



Timber Sale Appraisal  
The Simms  
Sale TL-341-2017-46-

District: Tillamook

Date: January 31, 2017

---

**Cost Summary**

|                         | Conifer        | Hardwood          | Total          |
|-------------------------|----------------|-------------------|----------------|
| Gross Timber Sale Value | \$2,704,937.14 | \$182,674.66      | \$2,887,611.80 |
|                         |                | Project Work:     | (\$591,660.00) |
|                         |                | Advertised Value: | \$2,295,951.80 |



# Timber Sale Appraisal The Simms Sale TL-341-2017-46-

**District: Tillamook**

**Date: January 31, 2017**

## Timber Description

**Location:** Portions of Sections 1, 10, 11, 12, 13, and 14, T2S, R7W and portions of Section 6 and 7, T2S, R6W, W.M., Tillamook County, Oregon.

**Stand Stocking: 20%**

| Specie Name           | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir         | 19     | 0                | 95           |
| Western Hemlock / Fir | 21     | 0                | 95           |
| Noble Fir             | 32     | 0                | 95           |
| Alder (Red)           | 15     | 0                | 95           |

| Volume by Grade       | 2S    | 3S    | 4S  | 8" - 9" | 10" - 11" | 12"+ | 6" - 7" | Total |
|-----------------------|-------|-------|-----|---------|-----------|------|---------|-------|
| Douglas - Fir         | 4,699 | 3,348 | 927 | 0       | 0         | 0    | 0       | 8,974 |
| Western Hemlock / Fir | 0     | 26    | 4   | 0       | 0         | 0    | 0       | 30    |
| Noble Fir             | 41    | 3     | 0   | 0       | 0         | 0    | 0       | 44    |
| Alder (Red)           | 0     | 0     | 0   | 85      | 129       | 226  | 267     | 707   |
| <b>Total</b>          | 4,740 | 3,377 | 931 | 85      | 129       | 226  | 267     | 9,755 |

**Comments:** Pond Values Used: 4th Quarter Calendar Year 2016.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:  
\$845/MBF = \$1,110 - \$265/MBF

Pulp Price (Conifer and Hardwood) = \$25/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):

Snag Creation: 950 snags at \$10/snag = \$9,500

TOTAL Other Costs (with Profit & Risk to be added) = \$9,500

Other Costs (No Profit & Risk added):

Machine Cleaning: \$1,000/machine x 4 = \$4,000

Slash Piling and Sorting (Cable Ground): \$5/acre x 247 acres = \$1,235

Heliport Slash Sorting: 10 hrs. x \$110/hr. = \$1,100

Non-Project Road # 1 Construction: 10 stations x \$250/station = \$2,500

Non-Project Road # 2 Construction: 18 stations x \$150/station = \$2,700

Non-Project Road # 3 Construction: 16 stations x \$150/station = \$2,400

Non-Project Road # 4 Construction: 7 stations x \$250/station = \$1,750

Non-Project Road # 5 Construction: 5 stations x \$250/station = \$1,250

Non-Project Road # 6 Construction: 6 stations x \$250/station = \$1,500

Non-Project Road # 7 Construction: 11 stations x \$250/station = \$2,750

Non-Project Road # 8 Construction: 4 stations x \$250/station = \$1,000

Non-Project Road # 9 Construction: 7 stations x \$250/station = \$1,750

Non-Project Road #10 Construction: 5 stations x \$250/station = \$1,250

Non-Project Road #11 Construction: 10 stations x \$250/station = \$2,500

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two times – dump truck w/tilt bed & small excavator: \$890 x 2 = \$1,780

Small Excavator (Cat 312 or equivalent): 40 hrs. @ \$95/hr = \$3,800

Dump Truck: 40 hrs. @ \$70/hr = \$2,800

TOTAL Other Costs (No Profit & Risk added) = \$36,065

ROAD MAINTENANCE:

Spot rocking: 20cy/mmbf/mile x 9.7 MMBF x \$6.00/cy x 16.8 miles/9,755 MBF = \$2.00/MBF

Interim Grading: \$250/ mile x 16.8 miles x 4 times/9,755 MBF = \$1.72/MBF

Final Maintenance Grading: \$500 x 16.8 miles/9,755 MBF = \$0.86/MBF

Final Maintenance Compaction: \$950/mile x 4 miles/9,755 MBF = \$0.38/MBF

TOTAL Road Maintenance = \$4.96/MBF



Timber Sale Appraisal  
The Simms  
Sale TL-341-2017-46-

District: Tillamook

Date: January 31, 2017

---

**Logging Conditions**

**Combination#: 1**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 52.40% |
| Western Hemlock / Fir | 54.00% |
| Noble Fir             | 60.00% |
| Alder (Red)           | 52.11% |

**Logging System:** Shovel **Process:** Stroke Delimber

**yarding distance:** Medium (800 ft) **downhill yarding:** No

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

**loads / day:** 11 **bd. ft / load:** 3200

**cost / mbf:** \$90.11

**machines:** Stroke Delimber (B)

---

**Combination#: 2**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 27.81% |
| Western Hemlock / Fir | 19.33% |
| Noble Fir             | 20.00% |
| Alder (Red)           | 19.31% |

**Logging System:** Cable: Small Tower <=40 **Process:** Stroke Delimber

**yarding distance:** Medium (800 ft) **downhill yarding:** No

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

**loads / day:** 9 **bd. ft / load:** 3200

**cost / mbf:** \$194.44

**machines:** Log Loader (A)  
Stroke Delimber (A)  
Tower Yarder (Small)

---

**Combination#: 3**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 19.79% |
| Western Hemlock / Fir | 26.67% |
| Noble Fir             | 20.00% |
| Alder (Red)           | 28.59% |

**Logging System:** Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

**yarding distance:** Long (1,500 ft) **downhill yarding:** No

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

**loads / day:** 7 **bd. ft / load:** 3200

**cost / mbf:** \$267.86

**machines:** Log Loader (A)  
Stroke Delimber (A)  
Tower Yarder (Medium)

---



Timber Sale Appraisal  
The Simms  
Sale TL-341-2017-46-

District: Tillamook

Date: January 31, 2017

### Logging Costs

|                             |                               |
|-----------------------------|-------------------------------|
| Operating Seasons: 2.00     | Profit Risk: 10%              |
| Project Costs: \$591,660.00 | Other Costs (P/R): \$9,500.00 |
| Slash Disposal: \$0.00      | Other Costs: \$36,065.00      |

#### Miles of Road

Road Maintenance: \$4.96

| 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       | 3.2        |
| Western Hemlock / Fir | \$0.00   | 3.0       | 3.5        |
| Noble Fir             | \$0.00   | 3.0       | 3.5        |
| Alder (Red)           | \$0.00   | 2.0       | 2.6        |



Timber Sale Appraisal  
The Simms  
Sale TL-341-2017-46-

District: Tillamook

Date: January 31, 2017

**Logging Costs Breakdown**

| Logging                      | Road Maint | Fire Protect | Hauling  | Other P/R appl | Profit & Risk | Slash Disposal | Scaling / Brand & Paint | Other  | Total    |
|------------------------------|------------|--------------|----------|----------------|---------------|----------------|-------------------------|--------|----------|
| <b>Douglas - Fir</b>         |            |              |          |                |               |                |                         |        |          |
| \$154.29                     | \$5.21     | \$0.90       | \$127.96 | \$0.97         | \$28.93       | \$0.00         | \$7.00                  | \$3.70 | \$328.96 |
| <b>Western Hemlock / Fir</b> |            |              |          |                |               |                |                         |        |          |
| \$157.68                     | \$5.21     | \$0.90       | \$78.00  | \$0.97         | \$24.28       | \$0.00         | \$7.00                  | \$3.70 | \$277.74 |
| <b>Noble Fir</b>             |            |              |          |                |               |                |                         |        |          |
| \$146.53                     | \$5.21     | \$0.90       | \$78.00  | \$0.97         | \$23.16       | \$0.00         | \$7.00                  | \$3.70 | \$265.47 |
| <b>Alder (Red)</b>           |            |              |          |                |               |                |                         |        |          |
| \$161.06                     | \$5.21     | \$0.90       | \$157.50 | \$0.97         | \$32.56       | \$0.00         | \$7.00                  | \$3.70 | \$368.90 |

| Specie                | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir         | \$0.00       | \$628.64   | \$299.68 | \$0.00    |
| Western Hemlock / Fir | \$0.00       | \$488.67   | \$210.93 | \$0.00    |
| Noble Fir             | \$0.00       | \$476.40   | \$210.93 | \$0.00    |
| Alder (Red)           | \$0.00       | \$627.28   | \$258.38 | \$0.00    |



Timber Sale Appraisal  
The Simms  
Sale TL-341-2017-46-

District: Tillamook

Date: January 31, 2017

---

**Summary**

**Amortized**

| Specie                | MBF | Value  | Total  |
|-----------------------|-----|--------|--------|
| Douglas - Fir         | 0   | \$0.00 | \$0.00 |
| Western Hemlock / Fir | 0   | \$0.00 | \$0.00 |
| Noble Fir             | 0   | \$0.00 | \$0.00 |
| Alder (Red)           | 0   | \$0.00 | \$0.00 |

**Unamortized**

| Specie                | MBF   | Value    | Total          |
|-----------------------|-------|----------|----------------|
| Douglas - Fir         | 8,974 | \$299.68 | \$2,689,328.32 |
| Western Hemlock / Fir | 30    | \$210.93 | \$6,327.90     |
| Noble Fir             | 44    | \$210.93 | \$9,280.92     |
| Alder (Red)           | 707   | \$258.38 | \$182,674.66   |

**Gross Timber Sale Value**

**Recovery:** \$2,887,611.80

**Prepared By:** Jorge Rios

**Phone:** 503-842-2545



## PROJECT SUMMARY SHEET

Sale: The Simms

### CONSTRUCTION

|                              |        |      |            |                    |
|------------------------------|--------|------|------------|--------------------|
| Point                        | K to L | 6+35 | stations = | \$3,859.66         |
| Point                        | Y to Z | 4+75 | stations = | \$17,093.03        |
| <b>SUBTOTAL CONSTRUCTION</b> |        |      |            | <b>\$20,952.69</b> |

### IMPROVEMENT

|                             |        |        |            |                     |
|-----------------------------|--------|--------|------------|---------------------|
| Point                       | A to B | 19+20  | stations = | \$4,034.24          |
| Point                       | E to F | 47+90  | stations = | \$10,430.65         |
| Point                       | G to H | 141+00 | stations = | \$66,646.65         |
| Point                       | K to L | 16+75  | stations = | \$7,686.16          |
| Point                       | M to N | 34+65  | stations = | \$5,440.31          |
| Point                       | O to P | 19+30  | stations = | \$5,895.91          |
| Point                       | Q to R | 373+70 | stations = | \$202,144.54        |
| Point                       | S to T | 21+70  | stations = | \$7,432.99          |
| Point                       | W to X | 45+50  | stations = | \$99,920.80         |
| <b>SUBTOTAL IMPROVEMENT</b> |        |        |            | <b>\$409,632.25</b> |

### RECONSTRUCTION

|                                |        |       |            |                    |
|--------------------------------|--------|-------|------------|--------------------|
| Point                          | C to D | 15+05 | stations = | \$5,360.64         |
| Point                          | E to F | 4+65  | stations = | \$1,584.54         |
| Point                          | I to J | 32+20 | stations = | \$11,083.64        |
| Point                          | M to N | 16+75 | stations = | \$4,170.27         |
| <b>SUBTOTAL RECONSTRUCTION</b> |        |       |            | <b>\$22,199.09</b> |

### SPECIAL PROJECTS

|                                                 |      |                         |                     |
|-------------------------------------------------|------|-------------------------|---------------------|
| Brush                                           | 37.8 | miles of road Project 6 | \$37,800.00         |
| Construct Stockpile 1 of 2"-0" Rock (Project 3) |      |                         | \$39,928.00         |
| Construct Stockpile 2 of 2"-0" Rock (Project 3) |      |                         | \$53,723.00         |
| <b>SUBTOTAL SPECIAL PROJECTS</b>                |      |                         | <b>\$131,451.00</b> |

**MOVE IN** **\$7,424.97**

**GRAND TOTAL** **\$591,660.00**

|                                                      |               |                   |                      |               |                   |                         |                               |                   |
|------------------------------------------------------|---------------|-------------------|----------------------|---------------|-------------------|-------------------------|-------------------------------|-------------------|
| Sale:                                                |               | <u>The Simms</u>  |                      | Road:         |                   | <u>A to B</u>           |                               |                   |
| <u>Construction -</u>                                | 0+00<br>0.00  | stations<br>miles | <u>Improvement -</u> | 19+20<br>0.36 | stations<br>miles | <u>Reconstruction -</u> | 0+00<br>0.00                  | stations<br>miles |
| <b>IMPROVEMENT:</b> EXCAVATION -                     |               |                   |                      |               |                   |                         |                               |                   |
| Road Earthwork/Ditchout Const.                       |               |                   |                      | 19.20         | sta. @            | \$20.00                 | per sta. =                    | \$384.00          |
|                                                      |               |                   |                      |               |                   |                         | <b>TOTAL EXCAVATION</b>       | <b>\$384.00</b>   |
| <b>ROCK</b>                                          |               |                   |                      |               |                   |                         |                               |                   |
| Spot Rock                                            | 0+00 to 19+20 | 200               | cy. of               | Crushed       | @                 | \$12.64                 | per c.y. =                    | \$2,528.00        |
| Landing Rock                                         | 18+90         | 40                | cy. of               | Crushed       | @                 | \$12.85                 | per c.y. =                    | \$514.00          |
|                                                      |               |                   |                      |               |                   |                         | <b>TOTAL ROCK</b>             | <b>\$3,042.00</b> |
| <b>SPECIAL PROJECTS</b>                              |               |                   |                      |               |                   |                         |                               |                   |
| Grade and shape road -                               |               |                   |                      | 19.20         | stations @        | \$15.50                 | per station                   | \$297.60          |
| Roll subgrade w/ vibratory roller prior to rocking - |               |                   |                      | 19.20         | stations @        | \$13.20                 | per station                   | \$253.44          |
| Grass seed and fertilize -                           |               |                   |                      | 0.26          | acres @           | \$220.00                | per acre                      | \$57.20           |
|                                                      |               |                   |                      |               |                   |                         | <b>TOTAL SPECIAL PROJECTS</b> | <b>\$608.24</b>   |
| <b>GRAND TOTAL</b>                                   |               |                   |                      |               |                   |                         | <b>\$4,034.24</b>             |                   |

