 | 1,989<br>INF. POP.<br>1   |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE<br>CONFIDE | NCE<br>68.1<br>L<br>L                          | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF   | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9  | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL I<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br><i>198</i><br>TREES/A  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE  | 65.7<br>IIN THE SAN<br><b>5 - BF</b><br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237  | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>CE 68.1<br>SD: 1.0   | NCE<br>68.1<br>L<br>L                          | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG   | 65.7<br>IIN THE SAN<br><b>5 - BF</b><br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH  | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381                  | 2,001<br>REO.<br>7                            | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>CL 68.1<br>SD: 1.0<br>DOUG FIR  | NCE<br>68.1<br>L<br>L                          | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0   | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25   | 65.7<br>IIN THE SAN<br>- BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28   | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR  | NCE<br>68.1<br>L<br>L                          | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5  | 65.7<br>IIN THE SAN<br>5 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6  | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>CL 68.1   | NCE<br>68.1<br>L<br>L                          | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3   | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19  | 65.7<br>IIN THE SAM<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22  | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>M LARCH   | NCE<br>68.1<br>L<br>L<br>X<br>L<br>L           | 2<br>120<br>E LIMITS OF<br>1 TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7                                     | 65.7<br>IIN THE SAM<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9                                     | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>WHEMLOC<br>TOTAL<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>CL 68.1   | NCE<br>68.1<br>L<br>L<br>L<br>L<br>L<br>L      | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8   | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6<br>1   | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7<br>2                                | 65.7<br>IIN THE SAM<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3                                | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>WR CEDAR<br>P PINE<br>E SPRUCE<br>LP PINE<br>WHEMLOC<br>TOTAL<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH   | NCE<br>68.1<br>L<br>L<br>L<br>L<br>L<br>L      | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8<br>479.8  | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2<br>31.7                                 | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7                                     | 65.7<br>IIN THE SAN<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3<br>4                           | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>WHEMLOC<br>TOTAL<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>CL 68.1   | NCE<br>68.1<br>L<br>L<br>L<br>L<br>L<br>L      | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8   | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2   | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6<br>1<br>2  | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7<br>2<br>3                           | 65.7<br>IIN THE SAM<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3                                | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>WR CEDAR<br>P PINE<br>E SPRUCE<br>LP PINE<br>WHEMLOC<br>TOTAL<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH<br>W LARCH   | NCE<br>68.1<br>L<br>L<br>L<br>L<br>L<br>L      | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8<br>479.8<br>495.6                               | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2<br>31.7<br>32.8                         | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6<br>1<br>2<br>1                                     | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7<br>2<br>3<br>1                      | 65.7<br>IIN THE SAN<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3<br>4<br>2<br>9<br>3<br>4<br>2  | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>WR CEDAR<br>P PINE<br>E SPRUCE<br>LP PINE<br>E SPRUCE<br>LP PINE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>CL 68.1<br>SD: 1.0  | L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8<br>479.8<br>495.6<br>1075.3                     | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2<br>31.7<br>32.8<br>71.1                 | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6<br>1<br>2<br>1<br>0                                | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7<br>2<br>3<br>1<br>0                 | 65.7<br>IIN THE SAN<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3<br>4<br>2<br>0                 | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>1<br>1<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>9 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W CEDAR<br>P PINE<br>E SPRUCE<br>LP PINE<br>WHEMLOC<br>TOTAL<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR   | L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L<br>L | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8<br>479.8<br>495.6<br>1075.3<br>1067.7           | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2<br>31.7<br>32.8<br>71.1<br>70.6         | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6<br>1<br>2<br>1<br>0<br>1                           | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7<br>2<br>3<br>1<br>0<br>2<br>3       | 65.7<br>IIN THE SAN<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3<br>4<br>2<br>0<br>3            | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS      | 2,001<br>REO.<br>7<br>194<br>REQ.             | 1,989<br>INF. POP.<br>1<br>INF. POP.<br>1                                 |
| LP PINE<br>WHEMLOC<br>TOTAL<br>CONFIDE<br>CONFIDE<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>GR FIR<br>W LARCH<br>W LARCH<br>W LARCH<br>W CEDAR<br>P PINE<br>E SPRUCE<br>LP PINE<br>WHEMLOC<br>TOTAL<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>DOUG FIR<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>CL 68.1<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR<br>CL 68.1  |  | 2<br>120<br>E LIMITS OF<br>TIMES OU<br>COEFF<br>VAR.%<br>100.1<br>43.6<br>87.3<br>46.4<br>62.1<br>83.8<br>45.7<br>23.6<br>93.4<br>97.6<br>COEFF<br>VAR.%<br>161.0<br>255.0<br>182.3<br>393.1<br>623.8<br>479.8<br>495.6<br>1075.3<br>1067.7<br>1287.3 | .3<br>66.3<br>THE SAMP<br>JT OF 100 T<br>S.E.%<br>14.0<br>17.7<br>14.4<br>16.4<br>30.9<br>58.0<br>42.8<br>22.1<br>87.5<br>8.9<br>S.E.%<br>10.6<br>16.9<br>12.0<br>26.0<br>41.2<br>31.7<br>32.8<br>71.1<br>70.6<br>85.1 | 12.7<br>13.5<br>LE<br>HE VOLU         | 75<br>66<br>JME WILL 1<br>SAMPLI<br>LOW<br>158<br>133<br>255<br>50<br>166<br>168<br>186<br>47<br>33<br>198<br>TREES/A<br>LOW<br>23<br>5<br>17<br>6<br>1<br>2<br>17<br>6<br>1<br>2<br>1<br>0<br>1<br>0 | 17.9<br>BE WITH<br>E TREES<br>AVG<br>184<br>161<br>298<br>60<br>240<br>400<br>325<br>60<br>265<br>217<br>ACRE<br>AVG<br>25<br>5<br>19<br>7<br>2<br>3<br>1<br>0<br>2<br>0<br>66 | 65.7<br>IIN THE SAN<br>3 - BF<br>HIGH<br>209<br>190<br>341<br>70<br>314<br>632<br>464<br>73<br>497<br>237<br>HIGH<br>28<br>6<br>22<br>9<br>3<br>4<br>2<br>0<br>3<br>1<br>70 | 9,383<br>MPLE ERRC<br>#         | 8,789<br>OR<br>OF TREES<br>5<br>381<br>OF PLOTS<br>5 | 2,001<br>REO.<br>7<br>194<br>REQ.<br>7<br>139 | 9<br>1,989<br>INF. POP.<br>1<br>INF. POP.<br>1<br>INF. POP.               |

| TC PS      | FATS       |          |                        |       | P            | ROJECT<br>project |        | ISTICS<br>ERFSAL |       |            | PAGE<br>DATE | <b>2</b><br>1/19/2016 |
|------------|------------|----------|------------------------|-------|--------------|-------------------|--------|------------------|-------|------------|--------------|-----------------------|
| TWP        | RGE        | SC       | TRACT                  |       | TYPE         |                   | A      | CRES             | PLOTS | TREES      | CuFt         | BdFt                  |
| 29N<br>29N | 38E<br>38E | 07<br>22 | DEER FIRE<br>DEER FIRE |       | 00U4<br>00U2 | THR               | 1      | ,037.63          | 229   | 575        | S            | Е                     |
| DOU        | G FIR      |          | 164.1                  | 10.8  |              | 23                | 26     | 28               |       |            |              |                       |
| DOU        | G FIR-L    |          | 250.0                  | 16.5  |              | 6                 | 7      | 8                |       |            |              |                       |
| GR F       | IR         |          | 175.5                  | 11.6  |              | 20                | 23     | 26               |       |            |              |                       |
| W LA       | ARCH       |          | 360.8                  | 23.8  |              | 2                 | 3      | 4                |       |            |              |                       |
| W LA       | ARCH-L     |          | 623.8                  | 41.2  |              | 1                 | 2      | 2                |       |            |              |                       |
| WR C       | CEDAR      |          | 452.4                  | 29.9  |              | 2                 | 3      | 3                |       |            |              |                       |
| P PIN      | ΙE         |          | 455.7                  | 30.1  |              | 1                 | 1      | 2                |       |            |              |                       |
| E SPI      | RUCE       |          | 1067.7                 | 70.6  |              | 0                 | 0      | 1                |       |            |              |                       |
| LP PI      | NE         |          | 1067.7                 | 70.6  |              | 0                 | 1      | 1                |       |            |              |                       |
| WHE        | MLOCK      |          | 1102.0                 | 72.8  |              | 0                 | 0      | 0                |       |            |              |                       |
| TOT        | AL         |          | 78.5                   | 5.2   |              | 62                | 66     | 69               |       | 247        | 126          | 62                    |
| CL         | 68.1       |          | COEFF                  |       |              | NET BI            | F/ACRE |                  |       | # OF PLOTS | REQ.         | INF. POP.             |
| SD:        | 1.0        |          | VAR.%                  | S.E.% |              | LOW               | AVG    | HIGH             |       | 5          | 7            | 10                    |
| DOU        | G FIR      |          | 184.3                  | 12.2  |              | 2,597             | 2,958  | 3,318            |       |            |              |                       |
| DOU        | G FIR-L    |          | 252.9                  | 16.7  |              | 779               | 936    | 1,092            |       |            |              |                       |
| GR F       | IR         |          | 180.6                  | 11.9  |              | 3,283             | 3,728  | 4,173            |       |            |              |                       |
| WLA        | ARCH       |          | 367.2                  | 24.3  |              | 240               | 317    | 394              |       |            |              |                       |
| WLA        | ARCH-L     |          | 623.8                  | 41.2  |              | 91                | 154    | 218              |       |            |              |                       |
| WR C       | CEDAR      |          | 479.0                  | 31.7  |              | 219               | 320    | 422              |       |            |              |                       |
| P PIN      | ΙE         |          | 506.8                  | 33.5  |              | 119               | 179    | 239              |       |            |              |                       |
| E SPI      | RUCE       |          | 1091.7                 | 72.1  |              | 13                | 47     | 80               |       |            |              |                       |
| LP PI      | NE         |          | 1067.7                 | 70.6  |              | 30                | 103    | 176              |       |            |              |                       |
| WHE        | MLOCK      |          | 1067.9                 | 70.6  |              | 14                | 47     | 80               |       |            |              |                       |
| TOT        | AL         |          | 90.2                   | 6.0   |              | 8,265             | 8,789  | 9,312            |       | 325        | 166          | 81                    |
| CL         | 68.1       |          | COEFF                  |       |              | V BAR             | ACRE/  |                  |       | # OF PLOTS | REQ.         | INF. POP.             |
| SD:        | 1.0        |          | VAR.%                  | S.E.% |              | LOW               | AVG    | HIGH             |       | 5          | 7            | 10                    |
| DOU        | G FIR      |          |                        |       |              | 102               | 116    | 130              |       |            |              |                       |
| DOU        | G FIR-L    |          |                        |       |              | 109               | 131    | 153              |       |            |              |                       |
| GR F       | IR         |          |                        |       |              | 143               | 162    | 182              |       |            |              |                       |
| W LA       | ARCH       |          | 236.6                  | 15.6  |              | 76                | 100    | 125              |       |            |              |                       |
| W LA       | ARCH-L     |          | 94.7                   | 6.3   |              | 60                | 102    | 144              |       |            |              |                       |
| WR C       | CEDAR      |          | 310.8                  | 20.5  |              | 84                | 123    | 162              |       |            |              |                       |
| P PIN      | νE         |          | 258.8                  | 17.1  |              | 80                | 121    | 161              |       |            |              |                       |
| E SPI      | RUCE       |          | 1091.7                 | 72.1  |              | 44                | 156    | 269              |       |            |              |                       |
| LP PI      | INE        |          | 751.6                  | 49.7  |              | 44                | 148    | 252              |       |            |              |                       |
| WHE        | MLOCK      |          | 1070.9                 | 70.8  |              | 49                | 168    | 287              |       |            |              |                       |
| TOT        | AL         |          | 89.6                   | 5.9   |              | 126               | 134    | 142              |       | 321        | 164          | 80                    |

T TSPCSTGR

### Species, Sort Grade - Board Foot Volumes (Type) Project: DEERFSAL

|                    |                         |          |             |                |                     |             |                  |                               |            |                 |    |                       |                |                     |               | Time      | : 1   | 1:39:4    | SPIVI        |
|--------------------|-------------------------|----------|-------------|----------------|---------------------|-------------|------------------|-------------------------------|------------|-----------------|----|-----------------------|----------------|---------------------|---------------|-----------|-------|-----------|--------------|
| T29N<br>Twp<br>29N | R38E 8<br>R3<br>38      | ge       | Sec         | Tract<br>EER F | IRE                 | Туре<br>00U |                  |                               | Plot<br>58 |                 | -  | <b>le Tree</b><br>.86 | S              | CuFt<br>S           | T2<br>Bd<br>E |           | 38E S | 508 TO    | 0U1          |
|                    |                         |          | %           |                |                     |             |                  | Percent Net Board Foot Volume |            |                 |    |                       |                |                     | A             | verag     | Logs  |           |              |
| Spp                | S <sub>So</sub><br>T rt | Gr<br>ad | Net<br>BdFt | Bd.<br>Def%    | Ft. per Ac<br>Gross | re<br>Net   | Total<br>Net MBF | L<br>4-5                      |            | ale Di<br>12-16 |    |                       | g Ler<br>21-32 | ngth<br>33-55 56-99 | Ln<br>Ft      | Dia<br>In |       | CF/<br>Lf | Per<br>/Acre |
| GF                 | D                       | 2        | 29          | 13.5           | 2,123               | 1,835       | 572              |                               |            | 87              | 13 |                       | 100            |                     | 32            | 14        | 236   | 1.69      | 7.8          |
| GF                 | D                       | 3        | 58          | 1.2            | 3,613               | 3,569       | 1,113            |                               | 100        |                 |    |                       | 100            |                     | 32            | 9         | 112   | 0.66      | 31.8         |
| GF                 | D                       | 4        | 13          | 3.9            | 823                 | 791         | 247              | 68                            | 32         |                 |    | 24                    | 76             |                     | 20            | 6         | 29    | 0.33      | 27.3         |
| GF                 | Totals                  |          | 48          | 5.5            | 6,559               | 6,195       | 1,932            | 9                             | 62         | 26              | 4  | 3                     | 97             |                     | 27            | 8         | 93    | 0.70      | 66.9         |
| DF                 | D                       | 2        | 45          | 3.9            | 2,256               | 2,167       | 676              |                               |            | 100             |    |                       | 100            |                     | 32            | 14        | 258   | 1.73      | 8.4          |
| DF                 | D                       | 3        | 49          | 3.2            | 2,429               | 2,351       | 733              |                               | 92         | 8               |    |                       | 100            |                     | 32            | 9         | 109   | 0.82      | 21.5         |
| DF                 | D                       | 4        | 6           | 11.7           | 286                 | 253         | 79               | 20                            | 80         |                 |    | 58                    | 42             |                     | 17            | 6         | 19    | 0.28      | 13.0         |
| DF                 | Totals                  |          | 37          | 4.0            | 4,971               | 4,771       | 1,488            | 1                             | 49         | 50              |    | 3                     | 97             |                     | 27            | 9         | 111   | 0.93      | 43.0         |
| RC                 | D                       | 3        | 72          | 9.2            | 856                 | 778         | 243              |                               | 69         | 31              |    |                       | 100            |                     | 32            | 11        | 159   | 1.14      | 4.9          |
| RC                 | D                       | 4        | 28          |                | 289                 | 289         | 90               | 67                            | 33         |                 |    | 33                    | 67             |                     | 23            | 5         | 30    | 0.34      | 9.7          |
| RC                 | Totals                  |          | 8           | 6.9            | 1,145               | 1,066       | 333              | 18                            | 59         | 22              |    | 9                     | 91             |                     | 26            | 7         | 73    | 0.67      | 14.6         |
| WL                 | D                       | 4        | 100         | 23.1           | 563                 | 432         | 135              | 52                            | 48         |                 |    |                       | 100            |                     | 29            | 5         | 27    | 0.16      | 16.3         |
| WL                 | Totals                  | 5        | 3           | 23.1           | 563                 | 432         | 135              | 52                            | 48         |                 |    |                       | 100            |                     | 29            | 5         | 27    | 0.16      | 16.3         |
| LP                 | D                       | 3        | 31          | 28.6           | 149                 | 106         | 33               |                               | 100        |                 |    |                       | 100            |                     | 32            | 7         | 50    | 0.41      | 2.1          |
| LP                 | D                       | 4        | 69          |                | 237                 | 237         | 74               | 100                           |            |                 |    | 18                    | 82             |                     | 28            | 5         | 39    | 0.20      | 6.0          |
| LP                 | Totals                  |          | 3           | 11.0           | 385                 | 343         | 107              | 69                            | 31         |                 |    | 12                    | 88             |                     | 29            | 6         | 42    | 0.26      | 8.1          |
| WH                 | D                       | 3        | 77          |                | 61                  | 61          | 19               |                               | 100        |                 |    |                       | 100            |                     | 32            | 7         | 70    | 0.46      | .9           |
| WH                 | D                       | 4        | 23          |                | 18                  | 18          | 5                | 100                           |            |                 |    | 100                   |                |                     | 16            | 5         | 20    | 0.20      | .9           |
| WH                 | Totals                  | 5        | 1           |                | 79                  | 79          | 25               | 22                            | 78         |                 |    | 22                    | 78             |                     | 24            | 6         | 45    | 0.38      | 1.8          |
| Туре Т             | otals                   |          |             | 5.9            | 13,701              | 12,887      | 4,018            | 10                            | 56         | 33              | 2  | 4                     | 96             |                     | 27            | 8         | 86    | 0.67      | 150.6        |

| Т                  | TSPCST                  | GR               |                    |     | S              | pecies,              | Sort G<br>Projec | rade - Boar<br>t: DEF | d Fo<br>ERFS |            | <b>olun</b>               | nes (T | Cype)                |                                   | Page<br>Date<br>Time      | e 1    | 1<br>/19/20<br>L:39:4 |                      |
|--------------------|-------------------------|------------------|--------------------|-----|----------------|----------------------|------------------|-----------------------|--------------|------------|---------------------------|--------|----------------------|-----------------------------------|---------------------------|--------|-----------------------|----------------------|
| T29N<br>Twj<br>29N | -                       | S22<br>Rge<br>8E | Г00U2<br>Sec<br>22 |     | ract<br>ER FII | RE                   | Туре<br>00U2     |                       |              | Plot<br>48 |                           | -      | <b>e Trees</b><br>12 | S CuFt<br>S                       | T29N F<br>BdFt<br>E       | R38E S | 522 T(                | 00U2                 |
| Spp                | S <sub>So</sub><br>T rt | Gr<br>ad         | %<br>Ne<br>Bdl     |     | Bd. F<br>Def%  | 't. per Acr<br>Gross | re<br>Net        | Total<br>Net MBF      |              | og Sc      | Net Bo<br>ale Di<br>12-10 | a.     | -                    | me<br>Length<br>21-32 33-55 56-99 | Averaş<br>Ln Dia<br>Ft In |        | CF/<br>Lf             | Logs<br>Per<br>/Acre |
| DF                 | D                       | 2                | 21                 |     |                | 483                  | 483              | 90                    |              |            | 100                       |        |                      | 100                               | 32 14                     | 289    | 1.94                  | 1.7                  |
| DF                 | D                       | 3                | 40                 | )   | 3.0            | 947                  | 919              | 171                   |              | 87         | 13                        |        |                      | 100                               | 32 9                      | 108    | 0.74                  | 8.5                  |
| DF                 | D                       | 4                | 39                 | )   | 4.0            | 910                  | 874              | 162                   | 77           | 23         |                           |        | 43                   | 57                                | 23 5                      | 23     | 0.30                  | 37.5                 |
| DF                 | Total                   | s                | 31                 |     | 2.7            | 2,340                | 2,276            | 422                   | 29           | 44         | 27                        |        | 17                   | 83                                | 25 6                      | 48     | 0.48                  | 47.7                 |
| DF                 | LD                      | 3                | 82                 | 2   |                | 1,444                | 1,444            | 268                   |              | 100        |                           |        |                      | 100                               | 32 10                     | 140    | 0.89                  | 10.3                 |
| DF                 | L D                     | 4                | 18                 | ;   |                | 309                  | 309              | 57                    | 100          |            |                           |        |                      | 100                               | 28 5                      | 30     | 0.34                  | 10.3                 |
| DF                 | L Tot                   | als              | 24                 | Ļ   |                | 1,753                | 1,753            | 325                   | 18           | 82         |                           |        |                      | 100                               | 30 8                      | 85     | 0.63                  | 20.6                 |
| GF                 | D                       | 2                | 44                 | Ļ   |                | 1,164                | 1,164            | 216                   |              |            | 100                       |        |                      | 100                               | 32 14                     | 286    | 1.48                  | 4.1                  |
| GF                 | D                       | 3                | 44                 |     | 5.2            | 1,249                | 1,184            | 220                   |              | 89         | 11                        |        |                      | 100                               | 32 9                      | 122    | 0.76                  | 9.7                  |
| GF                 | D                       | 4                | 12                 | 2   |                | 294                  | 294              | 55                    | 65           | 35         |                           |        | 29                   | 71                                | 23 6                      | 32     | 0.33                  | 9.1                  |
| GF                 | Tota                    | s                | 36                 | 5   | 2.4            | 2,707                | 2,642            | 490                   | 7            | 44         | 49                        |        | 3                    | 97                                | 29 9                      | 115    | 0.76                  | 22.9                 |
| PP                 | D                       | 4                | 85                 |     | 5.7            | 504                  | 475              | 88                    |              |            | 54                        | 46     |                      | 100                               | 32 15                     | 322    | 1.68                  | 1.5                  |
| PP                 | D                       | 5                | 15                 | ;   |                | 83                   | 83               | 15                    |              | 100        |                           |        | 16                   | 84                                | 27 8                      | 81     | 0.73                  | 1.0                  |
| PP                 | Total                   | 5                | 8                  | ; . | 4.9            | 587                  | 558              | 104                   |              | 15         | 46                        | 39     | 2                    | 98                                | 30 12                     | 223    | 1.33                  | 2.5                  |
| WH                 | D                       | 2                | 72                 | 2   |                | 93                   | 93               | 17                    |              |            | 100                       |        |                      | 100                               | 32 15                     | 320    | 1.60                  | .3                   |
| WH                 | D                       | 3                | 28                 | ;   |                | 35                   | 35               | 6                     |              | 100        |                           |        |                      | 100                               | 32 9                      | 120    | 0.83                  | .3                   |
| WH                 | Tota                    | ls               | 2                  | 2   |                | 128                  | 128              | 24                    |              | 27         | 73                        |        |                      | 100                               | 32 12                     | 220    | 1.22                  | .6                   |
| Type               | Totals                  |                  |                    |     | 2.1            | 7,516                | 7,357            | 1.365                 | 16           | 50         | 31                        | 3      | 6                    | 94                                | 27 7                      | 78     | 0.62                  | 94.3                 |

| Т                 | TSPC       | STGR                | 2        |             |                  | Species,             | Sort G      | rade - Boar      | d Fo     | oot V      | olumes (7             | Гуре)                |                     |                  |               | Page         | e        | 1                |                      |
|-------------------|------------|---------------------|----------|-------------|------------------|----------------------|-------------|------------------|----------|------------|-----------------------|----------------------|---------------------|------------------|---------------|--------------|----------|------------------|----------------------|
|                   |            |                     |          |             |                  |                      | Projec      | t: DEH           | ERFS     | AL         |                       |                      |                     |                  |               | Date<br>Time |          | /19/20<br>1:39:4 |                      |
| T29N<br>Tw<br>29N | р          | SE S1<br>Rga<br>38E | e        | Sec         | Tract<br>DEER FI | IRE                  | Туре<br>00U |                  |          | Plot<br>58 |                       | <b>le Tre</b><br>104 | es                  | CuFt<br>S        | T2<br>Bd<br>E |              | R38E S   | 510 T(           | 00U3                 |
|                   |            |                     |          | %           |                  |                      |             |                  | Per      | cent N     | Net Board Fo          | oot Vol              | ume                 |                  | A             | verag        | ge Log   | 5                | Logo                 |
| Spp               | S 5<br>T 1 |                     | Gr<br>ad | Net<br>BdFt | Bd.<br>Def%      | Ft. per Acı<br>Gross | re<br>Net   | Total<br>Net MBF | L<br>4-5 |            | ale Dia.<br>12-16 17+ |                      | g Lengt<br>21-32 33 | th<br>3-55 56-99 | Ln<br>Ft      | Dia<br>In    | Bd<br>Ft | CF/<br>Lf        | Logs<br>Per<br>/Acre |
| DF                | ]          | )                   | 2        | 9           | 20.8             | 228                  | 180         | 44               |          |            | 100                   |                      | 100                 |                  | 32            | 13           | 190      | 1.78             | .9                   |
| DF                | J          | )                   | 3        | 68          | 3.9              | 1,372                | 1,319       | 325              |          | 100        |                       |                      | 100                 |                  | 32            | 9            | 105      | 0.81             | 12.5                 |
| DF                | 1          | D                   | 4        | 23          |                  | 443                  | 443         | 109              | 89       | 11         |                       | 10                   | 90                  |                  | 25            | 5            | 29       | 0.32             | 15.5                 |
| DF                | Tot        | als                 |          | 37          | 4.9              | 2,042                | 1,942       | 478              | 20       | 70         | 9                     | 2                    | 98                  |                  | 28            | 7            | 67       | 0.62             | 28.9                 |
| DF                | LI         | )                   | 3        | 80          | 5.4              | 1,119                | 1,059       | 261              |          | 79         | 21                    |                      | 100                 |                  | 32            | 9            | 111      | 0.80             | 9.5                  |
| DF                | LI         | )                   | 4        | 20          |                  | 259                  | 259         | 64               | 37       | 63         |                       | 47                   | 53                  |                  | 22            | 5            | 29       | 0.44             | 8.8                  |
| DF                | LT         | otals               |          | 25          | 4.4              | 1,378                | 1,317       | 324              | 7        | 76         | 17                    | 9                    | 91                  |                  | 27            | 7            | 72       | 0.66             | 18.4                 |
| WL                | LI         | )                   | 3        | 75          | 14.3             | 568                  | 487         | 120              |          | 100        |                       |                      | 100                 |                  | 32            | 8            | 60       | 0.57             | 8.1                  |
| WL                | LI         | D                   | 4        | 25          |                  | 162                  | 162         | 40               |          | 100        |                       | 100                  |                     |                  | 18            | 6            | 20       | 0.27             | 8.1                  |
| WL                | LΊ         | otals               | 5        | 12          | 11.1             | 730                  | 649         | 160              |          | 100        |                       | 25                   | 75                  |                  | 25            | 7            | 40       | 0.46             | 16.2                 |
| WL                | I          | )                   | 3        | 50          |                  | 173                  | 173         | 43               |          | 100        |                       |                      | 100                 |                  | 32            | 7            | 60       | 0.35             | 2.9                  |
| WL                | 1          | D                   | 4        | 50          |                  | 171                  | 171         | 42               | 50       | 50         |                       | 50                   | 50                  |                  | 22            | 5            | 30       | 0.28             | 5.7                  |
| WL                | To         | tals                |          | 7           |                  | 345                  | 345         | 85               | 25       | 75         |                       | 25                   | 75                  |                  | 25            | 6            | 40       | 0.31             | 8.6                  |
| GF                | ]          | D                   | 2        | 13          | 29.6             | 115                  | 81          | 20               |          |            | 100                   |                      | 100                 |                  | 32            | 14           | 190      | 2.11             | .4                   |
| GF                | ]          | D                   | 3        | 62          | 7.5              | 413                  | 382         | 94               |          | 100        |                       |                      | 100                 |                  | 32            | 8            | 90       | 0.67             | 4.2                  |
| GF                | ]          | D                   | 4        | 25          |                  | 150                  | 150         | 37               | 100      |            |                       | 79                   | 21                  |                  | 17            | 5            | 20       | 0.26             | 7.6                  |
| GF                | To         | als                 |          | 12          | 9.6              | 678                  | 613         | 151              | 24       | 62         | 13                    | 19                   | 81                  |                  | 23            | 6            | 50       | 0.55             | 12.3                 |
| PP                | ]          | D                   | 5        | 100         |                  | 333                  | 333         | 82               |          | 100        |                       |                      | 100                 |                  | 32            | 7            | 70       | 0.53             | 4.8                  |
| PP                | Tot        | als                 |          | 6           |                  | 333                  | 333         | 82               |          | 100        |                       |                      | 100                 |                  | 32            | 7            | 70       | 0.53             | 4.8                  |
| Туре              | Fotals     |                     |          |             | 5.6              | 5,506                | 5,199       | 1,280            | 14       | 77         | 9                     | 10                   | 90                  |                  | 27            | 7            | 58       | 0.56             | 89.2                 |

| T                 | TSPCSTO                            | GR                 |                  |                 | Species,              | Sort G<br>Projec      | rade - Boar<br>t: DEF | d Fo<br>RFS |            | olun      | nes (T   | Туре)                              |                        | Pag<br>Dat<br>Tim        | e 1                | 1<br>/19/20<br>L:39:4 |                      |
|-------------------|------------------------------------|--------------------|------------------|-----------------|-----------------------|-----------------------|-----------------------|-------------|------------|-----------|----------|------------------------------------|------------------------|--------------------------|--------------------|-----------------------|----------------------|
| T29N<br>Tw<br>29N |                                    | S07 T(<br>ge<br>3E | Sec              | Tract<br>DEER F | IRE                   | Туре<br>00U           |                       |             | Plot<br>26 |           | -        | le Trees<br>39                     | CuFt<br>S              | T29N I<br>BdFt<br>E      |                    |                       | 0U4                  |
| Spp               | S <sub>So</sub><br><sup>T</sup> rt | Gr<br>ad           | %<br>Net<br>BdFt | Bd.<br>Def%     | Ft. per Ac<br>Gross   | ere<br>Net            | Total<br>Net MBF      |             | og Sca     | ale Di    | a.       | ot Volume<br>Log Le<br>12-20 21-32 | ength<br>2 33-55 56-99 | Avera<br>Ln Dia<br>Ft In | ge Log<br>Bd<br>Ft | CF/<br>Lf             | Logs<br>Per<br>/Acre |
| DF<br>DF<br>DF    | D<br>D<br>D                        | 2<br>3<br>4        | 12<br>53<br>35   | 2.7<br>5.2      | 384<br>1,691<br>1,117 | 384<br>1,646<br>1,059 | 46<br>197<br>127      | 43          | 76<br>57   | 100<br>24 |          | 100<br>100<br>20 80                |                        | 32 12<br>32 9<br>25 5    | 127                | 1.38<br>0.91<br>0.47  | 2.0<br>12.9<br>32.4  |
| DF                | Totals                             |                    | 21               | 3.3             | 3,192                 | 3,089                 | 370                   | 15          | 60         | 25        |          | 7 93                               |                        | 27 7                     | 65                 | 0.65                  | 47.4                 |
| DF<br>DF          | L D<br>L D                         | 2<br>3             | 67<br>33         |                 | 1,822<br>863          | 1,822<br>863          | 218<br>103            |             | 100        | 100       |          | 100<br>100                         |                        | 32 12<br>32 7            |                    | 1.38<br>0.53          | 9.6<br>9.6           |
| DF                | L Tota                             | ls                 | 18               |                 | 2,686                 | 2,686                 | 321                   |             | 32         | 68        |          | 100                                |                        | 32 10                    | 140                | 0.95                  | 19.2                 |
| GF<br>GF<br>GF    | D<br>D<br>D                        | 2<br>3<br>4        | 29<br>62<br>9    | 34.7<br>7.1     | 3,452<br>5,049<br>639 | 2,253<br>4,692<br>639 | 270<br>562<br>77      | 55          | 44<br>45   | 32<br>39  | 68<br>17 | 100<br>100<br>13 87                |                        | 32 19<br>32 10<br>24 6   | 157                | 2.99<br>1.00<br>0.38  | 6.1<br>29.9<br>16.8  |
| GF                | Totals                             |                    | 52               | 17.0            | 9,140                 | 7,584                 | 908                   | 5           | 31         | 34        | 31       | 1 99                               |                        | 30 10                    | 143                | 1.08                  | 52.9                 |
| WL<br>WL          | D<br>D                             | 3<br>4             | 57<br>43         | .0              | 522<br>393            | 522<br>393            | 62<br>47              | 32          | 100<br>68  |           |          | 100<br>32 68                       |                        | 32 7<br>23 5             |                    | 0.51<br>0.30          | 8.1<br>13.4          |
| WL                | Total                              | s                  | 6                |                 | 915                   | 915                   | 109                   | 14          | 86         |           |          | 14 86                              |                        | 26 6                     | 42                 | 0.40                  | 21.5                 |
| ES<br>ES          | D<br>D                             | 3<br>4             | 88<br>12         |                 | 356<br>48             | 356<br>48             | 43<br>6               | 100         | 57         | 43        |          | 100<br>24 76                       |                        | 32 12<br>27 5            | 191<br>37          | 1.37<br>0.38          | 1.9<br>1.3           |
| ES                | Totals                             |                    | 3                |                 | 404                   | 404                   | 48                    | 12          | 50         | 38        |          | 3 97                               |                        | 30 9                     | 128                | 1.00                  | 3.2                  |
| Туре              | Totals                             |                    |                  | 10.2            | 16,336                | 14,677                | 1,757                 | 7           | 41         | 36        | 16       | 3 97                               |                        | 29 8                     | 102                | 0.83                  | 144.1                |

