

### **District: Forest Grove**

### Date: August 28, 2018

### **Cost Summary**

|                            | Conifer        | Hardwood          | Total          |
|----------------------------|----------------|-------------------|----------------|
| Gross Timber<br>Sale Value | \$1,546,409.96 | \$0.00            | \$1,546,409.96 |
|                            |                | Project Work:     | \$0.00         |
|                            |                | Advertised Value: | \$1,546,409.96 |



#### **District: Forest Grove**

### Date: August 28, 2018

## **Timber Description**

Location: Portions of Section 14, T2N, R6W, W.M., Washington County, Oregon

Stand Stocking: 20%

| Specie Name           | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir         | 17     | 0                | 98           |
| Western Hemlock / Fir | 23     | 0                | 98           |

| Volume by Grade          | 2S    | 3S & 4S 6"-<br>11" | Total |
|--------------------------|-------|--------------------|-------|
| Douglas - Fir            | 1,421 | 1,139              | 2,560 |
| Western Hemlock<br>/ Fir | 273   | 78                 | 351   |
| Total                    | 1,694 | 1,217              | 2,911 |

Comments: Pond Values Used: Local Pond Values, May 2018.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$1,046.02/MBF = \$1,333/MBF - \$286.98/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost: \$380.02/MBF = \$667/MBF - \$286.98/MBF

BRANDING AND PAINTING COST ALLOWANCE =\$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE Hauling costs equivalent to \$950 daily truck cost.

Other Costs (with Profit & Risk to be added): Rocked Non-Project road construction: 5.5 Stations @ \$636/Station = \$3500 Reopen spur to landing 4: \$500 TOTAL Other Costs (with Profit & Risk to be added) = \$4000

Other Costs (No Profit & Risk added): Machine Time to Block/Waterbar Roads,and Skid Trails: 10 hours x \$150/hour = \$1,500 Machine Time to Pile Landing Slash and Sort Firewood: 20 hours x \$150/hour = \$3,000 Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000 Slash Disposal: 28 acres x \$200/acre = \$5,600 TOTAL Other Costs (No Profit & Risk added) = \$13,100

ROAD MAINTENANCE Move-in: \$4,000 General Road Maintenance: 5.4 miles x \$1,200/mile = \$6,480 TOTAL Road Maintenance: \$10,480/2,911 MBF = \$3.60/MBF



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|                                 | Loggi   | ng Conditions                          |
|---------------------------------|---|--|
| Combination#: 1                 | Douglas - Fir<br>Western Hemlock / Fir                        | 61.00%<br>61.00%                       |
| Logging System:                 | Cable: Large Tower >=70                                       | Process: Stroke Delimber               |
| yarding distance:<br>tree size: | Long (1,500 ft)<br>Mature / Regen Cut (900 Bft/tree), 3-5 log | <b>downhill yarding</b> : No<br>Js/MBF |
| loads / day:                    | 7   | <b>bd. ft / load:</b> 4600             |
| cost / mbf:                     | \$192.55  |  |
| machines:                       | Log Loader (A)<br>Stroke Delimber (A)<br>Tower Yarder (Large) |  |
| Combination#: 2                 | Douglas - Fir<br>Western Hemlock / Fir                        | 39.00%<br>39.00%                       |
| Logging System:                 | Shovel  | Process: Manual Delimbing              |
| yarding distance:<br>tree size: | Medium (800 ft)<br>Mature / Regen Cut (900 Bft/tree), 3-5 log | <b>downhill yarding:</b> No<br>gs/MBF  |
| loads / day:                    | 11  | <b>bd. ft / load:</b> 4600             |
| cost / mbf:                     | \$65.76   |  |
| machines:                       | Shovel Logger   |  |



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| Logging Costs           |                               |  |  |
|-------------------------|-------------------------------|--|--|
| Operating Seasons: 1.00 | Profit Risk: 10%              |  |  |
| Project Costs: \$0.00   | Other Costs (P/R): \$4,000.00 |  |  |
| Slash Disposal: \$0.00  | Other Costs: \$13,100.00      |  |  |

| Miles of Road |                      | Road Maintenance: \$ | 3.60  |
|---------------|----------------------|----------------------|-------|
| Dirt          | Rock<br>(Contractor) | Rock<br>(State)      | Paved |
| 0.0           | 0.0                  | 0.0                  | 0.0   |

#### Hauling Costs

| Species               | \$ / MBF | Trips/Day | MBF / Load |
|-----------------------|----------|-----------|------------|
| Douglas - Fir         | \$0.00   | 2.0       | 4.6        |
| Western Hemlock / Fir | \$0.00   | 2.0       | 4.0        |



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## Logging Costs Breakdown

| Logging   | Road<br>Maint | Fire<br>Protect | Hauling  | Other<br>P/R appl | Profit &<br>Risk | Slash<br>Disposal | Brand & Paint | Other  | Total    |
|-----------|---------------|-----------------|----------|-------------------|------------------|-------------------|---------------|--------|----------|
| Douglas - | Fir           |                 |          |                   |                  |                   |               |        |          |
| \$143.10  | \$3.67        | \$1.51          | \$105.33 | \$1.37            | \$25.50          | \$0.00            | \$2.00        | \$4.50 | \$286.98 |
| Western H | emlock        | / Fir           |          | -                 |                  |                   |               |        |          |
| \$143.10  | \$3.67        | \$1.51          | \$121.12 | \$1.37            | \$27.08          | \$0.00            | \$2.00        | \$4.50 | \$304.35 |

| Specie                | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir         | \$0.00       | \$835.55   | \$548.57 | \$0.00    |
| Western Hemlock / Fir | \$0.00       | \$709.11   | \$404.76 | \$0.00    |



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## Summary

Amortized

| Specie                | MBF | Value  | Total  |
|-----------------------|-----|--------|--------|
| Douglas - Fir         | 0   | \$0.00 | \$0.00 |
| Western Hemlock / Fir | 0   | \$0.00 | \$0.00 |

Unamortized

| Specie                | MBF   | Value    | Total          |
|-----------------------|-------|----------|----------------|
| Douglas - Fir         | 2,560 | \$548.57 | \$1,404,339.20 |
| Western Hemlock / Fir | 351   | \$404.76 | \$142,070.76   |

| <u>Gross Tim</u>          | Gross Timber Sale Value    |  |  |
|---------------------------|----------------------------|--|--|
| Recovery:                 | \$1,546,409.96             |  |  |
| Prepared By: Kenton Burns | <b>Phone:</b> 503-359-7473 |  |  |

#### CRUISE REPORT Likely Storey FG-341-2019-W00543-02

**1. LOCATION:** Portions of sections 14, T2N, R6W, W.M. Washington County, Oregon.

#### 2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 17 inches with a Coefficient of Variation of about 55%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. Statistical analysis indicated that 37 variable radius plots utilizing a 40 BAF prism would produce an adequate sample size.

#### 3. SAMPLING METHOD:

The Timber Sale Area was cruised in June of 2019. The Timber Sale Area was sampled with 38 variable radius grade plots laid out on a 3 chain x 7 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

#### 4. CRUISE RESULTS

215 trees were measured and graded producing a cumulative Sampling Error of 5.5% on the Basal Area and 5.3% on the Board Foot Volume.

#### 5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

#### a) Height Standards:

Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.

- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors were measured for each grade tree using a form point of 16 feet.