SUMMARY OF CONSTRUCTION COST

|                                                      |  |                      |                      |        |                      |                                               |                                      |
|------------------------------------------------------|--|----------------------|----------------------|--------|----------------------|-----------------------------------------------|--------------------------------------|
| Sale:                                                |  | <u>The Simms</u>     |                      | Road:  |                      | <u>C to D</u>                                 |                                      |
| <u>Construction -</u>                                |  | <u>0+00</u> stations | <u>Improvement -</u> |        | <u>0+00</u> stations | <u>Reconstruction -</u> <u>15+05</u> stations |                                      |
|                                                      |  | 0.00 miles           |                      |        | 0.00 miles           | 0.29 miles                                    |                                      |
| <b>RECONSTRUCTION:</b> CLEARING AND GRUBBING -       |  |                      |                      |        |                      |                                               |                                      |
| Scattering                                           |  | 1.310                | acres                | @      | \$980.00             | per acre =                                    | <u>\$1,283.80</u>                    |
|                                                      |  |                      |                      |        |                      | <b>TOTAL CLEARING AND GRUBBING</b>            | <b>\$1,283.80</b>                    |
| <b>RECONSTRUCTION:</b> EXCAVATION -                  |  |                      |                      |        |                      |                                               |                                      |
| Road Earthwork/Ditchout Const.                       |  | 15.05                | sta.                 | @      | \$40.00              | per sta. =                                    | <u>\$602.00</u>                      |
|                                                      |  |                      |                      |        |                      | <b>TOTAL EXCAVATION</b>                       | <b>\$602.00</b>                      |
| <b>ROCK</b>                                          |  |                      |                      |        |                      |                                               |                                      |
| Spot Rock                                            |  | 0+00 to 15+05        | 150                  | cy. of | Crushed              | @                                             | \$12.97 per c.y. = \$1,945.50        |
| Landing Rock                                         |  | 0+00 & 14+75         | 80                   | cy. of | Crushed              | @                                             | \$13.14 per c.y. = <u>\$1,051.20</u> |
|                                                      |  |                      |                      |        |                      | <b>TOTAL ROCK</b>                             | <b>\$2,996.70</b>                    |
| <b>SPECIAL PROJECTS</b>                              |  |                      |                      |        |                      |                                               |                                      |
| Grade and shape road -                               |  | 15.05                | stations             | @      | \$15.50              | per station                                   | \$233.28                             |
| Roll subgrade w/ vibratory roller prior to rocking - |  | 15.05                | stations             | @      | \$13.20              | per station                                   | \$198.66                             |
| Grass seed and fertilize -                           |  | 0.21                 | acres                | @      | \$220.00             | per acre                                      | <u>\$46.20</u>                       |
|                                                      |  |                      |                      |        |                      | <b>TOTAL SPECIAL PROJECTS</b>                 | <b>\$478.14</b>                      |
|                                                      |  |                      |                      |        |                      | <b>GRAND TOTAL</b>                            | <b>\$5,360.64</b>                    |

## SUMMARY OF CONSTRUCTION COST

Sale: The Simms

Road: E to F

|                       |             |          |                      |              |          |                         |             |          |
|-----------------------|-------------|----------|----------------------|--------------|----------|-------------------------|-------------|----------|
| <u>Construction -</u> | <u>0+00</u> | stations | <u>Improvement -</u> | <u>47+90</u> | stations | <u>Reconstruction -</u> | <u>4+65</u> | stations |
|                       | 0.00        | miles    |                      | 0.91         | miles    |                         | 0.09        | miles    |

**IMPROVEMENT:** EXCAVATION -

|                                |       |    |       |        |         |                         |                 |                   |
|--------------------------------|-------|----|-------|--------|---------|-------------------------|-----------------|-------------------|
| Road Earthwork/Ditchout Const. |       |    | 47.90 | sta. @ | \$10.00 | per sta. =              | \$479.00        |                   |
| Road Ditching                  | 12+25 | to | 21+70 |        | 9.45    | sta. @                  | \$60.00         | per sta. =        |
|                                |       |    |       |        |         |                         | <u>\$567.00</u> |                   |
|                                |       |    |       |        |         | <b>TOTAL EXCAVATION</b> |                 | <b>\$1,046.00</b> |

**RECONSTRUCTION:** CLEARING AND GRUBBING -

|            |       |         |                                    |                 |                 |
|------------|-------|---------|------------------------------------|-----------------|-----------------|
| Scattering | 0.450 | acres @ | \$980.00 per acre =                | <u>\$441.00</u> |                 |
|            |       |         | <b>TOTAL CLEARING AND GRUBBING</b> |                 | <b>\$441.00</b> |

**RECONSTRUCTION:** EXCAVATION -

|                |      |        |         |                         |                 |                 |
|----------------|------|--------|---------|-------------------------|-----------------|-----------------|
| Road Earthwork | 4.65 | sta. @ | \$50.00 | per sta. =              | <u>\$232.50</u> |                 |
|                |      |        |         | <b>TOTAL EXCAVATION</b> |                 | <b>\$232.50</b> |

**ROCK**

|               |               |     |        |         |   |                   |                   |                   |
|---------------|---------------|-----|--------|---------|---|-------------------|-------------------|-------------------|
| Spot Rock     | 0+00 to 52+55 | 530 | cy. of | Crushed | @ | \$14.43 per c.y.= | \$7,647.90        |                   |
| Landing Rock  | 52+25         | 40  | cy. of | Crushed | @ | \$15.05 per c.y.= | \$602.00          |                   |
| Junction Rock | 0+00          | 20  | cy. of | Crushed | @ | \$13.79 per c.y.= | \$275.80          |                   |
|               |               |     |        |         |   |                   | <b>TOTAL ROCK</b> | <b>\$8,525.70</b> |

## SPECIAL PROJECTS

|                                                      |       |            |          |                        |                 |                   |
|------------------------------------------------------|-------|------------|----------|------------------------|-----------------|-------------------|
| Grade and shape road -                               | 52.55 | stations @ | \$15.50  | per station            | \$814.53        |                   |
| Roll subgrade w/ vibratory roller prior to rocking - | 52.55 | stations @ | \$13.20  | per station            | \$693.66        |                   |
| Grass seed and fertilize -                           | 1.19  | acres @    | \$220.00 | per acre               | <u>\$261.80</u> |                   |
|                                                      |       |            |          | TOTAL SPECIAL PROJECTS |                 | <b>\$1,769.99</b> |

|                    |                    |
|--------------------|--------------------|
| <b>GRAND TOTAL</b> | <b>\$12,015.19</b> |
|--------------------|--------------------|

## SUMMARY OF CONSTRUCTION COST

Sale:

The Simms

Road:

G to H

|                       |             |                 |                      |               |                 |                         |             |                 |
|-----------------------|-------------|-----------------|----------------------|---------------|-----------------|-------------------------|-------------|-----------------|
| <u>Construction -</u> | <u>0+00</u> | <u>stations</u> | <u>Improvement -</u> | <u>141+00</u> | <u>stations</u> | <u>Reconstruction -</u> | <u>0+00</u> | <u>stations</u> |
|                       | 0.00        | miles           |                      | 2.67          | miles           |                         | 0.00        | miles           |

### IMPROVEMENT: EXCAVATION -

|                         |        |    |        |       |        |         |            |            |                   |
|-------------------------|--------|----|--------|-------|--------|---------|------------|------------|-------------------|
| Road Ditching           | 0+00   | to | 1+80   | 1.80  | sta. @ | \$80.00 | per sta. = | \$144.00   |                   |
| Road Ditching           | 3+50   | to | 61+35  | 57.85 | sta. @ | \$80.00 | per sta. = | \$4,628.00 |                   |
| Road Ditching           | 69+25  | to | 98+70  | 29.45 | sta. @ | \$80.00 | per sta. = | \$2,356.00 |                   |
| Road Ditching           | 105+10 | to | 113+15 | 8.05  | sta. @ | \$80.00 | per sta. = | \$644.00   |                   |
| Road Ditching           | 114+55 | to | 119+00 | 4.45  | sta. @ | \$80.00 | per sta. = | \$356.00   |                   |
| Road Ditching           | 122+00 | to | 141+00 | 19.00 | sta. @ | \$80.00 | per sta. = | \$1,520.00 |                   |
| <b>TOTAL EXCAVATION</b> |        |    |        |       |        |         |            |            | <b>\$9,648.00</b> |

### CULVERTS - MATERIALS & INSTALLATION

#### Culverts

|     |           |                   |
|-----|-----------|-------------------|
| 150 | LF of 18" | \$2,625.00        |
|     |           | <u>\$2,625.00</u> |

#### Culvert Stakes & Markers

|    |         |                |
|----|---------|----------------|
| 11 | markers | \$88.00        |
|    |         | <u>\$88.00</u> |

**TOTAL CULVERTS      \$2,713.00**

### ROCK

|                          |                    |       |        |         |   |                   |             |                    |
|--------------------------|--------------------|-------|--------|---------|---|-------------------|-------------|--------------------|
| 0+00 to                  | 141+00             | 3,150 | cy. of | Crushed | @ | \$15.43 per c.y.= | \$48,604.50 |                    |
| Culvert Backfill/Bedding | Culv. In Exhibit G | 50    | cy. of | Crushed | @ | \$13.98 per c.y.= | \$699.00    |                    |
| Energy Dissipator        | Culv. In Exhibit G | 25    | cy. of | Riprap  | @ | \$6.85 per c.y.=  | \$171.25    |                    |
| <b>TOTAL ROCK</b>        |                    |       |        |         |   |                   |             | <b>\$49,474.75</b> |

### SPECIAL PROJECTS

|                                                      |        |            |          |             |            |                   |
|------------------------------------------------------|--------|------------|----------|-------------|------------|-------------------|
| Grade and shape road -                               | 141.00 | stations @ | \$15.50  | per station | \$2,185.50 |                   |
| Roll subgrade w/ vibratory roller prior to rocking - | 141.00 | stations @ | \$13.20  | per station | \$1,861.20 |                   |
| Grass seed and fertilize -                           | 2.59   | acres @    | \$220.00 | per acre    | \$569.80   |                   |
| Mulching -                                           | 0.324  | acres @    | \$600.00 | per acre    | \$194.40   |                   |
| <b>TOTAL SPECIAL PROJECTS</b>                        |        |            |          |             |            | <b>\$4,810.90</b> |

**GRAND TOTAL      \$66,646.65**

SUMMARY OF CONSTRUCTION COST

|                                                       |               |                  |          |                      |          |                                    |                    |
|-------------------------------------------------------|---------------|------------------|----------|----------------------|----------|------------------------------------|--------------------|
| Sale:                                                 |               | <u>The Simms</u> |          | Road:                |          | <u>I to J</u>                      |                    |
| <u>Construction -</u>                                 |               | <u>0+00</u>      | stations | <u>Improvement -</u> |          | <u>0+00</u>                        | stations           |
|                                                       |               | 0.00             | miles    |                      |          | 0.00                               | miles              |
| <u>Reconstruction -</u>                               |               | <u>32+20</u>     | stations |                      |          | <u>0.61</u>                        | miles              |
|                                                       |               |                  |          |                      |          |                                    |                    |
| <b><u>RECONSTRUCTION:</u></b> CLEARING AND GRUBBING - |               |                  |          |                      |          |                                    |                    |
| Scattering                                            |               | 3.100            | acres    | @                    | \$980.00 | per acre =                         | <u>\$3,038.00</u>  |
|                                                       |               |                  |          |                      |          | <b>TOTAL CLEARING AND GRUBBING</b> | <b>\$3,038.00</b>  |
| <b><u>RECONSTRUCTION:</u></b> EXCAVATION -            |               |                  |          |                      |          |                                    |                    |
| Road Earthwork/Ditchout Const.                        |               | 32.20            | sta.     | @                    | \$40.00  | per sta. =                         | <u>\$1,288.00</u>  |
|                                                       |               |                  |          |                      |          | <b>TOTAL EXCAVATION</b>            | <b>\$1,288.00</b>  |
|                                                       |               |                  |          |                      |          |                                    |                    |
| <b>ROCK</b>                                           |               |                  |          |                      |          |                                    |                    |
| Spot Rock                                             | 0+00 to 32+20 | 330              | cy. of   | Crushed              | @        | \$14.61 per c.y. =                 | \$4,821.30         |
| Landing Rock                                          | 31+90         | 40               | cy. of   | Crushed              | @        | \$14.99 per c.y. =                 | \$599.60           |
| Junction Rock                                         | 0+00          | 20               | cy. of   | Crushed              | @        | \$14.14 per c.y. =                 | <u>\$282.80</u>    |
|                                                       |               |                  |          |                      |          | <b>TOTAL ROCK</b>                  | <b>\$5,703.70</b>  |
|                                                       |               |                  |          |                      |          |                                    |                    |
| <b>SPECIAL PROJECTS</b>                               |               |                  |          |                      |          |                                    |                    |
| Grade and shape road -                                |               | 32.20            | stations | @                    | \$15.50  | per station                        | \$499.10           |
| Roll subgrade w/ vibratory roller prior to rocking -  |               | 32.20            | stations | @                    | \$13.20  | per station                        | \$425.04           |
| Grass seed and fertilize -                            |               | 0.59             | acres    | @                    | \$220.00 | per acre                           | <u>\$129.80</u>    |
|                                                       |               |                  |          |                      |          | <b>TOTAL SPECIAL PROJECTS</b>      | <b>\$1,053.94</b>  |
|                                                       |               |                  |          |                      |          | <b>GRAND TOTAL</b>                 | <b>\$11,083.64</b> |