T TSPCSTGR

### Species, Sort Grade - Board Foot Volumes (Type) Project: DEERFSAL

| T29N<br>Twp<br>29N |                        | S16 T<br>(ge<br>8E | Sec         | Tract<br>DEER F | IRE                 | Туре<br>00U |                  |          | Plots<br>39    | 5      | -           | <b>le Trees</b><br>86 | 5                   | CuFt<br>S       | T2<br>Bd<br>E |           | R38E S   | 516 T(    | 0U5                  |
|--------------------|------------------------|--------------------|-------------|-----------------|---------------------|-------------|------------------|----------|----------------|--------|-------------|-----------------------|---------------------|-----------------|---------------|-----------|----------|-----------|----------------------|
|                    |                        |                    | %           |                 |                     |             |                  | Per      | cent N         | let Bo | oard Fo     | ot Volu               | me                  |                 | A             | vera      | ge Log   |           | Ŧ                    |
|                    | S <sub>So</sub><br>Trt |                    | Net<br>BdFt | Bd.<br>Def%     | Ft. per Ac<br>Gross | re<br>Net   | Total<br>Net MBF | L<br>4-5 | og Sca<br>6-11 |        | a.<br>5 17+ | -                     | E Lengt<br>21-32 33 | th<br>-55 56-99 | Ln<br>Ft      | Dia<br>In | Bd<br>Ft | CF/<br>Lf | Logs<br>Per<br>/Acre |
| DF                 | D                      | 2                  | 23          | 3.1             | 429                 | 416         | 72               |          |                | 53     | 47          |                       | 100                 |                 | 32            | 16        | 382      | 2.85      | 1.1                  |
| DF                 | D                      | 3                  | 18          |                 | 329                 | 329         | 57               |          | 49             | 51     |             |                       | 100                 |                 | 31            | 8         | 107      | 0.89      | 3.1                  |
| DF                 | D                      | 4                  | 59          |                 | 1,041               | 1,041       | 182              | 88       | 12             |        |             | 12                    | 88                  |                 | 28            | 5         | 39       | 0.35      | 26.6                 |
| DF                 | Totals                 |                    | 45          | .7              | 1,799               | 1,785       | 311              | 51       | 16             | 22     | 11          | 7                     | 93                  |                 | 28            | 6         | 58       | 0.51      | 30.8                 |
| GF                 | D                      | 2                  | 22          | 29.1            | 715                 | 507         | 88               |          |                | 59     | 41          |                       | 100                 |                 | 32            | 17        | 297      | 2.21      | 1.7                  |
| GF                 | D                      | 3                  | 53          |                 | 1,168               | 1,168       | 204              |          | 83             | 17     |             |                       | 100                 |                 | 32            | 8         | 105      | 0.67      | 11.2                 |
| GF                 | D                      | 4                  | 25          | 17.4            | 668                 | 552         | 96               | 33       | 67             |        |             | 25                    | 75                  |                 | 25            | 6         | 28       | 0.34      | 19.5                 |
| GF                 | Totals                 | 5                  | 55          | 12.7            | 2,551               | 2,226       | 388              | 8        | 60             | 22     | 9           | 6                     | 94                  |                 | 28            | 7         | 69       | 0.58      | 32.3                 |
| Туре Т             | otals                  |                    |             | 7.8             | 4,350               | 4,012       | 700              | 27       | 40             | 22     | 10          | 7                     | 93                  |                 | 28            | 6         | 64       | 0.55      | 63.1                 |

| T29N R38I<br>T29N R38I<br>T29N R38I | E S08 Ty00 | U1 311.7 |        |        | 0       | EERFSA<br>1,037.63 | L    |         | Page N<br>Date:<br>Time | No 1<br>1/19/20<br>1:39:4 |       |
|-------------------------------------|------------|----------|--------|--------|---------|--------------------|------|---------|-------------------------|---------------------------|-------|
|                                     | s          | Total    | Total  | Total  | Net Cul | oic Ft/            | CF/  | Total ( | CCF                     | Total N                   | 1BF   |
| Species                             | Т          | Trees    | Logs   | Tons   | Tree    | Log                | LF   | Gross   | Net                     | Gross                     | Net   |
| GR FIR                              |            | 20,188   | 40,086 | 23,565 | 40.74   | 20.52              | 0.75 | 8,225   | 8,225                   | 4,253                     | 3,869 |
| DOUG FIR                            |            | 26,364   | 40,411 | 21,402 | 28.38   | 18.51              | 0.68 | 7,509   | 7,481                   | 3,183                     | 3,069 |
| DOUG FIR                            | L          | 5,658    | 10,645 | 6,358  | 39.43   | 20.96              | 0.72 | 2,231   | 2,231                   | 986                       | 971   |
| WR CEDAR                            |            | 3,150    | 4,554  | 1,868  | 25.24   | 17.46              | 0.67 | 795     | 795                     | 357                       | 333   |
| W LARCH                             |            | 7,745    | 9,776  | 1,825  | 8.56    | 6.78               | 0.25 | 760     | 663                     | 370                       | 329   |
| P PINE                              |            | 1,363    | 1,637  | 918    | 28.08   | 23.38              | 0.74 | 383     | 383                     | 191                       | 186   |
| W LARCH                             | L          | 1,998    | 3,996  | 1,106  | 23.06   | 11.53              | 0.46 | 461     | 461                     | 180                       | 160   |
| LP PINE                             |            | 1,872    | 2,535  | 458    | 10.20   | 7.54               | 0.26 | 191     | 191                     | 120                       | 107   |
| WHEMLOCK                            |            | 328      | 655    | 293    | 27.91   | 13.95              | 0.55 | 91      | 91                      | 48                        | 48    |
| E SPRUCE                            |            | 155      | 378    | 294    | 73.09   | 29.95              | 1.00 | 113     | 113                     | 48                        | 48    |

| Wood Type | Total  | Total   | Total  | Net Cul | bic Ft/ | CF/  | Total ( | CCF    | Total N | <b>/IBF</b> |
|-----------|--------|---------|--------|---------|---------|------|---------|--------|---------|-------------|
| Species   | Trees  | Logs    | Tons   | Tree    | Log     | LF   | Gross   | Net    | Gross   | Net         |
| С         | 68,822 | 114,674 | 58,087 | 29.98   | 17.99   | 0.66 | 20,760  | 20,634 | 9,736   | 9,119       |
| Totals    | 68,822 | 114,674 | 58,087 | 29.98   | 17.99   | 0.66 | 20,760  | 20,634 | 9,736   | 9,119       |

| T29N<br>T<br>T29N<br>Spp T<br>DF<br>DF | FHI<br>R3<br>5 | RU<br>8E :<br><b>So</b> | S22 T  |     | 4     |       |       | Drea! |            |     |                |       |         |      |             |      | Page     |      | 1                |
|--|----------------|-------------------------|--------|-----|-------|-------|-------|-------|------------|-----|----------------|-------|---------|------|-------------|------|----------|------|------------------|
| Spp 7<br>DF                            | Г 1            |                         | Cr     |     | 2     |       |       | Acre  | ect:<br>es | DEF | ERFSA<br>1,037 |       |         |      |             |      |          |      | 9/2016<br>9:44PM |
| DF                                     |                | rt                      |        | Log | Gross | Def   | Net   | %     |            | I   |                |       | _       |      | neter in In | ches |          |      |                  |
|  | ]              |                         | de ]   | Len | MBF   | %     | MBF   | Spc   | 2-4        | 5-6 | 7-10           | 11-12 | 13-14 1 | 5-16 | 17-18 1     | 9-20 | 21-23 24 | 1-29 | 30-39 40+        |
| DF                                     |                | D                       | 2      | 32  | 970   | 4.3   | 928   | 30.2  |            |     |                | 150   | 422     | 321  |             | 34   |          |      |                  |
|  | ]              | D                       | 3      | 26  | 5     |       | 5     | .2    |            | 5   |                |       |         |      |             |      |          |      |                  |
| DF                                     | j              | D                       | 3      | 32  | 1,526 | 3.1   | 1,478 | 48.2  |            | 52  | 967            | 430   | 29      |      |             |      |          |      |                  |
| DF                                     | ]              | D                       | 4      | 12  | 14    | 74.1  | 4     | .1    |            | 4   |                |       |         |      |             |      |          |      |                  |
| DF                                     | 1              | D                       | 4      | 14  | 24    |       | 24    | .8    |            | 24  |                |       |         |      |             |      |          |      |                  |
| DF                                     | ]              | D                       | 4      | 16  | 17    |       | 17    | .6    |            | 15  | 2              |       |         |      |             |      |          |      |                  |
| DF                                     | ]              | D                       | 4      | 18  | 56    |       | 56    | 1.8   |            | 56  |                |       |         |      |             |      |          |      |                  |
| DF                                     |                | D                       | 4      | 20  | 80    | 8.4   | 73    | 2.4   |            | 73  |                |       |         |      |             |      |          |      |                  |
| DF                                     | 1              | D                       | 4      | 24  | 115   | 2.4   | 112   | 3.7   |            | 112 |                |       |         |      |             |      |          |      |                  |
| DF                                     |                | D                       | 4      | 26  | 6     |       | 6     | .2    |            | 6   |                |       |         |      |             |      |          |      |                  |
| DF                                     |                | D                       | 4      | 30  | 85    | 5.1   | 81    | 2.6   |            | 81  |                |       |         |      |             |      |          |      |                  |
| DF                                     | ]              | D                       | 4      | 32  | 285   |       | 285   | 9.3   |            | 285 |                |       |         |      |             |      |          |      |                  |
| DF                                     |                |                         | Totals |     | 3,183 | 3.6   | 3,069 | 33.7  |            | 713 | 969            | 580   | 452     | 321  |             | 34   |          |      |                  |
| DF I                                   |                | D                       | 2      | 32  | 218   |       | 218   | 22.5  |            |     |                | 218   |         |      |             |      |          |      |                  |
| DF I                                   | LI             | D                       | 3      | 30  | 25    |       | 25    | 2.6   |            |     | 25             |       |         |      |             |      |          |      |                  |
| DF I                                   |                | D                       | 3      | 32  | 622   | 2.4   | 607   | 62.5  |            |     | 552            | 55    |         |      |             |      |          |      |                  |
| DF I                                   | LI             | D                       | 4      | 16  | 13    |       | 13    | 1.3   |            | 13  |                |       |         |      |             |      |          |      |                  |
| DF I                                   | LI             | D                       | 4      | 18  | 11    |       | 11    | 1.1   |            | 11  |                |       |         |      |             |      |          |      |                  |
| DF I                                   | LI             | D                       | 4      | 20  | 6     |       | 6     | .7    |            | 6   |                |       |         |      |             |      |          |      |                  |
| DF I                                   | LI             | D                       | 4      | 28  | 57    |       | 57    | 5.9   |            | 57  |                |       |         |      |             |      |          |      |                  |
| DF I                                   | LI             | D                       | 4      | 32  | 34    |       | 34    | 3.5   |            | 34  |                |       |         |      |             |      |          |      |                  |
| DF                                     |                |                         | Totals |     | 986   | 1.5   | 971   | 10.6  |            | 121 | 577            | 273   |         |      |             |      |          |      |                  |
| WL                                     | ]              | D                       | 3      | 32  | 105   |       | 105   | 32.0  |            |     | 105            |       |         |      |             |      |          |      |                  |
| WL                                     | ]              | D                       | 4      | 14  | 4     |       | 4     | 1.3   |            | 4   |                |       |         |      |             |      |          |      |                  |
| WL                                     | li             | D                       | 4      | 16  | 7     |       | 7     | 2.1   |            | 7   |                |       |         |      |             |      |          |      |                  |
| WL                                     | 1              | D                       | 4      | 20  | 25    |       | 25    | 7.6   |            | 25  |                |       |         |      |             |      |          |      |                  |
| WL                                     | 1              | D                       | 4      | 24  | 41    | 100.0 |       |       |            |     |                |       |         |      |             |      |          |      |                  |
| WL                                     | 1              | D                       | 4      | 32  | 188   |       | 188   | 57.0  |            | 167 | 21             |       |         |      |             |      |          |      |                  |
| WL                                     |                |                         | Totals |     |       | 11.0  | 329   | 3.6   |            | 203 | 126            |       |         |      |             |      |          |      |                  |
| WL I                                   |                | D                       | 3      | 32  | 140   | 14.3  | 120   | 75.0  |            |     | 120            |       |         |      |             |      |          |      |                  |
| WL I                                   | LI             | D                       | 4      | 18  | 40    |       | 40    | 25.0  |            | 40  |                |       |         |      |             |      |          |      |                  |
| WL                                     |                |                         | Totals |     | 180   | 11.1  | 160   | 1.8   |            | 40  | 120            |       |         |      |             |      |          |      |                  |
| GF                                     | 1              | D                       | 2      | 32  | 1,444 | 19.2  | 1,166 | 30.1  |            |     |                | 124   | 418     | 333  |             | 109  | 182      |      |                  |

| TC PLO                | OGSTV | В    |     |       |      |       | Log          | Stock Table | e - MB         | F      |          |      |            |       |             |                         |
|-----------------------|-------|------|-----|-------|------|-------|--------------|-------------|----------------|--------|----------|------|------------|-------|-------------|-------------------------|
| T29N 1<br>T<br>T29N 1 | HRU   |      |     |       |      |       | Proj<br>Acre |             | ERFSA<br>1,037 |        |          |      |            |       |             | 2<br>19/2016<br>39:44PM |
| S                     |       |      | Log |       | Def  | Net   | %            | ]           | Net Vol        | ume by | Scaling  | Dian | neter in I | nches |             |                         |
| Spp Т                 | rt d  | le   | Len | MBF   | %    | MBF   | Spc          | 2-4 5-6     | 7-10           | 11-12  | 13-14 15 | 5-16 | 17-18      | 19-20 | 21-23 24-29 | 30-39 40                |
| GF                    | D     | 3    | 32  | 2,268 | 3.4  | 2,192 | 56.7         | 36          | 1388           | 460    | 137      | 74   | 96         |       |             |                         |
| GF                    | D     | 4    | 12  | 21    |      | 21    | .5           | 21          |                |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 14  | 10    |      | 10    | .3           | 10          |                |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 16  | 73    |      | 73    | 1.9          | 59          | 14             |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 18  | 9     |      | 9     | .2           |             | 9              |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 20  | 24    |      | 24    | .6           | 15          | 10             |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 24  | 220   | 4.5  | 210   | 5.4          | 143         | 67             |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 26  | 12    |      | 12    | .3           | 12          |                |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 28  | 33    |      | 33    | .8           | 33          |                |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 30  | 8     |      | 8     | .2           | 8           |                |        |          |      |            |       |             |                         |
| GF                    | D     | 4    | 32  | 131   | 15.6 | 110   | 2.9          | 110         |                |        |          |      |            |       |             |                         |
| GF                    | Т     | 'ota |     | 4,253 | 9.0  | 3,869 | 42.4         | 446         | 1488           | 584    | 555      | 407  | 96         | 109   | 182         |                         |
| WH                    | D     | 2    | 32  | 17    |      | 17    | 35.7         |             |                |        |          | 17   |            |       |             |                         |
| WH                    | D     | 3    | 32  | 26    |      | 26    | 53.0         |             | 26             |        |          |      |            |       |             |                         |
| WH                    | D     | 4    | 16  | 5     |      | 5     | 11.3         | 5           |                |        |          |      |            |       |             |                         |
| WH                    | Г     | 'ota | ls  | 48    |      | 48    | .5           | 5           | 26             |        |          | 17   |            |       |             |                         |
| RC                    | D     | 3    | 32  | 267   | 9.2  | 243   | 72.9         |             | 168            |        | 38       | 36   |            |       |             |                         |
| RC                    | D     | 4    | 16  | 25    |      | 25    | 7.6          | 25          |                |        |          |      |            |       |             |                         |
| RC                    | D     | 4    | 18  | 4     |      | 4     | 1.2          | 4           |                |        |          |      |            |       |             |                         |
| RC                    | D     | 4    | 28  | 26    |      | 26    | 8.0          | 26          |                |        |          |      |            |       |             |                         |
| RC                    | D     | 4    | 32  | 34    |      | 34    | 10.3         | 34          |                |        |          |      |            |       |             |                         |
| RC                    | Г     | 'ota | ls  | 357   | 6.9  | 333   | 3.6          | 90          | 168            |        | 38       | 36   |            |       |             |                         |
| ES                    | D     | 3    | 32  | 43    |      | 43    | 88.2         |             | 10             | 15     | 18       |      |            |       |             |                         |
| ES                    | D     | 4    | 20  | 1     |      | 1     | 2.8          | 1           |                |        |          |      |            |       |             |                         |
| ES                    | D     | 4    | 32  | 4     |      | 4     | 9.0          | 4           |                |        |          |      |            |       |             |                         |
| ES                    | Г     | 'ota | ls  | 48    |      | 48    | .5           | 6           | 10             | 15     | 18       |      |            |       |             |                         |
| LP                    | D     | 3    | 32  | 46    | 28.6 | 33    | 31.0         |             | 33             |        |          |      |            |       |             |                         |
| LP                    | D     | 4    | 20  | 13    |      | 13    | 12.4         | 13          |                |        |          |      |            |       |             |                         |
| LP                    | D     | 4    | 32  | 60    |      | 60    | 56.6         | 60          |                |        |          |      |            |       |             |                         |
| LP                    | Г     | 'ota | ls  | 120   | 11.0 | 107   | 1.2          | 74          | 33             |        |          |      |            |       |             |                         |
| PP                    | D     | 4    | 32  | 94    | 5.7  | 88    | 47.5         |             | 1              | 18     |          | 29   | 41         |       |             |                         |
| PP                    | D     | 5    | 20  | 3     |      | 3     | 1.3          |             | 3              |        |          |      |            |       |             |                         |
|                       | 1     |      | 2   |       |      | -     |              |             |                |        |          |      |            |       |             |                         |

| TC PL | 0  | GST | VB   |                |       |     |       | Log          | Stock | x Table | - MB           | F      |        |        |            |        |                      |       |                       |     |
|-------|----|-----|------|----------------|-------|-----|-------|--------------|-------|---------|----------------|--------|--------|--------|------------|--------|----------------------|-------|-----------------------|-----|
| ,     | TH | IRU |      | Ty00U<br>Ty00U |       |     |       | Proj<br>Acre |       | DEI     | ERFSA<br>1,037 |        |        |        |            |        | Page<br>Date<br>Time | -     | 3<br>9/2010<br>39:44F |     |
| :     | s  | So  | Gr   | Log            | Gross | Def | Net   | %            |       | Ν       | let Volu       | ıme by | Scalin | g Dian | neter in I | Inches |                      |       |                       |     |
| Spp   | Т  | rt  | de   | Len            | MBF   | %   | MBF   | Spc          | 2-4   | 5-6     | 7-10           | 11-12  | 13-14  | 15-16  | 17-18      | 19-20  | 21-23                | 24-29 | 30-39                 | 40+ |
| PP    |    | D   | 5    | 32             | 95    |     | 95    | 51.1         |       |         | 95             |        |        |        |            |        |                      |       |                       |     |
| PP    |    |     | Tota | ls             | 191   | 2.8 | 186   | 2.0          |       |         | 97             | 18     |        | 29     | 41         |        |                      |       |                       |     |
| Total |    | All | Spec | ies            | 9,736 | 6.3 | 9,119 | 100.0        |       | 1699    | 3614           | 1469   | 1064   | 811    | 137        | 143    | 182                  |       |                       |     |

| TC PLO                | OGST   | VT_S   | ED       |      |              | ]   | Project      | Log Sto     | ock Tal       | ole - TO  | NS(SI  | ED)       |        |       |                      |                        |     |
|-----------------------|--------|--------|----------|------|--------------|-----|--------------|-------------|---------------|-----------|--------|-----------|--------|-------|----------------------|------------------------|-----|
| T29N H<br>T<br>T29N H | HRU    | l      |          |      |              |     | Proj<br>Acre |             | DEERF<br>1,03 |           |        |           |        | ]     | Page<br>Date<br>Time | 1<br>1/19/20<br>1:39:4 |     |
| s                     | So     | Gr     | Log      |      |              |     |              | I           | Tons          | by Scalin | g Diam | eter in 1 | Inches |       |                      | 1                      |     |
| <b>Spp Т</b>          |        |        | Len      | SED  | TONS         | 2-4 | 5-6          | 7-10        | 11-12         | 13-14     |        | 17-18     | 19-20  | 21-23 | 24-29                | 30-39                  | 40+ |
| DF                    | D      | 2      | 32       | 13.7 | 5,849        |     |              |             | 941           | 2441      | 2258   |           | 208    |       |                      |                        |     |
| DF<br>DF              | D<br>D | 3<br>3 | 26<br>32 |      | 41<br>10,043 |     | 41<br>363    | 6600        | 2882          | 197       |        |           |        |       |                      |                        |     |
| DF<br>DF              | D<br>D | 4<br>4 | 12<br>14 |      | 111<br>186   |     | 111<br>186   |             |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 16       | 5.3  | 102          |     | 85           | 16          |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 18       |      | 374          |     | 374          |             |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 20       | 5.2  | 630          |     | 630          |             |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 24       |      | 937          |     | 937          |             |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 26       | 5.0  | 56           |     | 56           |             |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 30       | 5.0  | 1,010        |     | 1010         |             |               |           |        |           |        |       |                      |                        |     |
| DF                    | D      | 4      | 32       | 5.5  | 2,063        |     | 2063         |             |               |           |        |           |        |       |                      |                        |     |
| Graded                |        |        |          |      | 21402        |     | 5857         | 6616        | 3823          | 2638      | 2258   |           | 208    |       |                      |                        |     |
| DF                    |        | Total  |          | 6.9  | 21,402       |     | 5857         | 6616        | 3823          | 2638      | 2258   |           | 208    |       |                      |                        |     |
| DF L                  | D      | 2      | 32       | 12.0 | 1,442        |     |              |             | 1442          |           |        |           |        |       |                      |                        |     |
| DF L<br>DF L          |        | 3<br>3 | 30<br>32 |      | 145<br>3,653 |     |              | 145<br>3275 | 378           |           |        |           |        |       |                      |                        |     |
| DF L                  | D      | 4      | 16       | 5.0  | 83           |     | 83           |             |               |           |        |           |        |       |                      |                        |     |
| DF L                  | D      | 4      | 18       |      | 82           |     | 82           |             |               |           |        |           |        |       |                      |                        |     |
| DF L                  | D      | 4      | 20       |      | 91           |     | 91           |             |               |           |        |           |        |       |                      |                        |     |
| DF L                  |        | 4      | 28       |      | 520          |     | 520          |             |               |           |        |           |        |       |                      |                        |     |
| DF L                  | D      | 4      | 32       | 6.0  | 342          |     | 342          |             |               |           |        |           |        |       |                      |                        |     |
| Graded                |        |        |          |      | 6358         |     | 1118         | 3421        | 1819          |           |        |           |        |       |                      |                        |     |
| DF                    |        | Total  | s        | 8.1  | 6,358        |     | 1118         | 3421        | 1819          |           |        |           |        |       |                      |                        |     |
| WL                    | D      | 3      | 32       | 7.3  | 573          |     |              | 573         |               |           |        |           |        |       |                      |                        |     |
| WL<br>WL              | D<br>D | 4<br>4 | 14<br>16 |      | 35<br>27     |     | 35<br>27     |             |               |           |        |           |        |       |                      |                        |     |
| WL                    | D      | 4      | 20       |      | 122          |     | 122          |             |               |           |        |           |        |       |                      |                        |     |
| WL                    | D      | 4      | 24       |      | 236          |     | 236          |             |               |           |        |           |        |       |                      |                        |     |
| WL                    | D      | 4      | 32       |      | 833          |     | 724          | 109         |               |           |        |           |        |       |                      |                        |     |
| Graded                |        |        |          |      | 1825         |     | 1143         | 682         |               |           |        |           |        |       |                      |                        |     |
| WL                    |        | Total  | s        | 5.8  | 1,825        | ļ   | 1143         | 682         |               |           |        |           |        |       |                      |                        |     |
| WL L                  | D      | 3      | 32       | 8.0  | 870          |     |              | 870         |               |           |        |           |        |       |                      |                        |     |
| WL L<br>Graded        | D      | 4      | 18       | 6.0  | 235<br>1106  |     | 235<br>235   | 870         |               |           |        |           |        |       |                      |                        |     |

| T29N F<br>T<br>T29N F | HRU    |        |          |      |           |     | Proj<br>Acre |      | DEERF;<br>1,03 |           |        |           |       | ]     | Page<br>Date<br>Time | 2<br>1/19/201<br>1:39:44 |     |
|-----------------------|--------|--------|----------|------|-----------|-----|--------------|------|----------------|-----------|--------|-----------|-------|-------|----------------------|--------------------------|-----|
| S                     |        | Gr     |          |      |           |     |              |      | Tons           | by Scalin | g Diam | eter in I | nches | 1     |                      | ł                        |     |
| <b>Spp Т</b>          | rt     | de     | Len      | SED  | TONS      | 2-4 | 5-6          | 7-10 | 11-12          | 13-14     | 15-16  | 17-18     | 19-20 | 21-23 | 24-29                | 30-39                    | 40+ |
| WL                    |        | Totals |          | 7.0  | 1,106     |     | 235          | 870  |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 2      | 32       | 15.7 | 7,613     |     |              |      | 762            | 2329      | 2099   |           | 1071  | 1352  |                      |                          |     |
| GF                    | D      | 3      | 32       | 9.2  | 12,364    |     | 263          | 8038 | 2417           | 896       | 347    | 403       |       |       |                      |                          |     |
| GF                    | D      | 4      | 12       |      | 169       |     | 169          |      |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 14       |      | 88        |     | 88           |      |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 16       |      | 434       |     | 346          | 88   |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 18       |      | 74        |     |              | 74   |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 20       |      | 178       |     | 84           | 94   |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 24       |      | 1,281     |     | 856          | 425  |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 26       |      | 108       |     | 108          |      |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 28       |      | 282       |     | 282          |      |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 30       |      | 56        |     | 56           |      |                |           |        |           |       |       |                      |                          |     |
| GF                    | D      | 4      | 32       | 5.7  | 919       |     | 919          |      |                |           |        |           |       |       |                      |                          |     |
| Graded                |        |        |          |      | 23565     |     | 3171         | 8718 | 3179           | 3225      | 2445   | 403       | 1071  | 1352  |                      |                          |     |
| GF                    |        | Totals |          | 8.3  | 23,565    |     | 3171         | 8718 | 3179           | 3225      | 2445   | 403       | 1071  | 1352  |                      |                          |     |
| WH                    | D      | 2      | 32       | 15.0 | 88        |     |              |      |                |           | 88     |           |       |       |                      |                          |     |
| WH                    | D      | 3      | 32       | 7.5  | 176       |     |              | 176  |                |           |        |           |       |       |                      |                          |     |
| WH<br>Graded          | D      | 4      | 16       | 5.0  | 28<br>293 |     | 28<br>28     | 176  |                |           | 88     |           |       |       |                      |                          |     |
| WH                    |        | Totals |          | 7.5  | 293       |     | 28           | 176  |                |           | 88     |           |       |       |                      |                          |     |
| RC                    | D      | 3      | 32       | 10.9 | 1,305     |     |              | 740  |                | 280       | 284    |           |       |       |                      |                          |     |
| RC<br>RC              | D<br>D | 4<br>4 | 16<br>18 |      | 129<br>32 |     | 129<br>32    |      |                |           |        |           |       |       |                      |                          |     |
| RC                    | D      | 4      | 28       |      | 198       |     | 198          |      |                |           |        |           |       |       |                      |                          |     |
| RC                    | D      | 4      | 32       |      | 205       |     | 205          |      |                |           |        |           |       |       |                      |                          |     |
| Graded                |        |        |          |      | 1868      |     | 564          | 740  |                | 280       | 284    |           |       |       |                      |                          |     |
| RC                    |        | Totals |          | 7.3  | 1,868     |     | 564          | 740  |                | 280       | 284    |           |       |       |                      | 1                        |     |
| ES                    | D      | 3      | 32       | 11.6 | 253       |     |              | 46   | 102            | 105       |        |           |       |       |                      |                          |     |
| ES                    | D      | 4      | 20       | 5.0  | 12        |     | 12           |      |                |           |        |           |       |       |                      |                          |     |
| ES                    | D      | 4      | 32       | 5.0  | 29        |     | 29           |      |                |           |        |           |       |       |                      |                          |     |
| Graded                |        |        |          |      | 294       |     | 41           | 46   | 102            | 105       |        |           |       |       |                      |                          |     |
| ES                    |        | Totals |          | 8.9  | 294       |     | 41           | 46   | 102            | 105       |        |           |       |       |                      | 1                        |     |
| LP                    | D      | 3      | 32       | 7.0  | 207       |     |              | 207  |                |           |        |           |       |       |                      |                          |     |

| TC PLC                | OGS    | TVT_S   | ED       |      |           | ]   | Project      | Log Sto   | ck Tal        | ole - TC  | NS(SF   | ED)       |       |                      |                             |
|-----------------------|--------|---------|----------|------|-----------|-----|--------------|-----------|---------------|-----------|---------|-----------|-------|----------------------|-----------------------------|
| T29N F<br>T<br>T29N F | HR     | U       |          |      |           |     | Proj<br>Acre |           | DEERF<br>1,03 |           |         |           |       | Page<br>Date<br>Time | 3<br>1/19/2016<br>1:39:44PM |
| S                     | S      | o Gr    | Log      |      |           |     |              |           | Tons          | by Scaliı | ng Diam | eter in I | nches |                      | I                           |
| <b>Spp T</b>          | r      | t de    | Len      | SED  | TONS      | 2-4 | 5-6          | 7-10      | 11-12         | 13-14     | 15-16   | 17-18     | 19-20 | 21-23 24-29          | 30-39 40+                   |
| LP<br>LP              | D<br>D |         | 20<br>32 |      | 64<br>188 |     | 64<br>188    |           |               |           |         |           |       |                      |                             |
| Graded                |        |         |          |      | 458       |     | 252          | 207       |               |           |         |           |       |                      |                             |
| LP                    |        | Tota    | ls       | 5.5  | 458       |     | 252          | 207       |               |           |         |           |       |                      |                             |
| PP                    | D      | 4       | 32       | 15.0 | 355       |     |              |           | 82            |           | 132     | 141       |       |                      |                             |
| PP<br>PP              | D<br>D |         | 20<br>32 |      | 21<br>543 |     |              | 21<br>543 |               |           |         |           |       |                      |                             |
| Graded                |        |         |          |      | 918       |     |              | 564       | 82            |           | 132     | 141       |       |                      |                             |
| РР                    |        | Tota    | ls       | 8.8  | 918       |     |              | 564       | 82            |           | 132     | 141       |       |                      |                             |
| Total                 | A      | ll Spec | ies      |      | 58,087    |     | 12409        | 22040     | 9006          | 6249      | 5208    | 544       | 1279  | 1352                 |                             |