#### 6. DATA PROCESSING

- a) **Volumes and Statistics**, Cruise estimates and sampling statistics, were derived from Super Ace 2008 cruise software.
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

**7. Cruisers:** The sale was cruised by ODF cruisers Kenton Burns, Adrian Torres, and Mark Savage.

Prepared by:

Kenton Burns

Reviewed by:

7-20-18

| TC PSTAT  | S   |    |  |  |       | JECT S  |  | STICS<br>STRY   |           |  | PAGE<br>DATE   | 1<br>7/2/2018   |
|---|---|----|--|--|-------|---|--|---|-----------|--|--|---|
| WP R  | GE  | SC | TRACT  |  | ТҮРЕ  |   | AC   | RES   | PLOTS     | TREES  | CuFt   | BdFt  |
| 02N 06  |   | 14 | 00A1   |  | 00MC  |   |  | 78.00   | 38        | 215  | S  | W   |
|   |   |    |  |  | part. | TREES   |  | ESTIMATED<br>TOTAL  |           | PERCENT  |  |   |
|   |   | F  | PLOTS  | TREES  |       | PER PLOT  |  | TREES   |           | TREES  |  |   |
| TOTAL   |   | ** | 38   | 215  |       | 5.7   |  |   |           |  |  |   |
| CRUISE<br>DBH CO<br>REFORE<br>COUNT<br>BLANKS<br>100 %  | ST  |    | 38   | 215  |       | 5.7   |  | 10,525  |           | 2.0  |  |   |
| 10000   |   |    |  |  | STA   | ND SUMN   | MARY   | -   |           |  | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)                          |   |
|   |   | SA | MPLE   | TREES  | AVG   | BOLE  | REL  | BASAL   | GROSS     | NET  | GROSS  | NET   |
|   |   |    | TREES  | /ACRE  | DBH   | LEN   | DEN  | AREA  | BF/AC     | BF/AC  | CF/AC  | CF/AC   |
| DOUG FI   | R   |    | 189  | 125.6  | 17.0  | 105   | 48.2   | 198.9   | 33,688    | 33,475   | 7,802  | 7,802   |
| NOB FIR   |   |    | 18   | 5.7  | 24.7  | 124   | 3.8  | 18.9  | 3,616     | 3,392  | 820  | 820   |
| WHEML   |   |    | 7  | 3.0  | 21.0  | 107   | 1.6  | 7.4   | 1,217     | 1,191  | 301  | 301   |
| WR CED  |   |    | 1  | .5   | 19.0  | 86  | 0.2  | 1.1   | 112       | 96   | 36   | 36  |
| TOTAL   |   |    | 215  | 134.9  | 17.5  | 106   | 54.0   | 226.3   | 38,633    | 38,154   | 8,959  | 8,959   |
| CONFIL  | DENC<br>68.   |    |  | THE SAMPI<br>T OF 100 T  |       | ME WILL   | BE WITI  | HIN THE SAM   | MPLE ERRO | OR   |  |   |
| CL 68   | 8.1   |    | COEFF  |  |       | SAMPL   | E TREE   | S - BF  | #         | OF TREES   | REQ.   | INF. POP.   |
| <u>SD:</u> 1  | .0  |    | VAR.%  | S.E.%  | L     | OW  | AVG  | HIGH  |           | 5  | 10   | 1   |
| DOUG FI   | R   |    | 60.4   | 4.4  |       | 380   | 397  | 415   |           |  |  |   |
| MOD DID   |   |    |  |  |       |   |  |   |           |  |  |   |
| NOB FIR   |   |    | 57.0   | 13.8   |       | 614   | 712  | 811   |           |  |  |   |
| WHEMLO  | OCK   |    | 57.0<br>55.9   | 13.8   |       | 614<br>374  | 712<br>484   | 811<br>594  |           |  |  |   |
| WHEMLO<br>WR CED  | OCK   |    | 55.9   | 22.8   |       |   |  |   |           | 163  | 41   | 16  |
| WHEMLO<br>WR CED.<br>TOTAL  | OCK<br>AR   |    | 55.9<br>63.8   |  |       | 374<br>407  | 484<br><i>426</i>  | 594<br><i>444</i>   |           |  | C9-  |   |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68   | OCK<br>AR   |    | 55.9<br>63.8<br>COEFF  | 22.8<br><i>4.3</i>   |       | 374<br>407<br>SAMPL   | 484<br><i>426</i><br>E TREE:   | 594<br>444<br><b>S - CF</b>   | #         | OF TREES   | REQ.   | INF. POP.   |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1  | OCK<br>AR<br>3.1<br>.0  |    | 55.9<br>63.8<br>COEFF<br>VAR.%   | 22.8<br><i>4.3</i><br>S.E.%  | L     | 374<br>407<br>SAMPL   | 484<br><i>426</i><br>E TREE:<br>AVG  | 594<br><i>444</i><br>S - CF<br>HIGH   | #         |  | C9-  | INF. POP.   |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68   | OCK<br>AR<br>3.1<br>.0<br>R   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1   | 22.8<br>4.3<br>S.E.%<br>4.1  | L     | 374<br><i>407</i><br><b>SAMPL</b><br>OW<br>88   | 484<br><i>426</i><br>E TREE:   | 594<br>444<br><b>S - CF</b>   | #         | OF TREES   | REQ.   | INF. POP.   |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI   | OCK<br>AR<br>3.1<br>.0<br>R   |    | 55.9<br>63.8<br>COEFF<br>VAR.%   | 22.8<br><i>4.3</i><br>S.E.%  | L     | 374<br>407<br>SAMPL   | 484<br><i>426</i><br>E TREE:<br>AVG<br>92  | 594<br><i>444</i><br><b>S - CF</b><br><u>HIGH</u><br>96   | #         | OF TREES   | REQ.   | INF. POP.   |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6   | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96  | 484<br>426<br>E TREE<br>AVG<br>92<br>172   | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br>96<br>192<br>148   | #         | OF TREES   | REQ.   | INF. POP.   |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6   | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151  | 484<br>426<br>E TREE<br>AVG<br>92<br>172   | 594<br>444<br><b>S - CF</b><br>HIGH<br>96<br>192  | #         | OF TREES   | REQ.   | INF. POP.<br>1  |
| WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED   | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3   | 22.8<br>4.3<br>5.E.%<br>4.1<br>11.8<br>21.3  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96  | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100   | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br>96<br>192<br>148   |           | OF TREES<br>5  | REQ.<br>10<br>35   | INF. POP.<br>1:<br>10   |
| WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6   | 22.8<br>4.3<br>5.E.%<br>4.1<br>11.8<br>21.3  |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>TREES/<br>OW  | 484<br>426<br>E TREE:<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG   | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br>96<br>192<br>148<br><i>104</i><br>HIGH   |           | OF TREES 5   | REQ.<br>10<br>35   | INF. POP.<br>1:<br>10<br>INF. POP.  |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI   | OCK<br>AR<br>.1<br>.0<br>R<br>OCK<br>AR<br>.1<br>.0<br>R  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4   | 22.8<br><u>4.3</u><br><u>S.E.%</u><br><u>4.1</u><br>11.8<br>21.3<br><u>4.1</u><br><u>S.E.%</u><br>13.8   |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108   | 484<br>426<br>E TREE:<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126  | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br><u>104</u><br><u>HIGH</u><br><u>143</u>  |           | OF TREES 5   | REQ.<br>10<br>35<br>REQ.   | INF. POP.<br>1:<br>10<br>INF. POP.  |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>3.1<br>.0<br>R  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9  | 22.8<br><u>4.3</u><br><u>S.E.%</u><br><u>4.1</u><br>11.8<br>21.3<br><u>4.1</u><br><u>S.E.%</u><br>13.8<br>34.0   |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/.<br>OW<br>108<br>4   | 484<br>426<br>E TREE:<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6   | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br><u>104</u><br><u>HIGH</u><br><u>143</u><br><u>8</u>  |           | OF TREES 5   | REQ.<br>10<br>35<br>REQ.   | INF. POP.<br>1:<br>10<br>INF. POP.  |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>3.1<br>.0<br>R<br>OCK   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3   | 22.8<br><u>4.3</u><br><u>5.E.%</u><br><u>4.1</u><br>11.8<br>21.3<br><u>4.1</u><br><u>5.E.%</u><br>13.8<br>34.0<br>66.3   |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/.<br>OW<br>108<br>4<br>1  | 484<br>426<br>E TREE:<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3  | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br><u>96</u><br><u>192</u><br><u>148</u><br><u>104</u><br><u>HIGH</u><br><u>143</u><br><u>8</u><br>5                        |           | OF TREES 5   | REQ.<br>10<br>35<br>REQ.   | INF. POP.<br>1:<br>10<br>INF. POP.  |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.   | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>3.1<br>.0<br>R<br>OCK   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4  | 22.8<br><u>4.3</u><br><u>5.E.%</u><br><u>4.1</u><br>11.8<br>21.3<br><u>4.1</u><br><u>5.E.%</u><br>13.8<br>34.0<br>66.3<br>99.9                                     |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/.<br>OW<br>108<br>4<br>1<br>0   | 484<br>426<br>E TREE:<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1   | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br><u>96</u><br><u>192</u><br><u>148</u><br><u>104</u><br><u>HIGH</u><br><u>143</u><br><u>8</u><br><u>5</u><br><u>1</u>     |           | OF TREES 5<br>142<br>OF PLOTS 5  | REO.<br>10<br>35<br>REQ.<br>10                                   | INF. POP.<br>1:<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11                   |
| WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL   | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6  | 22.8<br><u>4.3</u><br><u>5.E.%</u><br><u>4.1</u><br>11.8<br>21.3<br><u>4.1</u><br><u>5.E.%</u><br>13.8<br>34.0<br>66.3   |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108<br>4<br>1<br>0<br>118   | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135   | 594<br><u>444</u><br><b>S - CF</b><br><u>HIGH</u><br><u>192</u><br><u>148</u><br><u>104</u><br><u>HIGH</u><br><u>143</u><br><u>8</u><br><u>5</u><br><u>1</u><br><u>152</u>    | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i>   | REO.<br>10<br>35<br>REO.<br>10<br>59                             | INF. POP.<br>1<br>10<br>INF. POP.<br>1<br>20  |
| WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL   | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF   | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>TREES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL  | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A   | 594<br><u>444</u><br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE  | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS                                   | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.                     | INF. POP.<br>1<br>10<br>INF. POP.<br>1:<br>20<br>INF. POP.  |