# SUMMARY OF CONSTRUCTION COST

|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------|-----------------------|-------------------------------------|--------------------------------------------|-------------------------|---------------------|-------------------------------------------|
| Sale: <u>The Simms</u>                                                                                                                     |           |                                           | Road: <u>K to L</u>   |                                     |                                            |                         |                     |                                           |
| <u>Construction -</u>                                                                                                                      |           | <u>6+35</u> stations<br><u>0.12</u> miles | <u>Improvement -</u>  |                                     | <u>16+75</u> stations<br><u>0.32</u> miles | <u>Reconstruction -</u> |                     | <u>0+00</u> stations<br><u>0.00</u> miles |
| <b>CONSTRUCTION:</b> CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA - |           |                                           |                       |                                     |                                            |                         |                     |                                           |
| <u>Station</u>                                                                                                                             | <u>to</u> | <u>Station</u>                            | <u>Avg. Sideslope</u> | <u>Avg. Dist.<br/>To W.A. (mi.)</u> | <u>Outslope/Ditch</u>                      | <u>Cost per Station</u> |                     |                                           |
| 16+25                                                                                                                                      |           | 23+10                                     | 40%                   |                                     | Outslope                                   | \$243                   | =                   | <u>\$1,664.55</u>                         |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>TOTAL</b>                              |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>\$1,664.55</b>                         |
| <b>IMPROVEMENT:</b> CLEARING AND GRUBBING -                                                                                                |           |                                           |                       |                                     |                                            |                         |                     |                                           |
| Scattering                                                                                                                                 |           |                                           |                       |                                     | 1.080                                      | acres @                 | \$980.00 per acre = | <u>\$1,058.40</u>                         |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>TOTAL CLEARING AND GRUBBING</b>        |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>\$1,058.40</b>                         |
| <b>IMPROVEMENT:</b> EXCAVATION -                                                                                                           |           |                                           |                       |                                     |                                            |                         |                     |                                           |
| Road Earthwork/Ditchout Const.                                                                                                             |           |                                           |                       |                                     | 16.75                                      | sta. @                  | \$50.00 per sta. =  | <u>\$837.50</u>                           |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>TOTAL EXCAVATION</b>                   |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>\$837.50</b>                           |
| <b>ROCK</b>                                                                                                                                |           |                                           |                       |                                     |                                            |                         |                     |                                           |
| 16+75                                                                                                                                      | to        | 23+10                                     | 470                   | cy. of                              | Pit-run                                    | @                       | \$8.52 per c.y. =   | \$4,004.40                                |
| Spot Rock                                                                                                                                  |           | 0+00 to 16+75                             | 170                   | cy. of                              | Crushed                                    | @                       | \$15.08 per c.y. =  | \$2,563.60                                |
| Landing Rock                                                                                                                               |           | 22+80                                     | 70                    | cy. of                              | Pit-Run                                    | @                       | \$8.64 per c.y. =   | \$604.80                                  |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>TOTAL ROCK</b>                         |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>\$7,172.80</b>                         |
| <b>SPECIAL PROJECTS</b>                                                                                                                    |           |                                           |                       |                                     |                                            |                         |                     |                                           |
| Grade and shape road -                                                                                                                     |           |                                           |                       |                                     | 23.10                                      | stations @              | \$15.50 per station | \$358.05                                  |
| Roll subgrade w/ vibratory roller prior to rocking -                                                                                       |           |                                           |                       |                                     | 23.10                                      | stations @              | \$13.20 per station | \$304.92                                  |
| Grass seed and fertilize -                                                                                                                 |           |                                           |                       |                                     | 0.68                                       | acres @                 | \$220.00 per acre   | <u>\$149.60</u>                           |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>TOTAL SPECIAL PROJECTS</b>             |
|                                                                                                                                            |           |                                           |                       |                                     |                                            |                         |                     | <b>\$812.57</b>                           |
| <b>GRAND TOTAL</b>                                                                                                                         |           |                                           |                       |                                     |                                            |                         |                     | <b>\$11,545.82</b>                        |

# SUMMARY OF CONSTRUCTION COST

|                                                       |  |                  |          |                      |            |               |             |                                    |                   |              |          |
|-------------------------------------------------------|--|------------------|----------|----------------------|------------|---------------|-------------|------------------------------------|-------------------|--------------|----------|
| Sale:                                                 |  | <u>The Simms</u> |          | Road:                |            | <u>M to N</u> |             |                                    |                   |              |          |
| <u>Construction -</u>                                 |  | <u>0+00</u>      | stations | <u>Improvement -</u> |            | <u>34+65</u>  | stations    | <u>Reconstruction -</u>            |                   | <u>16+75</u> | stations |
|                                                       |  | <u>0.00</u>      | miles    |                      |            | <u>0.66</u>   | miles       |                                    |                   | <u>0.32</u>  | miles    |
| <b><u>IMPROVEMENT:</u></b> EXCAVATION -               |  |                  |          |                      |            |               |             |                                    |                   |              |          |
| Road Earthwork/Ditchout Const.                        |  |                  |          | 34.65                | sta. @     | \$20.00       | per sta. =  | <u>\$693.00</u>                    |                   |              |          |
|                                                       |  |                  |          |                      |            |               |             | <b>TOTAL EXCAVATION</b>            | <b>\$693.00</b>   |              |          |
| <b><u>RECONSTRUCTION:</u></b> CLEARING AND GRUBBING - |  |                  |          |                      |            |               |             |                                    |                   |              |          |
| Scattering                                            |  |                  |          | 1.230                | acres @    | \$980.00      | per acre =  | <u>\$1,205.40</u>                  |                   |              |          |
|                                                       |  |                  |          |                      |            |               |             | <b>TOTAL CLEARING AND GRUBBING</b> | <b>\$1,205.40</b> |              |          |
| <b><u>RECONSTRUCTION:</u></b> EXCAVATION -            |  |                  |          |                      |            |               |             |                                    |                   |              |          |
| Road Earthwork/Ditchout Const.                        |  |                  |          | 16.75                | sta. @     | \$40.00       | per sta. =  | <u>\$670.00</u>                    |                   |              |          |
|                                                       |  |                  |          |                      |            |               |             | <b>TOTAL EXCAVATION</b>            | <b>\$670.00</b>   |              |          |
| <b>ROCK</b>                                           |  |                  |          |                      |            |               |             |                                    |                   |              |          |
| Spot Rock                                             |  | 0+00 to 34+65    | 350      | cy. of               | Crushed    | @             | \$15.12     | per c.y. =                         | <u>\$5,292.00</u> |              |          |
|                                                       |  |                  |          |                      |            |               |             | <b>TOTAL ROCK</b>                  | <b>\$5,292.00</b> |              |          |
| <b>SPECIAL PROJECTS</b>                               |  |                  |          |                      |            |               |             |                                    |                   |              |          |
| Grade and shape road -                                |  |                  |          | 51.40                | stations @ | \$15.50       | per station | \$796.70                           |                   |              |          |
| Roll subgrade w/ vibratory roller prior to rocking -  |  |                  |          | 51.40                | stations @ | \$13.20       | per station | \$678.48                           |                   |              |          |
| Grass seed and fertilize -                            |  |                  |          | 1.25                 | acres @    | \$220.00      | per acre    | <u>\$275.00</u>                    |                   |              |          |
|                                                       |  |                  |          |                      |            |               |             | <b>TOTAL SPECIAL PROJECTS</b>      | <b>\$1,750.18</b> |              |          |
|                                                       |  |                  |          |                      |            |               |             | <b>GRAND TOTAL</b>                 | <b>\$9,610.58</b> |              |          |

| Sale:                                                |               | <u>The Simms</u>  |                      | Road:         |                   | <u>O to P</u>           |                               |                   |
|------------------------------------------------------|---------------|-------------------|----------------------|---------------|-------------------|-------------------------|-------------------------------|-------------------|
| <u>Construction -</u>                                | 0+00<br>0.00  | stations<br>miles | <u>Improvement -</u> | 19+30<br>0.37 | stations<br>miles | <u>Reconstruction -</u> | 0+00<br>0.00                  | stations<br>miles |
| <b>IMPROVEMENT:</b> EXCAVATION -                     |               |                   |                      |               |                   |                         |                               |                   |
| Road Earthwork/Ditchout Const.                       |               |                   |                      | 19.30         | sta. @            | \$30.00                 | per sta. =                    | \$579.00          |
| Road Ditching                                        | 0+00          | to                | 12+50                | 12.50         | sta. @            | \$60.00                 | per sta. =                    | \$750.00          |
|                                                      |               |                   |                      |               |                   |                         | <b>TOTAL EXCAVATION</b>       | <b>\$1,329.00</b> |
| <b>ROCK</b>                                          |               |                   |                      |               |                   |                         |                               |                   |
| Spot Rock                                            | 0+00 to 19+30 | 200               | cy. of               | Crushed       | @                 | \$15.12                 | per c.y. =                    | \$3,024.00        |
| Landing Rock                                         | 19+00         | 40                | cy. of               | Crushed       | @                 | \$15.33                 | per c.y. =                    | \$613.20          |
| Junction Rock                                        | 0+00          | 20                | cy. of               | Crushed       | @                 | \$14.94                 | per c.y. =                    | \$298.80          |
|                                                      |               |                   |                      |               |                   |                         | <b>TOTAL ROCK</b>             | <b>\$3,936.00</b> |
| <b>SPECIAL PROJECTS</b>                              |               |                   |                      |               |                   |                         |                               |                   |
| Grade and shape road -                               |               |                   |                      | 19.30         | stations @        | \$15.50                 | per station                   | \$299.15          |
| Roll subgrade w/ vibratory roller prior to rocking - |               |                   |                      | 19.30         | stations @        | \$13.20                 | per station                   | \$254.76          |
| Grass seed and fertilize -                           |               |                   |                      | 0.35          | acres @           | \$220.00                | per acre                      | \$77.00           |
|                                                      |               |                   |                      |               |                   |                         | <b>TOTAL SPECIAL PROJECTS</b> | <b>\$630.91</b>   |
| <b>GRAND TOTAL</b>                                   |               |                   |                      |               |                   |                         | <b>\$5,895.91</b>             |                   |

## SUMMARY OF CONSTRUCTION COST

Sale:

The Simms

Road:

Q to R

|                       |             |                 |                      |               |                 |                         |             |                 |
|-----------------------|-------------|-----------------|----------------------|---------------|-----------------|-------------------------|-------------|-----------------|
| <u>Construction -</u> | <u>0+00</u> | <u>stations</u> | <u>Improvement -</u> | <u>373+70</u> | <u>stations</u> | <u>Reconstruction -</u> | <u>0+00</u> | <u>stations</u> |
|                       | 0.00        | miles           |                      | 7.08          | miles           |                         | 0.00        | miles           |

### IMPROVEMENT: CLEARING AND GRUBBING -

|                                    |      |  |       |       |         |            |            |                   |
|------------------------------------|------|--|-------|-------|---------|------------|------------|-------------------|
| Clearing                           | 0+00 |  | 60+00 | 3.000 | acres @ | \$1,500.00 | per acre = | \$4,500.00        |
| Scattering                         |      |  |       | 2.570 | acres @ | \$980.00   | per acre = | \$2,518.60        |
| <b>TOTAL CLEARING AND GRUBBING</b> |      |  |       |       |         |            |            | <b>\$7,018.60</b> |

### IMPROVEMENT: EXCAVATION -

|                              |        |    |        |       |        |          |            |                    |
|------------------------------|--------|----|--------|-------|--------|----------|------------|--------------------|
| Road Ditching                | 1+40   | to | 17+60  | 16.20 | sta. @ | \$70.00  | per sta. = | \$1,134.00         |
| Road Ditching (End-haul)     | 17+60  | to | 41+20  | 23.60 | sta. @ | \$100.00 | per sta. = | \$2,360.00         |
| Road Ditching                | 41+20  | to | 74+30  | 33.10 | sta. @ | \$70.00  | per sta. = | \$2,317.00         |
| Road Ditching (End-haul)     | 74+30  | to | 79+25  | 4.95  | sta. @ | \$100.00 | per sta. = | \$495.00           |
| Road Ditching                | 79+25  | to | 99+45  | 20.20 | sta. @ | \$70.00  | per sta. = | \$1,414.00         |
| Road Ditching (End-haul)     | 99+45  | to | 148+35 | 48.90 | sta. @ | \$100.00 | per sta. = | \$4,890.00         |
| Road Ditching                | 148+35 | to | 201+65 | 53.30 | sta. @ | \$70.00  | per sta. = | \$3,731.00         |
| Road Ditching (End-haul)     | 221+75 | to | 230+70 | 8.95  | sta. @ | \$100.00 | per sta. = | \$895.00           |
| Road Ditching                | 241+15 | to | 261+10 | 19.95 | sta. @ | \$70.00  | per sta. = | \$1,396.50         |
| Road Ditching (End-haul)     | 261+10 | to | 268+85 | 7.75  | sta. @ | \$100.00 | per sta. = | \$775.00           |
| Road Ditching                | 268+85 | to | 290+70 | 21.85 | sta. @ | \$70.00  | per sta. = | \$1,529.50         |
| Road Ditching (End-haul)     | 290+70 | to | 301+55 | 10.85 | sta. @ | \$100.00 | per sta. = | \$1,085.00         |
| Road Ditching (w/grader)     | 311+85 | to | 373+70 | 61.85 | sta. @ | \$40.00  | per sta. = | \$2,474.00         |
| Widening (5 Feet)            | 24+35  | to | 27+85  | 750   | cy. @  | \$2.00   | per c.y.=  | \$1,500.00         |
| Pullback & Widening (3 Feet) | 30+85  | to | 33+60  | 2000  | cy. @  | \$2.00   | per c.y.=  | \$4,000.00         |
| Widening (3 Feet)            | 221+75 | to | 227+15 | 1300  | cy. @  | \$1.40   | per c.y.=  | \$1,820.00         |
| <b>TOTAL EXCAVATION</b>      |        |    |        |       |        |          |            | <b>\$31,816.00</b> |