|  | FATS  |  |  | Р  | STA<br>ROJEC   | ATIST  | TICS<br>deerfsai   |          |  | PAGE<br>DATE 1                                       | 1<br>/19/2016   |
|--|---|--|--|--|--|--|--|----------|--|--|---|
| rwp  | RGE   | SECT 7   | FRACT  | Т  | YPE  | AC   | RES  | PLOTS    | TREES  | CuFt   | BdFt  |
| 29N  | 38E   | 08 I   | DEER FIRE  | 0  | 0U1  | ,  | 311.79   | 58       | 186  | S  | Е   |
|  |   |  |  |  | EES  |  | ESTIMATED<br>TOTAL   | S        | PERCENT  |  |   |
|  |   | PLOTS  | TREES  | PEI  | R PLOT   |  | TREES  | Т        | REES   |  |   |
| TOTA   |   | 58   | 186  |  | 3.2  |  |  |          |  |  |   |
|  | COUNT   | 29   | 35   |  | 1.2  |  | 26,137   |          | .1   |  |   |
| COUN   | OREST<br>NT   | 23   | 69   |  | 3.0  |  |  |          |  |  |   |
| BLAN   |   | 6  | 07   |  | 5.0  |  |  |          |  |  |   |
| 100 %  |   | 0  |  |  |  |  |  |          |  |  |   |
|  |   |  |  | STAND  | SUMM   | IARY   |  |          |  |  |   |
|  |   | SAMPLE   | TREES  | AVG B  | OLE  | REL  | BASAL  | GROSS    | NET  | GROSS  | NET   |
|  |   | TREES  | /ACRE  | DBH  | LEN  | DEN  | AREA   | BF/AC    | BF/AC  | CF/AC  | CF/AC   |
| GR F   |   | 11   | 31.8   | 14.6   | 75   | 9.7  | 37.1   | 6,559    | 6,195  | 1,274  | 1,274   |
|  | G FIR   | 12   | 18.8   | 18.1   | 76   | 7.9  | 33.6   | 4,971    | 4,771  | 1,100  | 1,092   |
|  | CEDAR   | 6  | 10.1   | 12.6   | 48   | 2.5  | 8.7  | 1,145    | 1,066  | 255  | 255   |
|  | ARCH  | 3  | 16.3   | 7.7  | 70   | 1.9  | 5.2  | 563      | 432  | 104  | 73  |
| LP PI  |   | 2  | 6.0  | 8.4  | 77   | 0.8  | 2.3  | 385      | 343  | 61   | 61  |
|  | MLOCK   | 1  | .9   | 11.0   | 75   | 0.2  | .6   | 79       | 79   | 16   | 16  |
| TOT  | AL  | 35   | 83.8   | 13.8   | 71   | 23.5   | 87.5   | 13,701   | 12,887   | 2,811  | 2,772   |
| CON  |   |  | F THE SAMPL<br>F OF 100 THE Y  |  | ILL BE '   | WITHIN   | THE SAMP   | LE ERROR |  |  |   |
| CL:  | 68.1 <sup>%</sup>   | COEF   | F  | S  | AMPLE  | E TREES  | 5 - BF   | #        | OF TREES   | REQ.   | INF. POP.   |
| SD:  | 1.0   | VAR.9  | % S.E.%  | LOW  | r  | AVG  | HIGH   |          | 5  | 7  | 1   |
| GR F   | IR  | 57.3   | 18.1   | 2  | 15   | 263  | 210  |          |  |  |   |
|  |   |  |  |  |  |  | 310  |          |  |  |   |
|  | G FIR   | 47.0   | 14.2   | 20   | 51   | 304  | 347  |          |  |  |   |
| WR C   | CEDAR   | 62.1   | 14.2<br>30.9   | 20<br>10   | 51<br>56   | 304<br>240   | 347<br>314   |          |  |  |   |
| WR C<br>W LA   | CEDAR<br>ARCH   | 62.1<br>88.2   | 14.2<br>30.9<br>61.1   | 20<br>10   | 51<br>56<br>12   | 304<br>240<br>30   | 347<br>314<br>48   |          |  |  |   |
| WR C<br>W LA<br>LP PI  | CEDAR<br>ARCH   | 62.1   | 14.2<br>30.9   | 20<br>10   | 51<br>56   | 304<br>240   | 347<br>314   |          |  |  |   |
| WR C<br>W LA<br>LP PI  | CEDAR<br>ARCH<br>INE<br>EMLOCK  | 62.1<br>88.2   | 14.2<br>30.9<br>61.1   | 20   | 51<br>56<br>12   | 304<br>240<br>30   | 347<br>314<br>48   |          | 177  | 90   | 4   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA   | CEDAR<br>ARCH<br>INE<br>EMLOCK  | 62.1<br>88.2<br>23.6   | 14.2<br>30.9<br>61.1<br>22.1<br>11.4   | 20<br>10<br>20   | 51<br>56<br>12<br>47<br>09   | 304<br>240<br>30<br>60<br>236  | 347<br>314<br>48<br>73   |          |  |  |   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL  | 62.1<br>88.2<br>23.6<br>66.5   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F   | 20<br>10<br>20   | 51<br>56<br>12<br>47<br>09<br><b>REES/</b> A   | 304<br>240<br>30<br>60<br>236  | 347<br>314<br>48<br>73   | #        | <i>177</i><br>≠ OF PLOTS<br>5  |  | 4<br>INF. POP.<br>1                                     |
| WR C<br>W LA<br>LP PI<br>WHE<br><b>TOT</b><br>CL:<br>SD:<br>GR F   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>129.6   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0   | 20<br>10<br>20<br>20<br><b>T</b><br>LOW  | 51<br>56<br>12<br>47<br>09<br><b>(REES</b> /A<br>26  | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37  | #        | OF PLOTS   | REQ.   | INF. POP.   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR F<br>DOUG   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>129.6<br>156.9  | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6   | 20<br>10<br>20<br>20<br><b>T</b><br>LOW  | 51<br>56<br>12<br>47<br>09<br><b>REES/A</b><br>26<br>15  | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19  | 347<br>314<br>48<br>73<br>263<br><u>HIGH</u><br>37<br>23   | #        | OF PLOTS   | REQ.   | INF. POP.   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>TIR<br>G FIR<br>CEDAR  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>129.6<br>156.9<br>226.9   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br>% <u>S.E.%</u><br>17.0<br>20.6<br>29.8   | 20<br>10<br>20<br>20<br><b>T</b><br>LOW  | 51<br>56<br>12<br>47<br>09<br><b>(REES/A</b><br>7  | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13  | #        | OF PLOTS   | REQ.   | INF. POP.   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>W LA  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>TIR<br>G FIR<br>CEDAR<br>ARCH  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>129.6<br>156.9<br>226.9<br>265.9  | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9   | 20<br>10<br>20<br>20<br><b>T</b><br>LOW  | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>11   | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10<br>16  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22  | #        | OF PLOTS   | REQ.   | INF. POP.   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>W LA<br>LP PI   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>TIR<br>G FIR<br>CEDAR<br>ARCH<br>INE   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>129.6<br>156.9<br>226.9<br>265.9<br>533.8   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1   | 20<br>10<br>20<br>20<br><b>T</b><br>LOW  | 51<br>56<br>12<br>47<br>09<br><b>(REES/A</b><br>7  | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10  | #        | OF PLOTS   | REQ.   | INF. POP.   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>W LA<br>LP PI   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>129.6<br>156.9<br>226.9<br>265.9  | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0  | 20<br>10<br>20<br><b>T</b><br>LOW  | 51<br>566<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>11<br>2   | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10<br>16<br>6   | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22  | #        | OF PLOTS   | REQ.   | INF. POP.   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.5<br>129.6<br>156.9<br>226.9<br>265.9<br>533.8<br>761.6  | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8   | 20<br>10<br>20<br><b>T</b><br>LOW  | 51<br>56<br>12<br>47<br>99<br><b>REES/A</b><br>7<br>11<br>2<br>0<br>77   | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10<br>16<br>6<br>1  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90   |          | FOF PLOTS  | 7 REQ.<br>7<br>72                                    | INF. POP.<br>1  |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>SD:<br>GR FI<br>DOUG<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>TIR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9   | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%  | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A  | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AREA/A<br>AVG  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90   |          | e of plots<br>5<br>141   | 7 REQ.<br>7<br>72                                    | INF. POP.<br>1<br>3<br>INF. POP.                        |
| WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>TR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>TR   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.5<br>129.6<br>156.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.5<br>127.8  | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8   | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>11<br>2<br>0<br>77<br>7<br><b>ASAL</b> A<br>31   | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AREA/A<br>AVG<br>37  | 347<br>314<br>48<br>73<br>263<br><u>HIGH</u><br>37<br>23<br>13<br>22<br>10<br>2<br>90<br><b>CRE</b><br>HIGH<br>43  |          | € OF PLOTS<br>5<br>141<br>€ OF PLOTS   | 7<br>7<br>72<br>REQ.                                 | INF. POP<br>1<br>3<br>INF. POP                          |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG   | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.5<br>129.6<br>156.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.5<br>COEF   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br><u>% S.E.%</u><br>16.8<br>20.4  | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>09<br><b>REES/A</b><br>7<br><b>REES/A</b><br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A<br>31<br>27  | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AVG<br>37<br>34  | 347<br>314<br>48<br>73<br>263<br><u>HIGH</u><br>37<br>23<br>13<br>22<br>10<br>2<br>90<br><b>CRE</b><br>HIGH<br>43<br>40  |          | € OF PLOTS<br>5<br>141<br>€ OF PLOTS   | 7<br>7<br>72<br>REQ.                                 | INF. POP<br>1<br>3<br>INF. POP                          |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.5<br>129.6<br>156.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.5<br>127.8<br>155.6<br>211.9  | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br><u>% S.E.%</u><br>16.8<br>20.4<br>27.8  | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>09<br><b>REES/A</b><br>7<br>15<br>7<br>11<br>20<br>0<br>77<br><b>ASAL</b> A<br>31<br>27<br>6   | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AVG<br>37<br>34<br>9   | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11  |          | € OF PLOTS<br>5<br>141<br>€ OF PLOTS   | 7<br>7<br>72<br>REQ.                                 | INF. POP<br>1<br>3<br>INF. POP                          |
| WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>OUC<br>WR C<br>WLA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WR C  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br><u>% S.E.%</u><br>16.8<br>20.4<br>27.8<br>34.7  | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>09<br><b>REES/A</b><br>7<br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A<br>3<br>3   | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br><b>AREA/A</b><br>AVG<br>37<br>34<br>9<br>5                          | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7   |          | € OF PLOTS<br>5<br>141<br>€ OF PLOTS   | 7<br>7<br>72<br>REQ.                                 | INF. POP.<br>1<br>3<br>INF. POP.                        |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8  | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8<br>20.4<br>27.8<br>34.7<br>70.1   | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>09<br><b>REES/A</b><br>7<br>15<br>7<br>11<br>20<br>0<br>77<br><b>ASAL</b> A<br>31<br>27<br>6   | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AVG<br>37<br>34<br>9   | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11  |          | € OF PLOTS<br>5<br>141<br>€ OF PLOTS   | 7<br>7<br>72<br>REQ.                                 | INF. POP.<br>1<br>3<br>INF. POP.                        |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI  | CEDAR<br>ARCH<br>INE<br>CMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>CEDAR<br>ARCH<br>INE<br>CEDAR   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5   | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0  | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>09<br><b>REES/A</b><br>7<br>15<br>7<br>11<br>22<br>0<br>77<br><b>ASAL</b> A<br>3<br>1  | 304<br>240<br>30<br>60<br>236<br><b>ACRE</b><br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br><b>AVG</b><br>37<br>34<br>9<br>5<br>2                               | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4                                      |          | € OF PLOTS<br>5<br>141<br>€ OF PLOTS   | 7<br>7<br>72<br>REQ.                                 | INF. POP.<br>1<br>3<br>INF. POP.<br>1                   |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>SD:<br>GR FI<br>DOUG<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUG<br>WR C<br>U<br>WR C<br>CL:<br>SD:<br>TOTA  | CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>EMLOCK<br>AL<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>CEDAR<br>AL<br>CEDAR<br>AL<br>CEDAR<br>AL  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6  | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br><u>% S.E.%</u><br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0<br>7.2                           | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>26<br>15<br>7<br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A<br>31<br>27<br>6<br>3<br>1<br>0<br>87  | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AVG<br>37<br>34<br>9<br>5<br>2<br>1<br>88                                  | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4<br>1                                 | #        | <sup>#</sup> OF PLOTS<br>5<br><i>141</i><br><sup>#</sup> OF PLOTS<br>5<br><i>120</i> | 72<br>72<br>72<br>72<br>7<br>7<br>61                 | INF. POP.<br>1<br>3<br>INF. POP.<br>1<br>3<br>3         |
| WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA  | CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>CEDAR<br>ARCH<br>INE<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6<br>54.8<br>COEF   | 14.2<br>30.9<br>61.1<br>22.1<br><i>11.4</i><br>F<br><u>% S.E.%</u><br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br><u>% S.E.%</u><br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0<br>7.2<br>F               | 20<br>10<br>20<br>T<br>LOW   | 51<br>56<br>12<br>47<br><b>REES/A</b><br>7<br><b>REES/A</b><br>7<br>226<br>15<br>7<br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A<br>3<br>1<br>27<br>6<br>3<br>1<br>0<br>83<br><b>ET BF</b> /.  | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AREA/A<br>AVG<br>37<br>34<br>9<br>5<br>2<br>1<br>88<br>ACRE                | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4<br>1<br>94                           | #        | * OF PLOTS<br>5<br>141<br>* OF PLOTS<br>5<br>120<br>* OF PLOTS                       | 72<br>72<br>72<br>72<br>7<br>7<br>61<br>61<br>8 REQ. | INF. POP<br>1<br>3<br>INF. POP<br>1<br>3<br>INF. POP    |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA   | CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6<br>54.8<br>COEF<br>VAR.9   | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0<br>7.2<br>F<br>% S.E.%                         | 20<br>10<br>20<br>T<br>LOW<br>20<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>20<br>15<br>7<br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A<br>7<br>31<br>27<br>6<br>3<br>1<br>0<br>81<br><b>ET BF</b> /.  | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AREA/A<br>AVG<br>37<br>34<br>9<br>5<br>2<br>1<br>88<br>ACRE<br>AVG         | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4<br>1<br>94<br>HIGH                   | #        | <sup>#</sup> OF PLOTS<br>5<br><i>141</i><br><sup>#</sup> OF PLOTS<br>5<br><i>120</i> | 72<br>72<br>72<br>72<br>7<br>7<br>61                 | INF. POP.<br>1  |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>OUU<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>CL:<br>SD:<br>GR FI<br>DOUC   | CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0   | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6<br>54.8<br>COEF   | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0<br>7.2<br>F<br>% S.E.%<br>16.8                 | 20<br>10<br>20<br>T<br>LOW<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                                     | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>226<br>15<br>7<br>7<br>11<br>2<br>2<br>0<br>77<br><b>ASAL</b> A<br>7<br>31<br>27<br>6<br>3<br>1<br>0<br>87<br><b>ET BF</b> /.<br>5<br>3  | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AREA/A<br>AVG<br>37<br>34<br>9<br>5<br>2<br>1<br>88<br>ACRE                | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4<br>1<br>94                           | #        | * OF PLOTS<br>5<br>141<br>* OF PLOTS<br>5<br>120<br>* OF PLOTS                       | 72<br>72<br>72<br>72<br>7<br>7<br>61<br>61<br>8 REQ. | INF. POP.<br>1<br>3<br>INF. POP.<br>1<br>3<br>INF. POP. |
| WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>CL:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD | CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>INE  | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6<br>54.8<br>COEF<br>VAR.9   | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0<br>7.2<br>F<br>% S.E.%<br>16.8<br>20.5         | 20<br>10<br>20<br>T<br>LOW<br>5<br>8<br>LOW<br>5,11<br>3,79  | 51<br>56<br>12<br>47<br>7<br><b>REES/A</b><br>7<br><b>REES/A</b><br>7<br>15<br>7<br><b>ASAL</b> A<br>7<br><b>ASAL</b> A<br>7<br><b>ASAL</b> A<br>7<br><b>ET BF</b> /A<br>7<br>5<br>3<br>1<br>0<br>8<br>7<br>7<br><b>ASAL</b> A<br>7<br>5<br>3<br>1<br>0<br>8<br>7<br>7<br><b>ASAL</b> A<br>7<br>5<br>7<br>7<br><b>ASAL</b> A<br>7<br>5<br>7<br><b>ASAL</b> A<br>7<br>5<br>7<br><b>ASAL</b> A<br>7<br><b>ASAL</b> A<br>7<br><b>5</b><br>7<br><b>5</b><br>7<br><b>5</b><br>7<br><b>6</b><br><b>3</b><br>1<br>0<br><b>5</b><br><b>7</b><br><b>5</b><br><b>7</b><br><b>6</b><br><b>3</b><br><b>1</b><br><b>6</b><br><b>5</b><br><b>7</b><br><b>7</b><br><b>7</b><br><b>7</b><br><b>7</b><br><b>7</b><br><b>7</b><br><b>7</b> | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AVG<br>37<br>34<br>9<br>5<br>2<br>1<br>88<br>ACRE<br>AVG<br>6,195          | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4<br>1<br>94<br>HIGH<br>7,237          | #        | * OF PLOTS<br>5<br>141<br>* OF PLOTS<br>5<br>120<br>* OF PLOTS                       | 72<br>72<br>72<br>72<br>7<br>7<br>61<br>61<br>8 REQ. | INF. POP<br>1<br>3<br>INF. POP<br>1<br>3<br>INF. POP    |
| WR C<br>W LA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI<br>WHE<br>TOTA<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA<br>LP PI<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>CL:<br>SD:<br>GR FI<br>DOUC<br>WR C<br>WLA   | CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G FIR<br>CEDAR<br>ARCH<br>INE<br>SMLOCK<br>AL<br>68.1 %<br>1.0<br>IR<br>G 68.1 %<br>I.0<br>IR<br>G 68.1 %<br>I.0<br>IR<br>G 68.1 %<br>I.0<br>IR<br>G 68.1 %<br>I.0<br>IR<br>G 68.1 %<br>I.0<br>IR<br>CEDAR | 62.1<br>88.2<br>23.6<br>66.5<br>COEF<br>VAR.9<br>226.9<br>265.9<br>265.9<br>533.8<br>761.6<br>59.5<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6<br>54.8<br>COEF<br>VAR.9<br>127.8<br>155.6<br>211.9<br>264.5<br>533.8<br>761.6<br>54.8 | 14.2<br>30.9<br>61.1<br>22.1<br>11.4<br>F<br>% S.E.%<br>17.0<br>20.6<br>29.8<br>34.9<br>70.1<br>100.0<br>7.8<br>F<br>% S.E.%<br>16.8<br>20.4<br>27.8<br>34.7<br>70.1<br>100.0<br>7.2<br>F<br>% S.E.%<br>16.8<br>20.5<br>29.7 | 20<br>10<br>20<br>20<br>T<br>LOW<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                               | 51<br>56<br>12<br>47<br>79<br><b>REES/A</b><br>7<br>7<br>11<br>2<br>0<br>77<br><b>ASAL</b> A<br>7<br><b>ASAL</b> A<br>7<br><b>ASAL</b> A<br>7<br><b>ET BF</b> /A<br>5<br>3<br>1<br>0<br>8<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   | 304<br>240<br>30<br>60<br>236<br>ACRE<br>AVG<br>32<br>19<br>10<br>16<br>6<br>1<br>84<br>AVG<br>37<br>34<br>9<br>5<br>2<br>1<br>88<br>ACRE<br>AVG<br>6,195<br>4,771 | 347<br>314<br>48<br>73<br>263<br>HIGH<br>37<br>23<br>13<br>22<br>10<br>2<br>90<br>CRE<br>HIGH<br>43<br>40<br>11<br>7<br>4<br>1<br>94<br>HIGH<br>7,237<br>5,748 | #        | * OF PLOTS<br>5<br>141<br>* OF PLOTS<br>5<br>120<br>* OF PLOTS                       | 72<br>72<br>72<br>72<br>7<br>7<br>61<br>61<br>8 REQ. | INF. POP.<br>1<br>3<br>INF. POP.<br>1<br>3<br>INF. POP. |

| TC TST | `ATS   |       |           | PRO    | STATIS<br>DJECT | STICS<br>DEERFS | AL    |           | PAGE<br>DATE | 2<br>1/19/2016 |
|--------|--------|-------|-----------|--------|-----------------|-----------------|-------|-----------|--------------|----------------|
| TWP    | RGE    | SECT  | TRACT     | TYI    | PE A            | ACRES           | PLOTS | TREES     | CuFt         | BdFt           |
| 29N    | 38E    | 08    | DEER FIRE | 00U    | 1               | 311.79          | 58    | 186       | S            | Е              |
| CL:    | 68.1%  | COE   | FF        | NET    | F BF/ACRI       | Ξ               |       | # OF PL   | OTS REQ.     | INF. POP       |
| SD:    | 1.0    | VAR   | . S.E.%   | LOW    | AVG             | HIGH            |       | 5         | 7            | 10             |
| WHE    | MLOCK  | 761.6 | 5 100.0   | 0      | 79              | 158             |       |           |              |                |
| TOTA   | AL     | 59.4  | 4 7.8     | 11,883 | 12,887          | 13,892          |       | 141       | 72           | 35             |
| CL:    | 68.1 % | COE   | FF        | V-B    | AR/ACRE         |                 |       | # OF PLOT | 'S REQ.      | INF. POP.      |
| SD:    | 1.0    | VAR   | .% S.E.%  | LOW    | AVG             | HIGH            |       | 5         | 7            | 10             |
| GR FI  | IR     |       |           | 139    | 167             | 195             |       |           |              |                |
| DOU    | G FIR  |       |           | 113    | 142             | 171             |       |           |              |                |
| WR C   | EDAR   | 131.1 | 1 17.2    | 86     | 123             | 159             |       |           |              |                |
| W LA   | RCH    | 150.6 | 5 19.8    | 52     | 83              | 114             |       |           |              |                |
| LP PI  | NE     | 370.6 | 6 48.7    | 44     | 148             | 252             |       |           |              |                |
| WHE    | MLOCK  | 761.6 | 5 100.0   | 0      | 136             | 273             |       |           |              |                |
| TOTA   | AL     | 515.2 | 2 67.7    | 136    | 147             | 159             |       | 10,618    | 5,418        | 2,655          |

|   | ATS  |   |   |                     | ST.<br>PROJEC   | ATIST   | TICS<br>deerfsai  |                |   |  | 1<br>/19/2016  |
|---|--|---|---|---------------------|---|---|---|----------------|---|--|--|
| ГWP   | RGE  | SECT 1  | ГRACT   |                     | ТҮРЕ  | AC  | RES   | PLOTS          | TREES   | CuFt   | BdFt   |
| 29N   | 38E  | 22 1  | DEER FIRE   |                     | 00U2  |   | 185.54  | 48             | 112   | S  | Е  |
|   |  |   |   | т                   | REES  |   | ESTIMATED<br>TOTAL  |                | PERCENT   |  |  |
|   |  | PLOTS   | TREES   |                     | ER PLOT   |   | TREES   |                | REES  |  |  |
| TOTA  | AL.  | 48  | 112   |                     | 2.3   |   |   |                |   |  |  |
| CRUI  |  | 16  | 23  |                     | 1.4   |   | 11,486  |                | .2  |  |  |
| DBH   | COUNT  |   |   |                     |   |   |   |                |   |  |  |
| REFO  | OREST  |   |   |                     |   |   |   |                |   |  |  |
| COUN  | NT   | 18  | 30  |                     | 1.7   |   |   |                |   |  |  |
| BLAN  |  | 14  |   |                     |   |   |   |                |   |  |  |
| 100 %   | )  |   |   |                     |   |   |   |                |   |  |  |
|   |  |   |   | STAN                | ID SUMM   | IARY  |   |                |   |  |  |
|   |  | SAMPLE  | TREES   | AVG                 | BOLE  | REL   | BASAL   | GROSS          | NET   | GROSS  | NET  |
| DOT   |  | TREES   | /ACRE   | DBH                 | LEN   | DEN   | AREA  | BF/AC          | BF/AC   | CF/AC  | CF/AC  |
| DOU   |  | 11  | 41.1  | 10.3                | 52<br>80  | 7.4   | 23.7  | 2,340          | 2,276   | 561  | 560  |
| GR FI   | G FIR-L  | 1 8   | 10.3<br>9.1   | 14.7<br>15.6        | 80<br>90  | 3.2<br>3.1  | 12.2<br>12.2  | 1,753<br>2,707 | 1,753<br>2,642  | 391<br>499   | 391<br>499   |
| P PIN   |  | 8   | 9.1<br>1.0  | 15.6<br>22.7        | 90<br>79  | 3.1<br>0.6  | 2.9   | 2,707          | 2,642<br>558  | 499<br>100   | 499<br>100   |
|   | e<br>MLOCK   | 2   | .3  | 19.1                | 79<br>75  | 0.0   | 2.9<br>.6   | 128            | 128   | 23   | 23   |
| TOTA  |  | 23  | .5<br>61.9  | 12.4                | 63  | 14.7  | .0<br>51.5  | 7,516          | 7,357   | 1,573  | 1,573  |
|   | 68.1   | TIMES OUT   | F THE SAMPL<br>Γ OF 100 THE `   |                     |   |   |   |                |   |  |  |
|   | 68.1 %   | COEF  |   |                     | SAMPLE  |   |   | #              | OF TREES  | •  | INF. POP.  |
| SD:<br>DOU  | 1.0  | VAR.  |   | LO                  |   | AVG   | HIGH  |                | 5   | 7  | 1  |
|   | G FIR-L  | 140.6   | 44.4  |                     | 77  | 139   | 201   |                |   |  |  |
| GR FI   |  | 59.5  | 22.5  |                     | 290   | 374   | 458   |                |   |  |  |
| P PIN   | Е  | 43.8  | 41.1  |                     | 333   |   |   |                |   |  |  |
|   |  |   | 41.1  |                     | 555   | 565   | 797   |                |   |  |  |
|   | MLOCK  |   |   |                     |   |   |   |                |   |  |  |
| TOT   | AL   | 88.5  | 18.9  |                     | 221   | 565<br>272  | 324   |                | 328   | 167  | 82   |
| TOTA<br>CL:   | AL<br>68.1 %   |   | <i>18.9</i><br>F  |                     |   | 272   |   | +              | 328<br># OF PLOTS   |  | -  |
| TOTA<br>CL:<br>SD:  | AL<br>68.1 %<br>1.0  | 88.5<br>COEF<br>VAR.4   | 18.9<br>F<br>% S.E.%  | LO                  | 221<br><b>TREES</b> /A  | 272<br>ACRE<br>AVG  | <i>324</i><br>HIGH  |                |   |  | INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUG  | AL<br>68.1 %<br>1.0<br>G FIR   | 88.5<br>COEF<br>VAR.9<br>163.5  | 18.9<br>F<br>% <u>S.E.%</u><br>23.6   |                     | 221<br>TREES/A<br>WW<br>31  | 272<br>ACRE<br>AVG<br>41  | 324<br>HIGH<br>51   |                | OF PLOTS  | REQ.   | INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L  | 88.5<br>COEF<br>VAR.<br>163.5<br>193.9  | 18.9<br>F<br>% S.E.%<br>23.6<br>28.0  |                     | 221<br>TREES/A<br>W<br>31<br>7  | 272<br>ACRE<br>AVG<br>41<br>10  | 324<br>HIGH<br>51<br>13   | ħ              | OF PLOTS  | REQ.   | INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUG  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR  | 88.5<br>COEF<br>VAR.9<br>163.5  | 18.9<br>F<br>% S.E.%<br>23.6<br>28.0<br>34.4  |                     | 221<br>TREES/A<br>WW<br>31  | 272<br>ACRE<br>AVG<br>41  | 324<br>HIGH<br>51   | #              | OF PLOTS  | REQ.   | INF. POP.  |
| CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR  | 88.5<br>COEF<br>VAR.<br>163.5<br>193.9<br>238.1   | 18.9<br>F<br>% S.E.%<br>23.6<br>28.0<br>34.4<br>51.6  |                     | 221<br>TREES/A<br>W<br>31<br>7<br>6   | 272<br>ACRE<br>AVG<br>41<br>10<br>9   | 324<br>HIGH<br>51<br>13<br>12   | #              | OF PLOTS  | REQ.   | INF. POP.  |
| CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK  | 88.5<br>COEF<br>VAR.<br>163.5<br>193.9<br>238.1<br>357.3  | 18.9           F           %         S.E.%           23.6           28.0           34.4           51.6           100.0  |                     | 221<br>TREES/A<br>WW<br>31<br>7<br>6<br>0   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1  | 324<br>HIGH<br>51<br>13<br>12<br>2  | #              | OF PLOTS  | REQ.   | 8.<br>INF. POP.<br>1   |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK  | 88.5<br>COEF<br>VAR.0<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8  | 18.9           F           %         S.E.%           23.6           28.0           34.4           51.6           100.0           16.5   |                     | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0   | 272<br>ACRE<br>41<br>10<br>9<br>1<br>0<br>62  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72   |                | ŧ OF PLOTS<br>5   | 5 REQ.<br>7<br>266   | INF. POP.  |
| TOTA<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0   | 88.5<br>COEF<br>VAR.0<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.0  | 18.9           F           %         S.E.%           23.6           28.0           34.4           51.6           100.0           16.5           F           %         S.E.%   |                     | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AREA/A<br>AVG  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH  |                | F OF PLOTS 5  | 5 REQ.<br>7<br>266   | INF. POP.<br>1<br>13<br>INF. POP.  |
| TOTA<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUC   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR  | 88.5<br>COEF<br>VAR.0<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.0<br>162.0   | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         %           S.E.%         23.4  | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AREA/A<br>AVG<br>24  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29  |                | <sup>≠</sup> OF PLOTS<br>5<br>522<br><sup>↓</sup> OF PLOTS  | 3 REQ.<br>7<br>266<br>3 REQ.                                   | INF. POP.<br>1<br>13<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>DOUC  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L   | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9  | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         %           S.E.%         23.4           23.4         28.0  | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AREA/A<br>AVG<br>24<br>12  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16  |                | <sup>≠</sup> OF PLOTS<br>5<br>522<br><sup>↓</sup> OF PLOTS  | 3 REQ.<br>7<br>266<br>3 REQ.                                   | INF. POP.<br>1<br>13<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR   | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3   | 18.9           F           %         S.E.%           23.6           28.0           34.4           51.6           100.0           16.5           F           %         S.E.%           23.4           28.0           34.0  | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AREA/A<br>AVG<br>24<br>12<br>12  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16  |                | <sup>≠</sup> OF PLOTS<br>5<br>522<br><sup>↓</sup> OF PLOTS  | 3 REQ.<br>7<br>266<br>3 REQ.                                   | INF. POP.<br>1<br>13<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR   | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9  | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         23.4           23.6         23.4           23.4         23.4           23.0         34.0           51.4         51.4  | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AREA/A<br>AVG<br>24<br>12  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16  |                | <sup>≠</sup> OF PLOTS<br>5<br>522<br><sup>↓</sup> OF PLOTS  | 3 REQ.<br>7<br>266<br>3 REQ.                                   | INF. POP.<br>1<br>13<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK   | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4  | 18.9           F           23.6           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           23.4           23.4           28.0           34.0           51.4           100.0  | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3   | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>16<br>4   |                | <sup>≠</sup> OF PLOTS<br>5<br>522<br><sup>↓</sup> OF PLOTS  | 3 REQ.<br>7<br>266<br>3 REQ.                                   | INF. POP.<br>1<br>13<br>INF. POP.<br>1   |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FJ<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FJ<br>P PIN<br>WHE<br>TOTA  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK   | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8   | 18.9           F           23.6           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           23.4           23.4           28.0           34.0           51.4           100.0           14.0   | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>16<br>4<br>1  | #              | ≠ OF PLOTS<br>5<br>522<br>≠ OF PLOTS<br>5<br>376  | 3 REQ.<br>7<br>266<br>3 REQ.<br>7<br>192                       | INF. POP.<br>1<br>130<br>INF. POP.<br>1<br>9   |
| TOTA           CL:           SD:           DOUG           GR FI           P PIN           WHEI           TOTA           CL:           SD:           DOUG           GR FI           P PIN           WHEI           DOUG           GR FI           P PIN           WHEI           TOTA           CL:           CDUG           GR FI           P PIN           WHEI           TOTA           CL:   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0   | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         23.4           28.0         34.0           51.4         100.0           14.0         F  | LO                  | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>16<br>4<br>1  | #              | ≠ OF PLOTS<br>5<br>522<br>≠ OF PLOTS<br>5   | 3 REQ.<br>7<br>266<br>3 REQ.<br>7<br>192                       | INF. POP.<br>1<br>13<br>INF. POP.<br>1<br>9.<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>CD:<br>CL:<br>SD:<br>DOUC<br>CD:<br>SD:<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>SD:<br>CD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>S | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>166.3   | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         %           S.E.%         23.4           28.0         34.0           51.4         100.0           14.0         F           %         S.E.%           24.0         24.0  | L0<br>L0<br>L0<br>1 | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>730  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AREA/A<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE  | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822                           | #              | # OF PLOTS     5     5     5     5     5     376     # OF PLOTS     5   | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.             | INF. POP.<br>1<br>13<br>INF. POP.<br>1<br>9.<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CL:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>SD:<br>DOUC<br>CD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>CD:<br>SD:<br>SD:<br>CD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>SD:<br>S                   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>G FIR-L<br>G FIR-L<br>G FIR-L<br>G FIR-L  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>166.3<br>193.9  | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         %           S.E.%         23.4           28.0         34.0           51.4         100.0           14.0         F           %         S.E.%           24.0         28.0  | L0<br>L0            | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>730<br>,263  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE<br>AVG<br>2,276<br>1,753                                 | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822<br>2,244                  | #              | # OF PLOTS     5     5     5     5     5     376     # OF PLOTS     5   | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.             | INF. POP.<br>1<br>13<br>INF. POP.<br>1<br>9.<br>INF. POP.  |
| TOT/           CL:           SD:           DOUG           GR FI           P PIN           WHEI           TOT/           SD:           DOUG           GR FI           P PIN           WHEI           TOT/           SD:           DOUG           GR FI           P PIN           WHEI           TOT/           SD:           DOUG           GR FI           P OUG           GR FI           DOUG           GR FI           DOUG           GR FI           DOUG           GR FI   | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>68.1 %<br>1.0<br>G FIR-L<br>IR  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>162.8<br>97.0<br>COEF<br>VAR.4<br>163.5<br>193.9<br>239.0 | 18.9           F           23.6           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           23.4           28.0           34.0           51.4           100.0           14.0           F           %         S.E.%           24.0           28.0           34.5   | L0<br>L0            | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>,730<br>,263<br>,731   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE<br>AVG<br>2,276<br>1,753<br>2,642                        | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822<br>2,244<br>3,553               | #              | # OF PLOTS     5     5     5     5     5     376     # OF PLOTS     5   | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.             | INF. POP.<br>1<br>13<br>INF. POP.<br>1<br>9.<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>G FIR<br>G FIR-L<br>IR<br>G FIR<br>G FIR-L<br>IR<br>G FIR-L<br>IR<br>G FIR-L<br>IR<br>G FIR-L<br>IR<br>E | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>166.3<br>193.9<br>239.0<br>358.4                          | 18.9           F           %         S.E.%           23.6         28.0           34.4         51.6           100.0         16.5           F         %           S.E.%         23.4           28.0         34.0           51.4         100.0           14.0         14.0           F         %         S.E.%           24.0         28.0           34.5         51.7                         | L0<br>L0            | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>,730<br>,263<br>,731<br>269   | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE<br>AVG<br>2,276<br>1,753<br>2,642<br>558                 | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822<br>2,244<br>3,553<br>847        | #              | # OF PLOTS     5     5     5     5     5     376     # OF PLOTS     5   | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.             | INF. POP.<br>1<br>13<br>INF. POP.<br>1<br>9.<br>INF. POP.  |
| TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>P PIN<br>WHE<br>TOTA   | AL           68.1 %           1.0           G FIR           G FIR-L           IR           68.1 %           1.0           G FIR           MLOCK  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>166.3<br>193.9<br>239.0<br>358.4<br>692.8                 | 18.9           F           23.6           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           23.4           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           24.0           28.0           34.5           51.7           100.0                          | L0<br>L0            | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>,730<br>,263<br>,731<br>269<br>0  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE<br>AVG<br>2,276<br>1,753<br>2,642<br>558<br>128          | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822<br>2,244<br>3,553<br>847<br>256 | #              |   | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.<br>7        | INF. POP.<br>1<br>13<br>13<br>13<br>10<br>1<br>1<br>9<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| TOTA<br>CL:<br>SD:<br>DOUG<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUG<br>GR FI<br>P PIN<br>WHEI<br>TOTA<br>CL:<br>SD:<br>DOUG<br>GR FI<br>P PIN<br>WHEI<br>TOTA  | AL<br>68.1 %<br>1.0<br>G FIR<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %<br>1.0<br>G FIR-L<br>IR<br>E<br>MLOCK<br>AL<br>68.1 %  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>166.3<br>193.9<br>239.0<br>358.4<br>692.8<br>107.0        | 18.9           F           23.6           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           23.4           28.0           34.0           51.4           100.0           14.0           F           %           S.E.%           24.0           28.0           34.5           51.7           100.0           15.4           | L0<br>L0            | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>,730<br>,263<br>,731<br>269<br>0<br>221  | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE<br>AVG<br>2,276<br>1,753<br>2,642<br>558<br>128<br>7,357 | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822<br>2,244<br>3,553<br>847        | #              | <ul> <li># OF PLOTS 5</li> <li>522</li> <li># OF PLOTS 5</li> <li>376</li> <li># OF PLOTS 5</li> <li>458</li> </ul> | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.<br>7<br>234 | INF. POP.<br>1<br>INF. POP.<br>1<br>9<br>INF. POP.<br>1<br>1<br>1<br>1<br>1  |
| TOT/           CL:           SD:           DOUG           GR FI           P PIN           WHEI           TOT/           CL:           SD:           DOUG           GR FI           P PIN           WHEI           TOT/           CL:  | AL           68.1 %           1.0           G FIR           G FIR-L           IR           68.1 %           1.0           G FIR           MLOCK  | 88.5<br>COEF<br>VAR.4<br>163.5<br>193.9<br>238.1<br>357.3<br>692.8<br>114.2<br>COEF<br>VAR.4<br>162.0<br>193.9<br>235.3<br>356.4<br>692.8<br>97.0<br>COEF<br>VAR.4<br>166.3<br>193.9<br>239.0<br>358.4<br>692.8                 | 18.9           F           23.6           28.0           34.4           51.6           100.0           16.5           F           %           S.E.%           23.4           28.0           34.0           51.4           100.0           14.0           F           %         S.E.%           24.0           28.0           34.5           51.7           100.0           15.4           F | L0<br>L0            | 221<br>TREES/A<br>W<br>31<br>7<br>6<br>0<br>0<br>52<br>BASAL A<br>W<br>18<br>9<br>8<br>1<br>0<br>44<br>NET BF/<br>W<br>730<br>263<br>731<br>269<br>0<br>221<br><b>V</b><br><b>V</b><br><b>V</b><br><b>V</b><br><b>V</b><br><b>V</b><br><b>V</b><br><b>V</b> | 272<br>ACRE<br>AVG<br>41<br>10<br>9<br>1<br>0<br>62<br>AVG<br>24<br>12<br>12<br>3<br>1<br>52<br>ACRE<br>AVG<br>2,276<br>1,753<br>2,642<br>558<br>128<br>7,357 | 324<br>HIGH<br>51<br>13<br>12<br>2<br>1<br>72<br>CRE<br>HIGH<br>29<br>16<br>16<br>4<br>1<br>59<br>HIGH<br>2,822<br>2,244<br>3,553<br>847<br>256 | #              |   | 5 REQ.<br>7<br>266<br>5 REQ.<br>7<br>192<br>5 REQ.<br>7<br>234 | INF. POP.<br>10<br>13  |