| WHEHLO   WR ⊂ED   TOTAL   CL 68   SD: 1   DOUG FI   NOB FIR   WHEMLO   WR ⊂ED   TOTAL   CL 68   SD: 1   DOUG FI   NOB FIR   WHEMLO   WR ⊂ED   TOTAL   CL 68   SD: 1   CL 68   SD: 1   | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR  |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%  | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%   | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>TREES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW  | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG  | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH   | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i>   | REO.<br>10<br>35<br>REO.<br>10<br>59                             | INF. POP.<br>1<br>10<br>INF. POP.<br>1:<br>20<br>INF. POP.  |
| WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>WHEMLO<br>WR CED<br>TOTAL  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9  | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW<br>184   | 484<br>426<br>E TREE3<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199  | 594<br><u>444</u><br><b>S - CF</b><br>HIGH<br>96<br>192<br>148<br><i>104</i><br>HIGH<br>143<br>8<br>5<br>1<br><i>152</i><br><b>CRE</b><br>HIGH<br>214                         | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS                                   | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.                     | INF. POP.<br>1<br>10<br>INF. POP.<br>1:<br>20<br>INF. POP.  |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR                            |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8   | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW<br>184<br>13   | 484<br>426<br>E TREE3<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>19<br>19  | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25  | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS                                   | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.                     | INF. POP.<br>1:<br>10<br>INF. POP.<br>1:<br>20<br>INF. POP.   |
| WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8<br>375.6  | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5<br>60.9                                | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>TREES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW<br>184<br>13<br>3  | 484<br>426<br>E TREE3<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199  | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25<br>12  | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS                                   | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.                     | INF. POP.<br>1<br>10<br>INF. POP.<br>1:<br>20<br>INF. POP.  |
| WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED.<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR<br>OCK<br>AR   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8   | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5  | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW<br>184<br>13   | 484<br>426<br>E TREE3<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>7   | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25  | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS                                   | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.                     | INF. POP.<br>1<br>INF. POP.<br>1:<br>20<br>INF. POP.<br>1:  |
| WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLO<br>WR CED<br>TOTAL   | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>.1<br>.0<br>R<br>OCK<br>AR                                   |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8<br>375.6<br>616.4<br>33.7                           | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5<br>60.9<br>99.9                        | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>76<br>77<br>78<br>96<br>96<br>78<br>78<br>78<br>78<br>78<br>78<br>78<br>78<br>78<br>78                                      | 484<br>426<br>E TREES<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>7<br>1<br>226   | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25<br>12<br>2   | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS <u>5</u><br><i>45</i>             | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.<br>10<br>11         | INF. POP.<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  |
| WHEHLO   WR CED   TOTAL   CL 68   SD: 1   DOUG FI   NOB FIR   WHEMLO   WR CED   TOTAL   CL 68   SD: 1   DOUG FI   NOB FIR   WHEMLO   WR CED   TOTAL   CL 68   SD: 1   DOUG FI   NOB FIR   WHEMLO   WR CED   TOTAL   CL 68   SD: 1   DOUG FI   NOB FIR   WHEMLO   WR CED   TOTAL   CL 68   SD: 1   DOUG FIR   WHEMLO 1   WR CED 1   MOB FIR 1   WHEMLO 1   SD: 1   DOUG FIN 1   NOB FIR 1   WHEMLO 1   WR CED <td>OCK<br/>AR<br/>3.1<br/>.0<br/>R<br/>OCK<br/>AR<br/>0<br/>CK<br/>AR<br/>0<br/>CK<br/>AR<br/>0<br/>CK<br/>AR<br/>0<br/>CK<br/>AR</td> <td></td> <td>55.9<br/>63.8<br/>COEFF<br/>VAR.%<br/>56.1<br/>48.6<br/>52.3<br/>59.6<br/>COEFF<br/>VAR.%<br/>85.4<br/>209.9<br/>409.3<br/>616.4<br/>76.6<br/>COEFF<br/>VAR.%<br/>45.9<br/>200.8<br/>375.6<br/>616.4<br/>33.7<br/>COEFF</td> <td>22.8<br/>4.3<br/>S.E.%<br/>4.1<br/>11.8<br/>21.3<br/>4.1<br/>S.E.%<br/>13.8<br/>34.0<br/>66.3<br/>99.9<br/>12.4<br/>S.E.%<br/>7.4<br/>32.5<br/>60.9<br/>99.9<br/>5.5</td> <td>L</td> <td>374<br/>407<br/>SAMPL<br/>OW<br/>88<br/>151<br/>96<br/>96<br/>7REES/<br/>OW<br/>108<br/>4<br/>1<br/>0<br/>118<br/>BASAL<br/>0<br/>118<br/>BASAL<br/>0<br/>214<br/>NET BF/</td> <td>484<br/>426<br/>E TREE<br/>AVG<br/>92<br/>172<br/>122<br/>100<br/>ACRE<br/>AVG<br/>126<br/>6<br/>3<br/>1<br/>135<br/>AREA/A<br/>AVG<br/>199<br/>19<br/>7<br/>1<br/>226<br/>ACRE</td> <td>594<br/><u>444</u><br/><b>S - CF</b><br/>HIGH<br/>96<br/>192<br/>148<br/><i>104</i><br/>HIGH<br/>143<br/>8<br/>5<br/>1<br/><i>152</i><br/><b>CRE</b><br/>HIGH<br/>214<br/>25<br/>12<br/>2<br/>239</td> <td>#</td> <td>OF TREES <u>5</u><br/><i>142</i><br/>OF PLOTS <u>5</u><br/><i>234</i><br/>OF PLOTS <u>5</u><br/><i>45</i><br/>OF PLOTS</td> <td>REQ.<br/>10<br/>35<br/>REQ.<br/>10<br/>59<br/>REQ.<br/>10<br/>11<br/>REQ.</td> <td>INF. POP.<br/>1<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td> | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR                            |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8<br>375.6<br>616.4<br>33.7<br>COEFF                  | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5<br>60.9<br>99.9<br>5.5                 | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>0<br>118<br>BASAL<br>0<br>214<br>NET BF/                              | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>7<br>1<br>226<br>ACRE  | 594<br><u>444</u><br><b>S - CF</b><br>HIGH<br>96<br>192<br>148<br><i>104</i><br>HIGH<br>143<br>8<br>5<br>1<br><i>152</i><br><b>CRE</b><br>HIGH<br>214<br>25<br>12<br>2<br>239 | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS <u>5</u><br><i>45</i><br>OF PLOTS | REQ.<br>10<br>35<br>REQ.<br>10<br>59<br>REQ.<br>10<br>11<br>REQ. | INF. POP.<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  |
| WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR           |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8<br>375.6<br>616.4<br>33.7<br>COEFF<br>VAR.%         | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5<br>60.9<br>99.9<br>5.5<br>S.E.%        | L     | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>7REES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW<br>184<br>13<br>3<br>0<br>214<br>NET BF/<br>OW                     | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>7<br>1<br>226<br>ACRE<br>AVG   | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25<br>12<br>2<br>239<br>HIGH                            | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS <u>5</u><br><i>45</i>             | REO.<br>10<br>35<br>REO.<br>10<br>59<br>REO.<br>10<br>11         | INF. POP.<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  |
| WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>R<br>0<br>CK<br>AR |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8<br>375.6<br>616.4<br>33.7<br>COEFF<br>VAR.%<br>43.9 | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5<br>60.9<br>99.9<br>5.5<br>S.E.%<br>7.1 |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>TREES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>OW<br>184<br>13<br>3<br>0<br>214<br>NET BF/<br>OW<br>1,091<br>3       | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>7<br>1<br>226<br>(ACRE<br>AVG<br>199<br>19<br>7<br>1<br>226<br>(ACRE<br>AVG<br>199<br>19<br>7<br>1<br>226<br>(ACRE<br>AVG<br>199<br>199<br>19<br>7<br>1<br>226<br>(ACRE<br>AVG<br>199<br>199<br>19<br>7<br>1<br>226<br>(ACRE<br>AVG<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>19 | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25<br>12<br>2<br>239<br>HIGH<br>35,858                  | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS <u>5</u><br><i>45</i><br>OF PLOTS | REQ.<br>10<br>35<br>REQ.<br>10<br>59<br>REQ.<br>10<br>11<br>REQ. | INF. POP.<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  |
| WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL<br>CL 68<br>SD: 1<br>DOUG FI<br>NOB FIR<br>WHEMLC<br>WR CED<br>TOTAL  | OCK<br>AR<br>3.1<br>.0<br>R<br>OCK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>CK<br>AR<br>0<br>R<br>0<br>CK<br>AR |    | 55.9<br>63.8<br>COEFF<br>VAR.%<br>56.1<br>48.6<br>52.3<br>59.6<br>COEFF<br>VAR.%<br>85.4<br>209.9<br>409.3<br>616.4<br>76.6<br>COEFF<br>VAR.%<br>45.9<br>200.8<br>375.6<br>616.4<br>33.7<br>COEFF<br>VAR.%         | 22.8<br>4.3<br>S.E.%<br>4.1<br>11.8<br>21.3<br>4.1<br>S.E.%<br>13.8<br>34.0<br>66.3<br>99.9<br>12.4<br>S.E.%<br>7.4<br>32.5<br>60.9<br>99.9<br>5.5<br>S.E.%        |       | 374<br>407<br>SAMPL<br>OW<br>88<br>151<br>96<br>96<br>TREES/<br>OW<br>108<br>4<br>1<br>0<br>118<br>BASAL<br>0<br>118<br>BASAL<br>0<br>214<br>NET BF/<br>DW<br>1,091<br>3<br>2,268 | 484<br>426<br>E TREE<br>AVG<br>92<br>172<br>122<br>100<br>ACRE<br>AVG<br>126<br>6<br>3<br>1<br>135<br>AREA/A<br>AVG<br>199<br>19<br>7<br>1<br>226<br>ACRE<br>AVG   | 594<br>444<br>S - CF<br>HIGH<br>96<br>192<br>148<br>104<br>HIGH<br>143<br>8<br>5<br>1<br>152<br>CRE<br>HIGH<br>214<br>25<br>12<br>2<br>239<br>HIGH                            | #         | OF TREES <u>5</u><br><i>142</i><br>OF PLOTS <u>5</u><br><i>234</i><br>OF PLOTS <u>5</u><br><i>45</i><br>OF PLOTS | REQ.<br>10<br>35<br>REQ.<br>10<br>59<br>REQ.<br>10<br>11<br>REQ. | 1:<br>10<br>INF. POP.<br>1:<br>20<br>INF. POP.<br>1:<br>5:<br>5:<br>5:<br>5:<br>5:<br>5:<br>5:<br>5:<br>5:<br>5 |