### IMPROVEMENT: ENDHAUL -

|                              |        |    |        |      |       |        |           |                   |
|------------------------------|--------|----|--------|------|-------|--------|-----------|-------------------|
| Widening (5 Feet)            | 24+35  | to | 27+85  | 750  | cy. @ | \$1.82 | per c.y.= | \$1,365.00        |
| Pullback & Widening (3 Feet) | 30+85  | to | 33+60  | 2000 | cy. @ | \$1.63 | per c.y.= | \$3,260.00        |
| Widening (3 Feet)            | 221+75 | to | 227+15 | 1300 | cy. @ | \$2.20 | per c.y.= | \$2,860.00        |
| Spread & compact             |        |    |        | 6050 | cy. @ | \$0.25 | per c.y.= | \$1,512.50        |
| <b>TOTAL ENDHAUL</b>         |        |    |        |      |       |        |           | <b>\$8,997.50</b> |

### CULVERTS - MATERIALS & INSTALLATION

#### Culverts

|    |           |            |     |           |            |
|----|-----------|------------|-----|-----------|------------|
| 70 | LF of 18" | \$1,225.00 | 110 | LF of 24" | \$2,970.00 |
|    |           | \$1,225.00 |     |           | \$2,970.00 |

#### Culvert Stakes & Markers

|           |         |
|-----------|---------|
| 5 markers | \$40.00 |
|           | \$40.00 |

**TOTAL CULVERTS \$4,235.00**

### ROCK

|                          |                    |       |        |         |   |         |           |                     |
|--------------------------|--------------------|-------|--------|---------|---|---------|-----------|---------------------|
| 0+00 to                  | 201+65             | 5,190 | cy. of | Crushed | @ | \$15.60 | per c.y.= | \$80,964.00         |
| 201+65 to                | 373+70             | 3,850 | cy. of | Crushed | @ | \$14.43 | per c.y.= | \$55,555.50         |
| Culvert Backfill/Bedding | Culv. In Exhibit G | 50    | cy. of | Crushed | @ | \$14.04 | per c.y.= | \$702.00            |
| Energy Dissipator        | Culv. In Exhibit G | 25    | cy. of | Riprap  | @ | \$6.71  | per c.y.= | \$167.75            |
| <b>TOTAL ROCK</b>        |                    |       |        |         |   |         |           | <b>\$137,389.25</b> |

### SPECIAL PROJECTS

|                                                      |        |            |          |             |             |
|------------------------------------------------------|--------|------------|----------|-------------|-------------|
| Construct waste areas -                              | 5.00   | hours @    | \$130.00 | per hour    | \$650.00    |
| Grade and shape road -                               | 373.70 | stations @ | \$15.50  | per station | \$5,792.35  |
| Roll subgrade w/ vibratory roller prior to rocking - | 373.70 | stations @ | \$13.20  | per station | \$4,932.84  |
| Grass seed and fertilize -                           | 5.15   | acres @    | \$220.00 | per acre    | \$1,133.00  |
| Mulching -                                           | 0.300  | acres @    | \$600.00 | per acre    | \$180.00    |
| TOTAL SPECIAL PROJECTS                               |        |            |          |             | \$12,688.19 |

**GRAND TOTAL \$202,144.54**

## SUMMARY OF CONSTRUCTION COST

Sale: The Simms

Road: S to T

|                       |             |          |                      |              |          |                         |             |          |
|-----------------------|-------------|----------|----------------------|--------------|----------|-------------------------|-------------|----------|
| <u>Construction -</u> | <u>0+00</u> | stations | <u>Improvement -</u> | <u>21+70</u> | stations | <u>Reconstruction -</u> | <u>0+00</u> | stations |
|                       | 0.00        | miles    |                      | 0.41         | miles    |                         | 0.00        | miles    |

**IMPROVEMENT:** EXCAVATION -

|                          |      |    |       |       |        |         |                         |                 |                 |
|--------------------------|------|----|-------|-------|--------|---------|-------------------------|-----------------|-----------------|
| Road Ditching (w/grader) | 0+00 | to | 21+70 | 21.70 | sta. @ | \$30.00 | per sta. =              | <u>\$651.00</u> |                 |
|                          |      |    |       |       |        |         | <b>TOTAL EXCAVATION</b> |                 | <b>\$651.00</b> |

**ROCK**

|      |    |       |     |        |         |   |                   |                   |                   |
|------|----|-------|-----|--------|---------|---|-------------------|-------------------|-------------------|
| 0+00 | to | 21+70 | 490 | cy. of | Crushed | @ | \$12.48 per c.y.= | <u>\$6,115.20</u> |                   |
|      |    |       |     |        |         |   |                   | <b>TOTAL ROCK</b> | <b>\$6,115.20</b> |

## SPECIAL PROJECTS

|                                                      |       |            |          |             |                               |                 |
|------------------------------------------------------|-------|------------|----------|-------------|-------------------------------|-----------------|
| Grade and shape road -                               | 21.70 | stations @ | \$15.50  | per station | \$336.35                      |                 |
| Roll subgrade w/ vibratory roller prior to rocking - | 21.70 | stations @ | \$13.20  | per station | \$286.44                      |                 |
| Grass seed and fertilize -                           | 0.20  | acres @    | \$220.00 | per acre    | \$44.00                       |                 |
|                                                      |       |            |          |             | <b>TOTAL SPECIAL PROJECTS</b> | <b>\$666.79</b> |

|             |            |
|-------------|------------|
| GRAND TOTAL | \$7,432.99 |
|-------------|------------|

SUMMARY OF CONSTRUCTION COST

|                                                                         |  |           |            |                       |   |                   |             |
|-------------------------------------------------------------------------|--|-----------|------------|-----------------------|---|-------------------|-------------|
| Sale:                                                                   |  | The Simms |            | Road:                 |   | W to X            |             |
| Construction -                                                          |  | 0+00      | stations   | Improvement -         |   | 45+50             | stations    |
|                                                                         |  | 0.00      | miles      |                       |   | 0.86              | miles       |
| Reconstruction -                                                        |  | 0+00      | stations   |                       |   | 0.00              | miles       |
|                                                                         |  |           |            |                       |   |                   |             |
| IMPROVEMENT: CLEARING AND GRUBBING -                                    |  |           |            |                       |   |                   |             |
| Clearing, Grubbing, & Removal @ 43+50                                   |  | 0.500     | acres @    | \$2,500.00 per acre = |   | \$1,250.00        |             |
| TOTAL CLEARING AND GRUBBING                                             |  |           |            |                       |   |                   | \$1,250.00  |
| IMPROVEMENT: EXCAVATION -                                               |  |           |            |                       |   |                   |             |
| Fill Removal, Stream bank sloping, Sill Prep. @ 43+50                   |  | 1500      | cy. @      | \$2.00 per sta. =     |   | \$3,000.00        |             |
| TOTAL EXCAVATION                                                        |  |           |            |                       |   |                   | \$3,000.00  |
| IMPROVEMENT: ENDHAUL -                                                  |  |           |            |                       |   |                   |             |
| Fill Removal, Stream bank sloping, Sill Prep. @ 43+50                   |  | 1500      | cy. @      | \$2.32 per c.y.=      |   | \$3,480.00        |             |
| Spread & compact                                                        |  | 1500      | cy. @      | \$0.25 per c.y.=      |   | \$375.00          |             |
| TOTAL ENDHAUL                                                           |  |           |            |                       |   |                   | \$3,855.00  |
| ROCK                                                                    |  |           |            |                       |   |                   |             |
| Bridge Surfacing                                                        |  | 43+50     | 40 cy. of  | Crushed               | @ | \$24.45 per c.y.= | \$978.00    |
| Bedding for Sill Found.                                                 |  | 43+50     | 20 cy. of  | Crushed               | @ | \$25.00 per c.y.= | \$500.00    |
| Fill Armor                                                              |  | 43+50     | 150 cy. of | Riprap                | @ | \$40.48 per c.y.= | \$6,072.00  |
| Fill Armor                                                              |  | 0+50      | 80 cy. of  | Riprap                | @ | \$45.03 per c.y.= | \$3,602.40  |
| TOTAL ROCK                                                              |  |           |            |                       |   |                   | \$11,152.40 |
| SPECIAL PROJECTS                                                        |  |           |            |                       |   |                   |             |
| Move-In @ Minich Creek Rd. (2 Excavators & Trucks)                      |  | 1.00      | lump sum @ | \$1,700.00            |   | \$1,700.00        |             |
| 16'x60' Weathering Steel Bridge w/Precast Sills & Other Req. Hardware - |  | 1.00      | lump sum @ | \$67,505.00           |   | \$67,505.00       |             |
| 24' Galvanized Backwall -                                               |  | 1.00      | lump sum @ | \$2,600.00            |   | \$2,600.00        |             |
| Engineering Services (site survey, designs, inspections) -              |  | 1.00      | lump sum @ | \$5,000.00            |   | \$5,000.00        |             |
| Installation w/2 Excavators -                                           |  | 8.00      | hours @    | \$300.00 per hour     |   | \$2,400.00        |             |
| Installation Geneal Labor (2) -                                         |  | 8.00      | hours @    | \$80.00 per hour      |   | \$640.00          |             |
| Grade and shape road -                                                  |  | 1.00      | stations @ | \$15.50 per station   |   | \$15.50           |             |
| Remove culverts from state lands                                        |  | 1.00      | @          | \$392.90 total        |   | \$392.90          |             |
| Grass seed and fertilize -                                              |  | 0.50      | acres @    | \$220.00 per acre     |   | \$110.00          |             |
| Mulching -                                                              |  | 0.500     | acres @    | \$600.00 per acre     |   | \$300.00          |             |
| TOTAL SPECIAL PROJECTS                                                  |  |           |            |                       |   |                   | \$80,663.40 |
| GRAND TOTAL                                                             |  |           |            |                       |   |                   | \$99,920.80 |

## SUMMARY OF CONSTRUCTION COST

Sale:

The Simms

Road:

Y to Z

|                       |             |          |                      |             |          |                         |             |          |
|-----------------------|-------------|----------|----------------------|-------------|----------|-------------------------|-------------|----------|
| <u>Construction -</u> | <u>4+75</u> | stations | <u>Improvement -</u> | <u>0+00</u> | stations | <u>Reconstruction -</u> | <u>0+00</u> | stations |
|                       | 0.09        | miles    |                      | 0.00        | miles    |                         | 0.00        | miles    |

**CONSTRUCTION:** CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

| <u>Station</u> | <u>to</u> | <u>Station</u> | <u>Avg. Sideslope</u><br><u>or Activity</u> | <u>Avg. Dist.</u><br><u>To W.A. (mi.)</u> | <u>Outslope/Ditch</u> | <u>Cost per Station</u> |   |                   |
|----------------|-----------|----------------|---------------------------------------------|-------------------------------------------|-----------------------|-------------------------|---|-------------------|
| 0+00           |           | 0+60           | 50%                                         |                                           | Outslope              | \$459                   | = | \$275.40          |
| 0+60           |           | 1+95           | 40%                                         |                                           | Outslope              | \$243                   | = | \$328.05          |
| 1+95           |           | 3+50           | Const. Extra Wdth.                          |                                           | Outslope              | \$500                   | = | \$775.00          |
| 3+50           |           | 4+75           | 30%                                         |                                           | Outslope              | \$191                   | = | \$238.75          |
|                |           |                |                                             |                                           |                       |                         |   | <u>TOTAL</u>      |
|                |           |                |                                             |                                           |                       |                         |   | <b>\$1,617.20</b> |

### CULVERTS - MATERIALS & INSTALLATION

#### Culverts

|    |           |                 |
|----|-----------|-----------------|
| 40 | LF of 18" | \$700.00        |
|    |           | <u>\$700.00</u> |

#### Culvert Stakes & Markers

|   |         |               |
|---|---------|---------------|
| 1 | markers | \$8.00        |
|   |         | <u>\$8.00</u> |

**TOTAL CULVERTS      \$708.00**

### ROCK

|                          |    |      |     |        |         |   |                  |                    |
|--------------------------|----|------|-----|--------|---------|---|------------------|--------------------|
| 0+00                     | to | 4+75 | 360 | cy. of | Pit-Run | @ | \$8.74 per c.y.= | \$3,146.40         |
| Culvert Backfill/Bedding |    |      | 20  | cy. of | Crushed | @ | \$7.74 per c.y.= | \$154.80           |
| Extra Surface Width      |    |      | 120 | cy. of | Pit-Run | @ | \$8.74 per c.y.= | \$1,048.80         |
| Stock. Pad 120' x 120'   |    |      | 700 | cy. of | Pit-Run | @ | \$8.74 per c.y.= | \$6,118.00         |
| Junction Rock            |    |      | 70  | cy. of | Pit-Run | @ | \$8.74 per c.y.= | \$611.80           |
| Energy Dissipator        |    |      | 5   | cy. of | Riprap  | @ | \$6.66 per c.y.= | \$33.30            |
|                          |    |      |     |        |         |   |                  | <u>TOTAL ROCK</u>  |
|                          |    |      |     |        |         |   |                  | <b>\$11,113.10</b> |