| TC TSTATS  |       |                  |            | STATIS<br>DJECT | TICS<br>DEERFS | SAL   |          | PAGE<br>DATE | 2<br>1/19/2016 |
|------------|-------|------------------|------------|-----------------|----------------|-------|----------|--------------|----------------|
| TWP RGE    | SECT  | TRACT            | ТҮР        | E A             | CRES           | PLOTS | TREES    | CuFt         | BdFt           |
| 29N 38E    | 22    | <b>DEER FIRE</b> | <b>00U</b> | 2               | 185.54         | 48    | 112      | S            | Е              |
| CL: 68.1 % | 5 COI | EFF              | V-B        | AR/ACRE         |                |       | # OF PLO | OTS REQ.     | INF. POP.      |
| SD: 1.0    | VAI   | R. S.E.%         | LOW        | AVG             | HIGH           |       | 5        | 7            | 10             |
| DOUG FIR-L |       |                  | 104        | 144             | 185            |       |          |              |                |
| GR FIR     | 69    | .8 10.1          | 142        | 217             | 292            |       |          |              |                |
| P PINE     | 174   | .4 25.2          | 93         | 193             | 293            |       |          |              |                |
| WHEMLOCK   | 692   |                  | 0          | 221             | 442            |       |          |              |                |
| TOTAL      | 518.  | .0 74.8          | 121        | 143             | 165            |       | 10,734   | 5,476        | 2,683          |

| 291         382         10         DEER FIRE         0013         246.20         58         104         S         F           TREES         PR PLOT         TREES         PTOTAL         58         104         S.         F           TOTAL         58         104         1.8         TREES         AVG         BOD         RET         REGO         REFAC         REFAC         REFAC         CFAC  | TC TSTATS   | S      |        |                  |      | ST<br>projec | ATIST  | TICS<br>deerfsai | Ĺ        |            | PAGE<br>DATE | 1<br>1/19/2016 |       |
|--|---|--------|--------|------------------|------|--------------|--------|------------------|----------|------------|--------------|----------------|-------|
| PLOTS         TREES         FSTMATED<br>TOTAL         PERCENT<br>SAMPLE         SAMPLE           TOTAL         58         104         1.8         ISE  | GWP R   | GE     | SECT   | TRACT            |      | ТҮРЕ         | AC     | CRES             | PLOTS    | TREES      | CuFt         | BdFt           |       |
| TOTAL         SAMPLE         TOTAL         SAMPLE           TOTAL         58         014         1.8         IREES         IREES         IREES           TOTAL         58         014         1.2         2.0         IREES         <  | <u>29N 3</u>  | 88E    | 10     | <b>DEER FIRE</b> |      | 00U3         |        | 246.20           | 58       | 104        | S            | Е              |       |
| PLOTSTREESPER PLOTTREESTREESTOTAL581041.8CRUISE1622DBI COUNT27542.0COUNT27542.0IBANKS77542.0DOUG TR78NCRBOLERELBASALGROSSNETGROSS100*TREESAVGBOLERELBASALBRASBRASBRAS512100514.5003.212.21.3183.43502512OLIG TR816.415.9724.717.42.0421.942512VLARCH10.514.5603.212.21.3183.333.671.6WLARCH34.319.98.20.72.33.453.661.61.8WLARCH34.3112.07.81.86.41.333.333.891.6PINE5.21.31.86.41.75.86786131.31.8PINE5.21.3.01.3.34.8.15.066.131.31.8 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>TREES</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |   |        |        |                  |      | TREES        |        |                  |          |            |              |                |       |
| CRUISE         16         23         1.4         12.846         2           DBUI COUNT         27         54         2.0           COUNT         27         54         2.0           BLANKS         15         00"         0.0<  |   |        | PLOTS  | TREES            |      |              |        |                  |          |            |              |                |       |
| DBH COUNT<br>REFOREST<br>COUNT         27         54         2.0           BLANKS         15           SAMPLE         TRFES         AVG         BOLE         RFL         BASAL         GROSS         NFT         GROSS           TRFES         /// CRE         DBH         LEN         DEN         AREA         BF/AC         CF/AC         CC           DOUG FIR.         8         16.4         13.9         72         4.7         17.4         2.042         1.942         50.2           DOUG FIR.         3         13.3         9         62         0.7         2.3         343         343         13.3           W LARCH         3         43.3         9.9         62         0.7         2.3         343         343         13.3           W LARCH         3         43.8         12.5         62         1.1         4.1         333         333         13.5           TOTAL         2.3         5.2.2         13.0         67         1.3.3         4.8.1         5.506         5.199         1.31           CONEDENCE LIMITS OF THE SAMPLE         SAMPLE TREES - BF         4 OF TREES REO.         NF.           SDD 1.0         VAR.%         S.E.%  | TOTAL   |        | 58     | 3 104            |      | 1.8          |        |                  |          |            |              |                |       |
| REPRESET<br>COUNT         2.0           STAND SUMMENT           SUMMENT         STAND SUMMENT           CONFIDENCE LIMITS OF THE SAMPLE           SAMPLE TREES         F         # OF TREES REV         NMENT           SUMMENT TREES/MENT         SAMPLE TREES         F           OUGFIRE         # OF TREES REV         NMENT           SEAM LET TREES/ ACM NOT MENT SUMMENT           SAMPLE TREES         SAMPLE <th cols<="" td=""><td>CRUISE</td><td></td><td>16</td><td>5 23</td><td></td><td>1.4</td><td></td><td>12,846</td><td></td><td>.2</td><td></td><td></td></th>  | <td>CRUISE</td> <td></td> <td>16</td> <td>5 23</td> <td></td> <td>1.4</td> <td></td> <td>12,846</td> <td></td> <td>.2</td> <td></td> <td></td>                  | CRUISE |        | 16               | 5 23 |              | 1.4    |                  | 12,846   |            | .2           |                |       |
| COUNTY         27         54         2.0           BLANKS         15           TREES         AVG         BOLE         REL         BASAL         GROS         NF         GROS           SAMPLE         TREES         AVG         BOLE         REL         BASAL         GROS         NFA         GROS         CP/AC         CC           DOUG FIR         8         16.4         13.9         72         4.7         17.4         2.042         1.942         502           DOUG FIR         5         10.5         14.5         60         3.2         1.2.2         1.978         1.31         3.28           W LARCH         3         4.3         12.0         78         1.8         6.44         730         649         187           GR FIR         5.8         6.11         15.4         64         1.7         5.8         613         133         48.0           CONFIDENCE LIMITS OT THE SAMPLE         SAMPLE TREES - BF         # OF TREES REQ.         INF.           SDI 10         VAR.%         S.E.%         IOW         AVG         HIGH         5         7           DOUG FIR         1.0         VAR.%         S.E.%         IOW   | DBH CO  | UNT    |        |                  |      |              |        |                  |          |            |              |                |       |
| BLANKS<br>100%         15           SAMPLE<br>TREES         TREES<br>ACCE         AVG<br>PAC         BOLE<br>DUG         REL<br>PEN         BASAL<br>PEN         GROSS<br>PEN         NET<br>PEN         CROSS<br>PEN         NET<br>PEN         PEN         PEN <th< td=""><td></td><td></td><td></td><td>,</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td></th<> |   |        |        | ,                |      | •            |        |                  |          |            |              |                |       |
| STAND SUMLARY           STAND SUMLARY           SAMPLE         TREES         ACCEE         BOLE         REL         BASAL         GROSS         NET         GROSS           DOUG FIR         8         16.4         13.9         7.2         4.7         17.4         2.042         1.942         502           DOUG FIR         8         16.4         13.9         7.2         4.7         17.4         2.042         1.942         502           DOUG FIR         5         10.5         14.5         60         3.2         1.2.2         1.38         1.317         328           W LARCH         1         8.1         12.0         7.8         1.8         6.4         730         649         1.87           GR FIR         5         8.0         11.5         4.6         1.1         4.1         333         333         33         5           TOTAL         2.3         5.2.2         1.3.0         6.7         1.3.3         48.1         5.506         5.199         1.318           TOTAL         2.3         5.2.2         1.3.0         1.6         1.57         7         5         7         5         7  |   |        |        |                  |      | 2.0          |        |                  |          |            |              |                |       |
| STAND SUMMARY           SAMPLE<br>TREES         ACRE         DRH         BASAL         GROSS         NET         GROSS         OPEN         CRACE         BFAC         BFAC         BFAC         CRACE         CFAC         C           DOUG FIR         8         164         139         72         4.7         174         2.042         1.942         502           DOUG FIR.         5         10.5         14.5         60         3.2         12.2         1.378         1.317         328           W LARCH.         1         8.1         12.0         78         18         6.4         730         649         187           GR FIR         5         8.0         11.5         46         1.7         5.8         678         613         153           TOTAL         2.3         52.2         13.0         67         1.3.3         48.1         5.506         5.109         1.318           CONFIDENCE LIMITS OF THE SAMPLE         68.1         TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR         7         000G FIR         51.6         19.5         116         144         172         7         000G FIR         51.6         19.5         116         144         <  |   | 5      | 1.     | )                |      |              |        |                  |          |            |              |                |       |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$  | 100 %   |        |        |                  | STA  |              | ларv   |                  |          |            |              |                |       |
| TREES         /ACRE         DBH         LEN         DEN         AREA         BF/AC         BF/AC         CF/AC         C           DOUG FIR         8         164         13.9         72         4.7         17.4         2.042         1.942         502           DOUG FIR         3         4.3         9.9         82         0.7         2.3         3.81         1.31         328           W LARCH         1         8.1         12.0         78         1.8         6.4         730         649         1.87           GR FIR         5         8.0         11.5         4.6         1.7         5.8         6.13         3.33         3.33         80           CONFIDENCE LIMITS OF "HE SAMPLE         6.2         1.3         4.8.1         5.50         5.19         1.31         6.7         7           SD:         1.0         VAR.%         S.E.%         LOW         AVG         HIGH         5.50         7         7           DOUG FIR         51.6         19.5         11.6         144         172         5         7         7           DOUG FIR         4.08         20.3         108         164         164         164  |   |        | SAMPLE | E TREES          |      |              |        | BASAL            | GROSS    | NET        | GROSS        | NET            |       |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |   |        |        |                  |      |              |        |                  |          |            |              | CF/AC          |       |
| WLARCH       3       4.3       9.9       82       0.7       2.3       345       345       67         WLARCH-L       1       8.1       12.0       78       1.8       6.4       73.0       649       187         GR FIR       5       8.0       11.5       46       1.7       5.8       678       613       153         PPINE       1       4.8       12.5       62       1.1       4.1       333       333       80         CONTORL       23       52.2       13.0       67       13.3       48.1       5.506       5.199       1.318         CONTORL       23       52.2       13.0       67       13.3       48.1       5.506       5.199       1.318         CONTORL       23       52.0       10       VLARCH-L       5.76       7       7       7.8       7  | DOUG F  | IR     |        |                  |      |              |        |                  | 2,042    | 1,942      |              |                |       |
| WLARCH-L       1       8.1       12.0       78       1.8       6.4       730       649       187         GR FIR       5       8.0       11.5       46       1.7       5.8       678       613       153         PPINE       1       4.8       12.5       62       1.1       4.1       313       333       380         TOTAL       23       52.2       13.0       67       13.3       48.1       5.506       5.199       1.318         CONFIDENCE LIMITS OF THE SAMPLE         68.1       TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR         COEFF       SAMPLE TREES - F       # OF TREES REQ.       INF.         SOUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR         DOUG FIR.       51.6       19.5       116       144       172       7       7         DOUG FIR.       40.8       20.3       108       136       164       175       7       7         DOUG FIR.       78.8       39.2       78       128       178       7       7       7         PINE       78       11.9       110       124       139       131       67       7   | DOUG F  | IR-L   |        | 5 10.5           | 14.5 | 60           | 3.2    | 12.2             | 1,378    | 1,317      | 328          | 328            |       |
| GR FIR       5       8.0       11.5       46       1.7       5.8       678       613       153         PPINE       1       4.8       12.5       62       1.1       4.1       333       333       80         CONFIDENCE LIMITS OF THE SAMPLE       23       52.2       1.0       67       13.3       48.1       5,50       5,199       1,31         CONFIDENCE LIMITS OF THE SAMPLE       ENTHESAMPLE TREES - BE       # OF TREES REO.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       51.6       19.5       116       144       172       7       7         DOUG FIR       78.8       39.2       78       128       178       7       7         TOTAL       55.9       11.9       110       124       139       131       67         CC:       68.1%       COEFF       TREES/ACC       # OF PLOTS REO.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         ODUG FIR       182.6       24.0       12       16       20       <   | W LARC  | CH     |        | 3 4.3            | 9.9  | 82           | 0.7    | 2.3              | 345      | 345        | 67           | 67             |       |
| PPINE         1         4.8         12.5         62         1.1         4.1         333         333         80           TOTAL         23         52.2         13.0         67         13.3         48.1         5.506         5.199         1.318           CONFIDENCE LIMITS OF THE SAMPLE         BAMPLE TREES - BF         # OF TREES REO.         INF.           SAMPLE TREES - BF         # OF TREES REO.         INF.           DOUG FIR         5.16         19.5         116         144         172           DOUG FIR         5.16         19.5         164         172           DOUG FIR         5.16         19.5         131         67           DOUG FIR         7.8         39.2         7.8         103         67           DOUG FIR         7.8         10.1         131         67           COLE         TREES/ACRE         # OF PLOTS REO.         101 <th colspa<="" td=""><td></td><td>CH-L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>  | <td></td> <td>CH-L</td> <td></td>                                     |        | CH-L   |                  |      |              |        |                  |          |            |              |                |       |
| TOTAL         23         5.2         13.0         67         13.3         48.1         5,506         5,199         1,318           CONFIDENCE LIMITS OF THE SAMPLE<br>68.1         TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR.           CL: 68.1 %         COEFF         SAMPLE TREES - BF         # OF TREES REO.         INF.           SD:         1.0         VAR.%         8.E.%         LOW         AVG         HIGH         5         7           DOUG FIR.1         40.8         20.3         108         136         164         WLARCH         80         80         80         WLARCH         80 <td></td>   |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR.         CL: 68.1 %       COEFF       # OF TREES REO.       INF.         SAMPLE TREES - BF       # OF TREES REO.       INF.         DOUG FIR.       51.6       19.5       116       144       172         DOUG FIR.       40.8       20.3       108       130       64         WLARCH       80       80       80       80       80         CL: 68.1 %       COEFF       TREES/ACRE       # OF PLOTS REO.       INF.         DOUG FIR.       182.6       24.0       12       16         DOUG FIR.       182.6       24.0       12       16         DOUG FIR.       182.6       24.0       12       16         DOUG FIR.       182.6       24.0       16       20         DOUG FIR. <th colspa<="" td=""><td>TOTAL</td><td></td><td>2</td><td></td><td>13.0</td><td>67</td><td>13.3</td><td>48.1</td><td>5,506</td><td>5,199</td><td>1,318</td><td>1,317</td></th>  | <td>TOTAL</td> <td></td> <td>2</td> <td></td> <td>13.0</td> <td>67</td> <td>13.3</td> <td>48.1</td> <td>5,506</td> <td>5,199</td> <td>1,318</td> <td>1,317</td> | TOTAL  |        | 2                |      | 13.0         | 67     | 13.3             | 48.1     | 5,506      | 5,199        | 1,318          | 1,317 |
| BD:         I.0         VAR.%         S.E.%         LOW         AVG         HIGH         5         7           DOUG FIR         51.6         19.5         116         144         172         7           DOUG FIR         40.8         20.3         108         136         164         172           DOUG FIR         40.8         20.3         108         136         164         172           DOUG FIR         40.8         20.3         108         136         164         172           WLARCH         80         80         80         80         80         80           WLARCH         78.8         39.2         78         128         178         171           TOTAL         55.9         11.9         1110         124         139         131         67           CL:         68.1%         COEFF         TREES/ACRE         # OF PLOTS REQ.         INF.           SD:         1.0         VAR.%         S.E.%         LOW         AVG         HIGH         5         7           DOUG FIR.         192.6         25.3         8         11         13         14         14         14         14         15   |   |        |        |                  |      | E WILL BE    | WITHIN | THE SAMP         | LE ERROR |            |              |                |       |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | CL: 68  | 8.1 %  | CO     | EFF              |      | SAMPL        | E TREE | S - BF           | #        | # OF TREES | S REQ.       | INF. POP       |       |
| DOUG FIR-L       40.8       20.3       108       136       164         W LARCH       80       80       80         W LARCH-L       78       39.2       78       128       178         P PINE       78.8       39.2       78       128       178         TOTAL       55.9       11.9       110       124       139       131       67         CL:       68.1%       COEFF       TREES/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR.       192.6       25.3       8       11       13       14       13       14       14         W LARCH       370.6       48.7       2       4       6       14 <td></td> <td></td> <td></td> <td></td> <td>L</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>7</td> <td></td>   |   |        |        |                  | L    |              |        |                  |          | 5          | 7            |                |       |
| W LARCH       80       80       80       80         W LARCH-L       GR FIR       78.8       39.2       78       128       178         GR FIR       78.8       39.2       78       128       178 <b>TOTAL</b> 55.9       11.9       110       124       139       131       67         CL:       68.1%       COEFF <b>TREES/ACRE</b> # OF PLOTS REQ.       INF.         DOUG FIR.       182.6       24.0       12       16       20       16       20         DOUG FIR.       192.6       25.3       8       11       13       17       18       16       17       18       17       17  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| GR FIR<br>P PINE       78.8       39.2       78       128       178         TOTAL       55.9       11.9       110       124       139       131       67         CL:       68.1%       COEFF       TREES/ACRE       # 0F PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR.       182.6       24.0       12       16       20       7         DOUG FIR.       192.6       25.3       8       11       13         W LARCH       30.3       39.9       5       8       11         GR FIR       252.9       33.2       5       6       248       127         CL:       68.8       10.3       47       52       58       248       127         CL:       68.8       10.3       47       52       58       248       127         CL:       68.8       10.3       47       52       58       248       127         CL:       68.1%       COEFF       BASAL AREA/-CRE       # 0F PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW  |   |        | 40     |                  |      |              |        |                  |          |            |              |                |       |
| P PINE       TOTAL       55.9       11.9       110       124       139       131       67         CL:       68.1 %       COEFF       TREES/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       182.6       24.0       12       16       20       20       4       6       7       7         DOUG FIR       192.6       25.3       8       11       13       7  | W LARC  | CH-L   |        |                  |      |              |        |                  |          |            |              |                |       |
| TOTAL       55.9       11.9       110       124       139       131       67         CL: $68.1$ %       COEFF       TREES/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       182.6       24.0       12       16       20       16       20       16       20       16       20       16       20       17       16       20       16       20       16       20       16       20       16       20       16       20       16       20       16       20       16       20       16       20       16       17       16       17       17       16       16       17       17       16       17       17       16       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17       18       17       17       16       17       17       17       17       17       17       17       17       17       17       17       17<  |   |        | 78     | 3.8 39.2         |      | 78           | 128    | 178              |          |            |              |                |       |
| CL: $68.1\%$ COEFF       TREES/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       182.6       24.0       12       16       20       10       DOUG FIR.L       192.6       25.3       8       11       13         W LARCH       370.6       48.7       2       4       6       6       6       12       16       20         GR FIR       252.9       33.2       5       8       11       7       6       12       16       20         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       23       16       9       12       15       10       VAR.%       S.E.%       LOW       AVG       HIGH       5       7       100UG FIR       181.9       23.9       13       17       2.3       3       4       6       9       12.1       14       12.   |   |        | 55     | 0 110            |      | 110          | 124    | 120              |          | 121        | 67           | -              |       |
| BD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       182.6       24.0       12       16       20         DOUG FIR-L       192.6       25.3       8       11       13         W LARCH       370.6       48.7       2       4       6         W LARCH       303.7       39.9       5       8       11         GR FIR       252.9       33.2       5       8       11         P PINE       272.3       35.8       3       5       6         TOTAL       78.8       10.3       47       52       58       248       127         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       3       1       2       3         DOUG FIR       191.5       25.1       9       12       15       1       1       2       3         W LARCH       370.6       48.7       1  |   |        |        |                  |      |              |        | 139              |          |            |              | 5              |       |
| DOUG FIR       182.6       24.0       12       16       20         DOUG FIR-L       192.6       25.3       8       11       13         W LARCH       370.6       48.7       2       4       6         W LARCH       303.7       39.9       5       8       11         GR FIR       252.9       33.2       5       8       11         P PINE       272.3       35.8       3       5       6         TOTAL       78.8       10.3       47       52       58       248       127         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       3       3       4       6       9         GR FIR       221.0       29.0       4       6       9       6       7       7       7       7       7       123       3       4       6       7       7       7       7       123       123       107AL       77.6       10.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td><td>INF. POP</td></td<>   |   |        |        |                  |      |              |        |                  | 4        |            |              | INF. POP       |       |
| DOUG FIR-L       192.6       25.3       8       11       13         W LARCH       370.6       48.7       2       4       6         W LARCH-L       303.7       39.9       5       8       11         GR FIR       252.9       33.2       5       8       11         P PINE       272.3       35.8       3       5       6         TOTAL       78.8       10.3       47       52       58       248       127         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       3       4       6       9         GR FIR       221.0       29.0       4       6       7       9       12       15         W LARCH       303.7       39.9       4       6       7       9       12       15         GR FIR       221.0       29.0       4       6       7       9       12       15         TOTAL       77.6       10.2 </td <td></td> <td></td> <td></td> <td></td> <td>L</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>1</td> <td>1</td>   |   |        |        |                  | L    |              |        |                  |          | 5          | 1            | 1              |       |
| W LARCH       370.6       48.7       2       4       6         W LARCH-L       303.7       39.9       5       8       11         GR FIR       252.9       33.2       5       8       11         P PINE       272.3       35.8       3       5       6         TOTAL       78.8       10.3       47       52       58       248       127         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       3       4       6       9         GR FIR       191.5       25.1       9       12       15       4       6       9         W LARCH       303.7       39.9       4       6       9       6       7       7         P PINE       272.3       35.8       3       4       6       7       7         P PINE       272.3       35.8       3       4       6       7       7         P PINE       272.3       <   |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| GR FIR       252.9       33.2       5       8       11         P PINE       272.3       35.8       3       5       6         TOTAL       78.8       10.3       47       52       58       248       127         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       7       7       7       7       7         DOUG FIR       191.5       25.1       9       12       15       7       <  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| P PINE         272.3         35.8         3         5         6           TOTAL         78.8         10.3         47         52         58         248         127           CL:         68.1 %         COEFF         BASAL AREA/ACRE         # OF PLOTS REQ.         INF.           SD:         1.0         VAR.%         S.E.%         LOW         AVG         HIGH         5         7           DOUG FIR         181.9         23.9         13         17         22         3           DOUG FIR.         191.5         25.1         9         12         15         4         6         9         6         9         7  |   | CH-L   |        |                  |      |              |        |                  |          |            |              |                |       |
| TOTAL       78.8       10.3       47       52       58       248       127         CL:       68.1 %       COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       15       1000000000000000000000000000000000000  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| CL: $68.1\%$ COEFF       BASAL AREA/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22       7       7       7         DOUG FIR       191.5       25.1       9       12       15       7       7       7         W LARCH       370.6       48.7       1       2       3       7       7       7         GR FIR       221.0       29.0       4       6       7       7       7       7         P PINE       272.3       35.8       3       4       6       7       7       7         CL:       68.1 %       COEFF       NET BF/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412       123       17         DOUG FIR       184.5       24.2       1,471       1,942       2,412       17       184.5       17       1651  |   |        |        |                  |      |              |        |                  |          | 248        | 127          | e              |       |
| SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       181.9       23.9       13       17       22         DOUG FIR       191.5       25.1       9       12       15         W LARCH       370.6       48.7       1       2       3         W LARCH       303.7       39.9       4       6       9         GR FIR       221.0       29.0       4       6       7         P PINE       272.3       35.8       3       4       6         TOTAL       77.6       10.2       43       48       53       241       123         CL:       68.1 %       COEFF       NET BF/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412       141       145         DOUG FIR-L       192.7       25.3       984       1,317       1,651       145       148.7       177       345       512  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| DOUG FIR       181.9       23.9       13       17       22         DOUG FIR-L       191.5       25.1       9       12       15         W LARCH       370.6       48.7       1       2       3         W LARCH       303.7       39.9       4       6       9         GR FIR       221.0       29.0       4       6       7         P PINE       272.3       35.8       3       4       6         TOTAL       77.6       10.2       43       48       53       241       123         CL:       68.1 %       COEFF       NET BF/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412         DOUG FIR-L       192.7       25.3       984       1,317       1,651         W LARCH       370.6       48.7       177       345       512  |   |        |        |                  | т    |              |        |                  | 7        |            |              | INF. POP       |       |
| DOUG FIR-L       191.5       25.1       9       12       15         W LARCH       370.6       48.7       1       2       3         W LARCH-L       303.7       39.9       4       6       9         GR FIR       221.0       29.0       4       6       7         P PINE       272.3       35.8       3       4       6         TOTAL       77.6       10.2       43       48       53       241       123         CL:       68.1 %       COEFF       NET BF/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412       14       14         DOUG FIR-L       192.7       25.3       984       1,317       1,651       14       145       14       14         W LARCH       370.6       48.7       177       345       512       14       14  |   |        |        |                  | L    |              |        |                  |          | 5          | 1            |                |       |
| W LARCH-L       303.7       39.9       4       6       9         GR FIR       221.0       29.0       4       6       7         P PINE       272.3       35.8       3       4       6         TOTAL       77.6       10.2       43       48       53       241       123         CL:       68.1 %       COEFF       NET BF/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412         DOUG FIR-L       192.7       25.3       984       1,317       1,651         W LARCH       370.6       48.7       177       345       512  |   |        |        |                  |      | 9            |        |                  |          |            |              |                |       |
| GR FIR       221.0       29.0       4       6       7         P PINE       272.3       35.8       3       4       6         TOTAL       77.6       10.2       43       48       53       241       123         CL:       68.1 %       COEFF <b>NET BF/ACRE</b> #OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412       14       14         DOUG FIR-L       192.7       25.3       984       1,317       1,651       14       <   |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| P PINE       272.3       35.8       3       4       6         TOTAL       77.6       10.2       43       48       53       241       123         CL:       68.1 %       COEFF       NET BF/ACRE       # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1.471       1.942       2.412         DOUG FIR-L       192.7       25.3       984       1.317       1.651         W LARCH       370.6       48.7       177       345       512   |   | CH-L   |        |                  |      |              |        |                  |          |            |              |                |       |
| TOTAL         77.6         10.2         43         48         53         241         123           CL:         68.1 %         COEFF         NET BF/ACRE         # OF PLOTS REQ.         INF.           SD:         1.0         VAR.%         S.E.%         LOW         AVG         HIGH         5         7           DOUG FIR         184.5         24.2         1,471         1,942         2,412         141         141         141           DOUG FIR-L         192.7         25.3         984         1,317         1,651         143         145         143         145         143         145         143         145         143         145         143         145         143         1  |   |        |        |                  |      | -            |        |                  |          |            |              |                |       |
| CL:       68.1 %       COEFF <b>NET BF/ACRE</b> # OF PLOTS REQ.       INF.         SD:       1.0       VAR.%       S.E.%       LOW       AVG       HIGH       5       7         DOUG FIR       184.5       24.2       1,471       1,942       2,412         DOUG FIR-L       192.7       25.3       984       1,317       1,651         W LARCH       370.6       48.7       177       345       512   |   |        |        |                  |      |              |        |                  |          | 241        | 123          | Ċ              |       |
| SD:         1.0         VAR.%         S.E.%         LOW         AVG         HIGH         5         7           DOUG FIR         184.5         24.2         1,471         1,942         2,412         1<  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| DOUG FIR184.524.21,4711,9422,412DOUG FIR-L192.725.39841,3171,651W LARCH370.648.7177345512  |   |        |        |                  | т    |              |        | HIGH             | 7        |            |              | INF. POP       |       |
| DOUG FIR-L192.725.39841,3171,651W LARCH370.648.7177345512  |   |        |        |                  | L    |              |        |                  |          | 5          | 1            | -              |       |
|  |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| WIADCHI 3037 300 200 640 009   |   |        |        |                  |      |              |        |                  |          |            |              |                |       |
| W LARCH-L         303.7         39.9         390         649         908           GR FIR         225.9         29.7         431         613         794   | W LARC  | CH-L   |        |                  |      | 390          | 649    | 908              |          |            |              |                |       |