| TC PS | FATS  |    |       |       | PROJECT<br>PROJECT |          | ISTICS<br>YSTRY |       |            | PAGE<br>DATE | 2<br>7/2/2018 |
|-------|-------|----|-------|-------|--------------------|----------|-----------------|-------|------------|--------------|---------------|
| TWP   | RGE   | SC | TRACT | TY    | PE                 | A        | CRES            | PLOTS | TREES      | CuFt         | BdFt          |
| 02N   | 06    | 14 | 00A1  | 001   | MC                 |          | 78.00           | 38    | 215        | S            | W             |
| CL    | 68.1  |    | COEFF | 01000 | NET I              | BF/ACRE  |                 |       | # OF PLO   | IS REQ.      | INF. POP      |
| SD:   | 1.00  |    | VAR.  | S.E.% | LOW                | AVG      | HIGH            |       | 5          | 10           | 15            |
| тот   | AL    |    | 32.8  | 5.3   | 36,122             | 38,154   | 40,185          |       | 43         | 11           | 5             |
| CL    | 68.1  |    | COEFF | 4     | NET C              | CUFT FT/ | ACRE            |       | # OF PLOTS | REQ.         | INF. POP.     |
| SD:   | 1.0   |    | VAR.% | S.E.% | LOW                | AVG      | HIGH            |       | 5          | 10           | 15            |
| DOU   | G FIR |    | 42.8  | 6.9   | 7,260              | 7,802    | 8,344           |       |            |              |               |
| NOB   | FIR   |    | 202.8 | 32.9  | 551                | 820      | 1,090           |       |            |              |               |
| WHE   | MLOCK |    | 373.5 | 60.5  | 119                | 301      | 483             |       |            |              |               |
| WR C  | CEDAR |    | 616.4 | 99.9  | 0                  | 36       | 72              |       |            |              |               |
| тот   | AL    |    | 31.0  | 5.0   | 8,509              | 8,959    | 9,410           |       | 38         | 10           | 4             |