### SPECIAL PROJECTS

|                                                      |       |            |            |             |                               |
|------------------------------------------------------|-------|------------|------------|-------------|-------------------------------|
| Construct 120' x 120' Stockpile Pad @ 1+95 to 3+50   | 16.00 | hours @    | \$130.00   | per hour    | \$2,080.00                    |
| Construct waste areas & pile debris/stumps -         | 3.00  | hours @    | \$130.00   | per hour    | \$390.00                      |
| Move-In @ N.F. Trask Rd. (Excavator & D7 Cat) -      | 1.00  | lump sum @ | \$1,000.00 |             | \$1,000.00                    |
| Grade and shape road -                               | 4.75  | stations @ | \$15.50    | per station | \$73.63                       |
| Roll subgrade w/ vibratory roller prior to rocking - | 4.75  | stations @ | \$13.20    | per station | \$62.70                       |
| Grass seed and fertilize -                           | 0.22  | acres @    | \$220.00   | per acre    | \$48.40                       |
|                                                      |       |            |            |             | <u>TOTAL SPECIAL PROJECTS</u> |
|                                                      |       |            |            |             | <b>\$3,654.73</b>             |

**GRAND TOTAL      \$17,093.03**

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

|             |                  |                    |                                |
|-------------|------------------|--------------------|--------------------------------|
| Pit:        | Pit-Run Pit      | Location:          | SE 1/4 Sec. 20, T1S, R7W, W.M. |
| Sale:       | <b>The Simms</b> | Y to Z             | 1275 c.y.                      |
| Swell:      | 1.40             |                    | c.y.                           |
| Shrinkage   | 1.16             | Total Truck Loads: | 1275 c.y.                      |
| Drill Pct.: | 0%               | In Place Total:    | 911 c.y.                       |

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$1,000.00

|                  |                |   |              |   |            |
|------------------|----------------|---|--------------|---|------------|
| Rip Rock:        | \$2.10 /cu.yd. | x | 911 cu.yds.  | = | \$1,913.10 |
| Load Dump Truck: | \$0.70 /cu.yd. | x | 1275 cu.yds. | = | \$892.50   |

Subtotal \$3,805.60

|                   |   |   |          |   |          |
|-------------------|---|---|----------|---|----------|
| Move in Excavator | 1 | @ | \$500.00 | = | \$500.00 |
| Move in Trucks    | 1 | @ | \$293.14 | = | \$293.14 |

Subtotal \$793.14

Base Cost= \$3.61 Per Cu.Yd.

|                        |            |
|------------------------|------------|
| TOTAL PRODUCTION COSTS | \$4,598.74 |
|------------------------|------------|

| Road Segment                              | Haul Cost<br>\$/cu.yd. | Proc Cost<br>\$/cu.yd. | Base Cost.<br>\$/cu.yd. | Cost<br>\$/cu.yd. | Number<br>Cu. Yds | ROCK<br>COST |
|-------------------------------------------|------------------------|------------------------|-------------------------|-------------------|-------------------|--------------|
| Y to Z 0 475 (Pit-Run)                    | 3.13                   | 2.00                   | 3.61                    | 8.74              | 360               | \$3,146.40   |
| Y to Z Culvert Backfill/Bedding (Crushed) | 3.13                   | 1.00                   | 3.61                    | 7.74              | 20                | \$154.80     |
| Y to Z Extra Surface Width (Pit-Run)      | 3.13                   | 2.00                   | 3.61                    | 8.74              | 120               | \$1,048.80   |
| Y to Z Stock. Pad 120' x 120' (Pit-Run)   | 3.13                   | 2.00                   | 3.61                    | 8.74              | 700               | \$6,118.00   |
| Y to Z Junction Rock (Pit-Run)            | 3.13                   | 2.00                   | 3.61                    | 8.74              | 70                | \$611.80     |
| Y to Z Energy Dissipator (Riprap)         | 2.76                   | 1.40                   | 2.50                    | 6.66              | 5                 | \$33.30      |
|                                           |                        |                        |                         | Total C.Y.        | 1275              | Sub Total    |
|                                           |                        |                        |                         |                   |                   | \$11,113.10  |

|                     |             |
|---------------------|-------------|
| TOTAL ROCKING COSTS | \$11,113.10 |
|---------------------|-------------|

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

|       |                  |                    |                                |
|-------|------------------|--------------------|--------------------------------|
| Pit:  | Riprap           | Location:          | NE 1/4 Sec. 11, T1S, R8W, W.M. |
| Sale: | <b>The Simms</b> | W to X Riprap:     | 230 c.y.                       |
|       |                  |                    | c.y.                           |
|       |                  | Total Truck Loads: | 230 c.y.                       |

|                  |        |         |   |             |   |          |
|------------------|--------|---------|---|-------------|---|----------|
| Load Dump Truck: | \$0.70 | /cu.yd. | x | 230 cu.yds. | = | \$161.00 |
|------------------|--------|---------|---|-------------|---|----------|

|  |          |          |
|--|----------|----------|
|  | Subtotal | \$161.00 |
|--|----------|----------|

|                   |   |   |          |   |          |
|-------------------|---|---|----------|---|----------|
| Move in Excavator | 1 | @ | \$500.00 | = | \$500.00 |
| Move in Trucks    | 1 | @ | \$293.14 | = | \$293.14 |

|  |          |          |
|--|----------|----------|
|  | Subtotal | \$793.14 |
|--|----------|----------|

|            |        |            |
|------------|--------|------------|
| Base Cost= | \$4.15 | Per Cu.Yd. |
|------------|--------|------------|

|  |                        |          |
|--|------------------------|----------|
|  | TOTAL PRODUCTION COSTS | \$954.14 |
|--|------------------------|----------|

| Road Segment                             | Haul Cost<br>\$/cu.yd. | Proc Cost<br>\$/cu.yd. | Base Cost.<br>\$/cu.yd. | Cost<br>\$/cu.yd. | Number<br>Cu. Yds |                   | ROCK<br>COST |
|------------------------------------------|------------------------|------------------------|-------------------------|-------------------|-------------------|-------------------|--------------|
| W to X Bridge Surfacing (Crushed)        | 10.00                  | 2.45                   | 12.00                   | 24.45             | 40                | Commercial Source | \$978.00     |
| W to X Bedding for Sill Found. (Crushed) | 10.00                  | 3.00                   | 12.00                   | 25.00             | 20                | Commercial Source | \$500.00     |
| W to X Fill Armor (Riprap)               | 21.33                  | 15.00                  | 4.15                    | 40.48             | 150               |                   | \$6,072.00   |
| W to X Fill Armor (Riprap)               | 20.88                  | 20.00                  | 4.15                    | 45.03             | 80                |                   | \$3,602.40   |
|                                          |                        |                        |                         | Total C.Y.        | 290               | Sub Total         | \$11,152.40  |

|  |                     |             |
|--|---------------------|-------------|
|  | TOTAL ROCKING COSTS | \$11,152.40 |
|--|---------------------|-------------|

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

|             |                  |                    |                                |
|-------------|------------------|--------------------|--------------------------------|
| Pit:        | Toll             | Location:          | NE 1/4 Sec. 16, T2S, R7W, W.M. |
| Sale:       | <b>The Simms</b> | Road:              | 9605 c.y.                      |
| Swell:      | 1.40             |                    |                                |
| Shrinkage   | 1.16             | Total Truck Loads: | 9605 c.y.                      |
| Drill Pct.: | 100%             | In Place Total:    | 6861 c.y.                      |

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$3,500.00

|                     |        |         |   |              |   |             |
|---------------------|--------|---------|---|--------------|---|-------------|
| Drill & Shoot:      | \$2.50 | /cu.yd. | x | 6861 cu.yds. | = | \$17,152.50 |
| Push Rock:          | \$0.70 | /cu.yd. | x | 9605 cu.yds. | = | \$6,723.50  |
| Load Crusher:       | \$0.70 | /cu.yd. | x | 9605 cu.yds. | = | \$6,723.50  |
| Crush Rock:         | \$3.00 | /cu.yd. | x | 9605 cu.yds. | = | \$28,815.00 |
| Load Dump Truck:    | \$0.70 | /cu.yd. | x | 9605 cu.yds. | = | \$6,723.50  |
| Oversize Reduction: | \$4.50 | /cu.yd. | x | 961 cu.yds.  | = | \$4,324.50  |

Subtotal \$73,962.50

|                                         |   |   |            |   |  |            |
|-----------------------------------------|---|---|------------|---|--|------------|
| Move In/Set-up Crusher                  |   |   |            |   |  | \$3,000.00 |
| Move In and set up Drill and Compressor | 1 | @ | \$868.25   | = |  | \$868.25   |
| Move in Roller and Compactor            | 1 | @ | \$868.25   | = |  | \$868.25   |
| Move in Grader                          | 1 | @ | \$233.60   | = |  | \$233.60   |
| Move in D-8                             | 1 | @ | \$1,241.67 | = |  | \$1,241.67 |
| Move in Loader                          | 1 | @ | \$1,071.23 | = |  | \$1,071.23 |
| Move in Excavator                       | 1 | @ | \$1,369.16 | = |  | \$1,369.16 |
| Move in Trucks                          | 3 | @ | \$293.14   | = |  | \$879.42   |
| Move in Water Truck                     | 1 | @ | \$344.57   | = |  | \$344.57   |
| Change Gradation                        |   |   |            |   |  |            |

Subtotal \$9,876.15

Base Cost= \$8.73 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$83,838.65

| Road Segment                              | Haul Cost<br>\$/cu.yd. | Proc Cost<br>\$/cu.yd. | Base Cost.<br>\$/cu.yd. | Cost<br>\$/cu.yd. | Number<br>Cu. Yds | ROCK<br>COST                                                                |
|-------------------------------------------|------------------------|------------------------|-------------------------|-------------------|-------------------|-----------------------------------------------------------------------------|
| Q to R 0 20165 (Crushed)                  | 4.42                   | 2.45                   | 8.73                    | 15.60             | 5190              | \$80,964.00                                                                 |
| Q to R 20165 37370 (Crushed)              | 3.25                   | 2.45                   | 8.73                    | 14.43             | 3850              | \$55,555.50                                                                 |
| Q to R Culvert Backfill/Bedding (Crushed) | 4.31                   | 1.00                   | 8.73                    | 14.04             | 50                | \$702.00                                                                    |
| Q to R Energy Dissipator (Riprap)         | 4.31                   | 1.40                   | 1.00                    | 6.71              | 25                | \$167.75                                                                    |
| S to T 0 2170 (Crushed)                   | 1.30                   | 2.45                   | 8.73                    | 12.48             | 490               | \$6,115.20                                                                  |
|                                           |                        |                        |                         | Total C.Y.        | 9605              | Sub Total <span style="border-bottom: 1px solid black;">\$143,504.45</span> |

TOTAL ROCKING COSTS \$143,504.45

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

|             |                  |                    |                                      |
|-------------|------------------|--------------------|--------------------------------------|
| Pit:        | Cruiser_Creek    | Location:          | SW 1/4 SE 1/4 Sec. 1, T2S, R7W, W.M. |
| Sale:       | <b>The Simms</b> | Road & Stockpile   | 12195 c.y.                           |
| Swell:      | 1.40             |                    | c.y.                                 |
| Shrinkage   | 1.16             | Total Truck Loads: | 12195 c.y.                           |
| Drill Pct.: | 100%             | In Place Total:    | 8711 c.y.                            |

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$5,000.00

|                     |                |   |               |   |             |
|---------------------|----------------|---|---------------|---|-------------|
| Drill & Shoot:      | \$2.50 /cu.yd. | x | 8711 cu.yds.  | = | \$21,777.50 |
| Push Rock:          | \$0.70 /cu.yd. | x | 12195 cu.yds. | = | \$8,536.50  |
| Load Crusher:       | \$0.70 /cu.yd. | x | 12195 cu.yds. | = | \$8,536.50  |
| Crush Rock:         | \$3.00 /cu.yd. | x | 12195 cu.yds. | = | \$36,585.00 |
| Load Dump Truck:    | \$0.70 /cu.yd. | x | 12195 cu.yds. | = | \$8,536.50  |
| Oversize Reduction: | \$4.50 /cu.yd. | x | 1220 cu.yds.  | = | \$5,490.00  |

Subtotal \$94,462.00

|                                         |   |   |            |   |            |
|-----------------------------------------|---|---|------------|---|------------|
| Move In/Set-up Crusher                  |   |   |            |   | \$3,000.00 |
| Move In and set up Drill and Compressor | 1 | @ | \$868.25   | = | \$868.25   |
| Move in Roller and Compactor            | 1 | @ | \$868.25   | = | \$868.25   |
| Move in Grader                          | 1 | @ | \$233.60   | = | \$233.60   |
| Move in D-8                             | 1 | @ | \$1,241.67 | = | \$1,241.67 |
| Move in Loader                          | 1 | @ | \$1,071.23 | = | \$1,071.23 |
| Move in Excavator                       | 1 | @ | \$1,369.16 | = | \$1,369.16 |
| Move in Trucks                          | 3 | @ | \$293.14   | = | \$879.42   |
| Change Gradation                        |   |   |            |   |            |

Subtotal \$9,531.58

**TOTAL PRODUCTION COSTS \$103,993.58**

Base Cost= \$8.53 Per Cu.Yd.