| TC TST | TATS    |        |           | S<br>PROJI | TATIS<br>ect | TICS<br>DEERFS | AL    |           | PAGE<br>DATE | 2<br>1/19/2016 |
|--------|---------|--------|-----------|------------|--------------|----------------|-------|-----------|--------------|----------------|
| TWP    | RGE     | SECT 7 | FRACT     | ТҮРЕ       | Α            | CRES           | PLOTS | TREES     | CuFt         | BdFt           |
| 29N    | 38E     | 10 I   | DEER FIRE | 00U3       |              | 246.20         | 58    | 104       | S            | Е              |
| CL:    | 68.1%   | COEF   | F         | NET B      | F/ACRE       |                |       | # OF PI   | LOTS REQ.    | INF. POP.      |
| SD:    | 1.0     | VAR.   | S.E.%     | LOW        | AVG          | HIGH           |       | 5         | 7            | 10             |
| P PIN  | Е       | 272.3  | 35.8      | 214        | 333          | 452            |       |           |              |                |
| TOTA   | AL      | 83.3   | 10.9      | 4,630      | 5,199        | 5,767          |       | 277       | 142          | 69             |
| CL:    | 68.1 %  | COEF   | F         | V-BAH      | R/ACRE       |                |       | # OF PLOT | LS REQ.      | INF. POP.      |
| SD:    | 1.0     | VAR.9  | % S.E.%   | LOW        | AVG          | HIGH           |       | 5         | 7            | 10             |
| DOU    | G FIR   | 35.5   | 4.7       | 85         | 112          | 139            |       |           |              |                |
| DOU    | G FIR-L |        |           | 81         | 108          | 136            |       |           |              |                |
| W LA   | RCH     | 317.0  | 41.6      | 76         | 149          | 221            |       |           |              |                |
| W LA   | RCH-L   |        |           | 61         | 102          | 142            |       |           |              |                |
| GR FI  | IR      | 146.6  | 19.3      | 74         | 106          | 137            |       |           |              |                |
| P PIN  | Е       | 43.2   | 5.7       | 53         | 82           | 112            |       |           |              |                |
| TOTA   | AL      | 441.1  | 57.9      | 96         | 108          | 120            |       | 7,782     | 3,971        | 1,946          |

| IC TSTATS  |   |  |            | ST<br>proje   | ATIST  | TICS<br>deerfsai  |                |   | PAGE<br>DATE  | 1<br>1/19/2016             |
|--|---|--|------------|---|--|---|----------------|---|---|----------------------------|
| TWP RGE  | SECT  | TRACT  |            | ТҮРЕ  |  | RES   | PLOTS          | TREES   | CuFt  | BdFt                       |
| 29N 38E  | 07  | DEER FIRE  |            | 00U4  |  | 119.68  | 26             | 87  | S   | E                          |
|  |   |  |            | TREES   |  | ESTIMATED<br>TOTAL  | I              | PERCENT   |   | 2                          |
|  | PLOTS   | TREES  |            | PER PLOT  |  | TREES   |                | FREES   |   |                            |
| TOTAL  | 26  | 87   |            | 3.3   |  |   |                |   |   |                            |
| CRUISE<br>DBH COUNT<br>REFOREST<br>COUNT   | 13  |  |            | 1.6<br>2.7  |  | 10,079  |                | .2  |   |                            |
| BLANKS<br>100 %  | 1   |  |            |   |  |   |                |   |   |                            |
|  |   |  | STA        | ND SUMN   | ARY  |   |                |   |   |                            |
|  | SAMPLE<br>TREES   | TREES /ACRE  | AVG<br>DBH | BOLE<br>LEN   | REL<br>DEN   | BASAL<br>AREA   | GROSS<br>BF/AC | NET<br>BF/AC  | GROSS<br>CF/AC  | NET<br>CF/AC               |
| DOUG FIR   |   | 9 34.5   | 13.4       | 52  | 9.2  | 33.6  | 3,192          | 3,089   | 853   | 852                        |
| DOUG FIR-L   |   | 1 9.6  | 18.6       | 72  | 4.2  | 18.1  | 2,686          | 2,686   | 584   |                            |
| GR FIR   |   | 6 25.5   | 18.3       | 64  | 10.9   | 46.5  | 9,140          | 7,584   | 1,696   |                            |
| W LARCH  |   | 3 13.4   | 11.1       | 70  | 2.7  | 9.0   | 915            | 915   | 226   |                            |
| E SPRUCE   |   | 2 1.3  | 19.1       | 72  | 0.6  | 2.6   | 404            | 404   | 94  | 9                          |
| TOTAL  | 2   | 1 84.2   | 15.5       | 61  | 27.9   | 109.9   | 16,336         | 14,677  | 3,454   | 3,452                      |
|  |   |  |            |   |  |   |                |   |   |                            |
| CL: 68.1 %   | COI   |  | _          |   | E TREES  |   | 4              | # OF TREE   | -   |                            |
| SD: 1.0  | VAI   | R.% S.E.%  | L          | OW  | AVG  | HIGH  | #              | # OF TREE<br>5  | S REQ.<br>7   |                            |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L  | VAI<br>79   | R.% S.E.%<br>.6 28.1   | L          | OW<br>90  | AVG<br>126   | HIGH<br>161   | 4              |   | -   |                            |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L<br>GR FIR  | VAI<br>79<br>87   | R.%         S.E.%           .6         28.1           .7         39.1  | L          | OW<br>90<br>314   | AVG<br>126<br>515  | HIGH<br>161<br>716  | \$             |   | -   |                            |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L  | VAI<br>79   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1  | L          | OW<br>90  | AVG<br>126   | HIGH<br>161   | 4              |   | -   |                            |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L<br>GR FIR<br>W LARCH   | VAI<br>79<br>87<br>24   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8  | L          | OW<br>90<br>314<br>58   | AVG<br>126<br>515<br>70  | HIGH<br>161<br>716<br>82  | 4              |   | -   |                            |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L<br>GR FIR<br>W LARCH<br>E SPRUCE   | VAI<br>79<br>87<br>24<br>45   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2  | L          | OW<br>90<br>314<br>58<br>186<br><i>188</i>  | AVG<br>126<br>515<br>70<br>325<br>255  | HIGH<br>161<br>716<br>82<br>464   |                | 5   | 7<br>295  | ].                         |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L<br>GR FIR<br>W LARCH<br>E SPRUCE<br>TOTAL  | VAI<br>79<br>87<br>24<br>45<br><i>117</i> .   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2  |            | OW<br>90<br>314<br>58<br>186  | AVG<br>126<br>515<br>70<br>325<br>255  | HIGH<br>161<br>716<br>82<br>464   |                | 5   | 7<br>295  | 14<br>INF. POP             |
| SD:       1.0         DOUG FIR         DOUG FIR-L         GR FIR         W LARCH         E SPRUCE         TOTAL         CL:       68.1 %         SD:       1.0         DOUG FIR  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>VAI<br>90  | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF         R.%           S.E.%         .1   |            | OW<br>90<br>314<br>58<br>186<br>188<br>TREES/<br>OW<br>28   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41  |                | 5<br>578<br># OF PLOT                                       | 7<br>295<br>S REQ.                                    | INF. POP                   |
| SD:       1.0         DOUG FIR         DOUG FIR-L         GR FIR         W LARCH         E SPRUCE         TOTAL         CL:       68.1 %         SD:       1.0         DOUG FIR         DOUG FIR         DOUG FIR         DOUG FIR   | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>VAI<br>90<br>141   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3   |            | OW<br>90<br>314<br>58<br>186<br>188<br><b>TREES/</b><br>OW<br>28<br>7   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12  |                | 5<br>578<br># OF PLOT                                       | 7<br>295<br>S REQ.                                    | 14<br>INF. POP             |
| SD: 1.0<br>DOUG FIR<br>DOUG FIR-L<br>GR FIR<br>W LARCH<br>E SPRUCE<br><b>TOTAL</b><br>CL: 68.1 %<br>SD: 1.0<br>DOUG FIR<br>DOUG FIR-L<br>GR FIR  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COI<br>VAI<br>90<br>141<br>91   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF         R.%           S.E.%         .1           .1         18.0           .2         28.3           .6         18.3   |            | OW<br>90<br>314<br>58<br>186<br><i>I</i> 88<br><b>TREES/</b><br>OW<br>28<br>7<br>21   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30  |                | 5<br>578<br># OF PLOT                                       | 7<br>295<br>S REQ.                                    | 14<br>INF. POP             |
| SD:       1.0         DOUG FIR         DOUG FIR-L         GR FIR         W LARCH         E SPRUCE         TOTAL         CL:       68.1 %         SD:       1.0         DOUG FIR         DOUG FIR         DOUG FIR         W LARCH  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COI<br>VAI<br>90<br>141<br>91<br>199  | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF         R.%           R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9  |            | OW<br>90<br>314<br>58<br>186<br><i>I</i> 88<br><b>TREES/</b><br>OW<br>28<br>7<br>21<br>8  | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19  |                | 5<br>578<br># OF PLOT                                       | 7<br>295<br>S REQ.                                    | 14<br>INF. POP             |
| SD:       1.0         DOUG FIR         DOUG FIR-L         GR FIR         W LARCH         E SPRUCE         TOTAL         CL:       68.1 %         SD:       1.0         DOUG FIR         DOUG FIR         DOUG FIR         DOUG FIR-L         GR FIR  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>VAI<br>90<br>141<br>91<br>199<br>356   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2   |            | OW<br>90<br>314<br>58<br>186<br><i>I</i> 88<br><b>TREES/</b><br>OW<br>28<br>7<br>21   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30  |                | 5<br>578<br># OF PLOT                                       | 7<br>295<br>S REQ.                                    | 14<br>INF. POP             |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTAL   | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>VAI<br>90<br>141<br>91<br>199<br>356<br><i>12.</i>   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6  |            | OW<br>90<br>314<br>58<br>186<br>188<br><b>TREES/</b><br>OW<br>28<br>7<br>21<br>8<br>0<br>82   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86   | 4              | 5<br>578<br># OF PLOT<br>5                                  | 7<br>295<br>S REO.<br>7<br>4                          | 14<br>INF. POP             |
| SD:       1.0         DOUG FIR         DOUG FIR-L         GR FIR         W LARCH         E SPRUCE         TOTAL         CL:       68.1 %         SD:       1.0         DOUG FIR         DOUG FIR         DOUG FIR         QR FIR         W LARCH         E SPRUCE         TOTAL  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>90<br>141<br>91<br>90<br>141<br>91<br>99<br>356<br><i>12.</i><br>COF   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6  | L          | OW<br>90<br>314<br>58<br>186<br><i>I</i> 88<br><b>TREES/</b><br>OW<br>28<br>7<br>21<br>8<br>0<br>82<br><b>BASAL</b>   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE  | 4              | 5<br>578<br># OF PLOT<br>5<br>7<br># OF PLOT                | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.                | Ja<br>INF. POP             |
| $\begin{array}{c c} SD: & 1.0\\ DOUG FIR\\ DOUG FIR-L\\ GR FIR\\ W LARCH\\ E SPRUCE\\ TOTAL\\ \hline \\ CL: & 68.1 \%\\ SD: & 1.0\\ \hline \\ DOUG FIR\\ DOUG FIR\\ DOUG FIR\\ W LARCH\\ E SPRUCE\\ TOTAL\\ \hline \\ \\ CL: & 68.1 \%\\ \\ \\ \\ SD: & 1.0\\ \hline \end{array}$  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>VAI<br>90<br>141<br>91<br>199<br>356<br><i>12.</i><br>COF<br>VAI   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF         28.3   | L          | OW<br>90<br>314<br>58<br>186<br>188<br><b>TREES/</b><br>OW<br>28<br>7<br>21<br>8<br>0<br>82   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86   | 4              | 5<br>578<br># OF PLOT<br>5                                  | 7<br>295<br>S REO.<br>7<br>4                          | Ja<br>INF. POP             |
| SD:       1.0         DOUG FIR         DOUG FIR-L         GR FIR         W LARCH         E SPRUCE         TOTAL         CL:       68.1 %         SD:       1.0         DOUG FIR         DOUG FIR         DOUG FIR         QR FIR         W LARCH         E SPRUCE         TOTAL  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COF<br>90<br>141<br>91<br>90<br>141<br>91<br>99<br>356<br><i>12.</i><br>COF   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         2.6  | L          | OW<br>90<br>314<br>58<br>186<br><i>I</i> 88<br><b>TREES/</b><br>OW<br>28<br>7<br>21<br>8<br>0<br>82<br><b>BASAL</b><br>OW   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH  | 4              | 5<br>578<br># OF PLOT<br>5<br>7<br># OF PLOT                | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.                | <i>I</i> //<br>INF. POF    |
| $\begin{array}{c c} SD: & 1.0\\ DOUG FIR\\ DOUG FIR-L\\ GR FIR\\ W LARCH\\ E SPRUCE\\ TOTAL\\ \hline CL: & 68.1 \%\\ SD: & 1.0\\ \hline DOUG FIR\\ DOUG FIR-L\\ GR FIR\\ W LARCH\\ E SPRUCE\\ TOTAL\\ \hline CL: & 68.1 \%\\ SD: & 1.0\\ \hline DOUG FIR\\ \hline ODUG FIR\\ \hline \end{array}$   | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COH<br>90<br>141<br>91<br>99<br>356<br><i>12.</i><br>COH<br>VAI<br>93<br>141<br>86  | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         2.6           EFF            .9         17.4   | L          | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55  | 4              | 5<br>578<br># OF PLOT<br>5<br>7<br># OF PLOT                | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.                | <i>I</i> //<br>INF. POF    |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTSD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTCL:68.1 %SD:1.0DOUG FIR-LCL:68.1 %DOUG FIRDOUG FIRDOUG FIRMUARCHSD:1.0DOUG FIRMUARCHMUARCHSD:MUARCHMUARCH  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COI<br>90<br>141<br>91<br>99<br>356<br><i>12.</i><br>COI<br>VAI<br>93<br>141<br>86<br>198   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7   | L          | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         5   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13  | 4              | 5<br>578<br># OF PLOT<br>5<br>7<br># OF PLOT                | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.                | Ja<br>INF. POP             |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ DOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ DOUG FIR-LGR FIRU LARCHE SPRUCETOTALCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRU LARCHE SPRUCEM LARCHE SPRUCEW LARCHE SPRUCE  | VAI<br>79<br>87<br>24<br>45<br><i>117.</i><br>COH<br>90<br>141<br>91<br>99<br>356<br><i>12.</i><br>COH<br>VAI<br>93<br>141<br>86  | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7   | L          | OW         90           314         58           186         188           TREES/OW           28         7           21         8           0         82           BASAL           OW         27           13         38           5         1  | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4   | 4              | 5<br>578<br># OF PLOT<br>5<br>7<br># OF PLOT                | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.                | <i>I</i> //<br>INF. POF    |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1$ %SD:1.0DOUG FIRDOUG FIRCK: $68.1$ %SD:1.0CL: $68.1$ %SD:1.0DOUG FIR-LGR FIRCL: $68.1$ %SD:1.0DOUG FIR-LGR FIRDOUG FIRDOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCEMUCETOTAL   | VAI<br>79<br>87<br>24<br>45<br>117.<br>COI<br>VAI<br>90<br>141<br>91<br>199<br>356<br>12.<br>COI<br>VAI<br>93<br>141<br>86<br>198<br>353  | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         2.6           EFF            .3         39.9           .0         71.2           .8         2.6           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7   | L          | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         5   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13  | 4              | 5<br>578<br># OF PLOT<br>5<br>7<br># OF PLOT                | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.                | <i>I</i> //<br>INF. POF    |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ DOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRUCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRCL: $68.1 \ \%$ CL: $68.1 \ \%$   | VAI<br>79<br>87<br>24<br>45<br>117.<br>COI<br>VAI<br>90<br>141<br>91<br>199<br>356<br>12.<br>COI<br>VAI<br>93<br>141<br>86<br>198<br>353  | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         2.6           EFF            .8         2.6           EFF            .8         2.6           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7  | L          | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         1           110         NET BF  | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4<br>110                                    | 4              | 5<br>578<br>FOF PLOT<br>5<br>FOF PLOT<br>5<br>FOF PLOT<br>5 | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.<br>7           | J.<br>INF. POF<br>INF. POF |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTCL: $68.1 \ \%$ ODUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0CL: $68.1 \ \%$ GR FIRW LARCHE SPRUCETOTCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRW LARCHE SPRUCETOTCL: $68.1 \ \%$ W LARCHE SPRUCETOTCL: $68.1 \ \%$ CL: $68.1 \ \%$ SD:1.0   | VAI<br>79<br>87<br>24<br>45<br>117.<br>COI<br>VAI<br>90<br>141<br>91<br>90<br>141<br>91<br>93<br>356<br>12.<br>COI<br>VAI<br>86<br>198<br>353<br>COI<br>VAI                                   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         2.6           EFF            .8         2.6           EFF            .8         2.6           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7           EFF            R.%         S.E.%  | L          | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         1           110         NET BF           OW         0                                   | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG  | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4<br><i>J10</i><br>HIGH                     | 4              | 5<br>578<br>\$ OF PLOT<br>5<br>7<br>\$ OF PLOT<br>5         | 7<br>295<br>S REQ.<br>7<br>4<br>S REQ.<br>7           | J.<br>INF. POF<br>INF. POF |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0CL: $68.1 \ \%$ GR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ DOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0CL: $68.1 \ \%$ SD:1.0CL: $68.1 \ \%$ SD:1.0CL: $68.1 \ \%$ SD:1.0IOUUG FIRCL: $68.1 \ \%$ SD:1.0SD:1.0SD:1.0SD:1.0SD:1.0  | VAI<br>79<br>87<br>24<br>45<br>117.<br>COI<br>VAI<br>90<br>141<br>90<br>141<br>91<br>93<br>356<br>12.<br>COI<br>VAI<br>93<br>141<br>86<br>198<br>353<br>COI<br>VAI                            | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           8         2.6           EFF            R.%         S.E.%           .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7           EFF            .8         18.8           .2         39.7           .3         70.7  |            | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         1           110         NET BF           OW         2,408                               | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>100<br>/ACRE<br>AVG<br>34<br>100<br>25<br>13<br>100<br>/ACRE<br>AVG<br>34<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>25<br>13<br>100<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4<br><i>J10</i><br>HIGH<br>3,769            | 4              | 5<br>578<br>FOF PLOT<br>5<br>FOF PLOT<br>5<br>FOF PLOT<br>5 | 7<br>295<br>S REO.<br>7<br>4<br>S REO.<br>7<br>S REO. | J.<br>INF. POF<br>INF. POF |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ DOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIR     | VAI<br>79<br>87<br>24<br>45<br>117.<br>COH<br>VAI<br>90<br>141<br>90<br>141<br>90<br>141<br>90<br>141<br>86<br>198<br>353<br>COH<br>VAI<br>86<br>198<br>353                                   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           8         2.6           EFF            R.%         S.E.%           .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7           EFF            R.%         S.E.%           .2         22.0           .2         28.3  |            | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         1           110         NET BF           OW         2,408           1,926         1     | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>100<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4<br>110<br>HIGH<br>3,769<br>3,445          | 4              | 5<br>578<br>FOF PLOT<br>5<br>FOF PLOT<br>5<br>FOF PLOT<br>5 | 7<br>295<br>S REO.<br>7<br>4<br>S REO.<br>7<br>S REO. | J.<br>INF. POF<br>INF. POF |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ BDUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ BD:1.0DOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ DOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIRGR FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIR | VAI<br>79<br>87<br>24<br>45<br>117.<br>COI<br>VAI<br>90<br>141<br>90<br>141<br>91<br>90<br>356<br>12.<br>COI<br>VAI<br>93<br>141<br>86<br>198<br>353<br>253<br>COI<br>VAI<br>86<br>198<br>353 | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         2.8           .9         17.4           .2         39.7           .3         70.7           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7           EFF            .2         22.0           .2         28.3           .8         17.6  |            | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         1           110         NET BF           OW         2,408           1,926         6,251 | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>100<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4<br>110<br>HIGH<br>3,769<br>3,445<br>8,917 | 4              | 5<br>578<br>FOF PLOT<br>5<br>FOF PLOT<br>5<br>FOF PLOT<br>5 | 7<br>295<br>S REO.<br>7<br>4<br>S REO.<br>7<br>S REO. | INF. POP                   |
| SD:1.0DOUG FIRDOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ GR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ SD:1.0DOUG FIR-LGR FIRW LARCHE SPRUCETOTALCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0CL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIRDOUG FIRDOUG FIRDOUG FIRCL: $68.1 \ \%$ SD:1.0DOUG FIRDOUG FIR                   | VAI<br>79<br>87<br>24<br>45<br>117.<br>COH<br>VAI<br>90<br>141<br>90<br>141<br>90<br>141<br>90<br>141<br>86<br>198<br>353<br>COH<br>VAI<br>86<br>198<br>353                                   | R.%         S.E.%           .6         28.1           .7         39.1           .7         17.1           .7         42.8           .3         26.2           EFF            R.%         S.E.%           .1         18.0           .2         28.3           .6         18.3           .3         39.9           .0         71.2           .8         2.6           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7           EFF            .8         18.8           .2         28.3           .9         17.4           .2         39.7           .3         70.7           EFF            .2         22.0           .2         28.3           .8         17.6           .0         39.8 |            | OW         90           314         58           186         188           TREES/           OW         28           7         21           8         0           82         BASAL           OW         27           13         38           5         1           110         NET BF           OW         2,408           1,926         1     | AVG<br>126<br>515<br>70<br>325<br>255<br>ACRE<br>AVG<br>34<br>10<br>25<br>13<br>1<br>84<br>AREA/A<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>110<br>/ACRE<br>AVG<br>34<br>18<br>47<br>9<br>3<br>100<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25   | HIGH<br>161<br>716<br>82<br>464<br>322<br>HIGH<br>41<br>12<br>30<br>19<br>2<br>86<br>CRE<br>HIGH<br>40<br>23<br>55<br>13<br>4<br>110<br>HIGH<br>3,769<br>3,445          | 4              | 5<br>578<br>FOF PLOT<br>5<br>FOF PLOT<br>5<br>FOF PLOT<br>5 | 7<br>295<br>S REO.<br>7<br>4<br>S REO.<br>7<br>S REO. | 14<br>INF. POP             |

| TC TST | TATS              |      |      |        | PRO | STATI:<br>DJECT | STICS<br>DEERFS | SAL   |           | PAGE<br>DATE | 2<br>1/19/2016 |
|--------|-------------------|------|------|--------|-----|-----------------|-----------------|-------|-----------|--------------|----------------|
| TWP    | RGE               | SECT | TRAC | T      | TYF | E A             | ACRES           | PLOTS | TREES     | CuFt         | BdFt           |
| 29N    | 38E               | 07   | DEEF | R FIRE | 00U | 4               | 119.68          | 26    | 87        | S            | Е              |
| CL:    | 68.1%             | CO   | EFF  |        | V-B | AR/ACRE         |                 |       | # OF PL   | OTS REQ.     | INF. POP.      |
| SD:    | 1.0               | VA   | R.   | S.E.%  | LOW | AVG             | HIGH            |       | 5         | 7            | 10             |
| CL:    | 68.1 <sup>%</sup> | CO   | EFF  |        | V-B | AR/ACRE         | 1               |       | # OF PLOT | S REQ.       | INF. POP.      |
| SD:    | 1.0               | VA   | R.%  | S.E.%  | LOW | AVG             | HIGH            |       | 5         | 7            | 10             |
| DOU    | G FIR             |      |      |        | 72  | 92              | 112             |       |           |              |                |
| DOU    | G FIR-L           |      |      |        | 106 | 148             | 190             |       |           |              |                |
| GR F   | IR                |      |      |        | 134 | 163             | 192             |       |           |              |                |
| W LA   | ARCH              | 80   | .6   | 16.1   | 61  | 101             | 141             |       |           |              |                |
| E SPF  | RUCE              | 361  | .8   | 72.4   | 43  | 156             | 269             |       |           |              |                |
| TOT    | AL                | 448. | .6   | 89.8   | 128 | 134             | 139             |       | 8,383     | 4,277        | 2,096          |