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| TC | PSPCSTGR |
|----|----------|

## Species, Sort Grade - Board Foot Volumes (Project)

| T02N R06W S14 Ty00MC 78.00 |         |      |       |             |        | Project:<br>Acres |       |        | RY<br>0 |           |          |        |       |       |    | Page<br>Date<br>Time | 7/: | 1<br>2/201<br>:00:4 |       |
|----------------------------|---------|------|-------|-------------|--------|-------------------|-------|--------|---------|-----------|----------|--------|-------|-------|----|----------------------|-----|---------------------|-------|
|                            |         | %    |       |             | -      | 1                 | Perce | ent of | Net Bo  | ard Fo    | oot Volu | me     |       |       |    | Avera                |     |                     | Logs  |
|                            | S So Gr | Net  | Bd. F | t. per Acre |        | Total             | Lo    | og Sca | le Dia. |           |          | Log Le | ength |       | Ln | Dia                  | Bd  | CF/                 | Per   |
| Spp                        | T rt ad | BdFt | Def%  | Gross       | Net    | Net MBF           | 4-5   | 6-11   | 12-16   | 17+       | 12-20    | 21-30  | 31-35 | 36-99 | Ft | In                   | Ft  | Lf                  | /Acre |
| DF                         | CU      |      |       |             |        |                   |       |        |         |           |          |        |       |       | 8  | 9                    |     | 0.00                | 7.6   |
| DF                         | 2M      | 55   | .5    | 18,671      | 18,584 | 1,450             |       |        | 76      | 24        |          | 1      |       | 99    | 40 | 14                   | 318 | 1.73                | 58.4  |
| DF                         | 3M      | 40   | .9    | 13,432      | 13,316 | 1,039             |       | 99     | 1       |           |          |        | 7     | 93    | 39 | 8                    | 98  | 0.64                | 135.9 |
| DF                         | 4M      | 5    | .6    | 1,585       | 1,575  | 123               |       | 100    |         |           | 35       | 65     |       |       | 20 | 6                    | 24  | 0.32                | 66.3  |
| DF                         | Totals  | 88   | .6    | 33,688      | 33,475 | 2,611             |       | 44     | 42      | 13        | 2        | 3      | 3     | 92    | 33 | 9                    | 125 | 0.87                | 268.3 |
| NF                         | 2M      | 79   | 7.7   | 2,933       | 2,708  | 211               |       |        | 51      | 49        |          |        |       | 100   | 40 | 16                   | 386 | 2.22                | 7.0   |
| NF                         | 3M      | 18   |       | 592         | 592    | 46                |       | 100    |         |           |          | 3      |       | 97    | 39 | 9                    | 119 | 0.85                | 5.    |
| NF                         | 4M      | 3    |       | 91          | 91     | 7                 |       | 100    |         |           | 54       | 46     |       |       | 18 | 6                    | 20  | 0.40                | 4.0   |
| NF                         | Totals  | 9    | 6.2   | 3,616       | 3,392  | 265               |       | 20     | 40      | 39        | 1        | 2      |       | 97    | 34 | 11                   | 204 | 1.47                | 16.   |
| WH                         | 2M      | 72   | 2.9   | 884         | 859    | 67                |       |        | 66      | 34        |          |        |       | 100   | 40 | 15                   | 343 | 1.98                | 2.:   |
| WH                         | 2M      | 24   | 2.0   | 292         | 292    | 23                |       | 100    |         | 429 - 544 |          |        |       | 100   | 40 | 8                    | 107 | 0.80                | 2.    |
| WH                         | 4M      | 4    |       | 40          | 40     | 3                 |       | 100    |         |           | 13       | 87     |       |       | 23 | 6                    | 24  | 0.38                | 1.    |
| WH                         | Totals  | 3    | 2.1   | 1,217       | 1,191  | 93                | 5     | 28     | 48      | 24        | 0        | 3      |       | 97    | 36 | 10                   | 172 | 1.21                | 6.9   |
| RC                         | 3M      | 83   | 16.7  | 96          | 80     | 6                 |       | 100    |         |           |          |        |       | 100   | 40 | 11                   | 150 | 1.42                |       |
| RC                         | 4M      | 17   | 10.7  | 16          | 16     | 1                 |       | 100    |         |           |          | 100    |       |       | 24 | 6                    | 30  | 0.43                |       |
|                            | Totals  | 0    | 14.3  | 112         | 96     | 8                 |       | 100    |         |           |          | 17     |       | 83    | 32 | 9                    | 90  | 1.05                | 1.    |
| Tota                       | ls      |      | 1.2   | 38,633      | 38,154 | 2,976             |       | 42     | 42      | 16        | 2        | 3      | 3     | 93    | 33 | 9                    | 130 | 0.91                | 292.9 |