| Road Segment                              | Haul Cost<br>\$/cu.yd. | Proc Cost<br>\$/cu.yd. | Base Cost.<br>\$/cu.yd. | Cost<br>\$/cu.yd. | Number<br>Cu. Yds | ROCK<br>COST                                                                       |
|-------------------------------------------|------------------------|------------------------|-------------------------|-------------------|-------------------|------------------------------------------------------------------------------------|
| A to B Spot Rock (Crushed)                | 1.66                   | 2.45                   | 8.53                    | 12.64             | 200               | \$2,528.00                                                                         |
| A to B Landing Rock (Crushed)             | 1.87                   | 2.45                   | 8.53                    | 12.85             | 40                | \$514.00                                                                           |
| C to D Spot Rock (Crushed)                | 1.99                   | 2.45                   | 8.53                    | 12.97             | 150               | \$1,945.50                                                                         |
| C to D Landing Rock (Crushed)             | 2.16                   | 2.45                   | 8.53                    | 13.14             | 80                | \$1,051.20                                                                         |
| E to F Spot Rock (Crushed)                | 3.45                   | 2.45                   | 8.53                    | 14.43             | 530               | \$7,647.90                                                                         |
| E to F Landing Rock (Crushed)             | 4.07                   | 2.45                   | 8.53                    | 15.05             | 40                | \$602.00                                                                           |
| E to F Junction Rock (Crushed)            | 2.81                   | 2.45                   | 8.53                    | 13.79             | 20                | \$275.80                                                                           |
| G to H 0 14100 (Crushed)                  | 4.45                   | 2.45                   | 8.53                    | 15.43             | 3150              | \$48,604.50                                                                        |
| G to H Culvert Backfill/Bedding (Crushed) | 4.45                   | 1.00                   | 8.53                    | 13.98             | 50                | \$699.00                                                                           |
| G to H Energy Dissipator (Riprap)         | 4.45                   | 1.40                   | 1.00                    | 6.85              | 25                | \$171.25                                                                           |
| I to J Spot Rock (Crushed)                | 3.63                   | 2.45                   | 8.53                    | 14.61             | 330               | \$4,821.30                                                                         |
| I to J Landing Rock (Crushed)             | 4.01                   | 2.45                   | 8.53                    | 14.99             | 40                | \$599.60                                                                           |
| I to J Junction Rock (Crushed)            | 3.16                   | 2.45                   | 8.53                    | 14.14             | 20                | \$282.80                                                                           |
| K to L 1675 2310 (Pit-run)                | 4.33                   | 1.20                   | 2.99                    | 8.52              | 470               | \$4,004.40                                                                         |
| K to L Spot Rock (Crushed)                | 4.10                   | 2.45                   | 8.53                    | 15.08             | 170               | \$2,563.60                                                                         |
| K to L Landing Rock (Pit-Run)             | 4.45                   | 1.20                   | 2.99                    | 8.64              | 70                | \$604.80                                                                           |
| M to N Spot Rock (Crushed)                | 4.14                   | 2.45                   | 8.53                    | 15.12             | 350               | \$5,292.00                                                                         |
| O to P Spot Rock (Crushed)                | 4.14                   | 2.45                   | 8.53                    | 15.12             | 200               | \$3,024.00                                                                         |
| O to P Landing Rock (Crushed)             | 4.35                   | 2.45                   | 8.53                    | 15.33             | 40                | \$613.20                                                                           |
| O to P Junction Rock (Crushed)            | 3.96                   | 2.45                   | 8.53                    | 14.94             | 20                | \$298.80                                                                           |
| 2"-0" Stockpile @ Stockpile Site 2        | 7.70                   | 1.10                   | 8.53                    | 17.33             | 3100              | \$53,723.00                                                                        |
| 2"-0" Stockpile @ Stockpile Site 1        | 3.25                   | 1.10                   | 8.53                    | 12.88             | 3100              | \$39,928.00                                                                        |
|                                           |                        |                        |                         |                   | Total C.Y. 12195  | Sub Total <span style="border: 1px solid black; padding: 2px;">\$179,794.65</span> |

**TOTAL ROCKING COSTS \$179,794.65**

## Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: The Simms

| LOWBOY HAUL (Round Trip) |              |                 |
|--------------------------|--------------|-----------------|
| DIST. (mi)               | ROADWAY      | AVE SPEED (mph) |
| 30.0                     | Pavement     | 30              |
| 24.0                     | Main Lines   | 7               |
| 5.0                      | Steep Grades | 2               |

| No. | EQUIPMENT DESCRIPTION  | Move in Cost | Pilot Cars | Within Area Move (\$/mile) | Begin Mileage | End Mileage | Total Miles | Within Area Cost | Total Cost |
|-----|------------------------|--------------|------------|----------------------------|---------------|-------------|-------------|------------------|------------|
| 1   | Excavators (Small)     | \$868.25     |            | \$22.00                    | 0.00          | 4.00        | 4           | \$88.00          | \$956.25   |
| 1   | Excavators (Large)     | \$1,392.16   | 1          | \$44.80                    | 0.00          | 4.00        | 4           | \$179.20         | \$1,571.36 |
| 1   | Tractors (D7)          | \$1,200.03   | 2          | \$11.30                    | 0.00          | 4.00        | 4           | \$45.20          | \$1,245.23 |
| 1   | Tractor (D8)           | \$1,287.67   | 2          | \$15.10                    | 0.00          | 4.00        | 4           | \$60.40          | \$1,348.07 |
| 2   | Dump Truck (10 cy +)   | \$824.39     |            | \$2.85                     | 0.00          | 4.00        | 4           | \$22.80          | \$847.19   |
| 1   | Dump Truck (Off Hiway) | \$1,133.33   | 1          | \$4.75                     | 0.00          | 4.00        | 4           | \$19.00          | \$1,152.33 |
| 1   | Water Truck (1500 Gal) | \$293.14     |            | \$2.85                     | 0.00          | 4.00        | 4           | \$11.40          | \$304.54   |
|     |                        |              |            | TOTAL MOVE-IN COSTS:       |               |             |             |                  | \$7,424.97 |



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

### *The Simms*

#### 1. Type of Sale

Regeneration harvest, Recovery

#### 2. Legal Description

Portions of Sections 1, 10, 11, 12, 13, and 14, T2S, R7W and a Portions of Sections 6 and 7, T2S, R6W, W.M., Tillamook County.

#### 3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

| ACRES                      |              |            |
|----------------------------|--------------|------------|
|                            | <u>Gross</u> | <u>Net</u> |
| Area 1 (Modified Clearcut) | 126          | 108        |
| Area 2 (Modified Clearcut) | 130          | 104        |
| Area 3 (Modified Clearcut) | 119          | 96         |
| Area 4 (Modified Clearcut) | 131          | 107        |
| Area 5 (Modified Clearcut) | 154          | 106        |

##### Gross Acres

Area within the Timber Sale Boundary signs

##### Net acres

*Used for calculating the advertised volume.*

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

#### 4. Cruising Procedures

##### **A. Cruise Method**

The timber sale areas were cruised using variable plot sampling. Plot and line spacing was 350' and 700' respectively with plot lines laid out on different azimuths for each of the units to provide uniform coverage. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded. Species, DBH (to the nearest inch), merchantable bole length (to the nearest foot), form factor, and defect were recorded on all trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

##### **B. Plot size**

All areas were cruised using a 27.78 BAF. Point of tree observation was 04'.

### C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

### 5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock tables, and stand tables for each species and type.

Net sale acreage was used for volume calculation. Net acreage is the gross acreage (the area within the posted sale boundary) minus the posted buffer areas and roads.

The cruise data was grown forward with adjustments made for the reduced growth effects of Swiss Needle Cast. Areas 1, 2, and 4 were cruised in 2015. Area 3 was cruised in 2016 and Area 5 was cruised in 2010. Area 5 was grown forward to June, 2016.

| Cruise Statistics (Board Foot Volumes) |                 |        |        |
|----------------------------------------|-----------------|--------|--------|
| Area                                   | Number of Plots | SE (%) | CV (%) |
| 1                                      | 16              | 11.9   | 46.1   |
| 2                                      | 14              | 12.3   | 44.4   |
| 3                                      | 18              | 8.0    | 32.8   |
| 4                                      | 20              | 10.4   | 45.2   |
| 5                                      | 20              | 8.9    | 38.9   |
| Total                                  | 88              | 4.6    | 43.4   |

### 6. Hidden Defect and Breakage

A 1% reduction was applied to conifers and a 2% reduction to hardwood volumes for hidden defect and breakage.

### 7. Timber Description

All areas were burned in the 1933 Tillamook Fire. Area 5 also burned in the 1951 North Fork Fire. All areas were planted in 1951-1952. Areas 1, 2, 3, and 4 were commercially thinned in 2002 (Murphy Simmons Thin). Area 5 was thinned in 1994 (Gobbler's Thin).

| Sale Area | Species     | DBH  | Merchantable<br>Bole Height (feet) | Merchantable top<br>(inches inside bark) |
|-----------|-------------|------|------------------------------------|------------------------------------------|
| 1         | Douglas-fir | 17.7 | 65                                 | 5                                        |
|           | Red alder   | 14.7 | 34                                 | 6                                        |
| 2         | Douglas-fir | 20.1 | 68                                 | 5                                        |
|           | Red alder   | 12.9 | 33                                 | 6                                        |

|   |             |      |    |   |
|---|-------------|------|----|---|
| 3 | Douglas-fir | 20.6 | 79 | 5 |
|   | Red alder   | 16.3 | 51 | 6 |
| 4 | Douglas-fir | 18.8 | 61 | 5 |
|   | Red alder   | 17.0 | 40 | 6 |
| 5 | Douglas-fir | 18.2 | 88 | 5 |
|   | Red alder   | 11.3 | 31 | 6 |

*Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury Consultants, Inc.*

## **8. Cruise Dates**

Areas 1, 2, and 4 were contract cruised in 2015. Area 5 was contract cruised in 2011. Area 3 was cruised by district personnel in 2016.

## **9. Revenue Distribution**

FDF 100%

Tax Code: 9-1

Deed Number: 168 and 169

## **10. Attachments**

Volume summaries

Stand Table

Log Stock Tables

Logging Plan Map

## **11. Stand and Log Stock Tables Species Key**

DF – Douglas-fir

RA – Red alder

NF – Noble fir

SS – Sitka spruce

WH – Western hemlock

RC – Western red cedar

OC – Class 1 or 2 snag

| TC TLOGSTVB         |        |     |              | Log Stock Table - MBF |        |       |              |       |                                          |                     |           |     |       |       |       |       |       |       |       |     |  |
|---------------------|--------|-----|--------------|-----------------------|--------|-------|--------------|-------|------------------------------------------|---------------------|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-----|--|
|                     |        |     |              | Project: SIMMS        |        |       |              |       |                                          |                     |           |     |       |       |       |       |       |       |       |     |  |
| T02S R07W S11 TSALE |        |     |              |                       |        |       |              |       |                                          | T02S R07W S11 TSALE |           |     |       |       |       |       |       |       |       |     |  |
| Twp                 | Rge    | Sec | Tract        | Type                  | Acres  | Plots | Sample Trees | Page  | 1                                        |                     |           |     |       |       |       |       |       |       |       |     |  |
| 02S                 | 07W    | 11  | 477 - AREA 1 | SALE                  | 108.00 | 16    | 87           | Date  | 6/9/2016                                 |                     |           |     |       |       |       |       |       |       |       |     |  |
|                     |        |     |              |                       |        |       |              |       |                                          | Time                | 8:36:44AM |     |       |       |       |       |       |       |       |     |  |
| Spp                 | S      | So  | Gr           | Log                   | Gross  | % Def | Net          | % Spc | Net Volume by Scaling Diameter in Inches |                     |           |     |       |       |       |       |       |       |       |     |  |
|                     |        |     |              |                       |        |       |              |       | 2-3                                      | 4-5                 | 6-7       | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ |  |
| DF                  | CO     | 2   | 32           |                       | 19     |       | 19           | 1.5   |                                          |                     |           |     | 19    |       |       |       |       |       |       |     |  |
| DF                  | CO     | 2   | 40           |                       | 622    | 1.7   | 611          | 49.0  |                                          |                     |           |     | 320   | 136   | 156   |       |       |       |       |     |  |
| DF                  | CO     | 3   | 32           |                       | 91     | 4.1   | 87           | 7.0   |                                          |                     |           | 45  | 42    |       |       |       |       |       |       |     |  |
| DF                  | CO     | 3   | 34           |                       | 6      |       | 6            | .5    |                                          |                     | 6         |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 3   | 38           |                       | 3      |       | 3            | .3    |                                          |                     |           | 3   |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 3   | 40           |                       | 361    | 1.0   | 357          | 28.6  |                                          |                     | 76        | 74  | 206   |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 16           |                       | 3      |       | 3            | .2    |                                          | 2                   |           | 1   |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 17           |                       | 2      |       | 2            | .2    |                                          | 2                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 18           |                       | 10     |       | 10           | .8    |                                          | 9                   | 2         |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 19           |                       | 1      |       | 1            | .1    |                                          |                     | 1         |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 20           |                       | 11     |       | 11           | .9    |                                          | 11                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 21           |                       | 2      |       | 2            | .1    |                                          | 2                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 23           |                       | 2      |       | 2            | .1    |                                          | 2                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 24           |                       | 2      |       | 2            | .2    |                                          | 2                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 26           |                       | 10     |       | 10           | .8    |                                          | 10                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 27           |                       | 12     |       | 12           | 1.0   |                                          | 12                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 29           |                       | 4      |       | 4            | .3    |                                          | 4                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 30           |                       | 11     |       | 11           | .9    |                                          | 11                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 32           |                       | 11     |       | 11           | .8    |                                          | 11                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 33           |                       | 13     |       | 13           | 1.1   |                                          | 13                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 34           |                       | 11     |       | 11           | .9    |                                          | 11                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 35           |                       | 5      |       | 5            | .4    |                                          | 5                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 36           |                       | 5      |       | 5            | .4    |                                          | 5                   |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 37           |                       | 11     |       | 11           | .9    |                                          | 11                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 38           |                       | 18     |       | 18           | 1.5   |                                          | 18                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | CO     | 4   | 40           |                       | 21     |       | 21           | 1.7   |                                          | 21                  |           |     |       |       |       |       |       |       |       |     |  |
| DF                  | Totals |     |              |                       | 1,265  | 1.4   | 1,248        | 82.9  |                                          | 160                 | 85        | 124 | 248   | 339   | 136   | 156   |       |       |       |     |  |
| RA                  | H      | 2   | 20           |                       | 27     |       | 27           | 12.9  |                                          |                     |           |     |       | 27    |       |       |       |       |       |     |  |
| RA                  | H      | 2   | 32           |                       | 14     | 3.6   | 14           | 6.6   |                                          |                     |           |     |       | 14    |       |       |       |       |       |     |  |
| RA                  | H      | 2   | 34           |                       | 13     |       | 13           | 6.4   |                                          |                     |           |     | 13    |       |       |       |       |       |       |     |  |
| RA                  | H      | 3   | 24           |                       | 12     |       | 12           | 5.7   |                                          |                     |           | 12  |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 3   | 32           |                       | 13     |       | 13           | 6.1   |                                          |                     |           | 13  |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 3   | 36           |                       | 10     | 7.1   | 9            | 4.5   |                                          |                     |           | 9   |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 22           |                       | 5      |       | 5            | 2.4   |                                          |                     | 5         |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 24           |                       | 6      |       | 6            | 2.9   |                                          |                     | 6         |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 26           |                       | 10     |       | 10           | 5.0   |                                          |                     | 10        |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 27           |                       | 15     |       | 15           | 7.1   |                                          |                     | 15        |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 28           |                       | 7      |       | 7            | 3.5   |                                          |                     | 7         |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 29           |                       | 5      | 20.0  | 4            | 1.8   |                                          |                     | 4         |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 31           |                       | 10     |       | 10           | 4.6   |                                          |                     | 10        |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 32           |                       | 15     | 20.0  | 12           | 5.9   |                                          |                     | 12        |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 34           |                       | 4      |       | 4            | 1.7   |                                          |                     | 4         |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 35           |                       | 10     |       | 10           | 4.9   |                                          |                     | 10        |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 36           |                       | 21     | 16.7  | 18           | 8.6   |                                          |                     | 18        |     |       |       |       |       |       |       |       |     |  |
| RA                  | H      | 4   | 40           |                       | 21     | 5.1   | 20           | 9.5   |                                          |                     | 8         | 12  |       |       |       |       |       |       |       |     |  |
| RA                  | Totals |     |              |                       | 217    | 4.5   | 207          | 13.8  |                                          |                     | 108       | 12  | 34    | 13    | 40    |       |       |       |       |     |  |
| WH                  | CO     | 3   | 40           |                       | 8      | 16.7  | 6            | 100.0 |                                          |                     | 6         |     |       |       |       |       |       |       |       |     |  |
| WH                  | Totals |     |              |                       | 8      | 16.7  | 6            | .4    |                                          |                     | 6         |     |       |       |       |       |       |       |       |     |  |
| NF                  | CO     | 2   | 40           |                       | 42     |       | 42           | 94.7  |                                          |                     |           |     |       |       | 13    | 28    |       |       |       |     |  |