|  | ATS   |   |   |               | ST<br>proje  | ATIST  | 'ICS<br>deerfsai  | L     |  | PAGE<br>DATE 1   | 1<br>/19/2016  |
|--|---|---|---|---------------|--|--|---|-------|--|--|--|
| TWP  | RGE   | SECT T  | RACT  |               | TYPE   |  | RES   | PLOTS | TREES  | CuFt   | BdFt   |
| 29N  | 38E   | 16 D  | EER FIRE  |               | 00U5   |  | 174.42  | 39    | 86   | S  | Е  |
|  |   |   |   |               | TREES  |  | ESTIMATED<br>FOTAL  |       | ERCENT<br>AMPLE  |  |  |
|  |   | PLOTS   | TREES   | ]             | PER PLOT   |  | TREES   | Т     | REES   |  |  |
| TOTA   | \L  | 39  | 86  |               | 2.2  |  |   |       |  |  |  |
| CRUI   | SE  | 15  | 18  |               | 1.2  |  | 8,274   |       | .2   |  |  |
| DBH  | COUNT   |   |   |               |  |  |   |       |  |  |  |
| REFO   | REST  |   |   |               |  |  |   |       |  |  |  |
| COUN   | T   | 11  | 32  |               | 2.9  |  |   |       |  |  |  |
| BLAN   |   | 13  |   |               |  |  |   |       |  |  |  |
| 100 %  | )   |   |   |               |  |  |   |       |  |  |  |
|  |   |   |   | STA           | ND SUMN  | <b>MARY</b>  |   |       |  |  |  |
|  |   | SAMPLE  | TREES   | AVG           | BOLE   | REL  | BASAL   | GROSS | NET  | GROSS  | NET  |
|  |   | TREES   | /ACRE   | DBH           | LEN  | DEN  | AREA  | BF/AC | BF/AC  | CF/AC  | CF/AC  |
| DOU  | G FIR   | 11  | 27.0  | 11.3          | 52   | 5.6  | 19.0  | 1,799 | 1,785  | 447  | 447  |
| GR FI  | IR  | 7   | 20.4  | 12.4          | 67   | 4.9  | 17.2  | 2,551 | 2,226  | 527  | 527  |
| TOTA   | AL.   | 18  | 47.4  | 11.8          | 58   | 10.5   | 36.2  | 4,350 | 4,012  | 974  | 974  |
| CL:  | 68.1 %  | COEFF   | 7   |               |  |  |   |       |  |  |  |
| 0.0  | 1.0   |   |   | •             |  | E TREES  |   | #     | OF TREES   | •  | INF. POP.  |
| SD:  | 1.0<br>G FIR  | VAR.%   | 5 S.E.%   | LO            | W  | AVG  | HIGH  | #     | OF TREES<br>5  | REQ.<br>7  |  |
| SD:<br>DOUC<br>GR FI   | G FIR   | VAR.%<br>155.1  | 5 S.E.%<br>49.0   | LO            |  | AVG<br>174   |   | #     |  | •  |  |
| DOU  | G FIR<br>IR   | VAR.%   | 5 S.E.%   | LO            | OW<br>88   | AVG  | HIGH<br>259   | #     |  | •  | 10   |
| DOUG<br>GR FI<br>TOTA  | G FIR<br>IR   | VAR.%<br>155.1<br>100.9   | 5 S.E.%<br>49.0<br>41.1<br><i>31.5</i>  | L             | OW<br>88<br>119  | AVG<br>174<br>201<br><i>184</i>  | HIGH<br>259<br>284  |       | 5  | 7<br>365   | 10   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:  | G FIR<br>IR<br>AL<br>68.1 %<br>1.0  | VAR.%<br>155.1<br>100.9<br>129.9  | 5 S.E.%<br>49.0<br>41.1<br>31.5   |               | DW<br>88<br>119<br>126   | AVG<br>174<br>201<br><i>184</i>  | HIGH<br>259<br>284  |       | 5<br>715   | 7<br>365   | 1(<br>179<br>INF. POP.   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC  | G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7   | 5 S.E.%<br>49.0<br>41.1<br>31.5<br>5 S.E.%<br>26.5  |               | DW<br>88<br>119<br>126<br>TREES/<br>DW<br>20   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27  | HIGH<br>259<br>284<br>243<br>HIGH<br>34   |       | 5<br>715<br>OF PLOTS   | 7<br>365<br>REQ.   | 10   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI   | G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0  | 5 S.E.%<br>49.0<br>41.1<br>31.5<br>5 S.E.%<br>26.5<br>32.8  |               | 20W<br>88<br>119<br>126<br>TREES/<br>20W<br>20<br>14   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20  | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27   |       | 5<br>715<br>OF PLOTS<br>5  | 7<br>365<br>REQ.<br>7  | 10<br>179<br>INF. POP.<br>10   |
| DOUG<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUG  | G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7   | 5 S.E.%<br>49.0<br>41.1<br>31.5<br>5 S.E.%<br>26.5  |               | DW<br>88<br>119<br>126<br>TREES/<br>DW<br>20   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27  | HIGH<br>259<br>284<br>243<br>HIGH<br>34   |       | 5<br>715<br>OF PLOTS   | 7<br>365<br>REQ.   | 10<br>179<br>INF. POP.<br>10   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOTA   | G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR<br>AL<br>68.1 %   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0  | 5 S.E.%<br>49.0<br>41.1<br>31.5<br>5 S.E.%<br>26.5<br>32.8<br>18.4  |               | DW         88           119         126           TREES/           DW         20           14         39           BASAL   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A  | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56   | #     | 5<br>715<br>OF PLOTS<br>5  | 7<br>365<br>REQ.<br>7<br>268   | 10<br>179<br>INF. POP.<br>10   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:   | G FIR<br>IR<br><b>AL</b><br>68.1 %<br>1.0<br>G FIR<br>IR<br><b>AL</b><br>68.1 %<br>1.0  | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%   | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5   | L             | DW           88           119           126           TREES/           DW           20           14           39           BASAL           DW  | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG   | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH  | #     | 5<br>715<br>OF PLOTS<br>5<br>526   | 7<br>365<br>REQ.<br>7<br>268   | 10<br>179<br>INF. POP.<br>10<br>132<br>INF. POP.   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC   | G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4  | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5           5.E.%           25.0  | L             | DW           88           119           126           TREES/           DW           20           14           39           BASAL           DW           14   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19   | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24  | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS   | 7<br>365<br>REQ.<br>7<br>268   | 10<br>179<br>INF. POP.<br>10<br>132<br>INF. POP.   |
| DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOTA<br>CL:<br>SD:<br>DOUC<br>GR FI  | G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4   | S.E.%           49.0           41.1           31.5           3           5           26.5           32.8           18.4           3           5           S.E.%           26.5           32.8           18.4           3           31.9   | L             | DW         88           119         126           TREES/           DW         20           14         39           BASAL           DW         14           12         14   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17   | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23  | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5  | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7                                    | 10<br>179<br>INF. POP.<br>10<br>132<br>INF. POP.<br>10   |
| DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/  | G FIR<br>R<br>AL<br>68.1 %<br>1.0<br>G FIR<br>R<br>68.1 %<br>1.0<br>G FIR<br>IR<br>AL<br>AL   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3  | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5           25.0           31.9           17.2  | L             | DW         88           119         126           TREES/           DW         20           14         39           BASAL           DW         14           12         30   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36   | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24  | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461                                     | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235                             | 10<br>179<br>INF. POP.<br>10<br>132<br>INF. POP.<br>10   |
| DOUG<br>GR FI<br>TOT/<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:   | G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF   | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5           25.0           31.9           17.2  | L             | DW           88           119           126           TREES/           DW           20           14           39           BASAL           DW           14           33           NET BF   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36<br>/ACRE  | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42  | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS                         | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.                     | 10<br>179<br>INF. POP.<br>132<br>INF. POP.<br>115<br>INF. POP.                                 |
| DOUG<br>GR FI<br>TOT/<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:   | G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>G FIR<br>IR<br>AL<br>68.1 %<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%  | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5.E.%           25.0           31.9           17.2           5           S.E.%  |               | DW         88           119         126           TREES/           DW         20           14         39           BASAL           DW         14           12         30           NET BF           DW         DW  | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG   | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH                                    | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461                                     | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235                             | 10<br>179<br>INF. POP.<br>132<br>INF. POP.<br>115<br>INF. POP.                                 |
| DOUG<br>GR FI<br>TOT<br>SD:<br>DOUG<br>GR FI<br>TOT<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT<br>CL:<br>SD:<br>DOUG  | G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%<br>159.7                                     | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5           25.0           31.9           17.2           5           S.E.%           25.0           31.9           17.2           5           5.E.%           25.6  |               | DW           88           119           126           TREES/           DW           20           14           39           BASAL           DW           14           12           30           NET BF           DW           1,329   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG<br>1,785                                  | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH<br>2,242                           | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS                         | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.                     | 10<br>179<br>INF. POP.<br>132<br>INF. POP.<br>115<br>INF. POP.                                 |
| DOUG<br>GR FI<br>TOT/<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:   | G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%  | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5.E.%           25.0           31.9           17.2           5           S.E.%  |               | DW         88           119         126           TREES/           DW         20           14           39           BASAL           DW         14           12           NET BF           DW         1,329           1,509  | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG   | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH                                    | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS                         | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.                     | 10<br>179<br>INF. POP.<br>132<br>INF. POP.<br>115<br>INF. POP.<br>10                           |
| DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/                     | G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR<br>IR   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%<br>159.7<br>201.1                            | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5           25.0           31.9           17.2           5           S.E.%           25.6           32.2           18.6   |               | DW         88           119         126           TREES/           DW         20           14         39           BASAL           DW         14           12         30           NET BF           DW         1,329           1,509         8,267                                   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG<br>1,785<br>2,226<br>4,012                          | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH<br>2,242<br>2,943                  | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS<br>5<br>5<br>38         | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.<br>7<br>274         | 10<br>179<br>INF. POP.<br>10<br>132<br>INF. POP.<br>10<br>112<br>INF. POP.<br>10<br>132<br>132 |
| DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/<br>CL:<br>SD:<br>DOUG<br>GR FI<br>TOT/                     | G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%<br>159.7<br>201.1<br>115.9                   | S.E.%         49.0           41.1         31.5           3         26.5           32.8         18.4           3         5           5         S.E.%           26.5         32.8           18.4         3           5         S.E.%           25.0         31.9           17.2         3           5         S.E.%           25.6         32.2           18.6         3  | L(<br>L(<br>3 | DW         88           119         126           TREES/           DW         20           14         39           BASAL           DW         14           12         30           NET BF           DW         1,329           1,509         1,509                                   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG<br>1,785<br>2,226<br>4,012                          | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH<br>2,242<br>2,943                  | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS<br>5                    | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.<br>7<br>274         | 10<br>179<br>INF. POP.<br>132<br>INF. POP.<br>10<br>115<br>INF. POP.<br>134<br>INF. POP.       |
| DOUC<br>GR FI<br>TOT<br>SD:<br>DOUC<br>GR FI<br>TOT<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOT<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOT<br>CL:                         | G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0   | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%<br>159.7<br>201.1<br>115.9<br>COEFF          | S.E.%         49.0           41.1         31.5           3         26.5           32.8         18.4           3         5           5         S.E.%           26.5         32.8           18.4         3           5         S.E.%           25.0         31.9           17.2         3           5         S.E.%           25.6         32.2           18.6         3  | L(<br>L(<br>3 | DW           88           119           126           TREES/           DW           20           14           39           BASAL           DW           14           12           30           NET BF           DW           1,329           1,509           2,267           V-BAR// | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG<br>1,785<br>2,226<br>4,012<br>ACRE        | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH<br>2,242<br>2,943<br>4,756         | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS<br>5<br>538<br>OF PLOTS | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.<br>7<br>274<br>REQ. | 10<br>179<br>INF. POP.<br>132<br>INF. POP.<br>10<br>115<br>INF. POP.<br>134<br>INF. POP.       |
| DOUC<br>GR FI<br>TOT<br>SD:<br>DOUC<br>GR FI<br>TOT<br>SD:<br>DOUC<br>GR FI<br>TOT<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOT<br>CL:<br>SD:<br>DOUC<br>GR FI<br>TOT | G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>4L<br>68.1 %<br>1.0<br>G FIR<br>IR<br>68.1 %<br>1.0<br>G FIR | VAR.%<br>155.1<br>100.9<br>129.9<br>COEFF<br>VAR.%<br>165.7<br>205.0<br>114.7<br>COEFF<br>VAR.%<br>156.4<br>199.4<br>107.3<br>COEFF<br>VAR.%<br>159.7<br>201.1<br>115.9<br>COEFF<br>VAR.% | S.E.%           49.0           41.1           31.5           5           5           26.5           32.8           18.4           5           5           5           31.9           17.2           5           5           5           32.8           18.4           7           5           5           5           5           5           5           5           5           5           5           5           5           5           5 | L(<br>L(<br>3 | DW         88           119         126           TREES/         DW           20         14           39         BASAL           DW         14           12         30           NET BF         DW           1,329         1,509           2,267         V-BAR//DW                   | AVG<br>174<br>201<br>184<br>ACRE<br>AVG<br>27<br>20<br>47<br>AREA/A<br>AVG<br>19<br>17<br>36<br>/ACRE<br>AVG<br>1,785<br>2,226<br>4,012<br>ACRE<br>AVG | HIGH<br>259<br>284<br>243<br>HIGH<br>34<br>27<br>56<br>CRE<br>HIGH<br>24<br>23<br>42<br>HIGH<br>2,242<br>2,943<br>4,756<br>HIGH | #     | 5<br>715<br>OF PLOTS<br>5<br>526<br>OF PLOTS<br>5<br>461<br>OF PLOTS<br>5<br>538<br>OF PLOTS | 7<br>365<br>REQ.<br>7<br>268<br>REQ.<br>7<br>235<br>REQ.<br>7<br>274<br>REQ. | 10<br>179<br>INF. POP.<br>10<br>132<br>INF. POP.<br>10<br>115<br>INF. POP.<br>10<br>134        |

| TC TS              | TNDSU              | М                   |                      |          |                |              | Stand                   | l Table      | Summa               | nry         |                 |               |                                   |                                       |          |
|--------------------|--------------------|---------------------|----------------------|----------|----------------|--------------|-------------------------|--------------|---------------------|-------------|-----------------|---------------|-----------------------------------|---------------------------------------|----------|
|                    |                    |                     |                      |          |                |              | Proj                    | ect          | DEERF               | SAL         |                 |               |                                   |                                       |          |
| T29N<br>Twp<br>29N | R38E<br>Rge<br>38E | S08 T(<br>Sec<br>08 | )0U1<br>Tract<br>DEE |          | RE             |              | <sup>°</sup> ype<br>0U1 |              | <b>cres</b><br>1.79 | Plots<br>58 | Sample 7<br>186 |               | T29N R<br>Page:<br>Date:<br>Time: | 38E S08 7<br>1<br>1/19/207<br>1:04:07 | 1(       |
| s                  | 5                  | Sample              | e FF                 | Av<br>Ht | Trees/         | BA/          | Logs                    | Avera<br>Net | age Log<br>Net      | Tons/       | Net<br>Cu.Ft.   | Net<br>Bd.Ft. | Т                                 | otals                                 |          |
| Spc 7              |                    | Trees               | 16'                  | Tot      | Acre           | Acre         | Acre                    | Cu.Ft.       | Bd.Ft.              | Acre        | Acre            | Acre          | Tons                              | Cunits                                | MBF      |
| GF<br>GF           | 8<br>9             | 3<br>5              | 85<br>85             | 17<br>17 | 4.965<br>6.535 | 1.74<br>2.90 |                         |              |                     |             |                 |               |                                   |                                       |          |
| GF                 | 10                 | 6                   | 86                   | 29       | 6.514          | 3.48         | 2.08                    | 10.1         | 60.0                | .60         | 21              | 125           | 187                               | 65                                    | 39       |
| GF                 | 11                 | 7                   | 86                   | 23       | 6.139          | 4.06         | 1.72                    | 8.6          | 40.0                | .43         | 3 15            | 69            | 133                               | 46                                    | 22       |
| GF                 | 12                 | 5                   | 85                   | 17       | 3.766          | 2.90         | 1.00                    | 10.1         |                     |             |                 | 0.5           |                                   |                                       |          |
| GF<br>GF           | 13<br>14           | 4<br>9              | 87<br>86             | 29<br>35 | 2.566<br>4.916 | 2.32<br>5.22 | 1.32<br>2.27            | 12.1<br>17.9 | 65.0<br>89.4        | .40<br>1.10 |                 | 86<br>203     | 143<br>363                        | 50<br>127                             | 27<br>63 |
| GF                 | 14                 | 3                   | 86                   | 55<br>17 | 4.916<br>1.450 | 3.22<br>1.74 | 2.27                    | 17.9         | 69.4                | 1.10        | 5 41            | 205           | 505                               | 127                                   | 03       |
| GF                 | 16                 | 4                   | 86                   | 34       | 1.646          | 2.32         | .86                     | 22.8         | 110.0               | .50         | 5 20            | 95            | 176                               | 61                                    | 30       |
| GF                 | 17                 | 2                   | 85                   | 53       | .749           | 1.16         | .72                     | 28.8         | 140.0               | .59         | 21              | 101           | 185                               | 65                                    | 31       |
| GF                 | 18                 | 3                   | 86                   | 17       | .980           | 1.74         |                         |              |                     |             |                 |               |                                   |                                       |          |
| GF                 | 19                 | 2                   | 87                   | 94       | .614           | 1.16         | 1.53                    | 28.7         | 142.2               | 1.20        |                 | 218           | 393                               | 137                                   | 68       |
| GF<br>GF           | 20<br>22           | 2<br>1              | 87<br>85             | 59<br>17 | .534<br>.212   | 1.16<br>.58  | .78                     | 29.8         | 140.0               | .67         | 7 23            | 109           | 208                               | 73                                    | 34       |
| GF                 | 22                 | 2                   | 85                   | 17       | .405           | 1.16         |                         |              |                     |             |                 |               |                                   |                                       |          |
| GF                 | 24                 | 1                   | 85                   | 17       | .184           | .58          |                         |              |                     |             |                 |               |                                   |                                       |          |
| GF                 | 25                 | 2                   | 85                   | 17       | .340           | 1.16         |                         |              |                     |             |                 |               |                                   |                                       |          |
| GF                 | 29                 | 2                   | 85                   | 17       | .258           | 1.16         |                         |              |                     |             |                 |               |                                   |                                       |          |
| GF                 | 32                 | 1                   | 74                   | 87       | .105           | .58          | .21                     | 90.2         | 285.0               | .54         | 4 19            | 60            | 169                               | 59                                    | 19       |
| GF                 | Totals             | 64                  | 86                   | 26       | 42.881         | 37.09        | 11.49                   | 19.1         | 92.6                | 6.28        | 3 219           | 1,065         | 1,957                             | 683                                   | 332      |
| DF                 | 9                  | 3                   | 82                   | 17       | 3.965          | 1.74         |                         |              |                     |             |                 |               |                                   |                                       |          |
| DF                 | 10                 | 2                   | 82                   | 17       | 2.045          | 1.16         |                         |              |                     |             |                 |               |                                   |                                       |          |
| DF                 | 11                 | 3                   | 83                   | 17       | 2.634          | 1.74         |                         |              |                     |             |                 |               |                                   |                                       |          |
| DF                 | 12                 | 2                   | 80                   | 42       | 1.382          | 1.16         | 1.38                    | 9.5          | 35.0                | .42         | 2 13            | 48            | 132                               | 41                                    | 15       |
| DF<br>DF           | 13<br>14           | 3<br>6              | 83<br>81             | 17<br>25 | 1.957<br>3.171 | 1.74<br>3.48 | 1.02                    | 14.6         | 50.0                | .42         | 2 15            | 51            | 133                               | 46                                    | 16       |
| DF                 | 15                 | 3                   | 83                   | 17       | 1.417          | 1.74         | 1.02                    | 14.0         | 50.0                | 12          | 2 15            | 51            | 155                               | 40                                    | 10       |
| DF                 | 16                 | 4                   | 83                   | 17       | 1.698          | 2.32         |                         |              |                     |             |                 |               |                                   |                                       |          |
| DF                 | 17                 | 7                   | 82                   | 40       | 2.570          | 4.06         | 1.82                    | 23.3         | 110.0               | 1.20        |                 | 200           | 376                               | 132                                   | 62       |
| DF                 | 18                 | 4                   | 84                   | 38       | 1.327          | 2.32         | .99                     | 22.1         | 123.3               | .63         |                 | 123           | 195                               | 68                                    | 38       |
| DF                 | 19                 | 4                   | 80                   | 35       | 1.175          | 2.32         | .61                     | 29.6         | 115.0               | .51         |                 | 70            | 160                               | 56                                    | 22       |
| DF<br>DF           | 20<br>21           | 6<br>4              | 81<br>83             | 41<br>36 | 1.597<br>.955  | 3.48<br>2.32 | 1.06<br>.72             | 35.3<br>27.9 | 136.5<br>133.3      | 1.07        |                 | 145<br>96     | 334<br>179                        | 117<br>63                             | 45<br>30 |
| DF                 | 21                 | 1                   | 83                   | 17       | .216           | .58          | .72                     | 21.9         | 155.5               | .5          | 20              | 20            | 175                               | 05                                    | 50       |
| DF                 | 23                 | 3                   | 83                   | 68       | .589           | 1.74         | .98                     | 40.8         | 202.0               | 1.14        | 4 40            | 198           | 355                               | 124                                   | 62       |
| DF                 | 24                 | 1                   | 82                   | 17       | .183           | .58          |                         |              |                     |             |                 |               |                                   |                                       |          |
| DF                 | 25                 | 1                   | 82                   | 17       | .177           | .58          |                         |              | 10                  |             |                 |               |                                   |                                       | . –      |
| DF                 | 27                 | 1                   | 72                   | 87       | .151           | .58          | .30                     | 59.9         | 185.0               | .52         | 2 18            | 56            | 161                               | 56                                    | 17       |
| DF                 | Totals             | 58                  | 82                   | 27       | 27.205         | 33.61        | 8.89                    | 25.4         | 111.0               | 6.49        | 9 226           | 987           | 2,023                             | 705                                   | 308      |
| RC                 | 7                  | 1                   | 72                   | 17       | 2.168          | .58          |                         |              |                     |             |                 |               |                                   |                                       |          |
| RC                 | 8                  | 2                   | 75                   | 22       | 3.508          | 1.16         | 1.62                    | 4.4          | 20.0                | .17         | 7 7             | 32            | 52                                | 22                                    | 10       |
| RC                 | 10                 | 1                   | 73                   | 17       | .982           | .58          | <u></u>                 | 10 -         | <b>5</b> 0 0        |             |                 |               | ~~                                | <u> </u>                              |          |
| RC<br>RC           | 11<br>14           | 2<br>2              | 77<br>89             | 31<br>80 | 1.824<br>1.132 | 1.16<br>1.16 | .88<br>2.26             | 12.7<br>17.7 | 50.0<br>85.0        | .20         |                 | 44<br>192     | 82<br>293                         | 35<br>125                             | 14<br>60 |
| RC                 | 14                 | 2                   | 89<br>72             | 80<br>17 | .852           | 1.16         | 2.20                    | 1/./         | 65.0                | .94         | т 40            | 192           | 293                               | 123                                   | 00       |
| RC                 | 20                 | 1                   | 82                   | 103      | .258           | .58          | .77                     | 30.6         | 116.7               | .50         | 5 24            | 90            | 174                               | 74                                    | 28       |
| RC                 | 21                 | 2                   | 72                   | 17       | .484           | 1.16         |                         |              |                     |             |                 |               |                                   |                                       |          |
| RC                 | 23                 | 1                   | 72                   | 17       | .199           | .58          |                         |              |                     |             |                 |               |                                   |                                       |          |
| RC                 | 26                 | 1                   | 72                   | 91       | .154           | .58          | .31                     | 65.1         | 220.0               | .47         | 7 20            | 68            | 147                               | 62                                    | 21       |
| RC                 | Totals             | 15                  | 76                   | 30       | 11.561         | 8.69         | 5.84                    | 17.5         | 73.0                | 2.40        | 0 102           | 427           | 747                               | 318                                   | 133      |
|                    | +                  |                     |                      |          |                |              |                         |              |                     |             |                 |               |                                   |                                       |          |
|                    |                    |                     |                      |          |                |              |                         | -            |                     | -           |                 |               |                                   |                                       |          |

| TC TS              | STN      | NDSUN               | 1      |                     |          |                  |              | Stand       | l Table | Summa               | ry       |                 |               |                                   |                                       |     |
|--------------------|----------|---------------------|--------|---------------------|----------|------------------|--------------|-------------|---------|---------------------|----------|-----------------|---------------|-----------------------------------|---------------------------------------|-----|
|                    |          |                     |        |                     |          |                  |              | Proje       | ect     | DEERF               | SAL      |                 |               |                                   |                                       |     |
| T29N<br>Twp<br>29N | F        | 38E  <br>Rge<br>38E |        | 0U1<br>Tract<br>DEE |          | RE               |              | 'ype<br>0U1 |         | <b>cres</b><br>1.79 | Plots 58 | Sample T<br>186 |               | T29N R<br>Page:<br>Date:<br>Time: | 38E S08 7<br>2<br>1/19/201<br>1:04:07 | L(  |
|                    | S        |                     | Sample |                     | Av<br>Ht | Trees/           |              | Logs        | Net     | age Log<br>Net      | Tons/    | Net<br>Cu.Ft.   | Net<br>Bd.Ft. |                                   | otals                                 |     |
| Spc 7              | <b>T</b> |                     |        | 16'                 | Tot      | Acre             | Acre         | Acre        |         | Bd.Ft.              | Acre     | Acre            | Acre          | Tons                              | Cunits                                | MBF |
| LP<br>LP           |          | 7<br>9              | 1<br>1 | 90<br>85            | 76<br>17 | 1.940<br>1.437   | .58<br>.58   | 1.94        | 6.5     | 50.0                | .30      | 13              | 97            | 94                                | 39                                    | 30  |
| LP                 |          | 10                  | 1      | 88                  | 80       | 1.437            | .58          | 2.12        | 8.5     | 35.0                | .43      | 18              | 74            | 135                               | 56                                    | 23  |
| LP                 |          | 11                  | 1      | 84                  | 17       | .862             | .58          | 2.112       | 010     | 2010                |          | 10              |               | 100                               | 20                                    | 20  |
| LP                 | 1        | Totals              | 4      | 87                  | 51       | 5.302            | 2.32         | 4.07        | 7.5     | 42.2                | 0.74     | 31              | 171           | 229                               | 96                                    | 53  |
| WL                 |          | 7                   | 1      | 85                  | 60       | 2.168            | .58          | 2.17        | .0      |                     | .25      | 0               |               | 79                                | 0                                     |     |
| WL                 |          | 8                   | 3      | 87                  | 40       | 5.251            | 1.74         | 1.89        | 6.5     | 40.0                | .29      |                 | 76            | 91                                | 38                                    | 24  |
| WL                 |          | 9                   | 1      | 87<br>87            | 74       | 1.372            | .58          | 1.37        | 8.7     | 50.0                | .29      | 12              | 69            | 90                                | 37                                    | 21  |
| WL<br>WL           |          | 10<br>11            | 2<br>2 | 87<br>87            | 17<br>17 | 2.125<br>1.811   | 1.16<br>1.16 |             |         |                     |          |                 |               |                                   |                                       |     |
| WL                 | 1        | Totals              | 9      | 87                  | 40       | 12.727           | 5.22         | 5.43        | 4.5     | 26.6                | 0.83     | 24              | 144           | 259                               | 76                                    | 45  |
| WH                 |          | 11                  | 1      | 84                  | 75       | .878             | .58          | 1.76        | 9.0     | 45.0                | .51      | 16              | 79            | 158                               | 49                                    | 25  |
| WH                 | 1        | Totals              | 1      | 84                  | 75       | .878             | .58          | 1.76        | 9.0     | 45.0                | 0.51     | 16              | 79            | 158                               | 49                                    | 25  |
| DF                 | L        | 13                  | 1      | 82                  | 17       | .592             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 14                  | 1      | 82                  | 17       | .574             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 15                  | 3      | 83                  | 17       | 1.502            | 1.74         |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L<br>L   | 16<br>17            | 2<br>4 | 82<br>82            | 17<br>17 | .815<br>1.458    | 1.16<br>2.32 |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 18                  | - 3    | 83                  | 17       | 1.438            | 1.74         |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 19                  | 3      | 83                  | 17       | .893             | 1.74         |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 21                  | 2      | 83                  | 17       | .489             | 1.16         |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L<br>L   | 22<br>23            | 1<br>1 | 83                  | 17<br>17 | .222<br>.201     | .58<br>.58   |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 23<br>24            | 1      | 82<br>82            | 17       | .184             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
| DF                 | _        | Totals              | 22     | 83                  | 17       | 7.944            |              |             |         |                     |          |                 |               |                                   |                                       |     |
| GF                 | L        | 17                  | 1      | 85                  | 17       | .368             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 28                  | 1      | 85                  | 17       | .136             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
| GF                 | 1        | Totals              | 2      | 85                  | 17       | .503             | 1.16         |             |         |                     |          |                 |               |                                   |                                       |     |
| PP                 | L        | 22                  | 1      | 85                  | 17       | .224             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
| PP                 | 1        | Totals              | 1      | 85                  | 17       | .224             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
| RC                 | L        | 20                  | 1      | 72                  | 17       | .266             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
| RC                 | 1        | Totals              | 1      | 72                  | 17       | .266             | .58          |             |         |                     |          |                 |               |                                   |                                       |     |
| WL                 | L        | 12                  | 2      | 87                  | 17       | 1.476            | 1.16         |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L        | 13                  | 2      | 86                  | 17       | 1.229            | 1.16         |             |         |                     |          |                 |               |                                   |                                       |     |
|                    | L<br>L   | 14<br>15            | 4<br>1 | 87<br>86            | 17<br>17 | 2.201<br>.472    | 2.32<br>.58  |             |         |                     |          |                 |               |                                   |                                       |     |
| WL                 | _        | Totals              | 9      | 87                  | 17       | 5.378            | 5.22         |             |         |                     |          |                 |               |                                   |                                       |     |
| WL<br>Totals       | -        | i otalis            | 186    | 87                  | 28       | 5.578<br>114.868 |              | 37.48       | 16.5    | 76.7                | 17.24    | 618             | 2,873         | 5,374                             | 1,926                                 | 896 |
| Totals             |          |                     | 100    | 04                  | 20       | 114.008          | 107.78       | 37.48       | 10.3    | /0./                | 17.24    | 018             | 2,073         | 5,574                             | 1,920                                 | 090 |

Take trees per acre - 100.553 Leave trees per acre - 14.315

| TC TS              | TNDSU              | М                   |                      |          |                |              | Stand       | l Table | Summa               | ıry         |                 |               |                                   |                                      |     |
|--------------------|--------------------|---------------------|----------------------|----------|----------------|--------------|-------------|---------|---------------------|-------------|-----------------|---------------|-----------------------------------|--------------------------------------|-----|
|                    |                    |                     |                      |          |                |              | Proj        | ect     | DEERF               | SAL         |                 |               |                                   |                                      |     |
| T29N<br>Twp<br>29N | R38E<br>Rge<br>38E | S22 T(<br>Sec<br>22 | 00U2<br>Tract<br>DEE |          | RE             |              | Cype<br>OU2 |         | <b>cres</b><br>5.54 | Plots<br>48 | Sample T<br>112 |               | T29N R<br>Page:<br>Date:<br>Time: | 38E S22 7<br>1<br>1/19/20<br>1:04:07 | 1(  |
| s                  |                    | Sample              | e FF                 | Av<br>Ht | Trees/         | BA/          | Logs        | Net     | age Log<br>Net      | Tons/       | Net<br>Cu.Ft.   | Net<br>Bd.Ft. | Т                                 | otals                                |     |
| Spc 7              |                    | I Trees             | 16'                  | Tot      | Acre           | Acre         | Acre        |         | Bd.Ft.              | Acre        | Acre            | Acre          | Tons                              | Cunits                               | MBF |
| GF<br>GF           | 11<br>13           | 2<br>2              | 83<br>85             | 49<br>17 | 1.773<br>1.218 | 1.16<br>1.16 | 1.85        | 9.0     | 40.0                | .48         | 8 17            | 74            | 89                                | 31                                   | 14  |
| GF                 | 13                 | 2                   | 86                   | 50       | 1.131          | 1.16         | 1.11        | 17.7    | 75.0                | .56         | 5 20            | 84            | 105                               | 37                                   | 16  |
| GF                 | 15                 | 3                   | 84                   | 39       | 1.424          | 1.74         | .89         | 21.0    | 90.0                | .54         |                 | 81            | 100                               | 35                                   | 15  |
| GF                 | 16                 |                     | 87                   | 41       | 1.682          | 2.32         | 1.18        | 23.6    | 140.0               | .80         |                 | 166           | 148                               | 52                                   | 31  |
| GF                 | 18                 | 2                   | 92                   | 111      | .644           | 1.16         | 1.93        | 26.6    | 146.7               | 1.47        |                 | 284           | 273                               | 95<br>50                             | 53  |
| GF<br>GF           | 19<br>21           | 2<br>1              | 89<br>86             | 68<br>17 | .585<br>.234   | 1.16<br>.58  | .91         | 29.7    | 180.0               | .78         | 3 27            | 164           | 144                               | 50                                   | 30  |
| GF                 | 21                 | 1                   | 80                   | 140      | .234           | .58          | .84         | 34.0    | 185.0               | .82         | 2 29            | 155           | 152                               | 53                                   | 29  |
| GF                 | 23                 | 2                   | 86                   | 17       | .372           | 1.16         | .01         | 51.0    | 105.0               |             | >               | 155           | 152                               | 55                                   | 29  |
| GF                 | Totals             | 21                  | 86                   | 47       | 9.272          | 12.15        | 8.73        | 21.8    | 115.3               | 5.45        | 5 190           | 1,006         | 1,011                             | 353                                  | 187 |
| DF                 | 8                  | 5                   | 81                   | 29       | 8.568          | 2.89         | 3.63        | 4.2     | 20.0                | .43         |                 | 73            | 81                                | 28                                   | 13  |
| DF                 | 9                  | 4                   | 78                   | 40       | 5.742          | 2.32         | 4.27        | 7.1     | 23.2                | .86         |                 | 99            | 160                               | 56                                   | 18  |
| DF                 | 10                 | 1                   | 87                   | 66       | .981           | .58          | .98         | 13.0    | 70.0                | .36         |                 | 69<br>25      | 67<br>52                          | 24                                   | 13  |
| DF<br>DF           | 11<br>12           | 1<br>1              | 71<br>82             | 38<br>17 | .846<br>.775   | .58<br>.58   | .85         | 11.8    | 30.0                | .28         | 3 10            | 25            | 53                                | 18                                   | 5   |
| DF                 | 12                 | 3                   | 82<br>82             | 17       | 1.986          | .38<br>1.74  |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | 14                 | 3                   | 83                   | 17       | 1.579          | 1.74         |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | 15                 | 1                   | 73                   | 76       | .484           | .58          | .97         | 17.7    | 55.0                | .49         | ) 17            | 53            | 92                                | 32                                   | 10  |
| DF                 | 16                 | 3                   | 82                   | 17       | 1.286          | 1.74         |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | 17                 | 3                   | 81                   | 40       | 1.146          | 1.74         | .75         | 24.4    | 85.0                | .52         | 2 18            | 64            | 97                                | 34                                   | 12  |
| DF                 | 18                 | 1                   | 83                   | 17       | .317           | .58          |             |         |                     |             |                 |               |                                   |                                      |     |
| DF<br>DF           | 19<br>20           | 1<br>3              | 83<br>84             | 17<br>48 | .291<br>.820   | .58<br>1.74  | .82         | 28.9    | 156.7               | .68         | 3 24            | 129           | 125                               | 44                                   | 24  |
| DF                 | 20                 | 2                   | 82                   | 17       | .486           | 1.16         | .02         | 20.9    | 150.7               | .00         | , 24            | 127           | 125                               |                                      | 24  |
| DF                 | 22                 | 2                   | 82                   | 17       | .445           | 1.16         |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | 23                 | 2                   | 82                   | 17       | .403           | 1.16         |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | 25                 | 2                   | 77                   | 69       | .344           | 1.16         | .52         | 43.7    | 190.0               | .65         | 5 23            | 99            | 121                               | 42                                   | 18  |
| DF                 | 27                 | 1                   | 83                   | 17       | .143           | .58          |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | 29                 | 2                   | 82                   | 17       | .255           | 1.16         |             |         |                     |             |                 |               |                                   |                                      |     |
| DF                 | Totals             |                     | 81                   | 32       | 26.898         |              | 12.79       | 11.8    | 47.7                | 4.29        | 9 150           | 611           | 796                               | 279                                  | 113 |
| PP                 | 20                 |                     | 86                   | 17<br>91 | .265           | .58          | 16          | 28.0    | 105.0               | 40          | ) 10            | 00            | 20                                | 22                                   | 17  |
| PP<br>PP           | 21<br>23           | 1<br>2              | 93<br>86             | 91<br>17 | .232<br>.405   | .58<br>1.16  | .46         | 38.9    | 195.0               | .43         | 3 18            | 90            | 80                                | 33                                   | 17  |
| PP                 | 23                 |                     | 92                   |          | .180           | .58          | .54         | 40.6    | 246.7               | .53         | 3 22            | 133           | 98                                | 41                                   | 25  |
| РР                 | Totals             | 5                   | 88                   | 48       | 1.082          | 2.89         | 1.00        | 39.8    | 222.8               | 0.96        | 5 40            | 223           | 178                               | 74                                   | 41  |
| WH                 | 19                 | 1                   | 90                   | 92       | .291           | .58          | .58         | 38.9    | 220.0               | .72         | 2 23            | 128           | 134                               | 42                                   | 24  |
| WH                 | Totals             | 1                   | 90                   | 92       | .291           | .58          | .58         | 38.9    | 220.0               | 0.72        | 2 23            | 128           | 134                               | 42                                   | 24  |
| DF I               | L 12               | 1                   | 82                   | 17       | .701           | .58          |             |         |                     |             |                 |               |                                   |                                      |     |
|                    | L 13               | 1                   | 83                   | 17       | .658           | .58          |             |         |                     |             |                 |               |                                   |                                      |     |
|                    | L 14               |                     | 82                   | 17       | .557           | .58          |             |         |                     |             |                 |               |                                   |                                      |     |
| DF I               |                    |                     | 82                   | 50       | .944           | 1.16         | .98         | 19.0    | 85.0                | .53         | 3 19            | 83            | 98                                | 35                                   | 15  |
|                    | L 16<br>L 17       |                     | 82<br>82             | 17<br>17 | .409<br>.350   | .58<br>.58   |             |         |                     |             |                 |               |                                   |                                      |     |
|                    | L 17<br>L 18       |                     | 82<br>82             | 17       | .350           | .58<br>.58   |             |         |                     |             |                 |               |                                   |                                      |     |
|                    | L 19               |                     | 82                   | 17       | .898           | 1.74         |             |         |                     |             |                 |               |                                   |                                      |     |
|                    | L 20               |                     | 83                   | 17       | .544           | 1.16         |             |         |                     |             |                 |               |                                   |                                      |     |
|                    | L 21               | 1                   | 83                   | 17       | .252           | .58          |             |         |                     |             |                 |               |                                   |                                      |     |
| DF I               | L 24               | 2                   | 82                   | 17       | .381           | 1.16         |             |         |                     |             |                 |               |                                   |                                      |     |
|                    |                    |                     |                      |          |                |              |             |         |                     |             |                 |               |                                   |                                      |     |