| TC PLC | GSTVB    |       |       |     |       | Log          | Stock | Table | - MBI       | F      |       |       |           |       |                      |       |                              |     |
|--------|----------|-------|-------|-----|-------|--------------|-------|-------|-------------|--------|-------|-------|-----------|-------|----------------------|-------|------------------------------|-----|
| T02N F | R06W S14 | TyOOM | MC 78 | .00 |       | Proj<br>Acre |       | LK    | YSTRY<br>78 | .00    |       |       |           |       | Page<br>Date<br>Time |       | 1<br>/2018<br>00:41 <i>A</i> | M   |
| s      | So Gr    | Log   | Gross | Def | Net   | %            |       | ]     | Net Volu    | ime by |       |       | eter in I |       |                      |       |                              |     |
| Ѕрр Т  |          |       | MBF   | %   | MBF   | Spc          | 2-3   | 4-5   | 6-7         | 8-9    | 10-11 | 12-13 | 14-15     | 16-19 | 20-23                | 24-29 | 30-39                        | 40+ |
| DF     | 2M       | 30    | 8     |     | 8     | .3           |       |       |             |        |       |       | 8         |       |                      |       |                              |     |
| DF     | 2M       | 40    | 1,448 |     | 1,442 | 55.2         |       |       |             |        |       | 453   | 328       | 597   | 64                   |       |                              |     |
| DF     | 3M       | 32    | 29    |     | 29    | 1.1          |       |       | 29          |        |       |       |           |       |                      |       |                              |     |
| DF     | 3M       | 34    | 48    |     | 48    | 1.8          |       |       | 48          |        |       |       |           |       |                      |       |                              |     |
| DF     | 3M       | 36    | 70    | 2.7 | 68    | 2.6          |       |       | 62          | 6      |       |       |           |       |                      |       |                              |     |
| DF     | 3M       | 38    | 28    |     | 28    | 1.1          |       |       | 8           | 20     |       |       |           |       |                      |       |                              |     |
| DF     | 3M       | 40    | 873   |     | 866   | 33.1         |       |       | 157         | 235    | 469   | 5     |           |       |                      |       |                              |     |
| DF     | 4M       | 12    | 11    |     | 11    | .4           |       |       | 11          |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       | [ 14  | 7     |     | 7     | .3           |       |       | 7           |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       | [ 16  | 6     |     | 6     | .2           |       |       | 6           |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       | [ 18  | 10    |     | 10    | .4           |       |       | 9           | 0      |       | ÷     |           |       |                      |       |                              |     |
| DF     | 4M       | 1 20  | 10    |     | 10    | .4           |       |       | 10          |        |       |       |           |       | 1                    |       |                              |     |
| DF     | 4M       | 1 22  | 28    |     | 28    | 1.1          |       |       | 28          |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       |       |       |     | 11    |              |       |       | 11          |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       |       |       |     | 12    |              |       |       | 12          |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       |       |       |     | 7     |              | 1     |       | 7           |        |       |       |           |       |                      |       |                              |     |
| DF     | 4M       | 1 30  | 24    | 3.3 | 23    | .9           |       |       | 23          |        |       |       |           |       |                      |       |                              |     |
| DF     | Total    | s     | 2,628 |     | 2,611 | 87.7         |       |       | 426         | 261    | 469   |       | 336       | 597   | 64                   |       |                              |     |
| NF     | 2M       | 1 40  | 229   | 7.7 | 211   | 79.9         |       |       |             |        |       | 32    | 32        | 114   | 11                   | 22    |                              |     |
| NF     | 3M       | 1 24  | . 1   |     | 1     | .2           | 8     |       |             | 1      |       |       |           |       |                      |       |                              |     |
| NF     | 3M       | 1 26  | 5 1   |     | 1     | .2           |       |       |             | 1      |       |       |           |       |                      |       |                              |     |
| NF     | 3M       | 1 38  | 3 3   |     | 3     | 1.3          |       |       |             | 3      |       |       |           |       |                      |       |                              |     |
| NF     | 3N       | í 40  | 42    |     | 42    | 15.7         | l     |       | 4           | 13     | 24    |       |           |       |                      |       |                              |     |
| NF     | 4M       | 1 12  | 2 1   |     | 1     | .6           |       |       | 1           |        |       |       |           |       |                      |       |                              |     |
| NF     | 4M       |       |       |     | 0     |              |       |       | 0           |        |       |       |           |       |                      |       |                              |     |
| NF     | 4N       |       |       |     | 1     | .4           | 1     |       | 1           |        |       |       |           |       |                      |       |                              |     |
| NF     | 4M       |       |       |     | 1     | .4           |       |       | 1           |        |       |       |           |       |                      |       |                              |     |
| NF     | 4M       |       | 4 1   |     | 1     | .5           |       |       | 1           |        |       |       |           |       |                      |       |                              |     |
| NF     | 4M       | 1 26  | 5 1   |     | 1     | .3           |       |       | 1           |        |       |       |           |       |                      |       |                              |     |
| NF     | 4M       | 1 28  | 3 1   |     | 1     | .4           |       |       | 1           |        |       |       |           | 2     |                      |       |                              |     |
| NF     | Total    | s     | 282   | 6.2 | 265   | 8.9          |       |       | 11          | 18     | 24    | 32    | 32        | 114   | 11                   | 22    |                              |     |
| WH     | 2N       | 1 40  | ) 69  | 2.9 | 67    | 72.1         |       |       |             |        |       | 5     | 30        | 20    | 12                   |       |                              |     |
| WH     | 3M       | 1 40  | 23    |     | 23    | 24.5         |       |       | 5           | 6      | 12    |       |           |       |                      |       |                              |     |
| WH     | 4M       | 1 12  | 2 0   |     | 0     | .4           |       |       | 0           |        |       |       |           |       |                      |       |                              |     |

| TC I  | PLO | GSTVB    |      |    |       |      |       | Log                             | Stock | Table | e - MB   | F      |        |                   |           |        |            |       |       |     |
|-------|-----|----------|------|----|-------|------|-------|---------------------------------|-------|-------|----------|--------|--------|-------------------|-----------|--------|------------|-------|-------|-----|
|       |     |          |      |    |       |      |       | Project: LKYSTRY<br>Acres 78.00 |       |       |          |        |        | Pag<br>Dat<br>Tim |           |        | e 7/2/2018 |       |       |     |
|       | s   | So Gr    | L    | og | Gross | Def  | Net   | %                               |       |       | Net Volu | ime by | Scalin | g Diam            | eter in l | Inches |            |       |       |     |
| Spp   | т   | rt de    |      | en | MBF   | %    | MBF   | Spc                             | 2-3   | 4-5   | 6-7      | 8-9    | 10-11  | 12-13             | 14-15     | 16-19  | 20-23      | 24-29 | 30-39 | 40+ |
| WН    |     | 41       | M    | 28 | 3     |      | 3     | 2.9                             |       |       | 3        |        |        |                   |           |        |            |       |       |     |
| WH    | -   | Tota     | ls   | -  | 95    | 2.1  | 93    | 3.1                             |       |       | 8        | 6      | 12     | 5                 | 30        | 20     | 12         |       |       |     |
| RC    |     | 31       | M    | 40 | 8     | 16.7 | 6     | 83.3                            |       |       |          |        | 6      | ŝ                 |           |        |            |       |       |     |
| RC    |     | 41       | M    | 24 | 1     |      | 1     | 16.7                            |       |       | 1        |        |        |                   |           |        |            |       |       |     |
| RC    |     | Tota     | ls   |    | 9     | 14.3 | 8     | .3                              |       |       | 1        |        | 6      |                   |           |        |            |       |       |     |
| Total |     | All Spec | cies |    | 3,013 | 1.2  | 2,976 | 100.0                           |       |       | 447      | . 286  | 511    | 495               | 398       | 731    | 87         | 22    |       |     |