|                     |  |          |  |                       |  |              |  |       |  |      |  |        |  |                                          |  |                     |  |           |  |      |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
|---------------------|--|----------|--|-----------------------|--|--------------|--|-------|--|------|--|--------|--|------------------------------------------|--|---------------------|--|-----------|--|------|--|----------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-----|--|
| TC                  |  | TLOGSTVB |  | Log Stock Table - MBF |  |              |  |       |  |      |  |        |  |                                          |  |                     |  |           |  |      |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
|                     |  |          |  | Project:              |  |              |  | SIMMS |  |      |  |        |  |                                          |  |                     |  |           |  |      |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| T02S R07W S11 TSALE |  |          |  |                       |  |              |  |       |  |      |  |        |  |                                          |  | T02S R07W S11 TSALE |  |           |  |      |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| Twp                 |  | Rge      |  | Sec                   |  | Tract        |  |       |  | Type |  | Acres  |  | Plots                                    |  | Sample Trees        |  |           |  | Page |  | 2        |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| 02S                 |  | 07W      |  | 11                    |  | 477 - AREA 1 |  |       |  | SALE |  | 108.00 |  | 16                                       |  | 87                  |  |           |  | Date |  | 6/9/2016 |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
|                     |  |          |  |                       |  |              |  |       |  |      |  |        |  |                                          |  | Time                |  | 8:36:44AM |  |      |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| S                   |  | So Gr    |  | Log                   |  | Gross        |  | %     |  | Net  |  | %      |  | Net Volume by Scaling Diameter in Inches |  |                     |  |           |  |      |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| Spp                 |  | T        |  | rt de                 |  | Len          |  | MBF   |  | Def  |  | 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+ |  |
| NF                  |  | CO       |  | 3                     |  | 29           |  | 2     |  |      |  | 2      |  | 5.3                                      |  |                     |  |           |  | 2    |  |          |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| NF                  |  |          |  |                       |  | Totals       |  | 44    |  |      |  | 44     |  | 2.9                                      |  |                     |  |           |  | 2    |  |          |  |       |  | 13    |  | 28    |  |       |  |       |  |       |  |       |  |     |  |
| Total All Species   |  |          |  |                       |  |              |  | 1,534 |  | 1.9  |  | 1,506  |  | 100.0                                    |  | 160                 |  | 193       |  | 145  |  | 282      |  | 352   |  | 176   |  | 169   |  | 28    |  |       |  |       |  |       |  |     |  |

| TC                  |     | Stand Table Summary |              |      |          |                |             |              |               |               |               |                |                     |             |            |           |  |
|---------------------|-----|---------------------|--------------|------|----------|----------------|-------------|--------------|---------------|---------------|---------------|----------------|---------------------|-------------|------------|-----------|--|
| Project             |     |                     |              |      |          |                |             |              |               |               |               |                |                     |             | SIMMS      |           |  |
| T02S R07W S11 TSALE |     |                     |              |      |          |                |             |              |               |               |               |                | T02S R07W S11 TSALE |             |            |           |  |
| Twp                 | Rge | Sec                 | Tract        | Type |          |                |             | Acres        |               | Plots         | Sample Trees  |                |                     | Page:       | 1          |           |  |
| 02S                 | 07W | 11                  | 477 - AREA 1 | SALE |          |                |             | 108.00       |               | 16            | 87            |                |                     | Date:       | 06/09/2016 |           |  |
|                     |     |                     |              |      |          |                |             |              |               |               |               |                |                     |             | Time:      | 8:36:45AM |  |
| S<br>Spc            | T   | Sample              |              | FF   | Av<br>Ht | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log   |               | Tons/<br>Acre | Net            | Net                 | T o t a l s |            |           |  |
|                     |     | DBH                 | Trees        | 16'  | Tot      |                |             |              | Net<br>Cu.Ft. | Net<br>Bd.Ft. |               | Cu.Ft.<br>Acre | Bd.Ft.<br>Acre      | Tons        | Cunits     | MBF       |  |
| DF                  |     | 10                  | 1            | 78   | 47       | 3.183          | 1.74        | 3.18         | 9.2           | 30.0          | .84           | 29             | 96                  | 90          | 32         | 10        |  |
| DF                  |     | 12                  | 1            | 84   | 55       | 2.211          | 1.74        | 2.21         | 15.1          | 40.0          | .95           | 33             | 88                  | 103         | 36         | 10        |  |
| DF                  |     | 13                  | 5            | 84   | 66       | 9.418          | 8.68        | 13.19        | 14.6          | 48.6          | 5.50          | 193            | 640                 | 594         | 209        | 69        |  |
| DF                  |     | 15                  | 3            | 85   | 74       | 4.244          | 5.21        | 5.66         | 22.9          | 70.0          | 3.69          | 129            | 396                 | 398         | 140        | 43        |  |
| DF                  |     | 16                  | 6            | 85   | 87       | 7.461          | 10.42       | 14.92        | 20.8          | 78.3          | 8.86          | 311            | 1,169               | 957         | 336        | 126       |  |
| DF                  |     | 17                  | 9            | 85   | 86       | 9.914          | 15.63       | 18.73        | 25.9          | 93.5          | 13.81         | 485            | 1,751               | 1,492       | 523        | 189       |  |
| DF                  |     | 18                  | 5            | 85   | 89       | 4.913          | 8.68        | 9.83         | 29.0          | 100.0         | 8.13          | 285            | 983                 | 878         | 308        | 106       |  |
| DF                  |     | 19                  | 5            | 85   | 100      | 4.409          | 8.68        | 8.82         | 35.3          | 118.0         | 8.86          | 311            | 1,041               | 957         | 336        | 112       |  |
| DF                  |     | 20                  | 6            | 84   | 92       | 4.775          | 10.42       | 9.55         | 36.6          | 124.2         | 9.96          | 350            | 1,186               | 1,076       | 377        | 128       |  |
| DF                  |     | 21                  | 4            | 85   | 92       | 2.887          | 6.95        | 7.22         | 32.5          | 121.0         | 6.68          | 234            | 873                 | 721         | 253        | 94        |  |
| DF                  |     | 22                  | 1            | 84   | 85       | .658           | 1.74        | 1.32         | 43.6          | 135.0         | 1.63          | 57             | 178                 | 176         | 62         | 19        |  |
| DF                  |     | 23                  | 5            | 84   | 84       | 3.009          | 8.68        | 6.02         | 46.7          | 144.0         | 8.02          | 281            | 867                 | 866         | 304        | 94        |  |
| DF                  |     | 24                  | 2            | 84   | 100      | 1.105          | 3.47        | 2.21         | 56.6          | 207.5         | 3.56          | 125            | 459                 | 385         | 135        | 50        |  |
| DF                  |     | 25                  | 2            | 83   | 104      | 1.019          | 3.47        | 2.04         | 63.4          | 222.5         | 3.68          | 129            | 453                 | 398         | 140        | 49        |  |
| DF                  |     | 26                  | 2            | 85   | 109      | .942           | 3.47        | 1.88         | 48.4          | 182.5         | 2.60          | 91             | 344                 | 280         | 98         | 37        |  |
| DF                  |     | 27                  | 1            | 82   | 92       | .437           | 1.74        | .87          | 67.9          | 220.0         | 1.69          | 59             | 192                 | 182         | 64         | 21        |  |
| DF                  |     | 28                  | 1            | 88   | 122      | .406           | 1.74        | 1.22         | 61.3          | 276.7         | 2.13          | 75             | 337                 | 230         | 81         | 36        |  |
| DF                  |     | 29                  | 2            | 82   | 106      | .757           | 3.47        | 1.89         | 68.9          | 264.0         | 3.72          | 130            | 500                 | 401         | 141        | 54        |  |
| DF                  |     | Totals              | 61           | 84   | 82       | 61.748         | 105.91      | 110.75       | 29.9          | 104.3         | 94.31         | 3,309          | 11,552              | 10,186      | 3,574      | 1,248     |  |
| RA                  |     | 10                  | 1            | 74   | 54       | 3.183          | 1.74        | 3.18         | 11.1          | 30.0          | .97           | 35             | 96                  | 105         | 38         | 10        |  |
| RA                  |     | 11                  | 2            | 69   | 49       | 5.262          | 3.47        | 2.63         | 13.3          | 30.0          | .96           | 35             | 79                  | 104         | 38         | 9         |  |
| RA                  |     | 12                  | 2            | 75   | 53       | 4.421          | 3.47        | 4.42         | 16.5          | 35.0          | 2.01          | 73             | 155                 | 217         | 79         | 17        |  |
| RA                  |     | 13                  | 4            | 77   | 48       | 7.535          | 6.95        | 7.53         | 18.2          | 40.0          | 3.76          | 137            | 301                 | 406         | 148        | 33        |  |
| RA                  |     | 14                  | 1            | 80   | 40       | 1.624          | 1.74        |              |               |               |               |                |                     |             |            |           |  |
| RA                  |     | 15                  | 3            | 78   | 49       | 4.244          | 5.21        | 4.24         | 23.1          | 43.3          | 2.70          | 98             | 184                 | 291         | 106        | 20        |  |
| RA                  |     | 16                  | 1            | 78   | 55       | 1.243          | 1.74        | 1.24         | 35.5          | 60.0          | 1.21          | 44             | 75                  | 131         | 48         | 8         |  |
| RA                  |     | 17                  | 1            | 82   | 57       | 1.102          | 1.74        | 1.10         | 26.8          | 100.0         | .81           | 30             | 110                 | 88          | 32         | 12        |  |
| RA                  |     | 18                  | 2            | 83   | 60       | 1.965          | 3.47        | 1.97         | 40.6          | 115.0         | 2.19          | 80             | 226                 | 237         | 86         | 24        |  |
| RA                  |     | 19                  | 2            | 84   | 65       | 1.764          | 3.47        | 3.53         | 22.6          | 87.5          | 2.19          | 80             | 309                 | 236         | 86         | 33        |  |
| RA                  |     | 21                  | 2            | 74   | 50       | 1.444          | 3.47        | .72          | 58.2          | 170.0         | 1.16          | 42             | 123                 | 125         | 45         | 13        |  |
| RA                  |     | 22                  | 2            | 76   | 51       | 1.315          | 3.47        | 1.32         | 51.6          | 90.0          | 1.87          | 68             | 118                 | 202         | 73         | 13        |  |
| RA                  |     | 26                  | 1            | 77   | 67       | .471           | 1.74        | .94          | 52.2          | 155.0         | 1.35          | 49             | 146                 | 146         | 53         | 16        |  |
| RA                  |     | Totals              | 24           | 76   | 51       | 35.573         | 41.67       | 32.83        | 23.5          | 58.5          | 21.18         | 770            | 1,921               | 2,288       | 832        | 207       |  |
| NF                  |     | 32                  | 1            | 86   | 139      | .311           | 1.74        | .93          | 88.3          | 436.7         | 1.98          | 82             | 407                 | 214         | 89         | 44        |  |
| NF                  |     | Totals              | 1            | 86   | 139      | .311           | 1.74        | .93          | 88.3          | 436.7         | 1.98          | 82             | 407                 | 214         | 89         | 44        |  |
| WH                  |     | 23                  | 1            | 85   | 54       | .602           | 1.74        | .60          | 66.5          | 100.0         | 1.28          | 40             | 60                  | 138         | 43         | 6         |  |
| WH                  |     | Totals              | 1            | 85   | 54       | .602           | 1.74        | .60          | 66.5          | 100.0         | 1.28          | 40             | 60                  | 138         | 43         | 6         |  |
| Totals              |     |                     | 87           | 81   | 71       | 98.233         | 151.05      | 145.11       | 29.0          | 96.1          | 118.75        | 4202           | 13,940              | 12,825      | 4,538      | 1,506     |  |