| TC                         | TST              | NDSUN                      | M                     |                            |                            |                                      |                                   | Stand        | l Table | Summa                    | ry            |                       |                       |                                   |                                       |     |
|----------------------------|------------------|----------------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|-----------------------------------|--------------|---------|--------------------------|---------------|-----------------------|-----------------------|-----------------------------------|---------------------------------------|-----|
|                            |                  |                            |                       |                            |                            |                                      |                                   | Proje        | ect     | DEERF                    | SAL           |                       |                       |                                   |                                       |     |
| T29<br>Twp<br>29N          |                  | R38E<br>Rge<br>38E         |                       | 0U2<br>Tract<br>DEE        |                            | RE                                   |                                   | Гуре<br>0U2  |         | <b>cres</b><br>5.54      | Plots \$      | Sample T<br>112       |                       | T29N R<br>Page:<br>Date:<br>Time: | 38E S22 T<br>2<br>1/19/201<br>1:04:07 | L(  |
| Spc                        | S<br>T           |                            | Sample<br>Trees       | e FF<br>16'                | Av<br>Ht<br>Tot            | Trees/<br>Acre                       | BA/<br>Acre                       | Logs<br>Acre | Net     | age Log<br>Net<br>Bd.Ft. | Tons/<br>Acre | Net<br>Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | T o<br>Tons                       | o t a l s<br>Cunits                   | MBF |
| DF<br>DF<br>DF             | L<br>L<br>L      | 26<br>27<br>30             | 3<br>1<br>1           | 82<br>82<br>82             | 17<br>17<br>17             | .477<br>.146<br>.118                 | 1.74<br>.58<br>.58                |              |         |                          |               |                       |                       |                                   |                                       |     |
| DF                         |                  | Totals                     | 21                    | 82                         | 22                         | 6.780                                | 12.15                             | .98          | 19.0    | 85.0                     | 0.53          | 19                    | 83                    | 98                                | 35                                    | 15  |
| GF<br>GF                   | L<br>L           | 27<br>28                   | 1<br>1                | 85<br>85                   | 17<br>17                   | .142<br>.132                         | .58<br>.58                        |              |         |                          |               |                       |                       |                                   |                                       |     |
| GF                         |                  | Totals                     | 2                     | 85                         | 17                         | .274                                 | 1.16                              |              |         |                          |               |                       |                       |                                   |                                       |     |
| PP<br>PP<br>PP<br>PP<br>PP | L<br>L<br>L<br>L | 17<br>18<br>19<br>21<br>23 | 2<br>3<br>1<br>1      | 85<br>85<br>85<br>85<br>85 | 17<br>17<br>17<br>17<br>17 | .717<br>.987<br>.310<br>.252<br>.208 | 1.16<br>1.74<br>.58<br>.58<br>.58 |              |         |                          |               |                       |                       |                                   |                                       |     |
| PP<br>PP<br>PP<br>PP<br>PP | L<br>L<br>L<br>L | 24<br>25<br>26<br>27<br>28 | 2<br>2<br>1<br>1<br>1 | 85<br>85<br>85<br>85<br>85 | 17<br>17<br>17<br>17<br>17 | .384<br>.347<br>.157<br>.151<br>.135 | 1.16<br>1.16<br>.58<br>.58<br>.58 |              |         |                          |               |                       |                       |                                   |                                       |     |
| PP                         |                  | Totals                     | 15                    | 85                         | 17                         | 3.649                                | 8.68                              |              |         |                          |               |                       |                       |                                   |                                       |     |
| RC                         | L                | 28                         | 1                     | 72                         | 17                         | .134                                 | .58                               |              |         |                          |               |                       |                       |                                   |                                       |     |
| RC                         |                  | Totals                     | 1                     | 72                         | 17                         | .134                                 | .58                               |              |         |                          |               |                       |                       |                                   |                                       |     |
| WL<br>WL<br>WL             | L<br>L<br>L      | 16<br>17<br>21<br>Totals   | 2<br>2<br>1<br>5      | 86<br>86<br>86<br>86       | 17<br>17<br>17<br>17       | .840<br>.743<br>.250<br>1.833        | 1.16<br>1.16<br>.58<br>2.89       |              |         |                          |               |                       |                       |                                   |                                       |     |
| Totals                     | 5                | - 0 4415                   | 112                   | 82                         | 32                         | 50.213                               |                                   | 24.08        | 17.5    | 85.2                     | 11.95         | 422                   | 2,052                 | 2,217                             | 782                                   | 381 |

Take trees per acre - 37.543 Leave trees per acre - 12.67

| Sec<br>10<br>mple<br>rees<br>2<br>3<br>2 | BE S10 T<br>e Sec<br>E 10 | )0U3<br>Tract    |   |   |  | Proje  | ect  | DEERF  | SAL  |  |  |  |  |  |
|--|---------------------------|------------------|---|---|--|--|--|--|--|--|--|--|--|--|
| Sec<br>10<br>mple<br>rees<br>2<br>3<br>2 | e Sec                     |                  |   |   |  |  |  |  |  |  |  |  |  |  |
| <b>rees</b> 2 3 2                        |                           | DEE              |   | RE  |  | `ype<br>0U3  |  | <b>cres</b><br>6.20  | Plots 5  | Sample T<br>104  |  | T29N R<br>Page:<br>Date:<br>Time:  | 38E S10 T<br>1<br>1/19/201<br>1:04:07  |  |
| 2<br>3<br>2                              | Sample                    | e FF             | Av<br>Ht  | Trees/  | BA/  | Logs   | Avera<br>Net   | age Log<br>Net   | Tons/  | Net<br>Cu.Ft.  | Net<br>Bd.Ft.  | Т  | otals  |  |
| 3<br>2                                   | BH Trees                  | 16'              | Tot   | Acre  | Acre   | Acre   | Cu.Ft.   | Bd.Ft.   | Acre   | Acre   | Acre   | Tons   | Cunits   | MBF  |
| 2  |                           | 82<br>83         | 17<br>17  | 3.279<br>4.378  | 1.16<br>1.74   |  |  |  |  |  |  |  |  |  |
| 2  |                           | 76               | 36  | 2.024   | 1.16   | 1.04   | 11.9   | 30.0   | .35  | 12   | 31   | 87   | 31   | 8  |
|  | 11 2<br>12 1              | 83               | 17  | 1.694<br>.702   | 1.16   |  |  |  |  |  |  |  |  |  |
| 1<br>5                                   |                           | 82<br>82         | 17<br>30  | 3.226   | .58<br>2.90  | 1.36   | 13.1   | 60.0   | .51  | 18   | 82   | 125  | 44   | 20   |
| 3  |                           | 78               | 60  | 1.676   | 1.74   | 2.30   | 14.5   | 55.0   | .95  |  | 126  | 234  | 82   | 31   |
| 2  |                           | 82               | 17  | .932  | 1.16   | 0.51   | 20.2   | 01.6   | 1.45   | <b>5</b> 1   | 205  | 256  | 105  | <b>5</b> 1   |
| 4  |                           | 81<br>83         | 60<br>17  | 1.694<br>.355   | 2.32<br>.58  | 2.51   | 20.2   | 81.6   | 1.45   | 51   | 205  | 356  | 125  | 51   |
| 1  |                           | 83               | 17  | .347  | .58  |  |  |  |  |  |  |  |  |  |
| 2  |                           | 83               | 17  | .586  | 1.16   |  | 20 5   |  |  | •  | 50   | 105  | 10   | 10   |
| 2  |                           | 80               | 54  | .506  | 1.16   | .51  | 38.7   | 145.0  | .56  |  | 73   | 137  | 48   | 18   |
| 30                                       |                           | 81               | 28  |   | 17.38  | 7.72   | 17.4   | 67.1   | 3.82   |  | 518  | 940  | 330  | 127  |
| 3<br>1                                   |                           | 82<br>84         | 44<br>67  | 1.927<br>.534   | 1.74<br>.58  | 1.87<br>1.07   | 14.8<br>14.7   | 59.8<br>65.0   | .79<br>.45   |  | 112<br>69  | 195<br>110   | 68<br>39   | 27<br>17   |
| 1  |                           | 83               | 17  | .472  | .58  | 1.07   | 11.7   | 05.0   | .15  | 10   | 0,   | 110  | 57   | 17   |
| 3  |                           | 81               | 45  | 1.235   | 1.74   | .81  | 23.1   | 90.0   | .53  | 19   | 73   | 131  | 46   | 18   |
| 1<br>2                                   |                           | 82<br>84         | 17<br>40  | .368<br>.653  | .58<br>1.16  | .63  | 25.3   | 95.0   | .45  | 16   | 60   | 112  | 39   | 15   |
| 1  |                           | 82               | 17  | .228  | .58  | .05  | 25.5   | 75.0   | .+5  | 10   | 00   | 112  | 57   | 15   |
| 2  |                           | 83               | 17  | .371  | 1.16   |  |  |  |  |  |  |  |  |  |
| 2<br>3                                   |                           | 82<br>82         | 17<br>17  | .340<br>.480  | 1.16<br>1.74   |  |  |  |  |  |  |  |  |  |
| 1  |                           | 82<br>83         | 17  | .136  | .58  |  |  |  |  |  |  |  |  |  |
| 1  | 32 1                      | 83               | 17  | .104  | .58  |  |  |  |  |  |  |  |  |  |
| 21                                       | als 21                    | 82               | 36  | 6.848   | 12.17  | 4.37   | 17.8   | 71.7   | 2.22   | 78   | 314  | 547  | 192  | 77   |
| 1  | 7 1                       | 86               | 17  | 2.108   | .58  |  |  |  |  |  |  |  |  |  |
| 1  |                           | 75               | 29  | 1.889   | .58  | 1.89   | 3.9  | 20.0   | .21  | 7  | 38   | 52   | 18   | 9  |
| 1<br>2                                   |                           | 86<br>85         | 17<br>45  | 1.042<br>1.514  | .58<br>1.16  | 1.55   | 11.0   | 55.0   | .49  | 17   | 85   | 121  | 42   | 21   |
| 1  |                           | 76               | 64  | .619  | .58  | 1.24   | 12.1   | 40.0   | .43  | 15   | 50   | 106  | 37   | 12   |
| 1  |                           | 89<br>85         | 76<br>17  | .512<br>.472  | .58<br>.58   | 1.02   | 17.3   | 70.0   | .51  | 18   | 72   | 125  | 44   | 18   |
| 1<br>1                                   |                           | 85<br>78         | 17<br>90  | .472  | .58<br>.58   | .43  | 45.0   | 145.0  | .55  | 19   | 62   | 136  | 47   | 15   |
| 1  |                           | 85               | 17  | .116  | .58  |  |  |  |  |  |  |  |  |  |
| 10                                       | als 10                    | 83               | 34  | 8.485   | 5.79   | 6.13   | 12.5   | 50.0   | 2.19   | 76   | 306  | 539  | 188  | 75   |
| 3  | 10 3                      | 90               | 85  | 3.231   | 1.74   | 6.46   | 7.8  | 40.0   | 1.21   | 51   | 258  | 299  | 124  | 64   |
| 1  | 11 1                      | 86               | 17  | .964  | .58  |  |  |  |  |  |  |  |  |  |
| 4  | als 4                     | 89               | 69  | 4.194   | 2.32   | 6.46   | 7.8  | 40.0   | 1.21   | 51   | 258  | 299  | 124  | 64   |
|  |                           | 84               | 78  | .738  | .58  | 1.48   | 11.5   | 40.0   | .41  | 17   | 59   | 101  | 42   | 15   |
| 1  | 14 1<br>15 2              | 87<br>86         | 17<br>17  | .558  | .58  |  |  |  |  |  |  |  |  |  |
| 1  | 15 2<br>16 3              | 86<br>86         |   | .938<br>1.299   |  |  |  |  |  |  |  |  |  |  |
| 1<br>2                                   | 17 2                      | 87               | 17  | .744  | 1.16   |  |  |  |  |  |  |  |  |  |
| 1<br>2<br>3                              | 20 1                      | 87<br>86         | 17<br>17  | .279  | .58  |  |  |  |  |  |  |  |  |  |
| 1<br>2<br>3<br>2<br>1                    |                           |                  |   |   |  |  |  |  |  |  |  |  |  |  |
| 1<br>2<br>3<br>2<br>1<br>1               | als 11                    | 86               | 26  | 4.798   | 6.37   | 1.48   | 11.5   | 40.0   | 0.41   | 17   | 59   | 101  | 42   | 15   |
|  | 17<br>20<br>21            | 3<br>2<br>1<br>1 | 3         86           2         87           1         87           1         86 | 3         86         17           2         87         17           1         87         17           1         86         17 | 3         86         17         1.299           2         87         17         .744           1         87         17         .279           1         86         17         .241 | 3         86         17         1.299         1.74           2         87         17         .744         1.16           1         87         17         .279         .58           1         86         17         .241         .58 | 3         86         17         1.299         1.74           2         87         17         .744         1.16           1         87         17         .279         .58           1         86         17         .241         .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 | 3       86       17       1.299       1.74         2       87       17       .744       1.16         1       87       17       .279       .58         1       86       17       .241       .58 |

| TC                | TC TSTNDSUM Stand Table Summary |                    |                     |                      |                |                      |                    |             |        |                          |          |                 |               |                                   |                                       |     |
|-------------------|---------------------------------|--------------------|---------------------|----------------------|----------------|----------------------|--------------------|-------------|--------|--------------------------|----------|-----------------|---------------|-----------------------------------|---------------------------------------|-----|
|                   |                                 |                    |                     |                      |                |                      |                    | Proje       | ect    | DEERF                    | SAL      |                 |               |                                   |                                       |     |
| T29<br>Twp<br>29N |                                 | R38E<br>Rge<br>38E | S10 T0<br>Sec<br>10 | 00U3<br>Tract<br>DEE |                | RE                   |                    | Sype<br>OU3 |        | <b>cres</b><br>6.20      | Plots 58 | Sample T<br>104 |               | T29N R<br>Page:<br>Date:<br>Time: | 38E S10 7<br>2<br>1/19/203<br>1:04:07 | L(  |
| C                 | S                               |                    | Sample              |                      |                | Trees/               |                    | Logs        | Net    | age Log<br>Net<br>Bd.Ft. | Tons/    | Net<br>Cu.Ft.   | Net<br>Bd.Ft. |                                   | otals<br>Consiste                     | MDE |
| -                 | Т                               |                    | Trees               | 16'                  | Tot            | Acre                 | Acre               | Acre        | Cu.Ft. | Bd.Ft.                   | Acre     | Acre            | Acre          | Tons                              | Cunits                                | MBF |
| PP<br>PP<br>PP    |                                 | 12<br>13<br>18     | 1<br>1<br>2         | 85<br>80<br>86       | 17<br>62<br>17 | .738<br>.680<br>.690 | .58<br>.58<br>1.16 | .68         | 16.8   | 70.0                     | .27      | 11              | 48            | 68                                | 28                                    | 12  |
| PP                |                                 | 24                 | 1                   | 85                   | 17             | .183                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                |                                 | 29                 | 1                   | 85                   | 17             | .124                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                |                                 | 33                 | 1                   | 85                   | 17             | .095                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                |                                 | Totals             | 7                   | 84                   | 29             | 2.510                | 4.06               | .68         | 16.8   | 70.0                     | 0.27     | 11              | 48            | 68                                | 28                                    | 12  |
| GF<br>GF          | L<br>L                          | 13<br>18           | 1<br>1              | 85<br>86             | 17<br>17       | .680<br>.314         | .58<br>.58         |             |        |                          |          |                 |               |                                   |                                       |     |
| GF                |                                 | Totals             | 2                   | 85                   | 17             | .994                 | 1.16               |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 13                 | 1                   | 85                   | 17             | .592                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 14                 | 1                   | 86                   | 17             | .574                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP<br>PP          | L                               | 15                 | 1                   | 86                   | 17<br>17       | .485                 | .58<br>.58         |             |        |                          |          |                 |               |                                   |                                       |     |
| PP<br>PP          | L<br>L                          | 16<br>23           | 1                   | 86<br>85             | 17             | .410<br>.210         | .58<br>.58         |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 23                 | 1                   | 85                   | 17             | .183                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 25                 | 2                   | 86                   | 17             | .350                 | 1.16               |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 27                 | 1                   | 85                   | 17             | .150                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 28                 | 1                   | 86                   | 17             | .132                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 29                 | 1                   | 86                   | 17             | .126                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 30                 | 2                   | 85                   | 17             | .235                 | 1.16               |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 31<br>34           | 1                   | 86                   | 17<br>17       | .111                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP<br>PP          | L<br>L                          | 34<br>35           | 1<br>1              | 85<br>86             | 17             | .090<br>.087         | .58<br>.58         |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                | L                               | 36                 | 1                   | 86                   | 17             | .087                 | .58                |             |        |                          |          |                 |               |                                   |                                       |     |
| PP                |                                 | Totals             | 17                  | 86                   | 17             | 3.815                | 9.85               |             |        |                          |          |                 |               |                                   |                                       |     |
| RC                | L                               | 36                 | 2                   | 73                   | 17             | .163                 | 1.16               |             |        |                          |          |                 |               |                                   |                                       |     |
| RC                |                                 | Totals             | 2                   | 73                   | 17             | .163                 | 1.16               |             |        |                          | 1        |                 |               |                                   |                                       |     |
| Totals            | 5                               |                    | 104                 | 83                   | 32             | 53.204               | 60.27              | 26.84       | 13.7   | 56.0                     | 10.13    | 367             | 1,503         | 2,493                             | 905                                   | 370 |

Take trees per acre -36.586Leave trees per acre -16.618

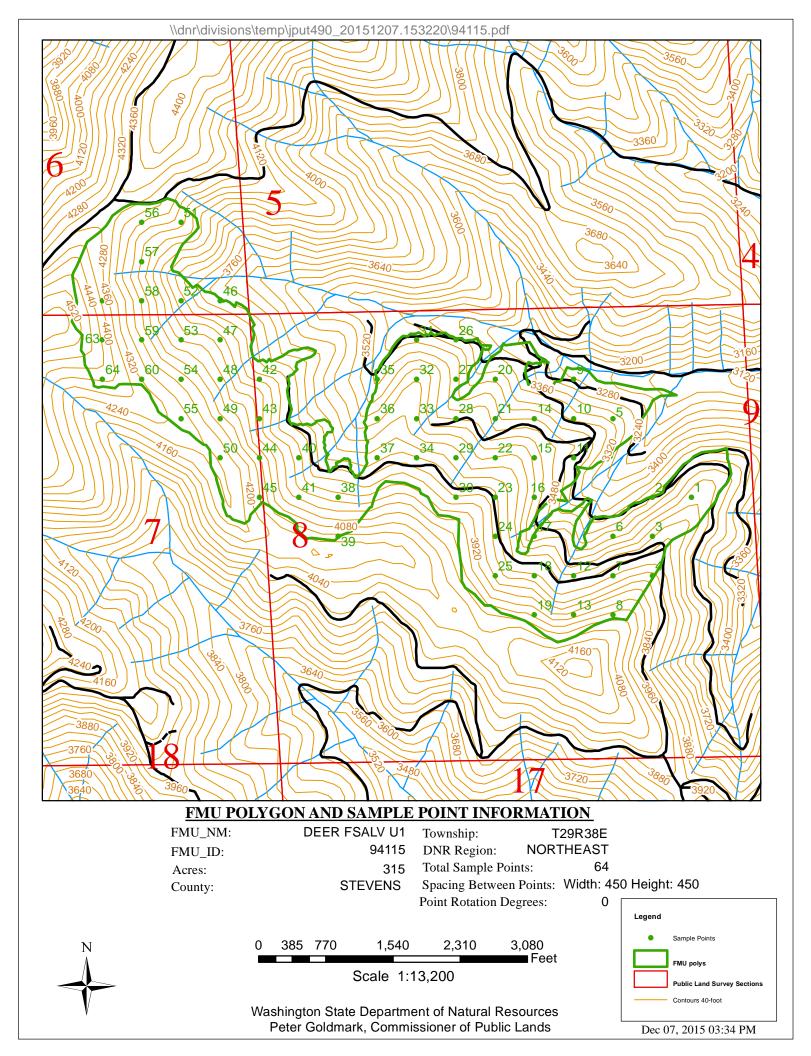
| Processe     Proce  | TC TS  | TNDSU  | М       |       |     |        |        | Stand | l Table | Summa  | ry    |       |       |                |              |       |
|--|--------|--------|---------|-------|-----|--------|--------|-------|---------|--------|-------|-------|-------|----------------|--------------|-------|
| matrix   |        |        |         |       |     |        |        | Proj  | ect     | DEERF  | SAL   |       |       |                |              |       |
| S         Samup         F         H         Trees/<br>V         Logs<br>V         Net<br>V         Net<br>V         Net<br>Acr         Cu-F         BdJF         Tool         Cu-F         BdJF         Tool         Cu-F         BdJF         Tool         Cu-F         BdJF         Tool         Not         Net         Net </th <th>Twp</th> <th>Rge</th> <th>Sec</th> <th>Tract</th> <th></th> <th>RE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>Page:<br/>Date:</th> <th>1<br/>1/19/20</th> <th>1(</th>   | Twp    | Rge    | Sec     | Tract |     | RE     |        |       |         |        |       | -     |       | Page:<br>Date: | 1<br>1/19/20 | 1(    |
| GF         11         1         86         80         8.814         5.82         17.63         11.0         60.0         5.55         194         1.038         664         2.32         127           GF         19         1         81         50         3.116         5.82         120         120         3.39         125         374         430         150         455           GF         22         1         81         121         2.184         5.82         77         12.48         5.82         77         12.48         5.82         77         12.38         46.54         30.65         32.1         143.4         36.45         1.72         5.688         4.363         1.52         6.30         302           GF         1         2         82         6.34         5.00         3.01         1.72         5.688         4.363         1.52         72         2.66           DF         1         2         82         6.30         5.35         5.0         3.02         1.01         1.02         6.32         1.21         11.3         38         15           DF         1         2         83         6.30         5.05   | S      | 5      | Sample  | e FF  |     | Trees/ | BA/    | Logs  |         |        | Tons/ |       |       | Т              | otals        |       |
| GF         19         1         81         50         3.16         5.82         3.12         4.00         3.59         1.25         3.79         1.61         2.10         5.81         2.77         1.71         3.79         1.62         7.71  | Spc 7  | DBH    | [ Trees | 16'   | Tot | Acre   | Acre   | Acre  | Cu.Ft.  | Bd.Ft. | Acre  | Acre  | Acre  | Tons           | Cunits       | MBF   |
| GF       20       2       86       45       5.17       1.1.6.3       5.13       3.4.9       125.0       5.12       1.7       6.611       2.14       5.82       7.7       1.1.6.3       3.7.9       1.667       3.7.1       2.48       1.99       6.611       2.07       8.51       2.107       8.51       3.7.9       1.667       3.7.1       2.48       1.90       6.611       6.613       2.14       5.7.3       3.7.9       1.667       3.7.1       2.48       1.90       6.611       8.51       2.7.9       8.68       3.65       3.7.1       1.1.63       3.7.2       5.7.6       3.64       3.65       3.7.1       1.43       3.645       1.7.2       5.68       4.4.63       1.5.7       6.60       2.0       1.1.3       3.8       1.5.7       1.60       1.7.2       1.1.3       3.8       1.5.7       1.60       1.7.2       1.1.3       3.8       1.5.7       1.60       1.7.7       1.60       2.00       2.60       2.2.9       2.50       3.7.2       1.7.8       3.7.3       1.7.9       1.61       1.7.7       1.7.8       3.7.3       1.7.9       1.7.7       1.7.8       3.7.3       1.7.9       2.2.9       3.7.3       3.7.2       2.2.9       3.7.3   |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| GF       22       1       8       121       2.184       5.82       6.55       7.7       7.11       2.48       1.092       851       2.97       1.11         GF       23       1       8       17       2.107       5.82       7.28       349.0       15.08       5.26       2.58       4.364       1.805       6.30       302         GF       7000       1       6.8       30       6.34       2.80       3.44       3.65       32.0       0.01       34.4       36.45       1.22       5.68       4.363       1.523       6.81         DF       11       2       83       40       5.94       2.60       5.81       11.9       5.00       1.72       60       2.20       2.60       2.90       2.60       2.90       2.60       2.90       2.90       2.61       1.81       3.13       110       4.66         DF       16       1       80       90       90       2.066       2.80       3.91       12.2       95.0       2.62       92       3.81       3.13       110       4.66       2.16       3.91       1.03       3.01       1.04       1.03       3.01       1.04       1.03   |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| GF     23     1     86     17     2.107     5.82     7.23     72.8     3490     15.8     526     2.54     1.805     630     320       GF     1081     8     87     70     23.80     46.54     39.65     32.1     143.4     364.55     1.227     5.88     4.363     1.523     631       DF     9     1     6.8     30     6.340     2.80     6.34     5.00     5.01     1.11     2.02     1.13     38     1.527     2.60     2.20     1.33     2.17     2.33     2.82     350       DF     13     2     83     40     5.942     5.60     5.81     11.9     500     1.96     69     200     223     282     350       DF     15     1     82     17     2.376     2.80     4.21     1.237     2.90     2.22     2.81     313     110     4.64     333     110     4.64       DF     16     18     80     92     2.80     2.34     82     2.88     2.80     98     353       DF     18     18     83     31.31     2.62     2.90     113.23     5.14     180     8.21     6.16 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| GF         30         2         87         117         2.411         11.63         7.23         7.28         349.0         15.08         5.26         2.54         1,805         6.30         302           GF         Touls         8         85         70         23.808         46.54         39.65         32.1         14.34         36.45         1.27         5.68         4.363         1.13         38         15           DF         11         2         83         40         5.94         5.06         4.01         13.7         500         1.72         60         200         206         72         23.5           DF         14         2         83         40         5.94         5.00         5.81         11.9         500         1.96         69         200         235         82         355           DF         15         1         80         90         2.066         2.80         3.91         2.42         850         3.51         1.13         3.33         110         4.64           DF         16         12         77         44         3.56         3.97         2.26         3.91         1.32.3         3.16   |        |        |         |       |     |        |        | 6.55  | 37.9    | 166.7  | /.11  | 248   | 1,092 | 851            | 297          | 131   |
| DF         9         1         68         30         6.34         2.80         6.34         1.00         1.00         1.01   |        | _      |         |       |     |        |        | 7.23  | 72.8    | 349.0  | 15.08 | 526   | 2,524 | 1,805          | 630          | 302   |
| DF       11       2       82       36       8.805       5.60       4.40       13.7       50.0       1.72       60       220       226       72       26         DF       14       2       68       45       5.393       5.00       5.81       1.19       50.0       1.96       69       290       235       82       35         DF       15       1       82       17       2.376       2.80       4.01       2.9       95.0       2.62       92       381       313       110       46       66       260       98       355         DF       16       12       77       44       35.60       3.61       35.55       18.0       65.2       18.24       639       2.316       2.183       76       2.77         ML       10       1.8       83       3.807       2.26       3.99       11.9       50.0       1.14       47       199       136       57       2.43         ML       10       81       5.65       2.26       5.31       10.8       40.0       1.55       66       2.74       186       77       2.33         ML       13       1.8       <  | GF     | Totals | 8       | 85    | 70  | 23.808 | 46.54  | 39.65 | 32.1    | 143.4  | 36.45 | 1,272 | 5,688 | 4,363          | 1,523        | 681   |
| DF         13         2         83         40         5.942         5.60         5.81         11.9         500         1.96         69         200         235         82         35           DF         14         2         68         45         5.393         5.60         5.99         22.9         35.0         3.52         123         189         421         148         23           DF         16         1         80         90         2.006         2.80         4.01         22.9         95.0         2.62         92         381         313         110         46           DF         17         81         7         44         35.60         3.61         35.55         18.0         65.2         18.24         639         2.31         2.88         2.80         98         2.00         2.183         405         2.77           WL         10         1         81         58         3.81         2.26         5.30         1.19         500         1.14         47         199         136         57         2.4           WL         104         1         87         62         2.65         2.26         5.31  | DF     | 9      | 1       | 68    | 30  | 6.340  | 2.80   | 6.34  | 5.0     | 20.0   | .94   | 32    | 127   | 113            | 38           | 15    |
| DF     14     2     68     45     5.393     5.60     5.39     22.9     35.0     3.52     123     189     421     148     23       DF     15     1     82     17     2.37     2.80     -     -     -     -     -     -       DF     17     1     81     72     1.66     2.80     3.39     24.2     85.0     2.34     82     288     280     98     355       DF     18     2     81     83     3.00     5.00     6.20     29.1     152.3     5.14     180     616     2.18     98     355       DF     10     1     81     74     35.60     3.61     35.55     18.0     65.2     18.24     639     2.316     2.18     2.1  | DF     | 11     | 2       | 82    | 36  | 8.805  | 5.60   | 4.40  | 13.7    | 50.0   | 1.72  | 60    | 220   | 206            | 72           | 26    |
| DF         15         1         82         17         2.376         2.80         4.01         22.9         8.00         2.80         2.80         3.30         22.9         8.00         2.34         8.20         9.20         2.80         9.80         3.30         2.34         8.20         8.21         3.13         9.90         9.80         3.55         1.00         2.24         85.0         5.14         1.80         8.21         6.16         2.18         2.90         2.71         1.32.3         5.14         1.80         8.21         2.18         2.11         2.10         2.10         2.11         2.10         2.11         2.10         2.11         2.10         2.11         2.10         2.11 <th2.10< th=""> <th2.11< th=""> <th2.11< th=""></th2.11<></th2.11<></th2.10<>  | DF     | 13     | 2       | 83    | 40  | 5.942  | 5.60   | 5.81  | 11.9    | 50.0   | 1.96  | 69    | 290   | 235            | 82           | 35    |
| DF         16         1         80         90         2.006         2.80         4.01         22.9         95.0         2.62         92         381         313         110         46           DF         18         2         81         83         3.10         5.00         6.20         29.1         132.3         5.14         82         288         286         280         98         35           DF         108         12         77         44         35.60         3.5.5         18.0         6.52         18.24         639         2.16         2.163         657         234           WL         10         1         81         82         88         3.428         2.26         5.86         9.4         40.0         1.55         65         274         186         77         33           WL         13         1         87         64         2.05         2.26         5.31         10.8         40.0         1.37         57         2.12         164         68         263         25           WL         108         1         75         1.25         1.65         10.5         42.5         4.06         169         <   | DF     |        |         |       |     |        |        | 5.39  | 22.9    | 35.0   | 3.52  | 123   | 189   | 421            | 148          | 23    |
| DF         17         1         81         72         1.696         2.80         3.39         24.2         85.0         2.34         82         288         280         98         35           DF         18         2         83         3.102         5.00         6.20         29.1         132.3         5.14         180         821         616         216         298           DF         Totals         12         77         44         35.60         3.61         35.5         18.0         65.2         18.24         639         2.316         2.183         765         277           WL         10         1         81         58         3.987         2.26         5.31         10.8         40.0         1.55         65         2.74         116         67         24           WL         13         1         86         17         2.52         2.66         5.31         10.8         40.0         1.53         65         2.74         116         686         486         203         82           WL         Totals         4         83         64         1.321         9.05         1.61         10.5         42.6         4.0  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| DF         18         2         81         83         3.102         5.60         6.20         29.1         132.3         5.14         180         821         616         216         98           DF         Totals         12         77         44         35.660         33.61         35.55         18.0         652         18.24         639         2.316         2.183         765         277           WL         10         1         81         58         3.987         2.26         3.99         11.9         50.0         1.14         47         199         136         57         24           WL         13         1         87         66         2.655         2.26         51         0.0         1.14         47         199         136         57         24           WL         18         1         86         17         1252         2.26         10.8         40.0         1.55         65         274         186         77         33           WL         104         1         83         76         1.52         2.26         10.0         1.0.0         1.0.0         1.0.0         1.0.0         1.0.0         1.0.0 </td <td></td>   |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| DF         Totals         12         77         44         35.660         33.61         35.55         18.0         65.2         18.24         639         2.316         2.183         765         277           WL         10         1         81         58         3.987         2.26         3.99         11.9         50.0         1.14         47         199         136         57         24           WL         13         1         87         66         2.655         2.26         5.31         10.8         40.0         1.37         57         212         164         68         203         82           WL         18         1         75         79         723         1.25         2.6         5.31         10.8         40.0         1.37         57         212         164         68         203         82           ES         18         1         75         79         7.23         1.29         1.45         29.1         110.0         1.09         42         159         131         50         19           ES         Totals         2         78         90         1.293         2.59         3.16         2.9  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| WL       10       1       81       58       3.987       2.26       3.99       11.9       50.0       1.14       47       199       136       57       24         WL       11       1       82       88       3.428       2.26       6.86       9.4       40.0       1.55       65       274       186       77       33         WL       18       1       86       17       1.252       2.26       5.31       10.8       40.0       1.37       57       212       164       68       203       82         ES       18       1       75       79       723       1.29       1.45       29.1       110.0       1.09       42       159       131       50       19         ES       103       2       78       00       1.293       2.59       3.16       29.9       128.0       2.46       94       404       294       113       48         DF       1.       14       1       83       17       1.539       1.65       74       30.5       140.0       1.51       53       244       181       64       29         DF       1.       26 <t< td=""><td>-</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  | -      | _      |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| WL       11       1       82       88       3.428       2.26       6.86       9.4       40.0       1.55       65       274       186       77       33         WL       13       1       87       66       2.655       2.26       5.31       10.8       40.0       1.37       57       212       164       68       25         WL       18       4       83       64       11.321       9.05       16.15       10.5       42.5       4.06       169       686       486       203       82         ES       18       1       75       79       7.23       1.29       1.45       29.1       110.0       1.36       52       2.45       163       63       29         ES       104       2       78       0       1.29       2.5       3.16       29.9       12.0       2.46       94       404       294       113       48         DF       1       14       1       83       17       1.539       1.65       7.4       30.5       140.0       1.51       53       244       181       64       29         DF       1       20       2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>,</td><td></td><td></td><td></td></td<>  |        |        |         |       |     |        |        |       |         |        |       |       | ,     |                |              |       |
| WL<br>WL       13       1       87       66       2.65       2.26       5.31       10.8       40.0       1.37       57       212       164       68       25         WL       Totals       4       83       64       11.321       9.05       16.15       10.5       42.5       4.06       169       686       486       203       82         ES       18       1       75       79       7.72       1.29       1.45       29.1       110.0       1.09       42       159       131       50       19         ES       18       1       75       79       7.72       1.29       1.45       29.1       110.0       1.09       42       159       131       50       19         ES       104       2       78       90       1.29       2.59       3.16       29.9       128.0       2.46       94       404       294       113       48         DF       1       14       1       83       17       1.539       1.65       1.74       30.5       140.0       1.51       53       244       181       64       29         DF       1       20       2  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| WL       Totals       4       83       64       11.321       9.05       16.15       10.5       42.5       4.06       169       686       486       203       82         ES       18       1       75       79       .723       1.29       1.45       29.1       110.0       1.09       42       159       1131       50       19         ES       20       1       81       103       .570       1.29       1.71       30.7       143.3       1.36       52       245       163       63       29         ES       Totals       2       78       90       1.293       2.59       3.16       29.9       128.0       2.46       94       404       294       113       48         DF       L       14       1       83       17       1.539       1.65       1.74       30.5       140.0       1.51       53       244       181       64       29         DF       L       19       1       81       89       8.72       1.65       1.74       30.5       140.0       1.51       53       244       181       64       29         DF       L       21<  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$  | WL     | 18     | 1       | 86    | 17  | 1.252  | 2.26   |       |         |        |       |       |       |                |              |       |
| ES       20       1       81       103 $570$ $1.29$ $1.71$ $30.7$ $143.3$ $1.36$ $52$ $245$ $163$ $63$ $29$ ES       Totals       2       78       90 $1.293$ $2.59$ $3.16$ $29.9$ $128.0$ $2.46$ $94$ $404$ $294$ $113$ $48$ DF       1 $14$ $1$ $83$ $17$ $1.539$ $1.65$ $1.74$ $30.5$ $140.0$ $1.51$ $53$ $244$ $181$ $64$ $29$ $96$ $12$ $82$ $17$ $1.368$ $3.29$ $140.0$ $1.51$ $53$ $244$ $181$ $64$ $29$ $96$ $12$ $82$ $17$ $1.368$ $3.29$ $140.0$ $1.51$ $53$ $244$ $181$ $64$ $29$ $96$ $165$ $163$ $183$ $183$ $183$ $118$ $64$ $29$ $96$ $165$ $1163$ $1163$ $1163$ $1163$ $1163$ $1163$ $1163$ $1163$ $1163$  | WL     | Totals | 4       | 83    | 64  | 11.321 | 9.05   | 16.15 | 10.5    | 42.5   | 4.06  | 169   | 686   | 486            | 203          | 82    |
| Image: Problem of the system of the syst | ES     | 18     | 1       | 75    | 79  | .723   | 1.29   | 1.45  | 29.1    | 110.0  | 1.09  | 42    | 159   | 131            | 50           | 19    |
| DF       L       14       1       83       17       1.539       1.65       1.74       30.5       140.0       1.51       53       244       181       64       29         DF       L       19       1       81       89       .872       1.65       1.74       30.5       140.0       1.51       53       244       181       64       29         DF       L       20       2       83       17       1.508       3.29       30.5       140.0       1.51       53       244       181       64       29         DF       L       21       2       82       17       1.368       3.29       30.5       140.0       1.51       53       244       181       64       29         DF       L       26       2       82       17       .379       1.65   | ES     | 20     | 1       | 81    | 103 | .570   | 1.29   | 1.71  | 30.7    | 143.3  | 1.36  | 52    | 245   | 163            | 63           | 29    |
| DF       L       15       1       82       17       1.341       1.65       30.5       140.0       1.51       53       244       181       64       29         DF       L       20       2       83       17       1.508       3.29       140.0       1.51       53       244       181       64       29         DF       L       20       2       82       17       1.508       3.29       1.51       53       244       181       64       29         DF       L       26       2       82       17       1.368       3.29       1.51       53       244       181       64       29         DF       L       26       2       82       17       1.368       3.29       1.51       53       244       181       64       29         DF       L       26       2       82       17       1.379       1.65       1.65       1.65       1.65       1.65       1.65       1.65       1.65       1.64       29         DF       L       30       1       82       17       2.63       1.29       1.61       1.51       53       244   | ES     | Totals | 2       | 78    | 90  | 1.293  | 2.59   | 3.16  | 29.9    | 128.0  | 2.46  | 94    | 404   | 294            | 113          | 48    |
| DF       L       19       1       81       89  | DF I   | L 14   | 1       | 83    | 17  | 1.539  | 1.65   |       |         |        |       |       |       |                |              |       |
| DF       L       20       2       83       17       1.508       3.29         DF       L       21       2       82       17       1.368       3.29         DF       L       26       2       82       17       8.92       3.29         DF       L       28       1       82       17       3.79       1.65         DF       L       30       1       82       17       3.35       1.65         DF       L       30       1       82       12       3.05       140.0       1.51       53       244       181       64       29         GF       L       30       1       86       17       2.63       1.29                        <  |        |        | 1       |       |     |        |        |       |         |        |       |       |       |                |              |       |
| DF       L       21       2       82       17       1.368       3.29       .892       3.29       .892       3.29       .892       3.29       .892       .379       1.65       .379       1.65       .379       1.65       .335       1.65       .892       .329       .335       1.65       .892       .335       1.65   |        |        |         |       |     |        |        | 1.74  | 30.5    | 140.0  | 1.51  | 53    | 244   | 181            | 64           | 29    |
| DF       L       26       2       82       17       .892       3.29  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| DF       L       28       1       82       17       .379       1.65       .335       1.65  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| DF       L       30       1       82       17       .335       1.65       Image: Constraint of the constrai  |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| GF       1       86       17       .263       1.29       Image: Second   |        |        |         |       |     |        |        |       |         |        |       |       |       |                |              |       |
| GF         Totals         1         86         17         .263         1.29           PP         L         26         1         86         17         .351         1.29           PP         Totals         1         86         17         .351         1.29           PP         Totals         1         86         17         .351         1.29  | DF     | Totals | 11      | 82    | 25  | 8.235  | 18.10  | 1.74  | 30.5    | 140.0  | 1.51  | 53    | 244   | 181            | 64           | 29    |
| PP       L       26       1       86       17       .351       1.29         PP       Totals       1       86       17       .351       1.29       Image: Constraint of the second secon  | GF I   | L 30   | 1       | 86    | 17  | .263   | 1.29   |       |         |        |       |       |       |                |              |       |
| PP     Totals     1     86     17     .351     1.29  | GF     | Totals | 1       | 86    | 17  | .263   | 1.29   |       |         |        |       |       |       |                |              |       |
|  | PP I   | L 26   | 1       | 86    | 17  | .351   | 1.29   |       |         |        |       |       |       |                |              |       |
| Totals         39         81         53         80.931 112.46         96.25         23.1         97.0         62.73         2228         9,339         7,507         2,666         1,118   | PP     | Totals | 1       | 86    | 17  | .351   | 1.29   |       |         |        |       |       |       |                |              |       |
|  | Totals | -      | 39      | 81    | 53  | 80.931 | 112.46 | 96.25 | 23.1    | 97.0   | 62.73 | 2228  | 9,339 | 7,507          | 2,666        | 1,118 |