е. С

| FC F     | STNDSU   | M        |          |            |                 | 2            | stand          | Table :                 | Summar                 | у                                       |                       |                       | Page<br>Date: | 1<br>7/2/201     | 8       |
|----------|----------|----------|----------|------------|-----------------|--------------|----------------|-------------------------|------------------------|---|-----------------------|-----------------------|---------------|------------------|---------|
| T02N     | R06W S   | 14 Ty00N | 1C       | 78.0       | 0               |              | Projec         | t L                     | KYSTRY                 | K                                       |                       |                       | Time:         | 11:00:4          | 44AM    |
|          |          |          |          |            |                 | Acres 78.00  |                |                         |                        |   |                       |                       | Grown Year:   |                  |         |
| s        |          | Sample   | FF       | Tot<br>Av  | Trees/          | BA/          | Logs           | Averag<br>Net<br>Cu.Ft. | e Log<br>Net<br>Bd.Ft. | Tons/<br>Acre                           | Net<br>Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | Tons          | Totals<br>Cunits | MBF     |
| Spc T    | DBH      | Trees    | 16'      | Ht         | Acre            | 100.0325000  | Acre           |                         |                        | -                                       | NUMBER OF STREET      |                       |               |                  |         |
| OF       | 8        | 1        | 88       | 82         | 3.016           | 1.05         | 3.02           | 5.1                     | 30.0                   | .44<br>3.04                             | 15<br>107             | 90<br>596             | 34<br>237     | 12<br>83         |         |
| OF       | 9        | 5        | 88       | 81         | 11.913          | 5.26<br>9.47 | 11.91<br>19.30 | 8.9<br>10.6             | 50.0<br>49.0           | 5.85                                    | 205                   | 946                   | 456           | 160              |         |
| OF       | 10       | 9        | 86       | 79         | 17.370<br>6.701 | 5.26         | 19.50          | 12.6                    | 50.0                   | 4.34                                    | 152                   | 603                   | 338           | 119              |         |
| OF       | 12       | 5        | 86       | 94         | 5.710           | 5.26         | 11.42          | 13.9                    | 55.0                   | 4.53                                    | 159                   | 628                   | 353           | 124              |         |
| OF       | 13       | 5        | 87       | 95<br>98   | 3.939           | 4.21         | 7.88           | 17.3                    | 71.3                   | 3.88                                    | 136                   | 561                   | 302           | 106              |         |
| )F       | 14       | 4        | 87<br>87 | 103        | 3.939<br>7.720  | 9.47         | 15.44          | 21.6                    | 91.7                   | 9.52                                    | 334                   | 1,415                 | 742           | 260              | 1       |
| OF       | 15       | 9<br>8   | 87<br>87 | 20201-1011 | 6.031           | 8.42         | 12.06          | 26.1                    | 111.2                  | 8.97                                    | 315                   | 1,342                 | 699           | 245              | 1       |
| OF       | 16       | 13       |          | 111<br>110 | 8.681           | 13.68        | 18.03          | 27.8                    | 113.7                  | 14.28                                   | 501                   | 2,050                 | 1,114         | 391              | 1       |
| OF '     | 17       |          |          | 116        | 10.722          | 18.95        | 24.42          | 30.5                    | 122.0                  | 21.24                                   | 745                   | 2,978                 | 1,657         | 581              | 2       |
| DF       | 18<br>19 | 18<br>17 | 88<br>87 | 121        | 9.088           | 17.89        | 25.13          | 29.8                    | 120.4                  | 21.37                                   | 750                   | 3,026                 | 1,667         | 585              | 2       |
| DF       | 20       | 17       | 88       | 121        | 6.755           | 14.74        | 17.37          | 33.8                    | 138.9                  | 16.73                                   | 587                   | 2,412                 | 1,305         | 458              | 1       |
| DF       | 20       | 8        | 87       | 120        | 3.501           | 8.42         | 10.50          | 34.9                    | 152.9                  | 10.43                                   | 366                   | 1,606                 | 814           | 286              | 1       |
| OF       | 21       | 18       | 87       | 125        | 7.178           | 18.95        | 20.74          | 40.4                    | 179.0                  | 23.85                                   | 837                   | 3,712                 | 1,861         | 653              | 2       |
| DF       | 22       | 17       | 88       | 123        | 6.202           | 17.89        | 18.61          | 42.3                    | 187.3                  | 22.43                                   |                       | 3,484                 | 1,749         | 614              | 2       |
| OF       | 23       | 17       | 87       | 129        | 5.696           | 17.89        | 16.75          | 48.9                    | 218.0                  | 23.35                                   | 819                   | 3,652                 | 1,821         | 639              | 1       |
| DF       | 24       | 3        | 87       | 131        | .926            | 3.16         | 2.78           | 52.2                    | 232.2                  | 4.13                                    | 145                   | 645                   | 322           | 113              |         |
| DF       | 26       | 6        | 86       | 130        | 1.713           | 6.32         | 5.14           | 55.6                    | 243.9                  | 8.14                                    | 286                   | 1,253                 | 635           | 223              |         |
| OF DE    | 27       | 3        | 85       | 132        | .794            | 3.16         | 2.38           | 60.7                    | 266.7                  | 4.12                                    | 145                   | 635                   | · 321         | 113              |         |
| OF       | 28       | 2        | 89       | 132        | .492            | 2.11         | 1.48           | 68.3                    | 330.0                  | 2.87                                    |                       | 487                   | 224           | 79               |         |
| OF       | 28       | 3        | 87       | 119        | .688            | 3.16         | 1.84           | 74.0                    | 318.8                  | 3.87                                    | 136                   | 585                   | 302           | 106              |         |
| DF       | 30       | 2        | 79       | 144        | .429            | 2.11         | 1.29           | 77.2                    | 323.3                  | 2.83                                    |                       | 416                   | 221           | 78               |         |
| DF       | 31       | 1        | 86       | 134        | .201            | 1.05         | .60            | 73.3                    | 343.3                  | 1.26                                    |                       | 207                   | 98            | 34               |         |
| DF<br>DF | 33       | 1        | 80       | 121        | .177            | 1.05         | .53            | 59.0                    | 266.7                  | .89                                     | 31                    | 142                   | 70            | 24               |         |
| DF       | Totals   | 189      | 87       | 105        | 125.645         | 198.95       | 260.67         | 29.9                    | 128.4                  | 222.36                                  | 7,802                 | 33,475                | 17,344        | 6,086            | 2,      |
|          | 18       | 1        | 88       | 124        | .596            | 1.05         | 1.79           | 24.4                    | 100.0                  | 1.05                                    | 44                    | 179                   | 82            | 34               | 5       |
| NF       | 10       | 1        | 84       | 116        | .535            | 1.05         | 1.07           | 38.1                    | 135.0                  | .98                                     |                       | 144                   | 76            | 32               |         |
| NF       | 20       | 1        | 89       | 140        | .482            | 1.05         | 1.45           | 34.5                    | 156.7                  | 1.20                                    |                       | 227                   | 93            | 39               |         |
| NF       | 20       | 1        | 91       | 113        | .399            | 1.05         | 1.20           | 36.1                    | 120.0                  | 1.04                                    |                       | 144                   | 81            | 34               |         |
| NF       | 22       | 3        |          | 124        | 1.094           | 3.16         | 3.28           | 42.4                    | 190.0                  | 3,34                                    | 139                   | 624                   | 260           | 108              |         |
| NF       | 23       | 1        | 1.5      | 121        | .335            | 1.05         | 1.01           | 42.0                    | 166.7                  | 00.05256.05                             |                       | 168                   | 79            | 33               |         |
| NF       | 24       | 1        |          | 150        | .309            | 1.05         | .93            | 58.1                    | 276.7                  | 1.29                                    |                       |                       | 101           | 42               | ii<br>G |
| NF       | 25       | 2        |          | 121        | .50)            | 2.11         | 1.71           | 51.4                    | 215.0                  | 2.11                                    |                       |                       | 165           | 69               | l.      |
| NF       | 20       | 2        |          | 118        | .571            | 2.11         | 1.59           |                         | 241.7                  | 2.21                                    |                       |                       | 172           | 72               | k       |
| NF       | 31       | 2        |          | 118        | .402            | 2.11         | 1.20           | 1 2822,033              | 211.7                  | 10 - 10 Mar                             |                       |                       | 158           | 66               | ŝ       |
| NF<br>NF | 32       | 1        |          | 122        | .188            | 1.05         | .57            | 0.2200.000              | 360.0                  | 1.11                                    |                       | 204                   | 86            | 36               | 0       |
| NF       | 38       | 2        |          | 128        | .267            | 2.11         |                |                         | 548.3                  | 2.33                                    | 97                    | 440                   | 182           | 76               |         |
| NF       | Totals   | 18       | 87       | 124        | 5.708           | 18.95        | 16.59          | 49.4                    | 204.4                  | 19.68                                   | 820                   | 3,392                 | 1,535         | 640              | )       |
| WH       | 15       | 1        | 89       | 93         | .858            | 1.05         | 1.72           | 21.3                    | 90.0                   |   |                       |                       | • 91          | 29               |         |
| WH       | 19       | 1        | 93       | 116        | .535            | 1.05         | 1.60           |                         | 130.0                  |   |                       |                       | 118           | 37               |         |
| WH       | 21       | 1        | 85       | 107        | .438            | 1.05         | .88            |                         | 180.0                  | 1 |                       |                       | 105           | 33               |         |
| WH       | 22       | 1        | 83       | 108        | .399            | 1.05         | .80            |                         | 165.0                  |   |                       |                       | 100           | 31               |         |
| WH       | 24       | 1        | 85       | 108        | .335            | 1.05         | .67            | 62.8                    | 225.0                  | 1.35                                    |                       |                       | 105           | 33               |         |
| WH       | 25       | 1        | 85       | 130        | .309            | 1.05         | .93            | 53.6                    | 230.0                  |   |                       |                       | 124           | 39               |         |
| WH       | 33       | 1        | 85       | 101        | .177            | 1.05         | .35            | 121.3                   | 495.0                  | 1.38                                    | 43                    | 175                   | 107           | 34               |         |
| WH       | Totals   | 7        | 87       | 107        | 3.050           | 7.37         | 6.94           | 43.3                    | 171.6                  | 9.63                                    | 301                   | 1,191                 | 751           | 235              | _       |
| RC       | 19       | 1        | 80       | 86         | .535            | 1.05         | 1.07           | 33.6                    | 90.0                   | .84                                     | 36                    | 96                    | 66            | 28               |         |
| RC       | Totals   | 1        | 80       | 86         | .535            | 1.05         | 1.07           | 33.6                    | 90.0                   | .84                                     | 36                    | 96                    | 66            | 28               |         |
| Totals   |          | 215      | 07       | 106        | 134.937         | 226 32       | 285 27         | 31.4                    | 133.7                  | 252.52                                  | 8.959                 | 38,154                | 19,697        | 6,988            | 2,      |