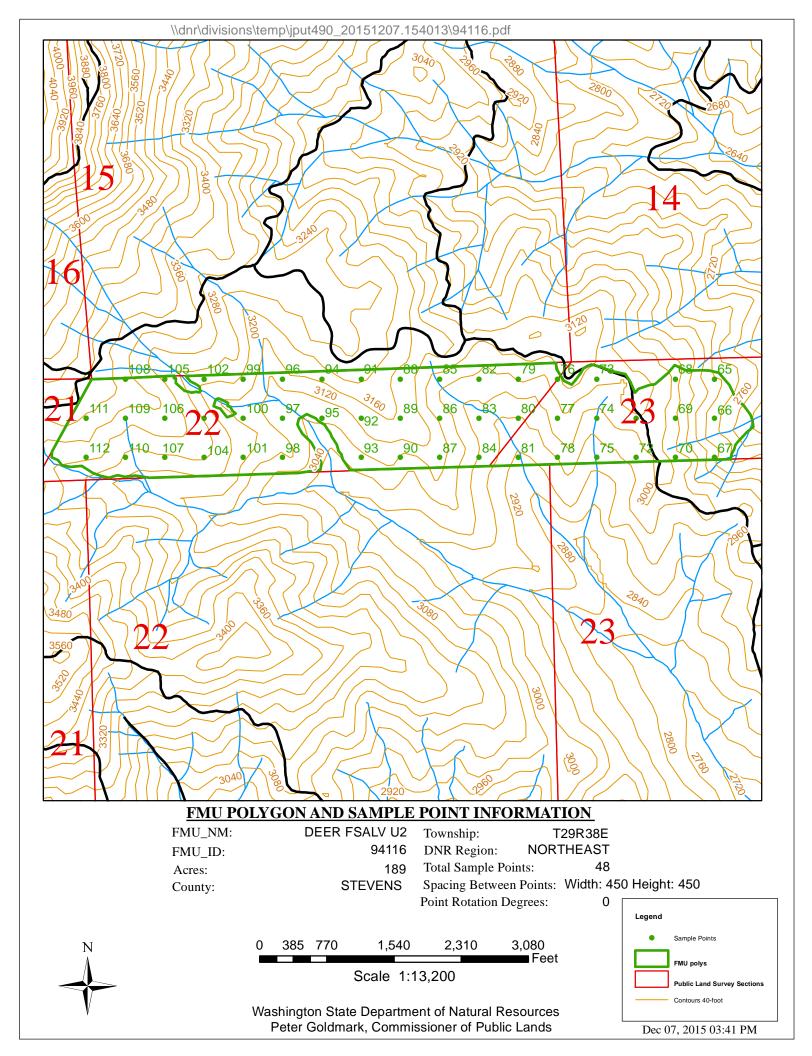
Take trees per acre - 72.082 Leave trees per acre - 8.849

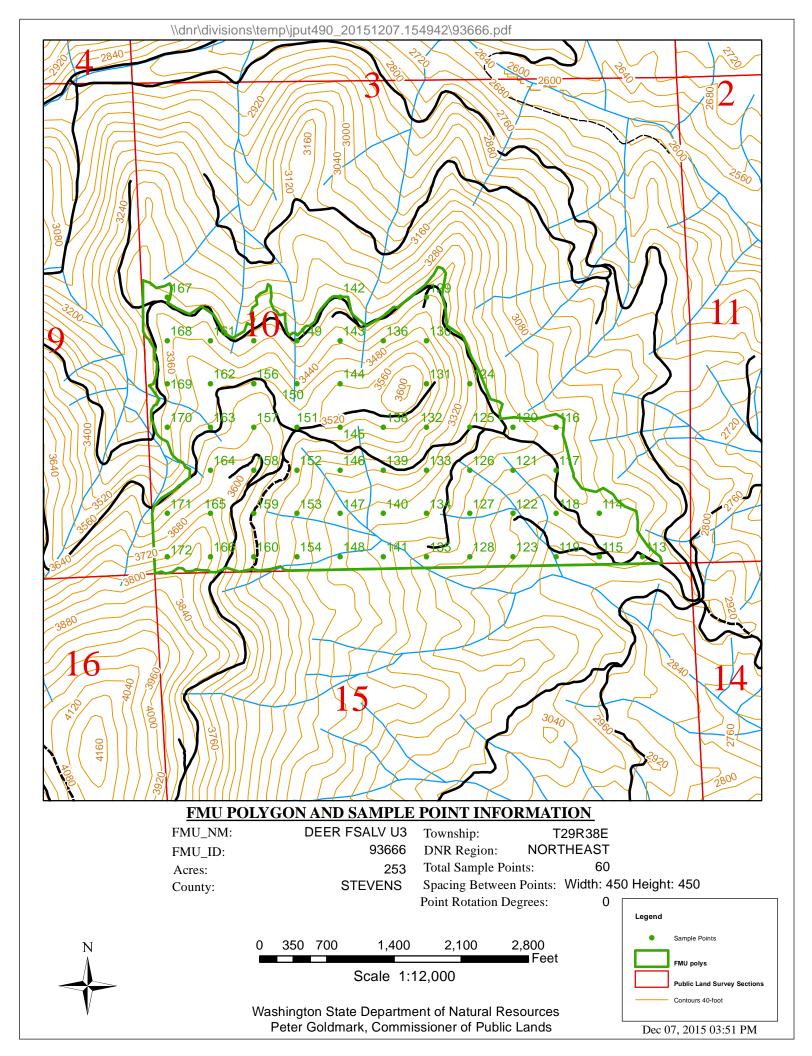
| TC TS              | TNDS              | UM     |     |          |           |                 |              | Stand        | l Table      | Summa               | ıry          |                |               |                                   |                                      |          |
|--------------------|-------------------|--------|-----|----------|-----------|-----------------|--------------|--------------|--------------|---------------------|--------------|----------------|---------------|-----------------------------------|--------------------------------------|----------|
|                    |                   |        |     |          |           |                 |              | Proj         | ect          | DEERF               | SAL          |                |               |                                   |                                      |          |
| T29N<br>Twp<br>29N | R38<br>Rge<br>38E |        | Tra | act      | R FI      | RE              |              | `ype<br>0U5  |              | <b>cres</b><br>4.42 | Plots<br>39  | Sample T<br>86 |               | T29N R<br>Page:<br>Date:<br>Time: | 38E S16 7<br>1<br>1/19/20<br>1:04:07 | 1(       |
| s                  |                   | Samp   |     | F        | Av<br>Ht  | Trees/          |              | Logs         | Net          | age Log<br>Net      | Tons/        | Net<br>Cu.Ft.  | Net<br>Bd.Ft. |                                   | otals                                |          |
| Spc 7              |                   | H Tree |     |          | Tot       | Acre            | Acre         | Acre         |              | Bd.Ft.              | Acre         | Acre           | Acre          | Tons                              | Cunits                               | MBF      |
| DF<br>DF           |                   |        |     | 81<br>78 | 33<br>40  | 12.499<br>4.761 | 5.17<br>2.59 | 6.27<br>3.01 | 8.1<br>12.7  | 39.8<br>50.0        | 1.44<br>1.09 |                | 250<br>150    | 252<br>191                        | 88<br>67                             | 44<br>26 |
| DF                 | 1                 |        |     | 78<br>78 | 40<br>35  | 2.644           | 1.72         | 1.41         | 12.7         | 30.0                | .48          |                | 42            | 83                                | 29                                   | 20<br>7  |
| DF                 |                   |        |     | 74       | 57        | 1.135           | .86          | 1.13         | 15.7         | 50.0                | .51          |                | 57            | 89                                | 31                                   | 10       |
| DF                 | 1                 | 3      | 2 8 | 80       | 40        | 1.976           | 1.72         | 1.93         | 10.9         | 40.0                | .60          | 21             | 77            | 105                               | 37                                   | 13       |
| DF                 | 1                 | 5      | 2 8 | 83       | 17        | 1.395           | 1.72         |              |              |                     |              |                |               |                                   |                                      |          |
| DF                 | 1                 |        |     | 83       | 17        | .971            | 1.72         |              |              |                     |              |                |               |                                   |                                      |          |
| DF                 | 2                 |        |     | 82       | 63        | .348            | .86          | .70          | 33.8         | 130.0               | .67          | 24             | 91            | 117                               | 41                                   | 16       |
| DF                 |                   |        |     | 83       | 17        | .279            | .86          | 4.4          | 55.0         | 175.0               | 70           | 25             | 70            | 102                               | 42                                   | 14       |
| DF<br>DF           | 2                 |        |     | 73<br>76 | 70<br>99  | .222<br>.161    | .86<br>.86   | .44<br>.48   | 55.8<br>63.3 | 175.0<br>306.7      | .70          |                | 78<br>148     | 123<br>152                        | 43<br>53                             | 14<br>26 |
|                    | _                 |        |     |          |           |                 |              |              |              |                     |              |                |               |                                   |                                      |          |
| DF                 | Tota              |        |     | 80       | 35        | 26.390          |              | 15.38        | 14.5         | 58.1                | 6.37         | 224            | 893           | 1,111                             | 390                                  | 156      |
| GF<br>GF           |                   |        |     | 85<br>86 | 17        | 2.965<br>2.350  | .86<br>.86   |              |              |                     |              |                |               |                                   |                                      |          |
| GF<br>GF           |                   |        |     | 86<br>86 | 17<br>38  | 4.227           | .80<br>1.72  | 2.04         | 10.2         | 30.0                | .60          | 21             | 61            | 104                               | 36                                   | 11       |
| GF                 | 1                 |        |     | 86       | 37        | 4.530           | 2.59         | 2.04         | 9.4          | 45.0                | .00          |                | 131           | 138                               | 48                                   | 23       |
| GF                 |                   |        |     | 81       | 45        | 3.320           | 2.59         | 3.25         | 13.3         | 50.0                | 1.24         |                | 163           | 216                               | 75                                   | 28       |
| GF                 | 1                 | 3      | 1 8 | 85       | 17        | .964            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| GF                 | 1                 | 4      | 3 8 | 86       | 36        | 2.419           | 2.59         | 1.64         | 17.0         | 85.0                | .80          | 28             | 139           | 139                               | 49                                   | 24       |
| GF                 |                   |        |     | 86       | 17        | 1.234           | 1.72         |              |              |                     |              |                |               |                                   |                                      |          |
| GF                 |                   |        |     | 86       | 17        | .348            | .86          |              |              |                     |              | • •            |               |                                   |                                      |          |
| GF                 |                   |        |     | 85       | 78        | .326            | .86          | .65<br>.81   | 42.3         | 205.0               | .79<br>1.07  |                | 134           | 138                               | 48                                   | 23       |
| GF<br>GF           |                   |        |     | 90<br>85 | 103<br>17 | .270<br>.097    | .86<br>.86   | .81          | 46.2         | 186.7               | 1.07         | 37             | 151           | 187                               | 65                                   | 26       |
| GF                 | Tota              | -      |     | 85       | 33        | 23.051          | 17.24        | 11.31        | 16.3         | 68.9                | 5.28         | 184            | 779           | 922                               | 322                                  | 136      |
|                    | _                 | _      |     | 83<br>83 | 17        | .921            | .86          | 11.31        | 10.3         | 08.9                | 5.20         | 104            | 119           | 922                               | 322                                  | 130      |
| DF I<br>DF I       |                   |        |     | 83<br>82 | 17        | .921<br>1.673   | .80<br>1.72  |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 83       | 17        | 2.850           | 3.45         |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 82       | 17        | .641            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               | 1                 | 7      | 1 8 | 83       | 17        | .547            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               | 1                 | 8      | 2 8 | 82       | 17        | 1.004           | 1.72         |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 83       | 17        | .420            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 82       | 17        | 1.580           | 3.45         |              |              |                     |              |                |               |                                   |                                      |          |
| DF I<br>DF I       |                   |        |     | 82<br>82 | 17<br>17  | .656<br>.312    | 1.72<br>.86  |              |              |                     |              |                |               |                                   |                                      |          |
|                    |                   |        |     | 82<br>82 | 17        | .312            | .80<br>.86   |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 82       | 17        | .516            | 1.72         |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 82       | 17        | .217            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        | 1 8 | 83       | 17        | .206            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 82       | 17        | .188            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| DF I               |                   |        |     | 83<br>83 | 17        | .161            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
|                    | _                 |        |     | 83       | 17        | .137            | .86          |              |              |                     | ļ            |                |               |                                   |                                      |          |
| DF                 | Tota              |        |     | 82       | 17        | 12.309          |              |              |              |                     |              |                |               |                                   |                                      |          |
| GF I               |                   |        |     | 86       | 17        | .867            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| GF I               |                   |        |     | 85<br>85 | 17<br>17  | .442<br>.403    | 1.72<br>1.72 |              |              |                     |              |                |               |                                   |                                      |          |
| GF I<br>GF I       |                   |        |     | 85<br>86 | 17<br>17  | .403            | 1.72<br>.86  |              |              |                     |              |                |               |                                   |                                      |          |
|                    |                   |        |     | 86       | 17        | .127            | .86          |              |              |                     |              |                |               |                                   |                                      |          |
| GF                 | Tota              |        |     | 86       | 17        | 2.027           | 6.03         |              |              |                     |              |                |               |                                   |                                      |          |
|                    | 100               |        | , ( | 50       | 1/        | 2.027           | 0.05         |              |              |                     |              |                |               |                                   |                                      |          |
|                    |                   |        |     |          |           |                 |              |              |              |                     |              |                |               |                                   |                                      |          |

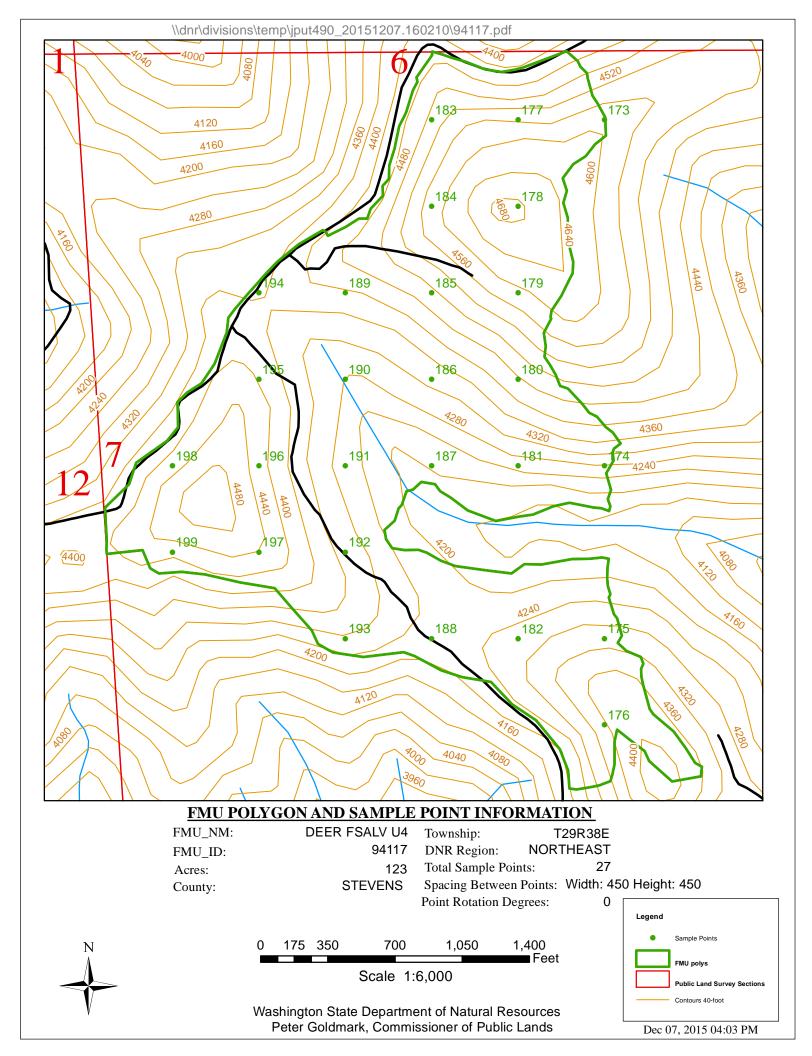
| TC 7               | гзт    | NDSUN              | N      |          |           |              |             | Stand       | l Table S    | Summa               | ry          |                |               |                                   |                                       |     |
|--------------------|--------|--------------------|--------|----------|-----------|--------------|-------------|-------------|--------------|---------------------|-------------|----------------|---------------|-----------------------------------|---------------------------------------|-----|
|                    |        |                    |        |          |           |              |             | Proj        | ect          | DEERF               | SAL         |                |               |                                   |                                       |     |
| T291<br>Twp<br>29N |        | R38E<br>Rge<br>38E |        | Trac     | t<br>R FI | RE           |             | `ype<br>0U5 |              | <b>cres</b><br>4.42 | Plots<br>39 | Sample T<br>86 |               | T29N R<br>Page:<br>Date:<br>Time: | 38E S16 T<br>2<br>1/19/201<br>1:04:07 | le  |
|                    | s      |                    | Sample |          |           | Trees/       | BA/         | Logs        | Avera<br>Net | nge Log<br>Net      | Tons/       | Net<br>Cu.Ft.  | Net<br>Bd.Ft. | Т                                 | otals                                 |     |
| Spc                | Т      | DBH                | Trees  | 16'      | Tot       | Acre         | Acre        | Acre        | Cu.Ft.       | Bd.Ft.              | Acre        | Acre           | Acre          | Tons                              | Cunits                                | MBF |
| PP                 | L      | 10                 | 1      | 86       | 17        | 1.461        | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| PP                 | L      | 17                 | 1      | 86       | 17        | .534         | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| PP<br>PP           | L<br>L | 21<br>30           | 2<br>1 | 86<br>86 | 17<br>17  | .727<br>.176 | 1.72<br>.86 |             |              |                     |             |                |               |                                   |                                       |     |
| PP                 |        | Totals             | 5      | 86       | 17        | 2.898        | 4.31        |             |              |                     |             |                |               |                                   |                                       |     |
| WL                 | L      | 15                 | 1      | 86       | 17        | .693         | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| WL                 | L      | 18                 | 1      | 87       | 17        | .488         | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| WL                 | L      | 19                 | 1      | 87       | 17        | .462         | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| WL                 | L      | 22                 | 1      | 87       | 17        | .324         | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| WL                 | L      | 24                 | 1      | 86       | 17        | .274         | .86         |             |              |                     |             |                |               |                                   |                                       |     |
| WL                 |        | Totals             | 5      | 87       | 17        | 2.240        | 4.31        |             |              |                     |             |                |               |                                   |                                       |     |
| Totals             |        |                    | 86     | 83       | 29        | 68.915       | 74.11       | 26.69       | 15.3         | 62.6                | 11.65       | 5 408          | 1,672         | 2,033                             | 712                                   | 292 |

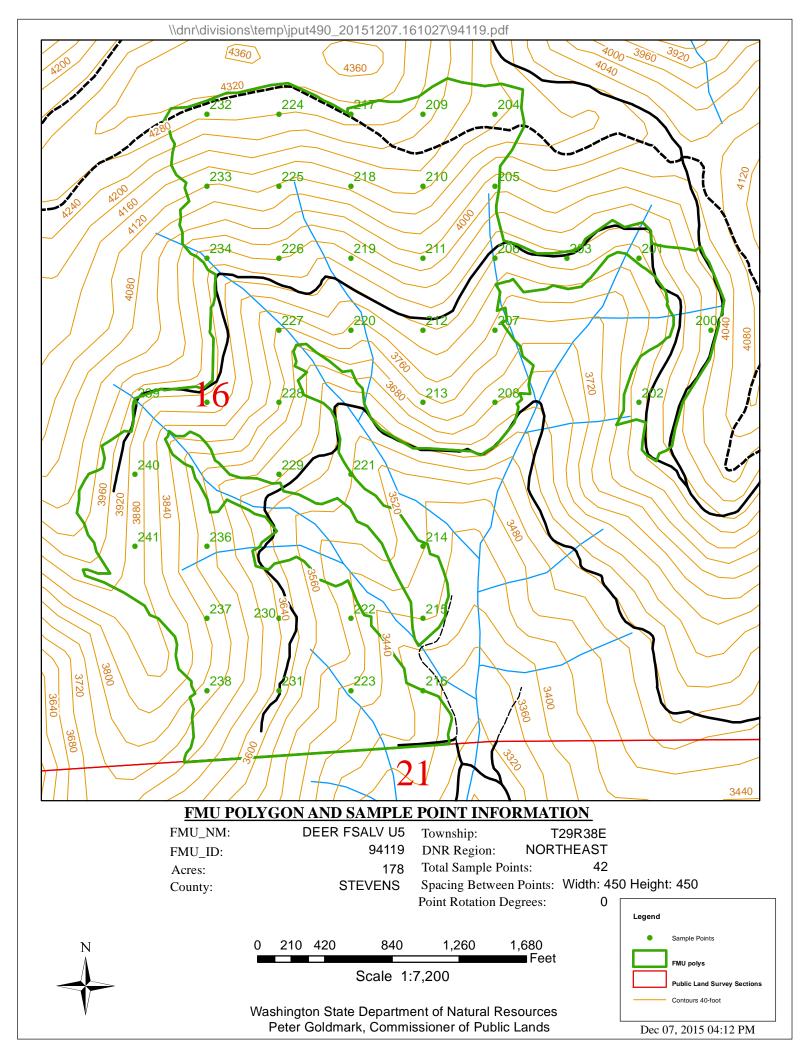
Take trees per acre - 49.441 Leave trees per acre - 19.474













**Forest Practices Application/Notification** 

Notice of Decision

| FPA/N No:        |              | 3020677  |
|------------------|--------------|----------|
| Effective Date:  | acted at     | 01/12/16 |
| Expiration Date: |              | 01/12/19 |
| Shut Down Zone:  |              | 687      |
| EARR Tax Credit: | [x] Eligible | []N      |
| Reference:       |              | DNR      |

|              | 3020011                |
|--------------|------------------------|
| acted at     | 01/12/16               |
|              | 01/12/19               |
|              | 687                    |
| [x] Eligible | [] Non-eligible<br>DNR |
| Dee          | r Fire Salvage         |

#### 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**

[] Class II [x] Class III [] Class IVG [] Class IVS

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

[]4 years [] 5 years

#### Conditions on Approval / Reasons for Disapproval

#### Conditions:

1. Streams and wetlands may have been identified within this harvest area. If changes occur to streams or wetlands during the time of this activity, notify the forest practice forester immediately for correct protection measures.

2. When harvesting on slopes that have the potential to deliver sediment to a public resource, use best management practices to minimize the potential. This could include: progressive water barring of skid trails, slash placement or grass seeding. Leaving small trees or logs on the ground that are perpendicular to the slope can also be helpful in minimizing erosion or delivering sediment to a public resource.

#### Reminders:

1. For each acre harvested, two green recruitment trees (grt), two wildlife reserve trees (wrt) and two down logs are required to be left, see WAC 222-30-020(12)(b).

2. For each acre harvested, reforestation is required, see WAC 222-34-020.

| Issued By: _         | Bernie Jones                                   | Region: | Northeast    |
|----------------------|--|---------|--------------|
| Title:               | Forest Practices Forester                      | Date:   | 01/12/16     |
| Copies to:           | [] Landowner, Timber Owner and Operator.       |         |              |
| Issued in<br>person: | [\] Landowner [\]Timber Owner [\] Operator By: | 15      | Service POST |