#### TIMBER SALE SUMMARY Likely Storey Contract No. FG-341-2019-W00543-02

- 1. Location: Portions of Section 14, T2N, R6W, W.M., Washington County, Oregon.
- 2. <u>Type of Sale</u>: This timber sale is 78 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. <u>Revenue Distribution</u>: 100% BOF, Washington County.
- 4. <u>Sale Acreage</u>: Acres are net of green tree retention areas, stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
- 5. <u>Cruise</u>: The Timber Sale was cruised by ODF Cruisers in June of 2018. For more information see Cruise Report.
- 6. <u>Timber Description</u>: The Timber Sale Area consists of an over-stocked 68 year old Douglas-fir stand with minor amounts of western hemlock, western redcedar, true firs, and hardwoods. The stand has an average of 226 ft<sup>2</sup> of basal area of all species, an average Douglas-fir DBH of 17 inches, as well as an estimated average net Douglas-fir volume of approximately 32.8 MBF per acre and 4.5 MBF per acre of white wood, most of which is Noble fir.

| SPECIES         | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-----------------|-------|-------|-------|-------|
| Douglas-fir     | 1,421 | 1,018 | 121   | 2,560 |
| Noble Fir       | 207   | 45    | 7     | 259   |
| Western Hemlock | 66    | 23    | 3     | 92    |
| Total           | 1,694 | 1,086 | 131   | 2,911 |

7. Volume Summary (Shown in MBF)

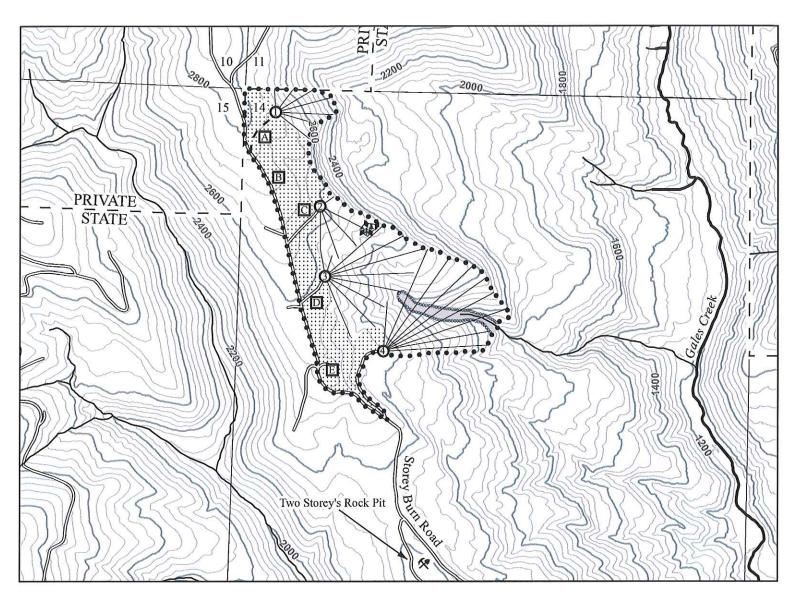
- 8. <u>Topography and Logging Method</u>: Slopes within the sale areas range from 5% to 80%, and variable in aspect. The timber sale is 39% ground-based yarding and 61% cable yarding. The average cable corridor length is 700 feet and the average horizontal skid trail length is approximately 200 feet and the maximum is approximately 800 feet.
- **9.** <u>Access</u>: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel north seven miles on Highway 8 to its junction with Highway 6 and turn left. Continue west on Highway 6 for 9.5 miles to Storey Burn Road. Proceed north on Storey Burn for approximately 4.5 miles to the Timber Sale Area.

#### VOLUME SUMMARY (Shown in MBF) Likely Storey FG-341-2019-W00543-02 July 2019

#### 3 SAW SPECIES 4 SAW TOTAL 2 SAW **Cruise Volume** 1,450 1,039 123 2,612 (2) (52) Hidden D&B (2%) (29) (21) Douglas-fir NET TOTAL 1,421 1,018 121 2,560 % of Total 56 40 5 7 Cruise Volume 211 46 264 Hidden D&B (2%) (1) () (5) (4) Noble Fir **NET TOTAL** 207 45 259 7 % of Total 80 17 3 Cruise Volume 67 23 3 93 Hidden D&B (2%) (2) Western (1)() () 23 3 **NET TOTAL** 66 92 Hemlock % of Total 72 25 3

| SALE TOTAL      |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| SPECIES         | 2 SAW | 3 SAW | 4 SAW | TOTAL |
| Douglas-fir     | 1,421 | 1,018 | 121   | 2,560 |
| Noble Fir       | 207   | 45    | 7     | 259   |
| Western Hemlock | 66    | 23    | 3     | 92    |
| Total           | 1,694 | 1,086 | 131   | 2,911 |

#### Timber Sale Area: MC (78 ACRES)



#### Legend

- •••• Timber Sale Boundary
- ♦ ♦ ♦ Green Tree Retention Boundary
- Stream Buffer Boundary

Green Tree Retention

Stream Buffer

O Cable Landing

Tractor Landing

Cable Yarding Area

Tractor Yarding Area

– – • Non-Project Road

- Fish Stream

------ Non-Fish Stream

\_\_\_\_ ODF Ownership Boundary

Sections

----- 40 ft contours

— 200 ft contours

## LOGGING PLAN

FOR TIMBER SALE CONTRACT FG-341-2019-W00543-02 LIKELY STOREY PORTIONS OF SECTION 14, T2N, R6W, W.M. WASHINTON COUNTY, OREGON

> Forest Grove District GIS June, 2018 This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

| APPROXIMATE NET A | CRES  |
|-------------------|-------|
| TRACTOR           | CABLE |

30

48

Ν

TOTAL

1:12,000 1 inch = 1,000 feet

0 375 750 1,500 2,250 3,000 Feet