| TC                  |        | TLOGSTVB |              | Log Stock Table - MBF |        |       |              |       |                                          |                     |           |     |       |       |       |       |       |       |       |     |
|---------------------|--------|----------|--------------|-----------------------|--------|-------|--------------|-------|------------------------------------------|---------------------|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-----|
|                     |        |          |              | Project: SIMMS        |        |       |              |       |                                          |                     |           |     |       |       |       |       |       |       |       |     |
| T02S R07W S11 TSALE |        |          |              |                       |        |       |              |       |                                          | T02S R07W S11 TSALE |           |     |       |       |       |       |       |       |       |     |
| Twp                 | Rge    | Sec      | Tract        | Type                  | Acres  | Plots | Sample Trees | Page  | 1                                        |                     |           |     |       |       |       |       |       |       |       |     |
| 02S                 | 07W    | 11       | 469 - AREA 2 | SALE                  | 105.00 | 14    | 72           | Date  | 6/9/2016                                 |                     |           |     |       |       |       |       |       |       |       |     |
|                     |        |          |              |                       |        |       |              |       |                                          | Time                | 8:38:29AM |     |       |       |       |       |       |       |       |     |
| Spp                 | S      | So       | Gr           | Log                   | Gross  | % Def | Net          | % Spc | Net Volume by Scaling Diameter in Inches |                     |           |     |       |       |       |       |       |       |       |     |
|                     |        |          |              |                       |        |       |              |       | 2-3                                      | 4-5                 | 6-7       | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ |
| DF                  | CO     | 2        | 18           |                       | 12     |       | 12           | .8    |                                          |                     |           |     | 12    |       |       |       |       |       |       |     |
| DF                  | CO     | 2        | 20           |                       | 15     |       | 15           | 1.1   |                                          |                     |           |     |       |       | 15    |       |       |       |       |     |
| DF                  | CO     | 2        | 32           |                       | 25     | 1.9   | 25           | 1.7   |                                          |                     |           |     | 25    |       |       |       |       |       |       |     |
| DF                  | CO     | 2        | 40           |                       | 870    | 1.5   | 857          | 60.0  |                                          |                     |           |     | 250   | 261   | 320   | 26    |       |       |       |     |
| DF                  | CO     | 3        | 29           |                       | 3      |       | 3            | .2    |                                          |                     | 3         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 31           |                       | 3      |       | 3            | .2    |                                          |                     | 3         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 32           |                       | 34     | 3.4   | 33           | 2.3   |                                          |                     |           |     | 33    |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 35           |                       | 4      |       | 4            | .3    |                                          |                     | 4         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 36           |                       | 3      |       | 3            | .2    |                                          |                     | 3         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 38           |                       | 3      |       | 3            | .2    |                                          |                     | 3         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 39           |                       | 4      |       | 4            | .3    |                                          |                     | 4         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 3        | 40           |                       | 334    | 1.1   | 331          | 23.1  |                                          |                     | 40        | 101 | 190   |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 16           |                       | 4      | 13.6  | 3            | .2    |                                          | 2                   | 1         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 17           |                       | 2      |       | 2            | .1    |                                          |                     | 2         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 18           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 19           |                       | 2      |       | 2            | .1    |                                          | 2                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 20           |                       | 8      |       | 8            | .6    |                                          | 7                   | 2         |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 21           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 22           |                       | 2      |       | 2            | .1    |                                          | 2                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 23           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 24           |                       | 2      |       | 2            | .1    |                                          |                     |           | 2   |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 25           |                       | 9      |       | 9            | .6    |                                          | 9                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 26           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 27           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 29           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 30           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 31           |                       | 19     |       | 19           | 1.4   |                                          | 19                  |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 33           |                       | 6      |       | 6            | .4    |                                          | 6                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 34           |                       | 3      |       | 3            | .2    |                                          | 3                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 35           |                       | 9      |       | 9            | .6    |                                          | 9                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 36           |                       | 9      |       | 9            | .6    |                                          | 9                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 37           |                       | 13     |       | 13           | .9    |                                          | 13                  |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 38           |                       | 7      |       | 7            | .5    |                                          | 7                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 39           |                       | 4      |       | 4            | .3    |                                          | 4                   |           |     |       |       |       |       |       |       |       |     |
| DF                  | CO     | 4        | 40           |                       | 18     |       | 18           | 1.3   |                                          | 18                  |           |     |       |       |       |       |       |       |       |     |
| DF                  | Totals |          |              |                       | 1,448  | 1.3   | 1,429        | 96.6  |                                          | 130                 | 65        | 103 | 223   | 286   | 261   | 335   | 26    |       |       |     |
| RA                  | H      | 3        | 24           |                       | 9      | 10.0  | 8            | 15.3  |                                          |                     |           |     | 8     |       |       |       |       |       |       |     |
| RA                  | H      | 3        | 40           |                       | 13     | 6.7   | 12           | 23.8  |                                          |                     |           |     | 12    |       |       |       |       |       |       |     |
| RA                  | H      | 4        | 19           |                       | 5      |       | 5            | 8.9   |                                          |                     | 5         |     |       |       |       |       |       |       |       |     |
| RA                  | H      | 4        | 22           |                       | 9      | 33.3  | 6            | 12.4  |                                          |                     | 6         |     |       |       |       |       |       |       |       |     |
| RA                  | H      | 4        | 29           |                       | 3      | 25.0  | 3            | 5.1   |                                          |                     | 3         |     |       |       |       |       |       |       |       |     |
| RA                  | H      | 4        | 31           |                       | 6      | 25.0  | 4            | 8.8   |                                          |                     | 4         |     |       |       |       |       |       |       |       |     |
| RA                  | H      | 4        | 32           |                       | 4      | 20.0  | 3            | 6.8   |                                          |                     | 3         |     |       |       |       |       |       |       |       |     |
| RA                  | H      | 4        | 35           |                       | 10     |       | 10           | 19.1  |                                          |                     | 10        |     |       |       |       |       |       |       |       |     |
| RA                  | Totals |          |              |                       | 59     | 13.7  | 51           | 3.4   |                                          | 31                  |           | 20  |       |       |       |       |       |       |       |     |
| Total All Species   |        |          |              |                       | 1,507  | 1.8   | 1,480        | 100.0 |                                          | 130                 | 96        | 103 | 243   | 286   | 261   | 335   | 26    |       |       |     |

| TC                  |  | TSTNDSUM |       |     |     |                |        |        |             |        |               |                |                |        |              | Stand Table Summary |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
|---------------------|--|----------|-------|-----|-----|----------------|--------|--------|-------------|--------|---------------|----------------|----------------|--------|--------------|---------------------|-------|-----------|-------------|------------|-------|--|--|--|--|--|--|--|--|--|
|                     |  |          |       |     |     |                |        |        |             |        |               |                |                |        |              | Project             |       |           |             |            | SIMMS |  |  |  |  |  |  |  |  |  |
| T02S R07W S11 TSALE |  |          |       |     |     |                |        |        |             |        |               |                |                |        |              | T02S R07W S11 TSALE |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| Twp                 |  | Rge      |       | Sec |     | Tract          |        | Type   |             |        | Acres         |                | Plots          |        | Sample Trees |                     |       | Page:     |             | 1          |       |  |  |  |  |  |  |  |  |  |
| 02S                 |  | 07W      |       | 11  |     | 469 - AREA 2   |        | SALE   |             |        | 105.00        |                | 14             |        | 72           |                     |       | Date:     |             | 06/09/2016 |       |  |  |  |  |  |  |  |  |  |
|                     |  |          |       |     |     |                |        |        |             |        |               |                |                |        |              | Time:               |       | 8:38:30AM |             |            |       |  |  |  |  |  |  |  |  |  |
| S<br>T<br>Spc       |  | Av       |       |     |     | Trees/<br>Acre |        |        | BA/<br>Acre |        | Logs<br>Acre  |                | Average Log    |        | Net          |                     | Net   |           | T o t a l s |            |       |  |  |  |  |  |  |  |  |  |
|                     |  | Sample   |       | FF  | Ht  |                |        |        | Net         | Net    | Tons/<br>Acre | Cu.Ft.<br>Acre | Bd.Ft.<br>Acre | Tons   | Cunits       | MBF                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
|                     |  | DBH      | Trees | 16' | Tot |                |        |        | Cu.Ft.      | Bd.Ft. |               |                |                | Cu.Ft. | Bd.Ft.       |                     |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 11       | 1     | 65  | 64  | 3.007          | 1.98   | 3.01   | 14.3        | 30.0   | 1.22          | 43             | 90             | 129    | 45           | 9                   |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 12       | 1     | 84  | 66  | 2.526          | 1.98   | 2.53   | 17.1        | 60.0   | 1.23          | 43             | 152            | 129    | 45           | 16                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 13       | 1     | 75  | 51  | 2.153          | 1.98   | 2.15   | 18.5        | 40.0   | 1.14          | 40             | 86             | 119    | 42           | 9                   |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 14       | 1     | 86  | 91  | 1.856          | 1.98   | 3.71   | 15.7        | 60.0   | 1.67          | 58             | 223            | 175    | 61           | 23                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 16       | 2     | 86  | 73  | 2.842          | 3.97   | 5.68   | 18.5        | 70.0   | 3.00          | 105            | 398            | 314    | 110          | 42                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 17       | 4     | 85  | 72  | 5.035          | 7.94   | 7.55   | 23.7        | 80.0   | 5.10          | 179            | 604            | 536    | 188          | 63                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 18       | 5     | 85  | 83  | 5.614          | 9.92   | 10.11  | 29.3        | 100.0  | 8.45          | 296            | 1,011          | 887    | 311          | 106                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 19       | 6     | 84  | 82  | 6.047          | 11.91  | 11.09  | 27.6        | 93.6   | 8.71          | 306            | 1,038          | 915    | 321          | 109                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 20       | 7     | 84  | 93  | 6.367          | 13.89  | 12.73  | 36.9        | 117.9  | 13.38         | 469            | 1,501          | 1,405  | 493          | 158                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 21       | 4     | 83  | 83  | 3.300          | 7.94   | 6.60   | 36.6        | 112.5  | 6.89          | 242            | 742            | 724    | 254          | 78                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 22       | 3     | 86  | 92  | 2.255          | 5.95   | 4.51   | 44.6        | 143.3  | 5.73          | 201            | 646            | 601    | 211          | 68                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 23       | 6     | 84  | 92  | 4.126          | 11.91  | 8.25   | 48.8        | 156.7  | 11.48         | 403            | 1,293          | 1,206  | 423          | 136                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 24       | 2     | 86  | 100 | 1.263          | 3.97   | 2.53   | 58.5        | 217.5  | 4.21          | 148            | 550            | 442    | 155          | 58                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 25       | 4     | 83  | 96  | 2.328          | 7.94   | 4.66   | 58.6        | 207.5  | 7.78          | 273            | 966            | 817    | 287          | 101                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 26       | 6     | 83  | 101 | 3.229          | 11.91  | 7.00   | 59.9        | 219.2  | 11.94         | 419            | 1,534          | 1,254  | 440          | 161                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 27       | 4     | 84  | 108 | 1.996          | 7.94   | 4.49   | 68.7        | 266.7  | 8.80          | 309            | 1,198          | 924    | 324          | 126                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 28       | 4     | 83  | 104 | 1.856          | 7.94   | 4.18   | 71.4        | 268.9  | 8.50          | 298            | 1,123          | 893    | 313          | 118                 |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 29       | 1     | 80  | 102 | .433           | 1.98   | .87    | 43.3        | 165.0  | 1.07          | 37             | 143            | 112    | 39           | 15                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | 32       | 1     | 81  | 109 | .355           | 1.98   | .71    | 106.1       | 440.0  | 2.15          | 75             | 313            | 226    | 79           | 33                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| DF                  |  | Totals   |       | 63  | 83  | 85             | 56.590 | 125.01 | 102.35      | 38.6   | 133.0         | 112.45         | 3,946          | 13,610 | 11,807       | 4,143               | 1,429 |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | 11       | 1     | 74  | 40  | 3.007          | 1.98   | 3.01   | 9.4         | 20.0   | .78           | 28             | 60             | 82     | 30           | 6                   |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | 13       | 1     | 75  | 37  | 2.153          | 1.98   | 2.15   | 8.1         | 20.0   | .48           | 18             | 43             | 51     | 18           | 5                   |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | 14       | 1     | 79  | 51  | 1.856          | 1.98   | 1.86   | 22.1        | 50.0   | 1.13          | 41             | 93             | 119    | 43           | 10                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | 16       | 1     | 75  | 51  | 1.421          | 1.98   | 1.42   | 19.6        | 30.0   | .77           | 28             | 43             | 80     | 29           | 4                   |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | 18       | 1     | 75  | 42  | 1.123          | 1.98   |        |             |        |               |                |                |        |              |                     |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | 21       | 4     | 77  | 51  | 3.300          | 7.94   | 3.30   | 37.5        | 75.0   | 3.41          | 124            | 247            | 358    | 130          | 26                  |       |           |             |            |       |  |  |  |  |  |  |  |  |  |
| RA                  |  | Totals   |       | 9   | 76  | 45             | 12.860 | 17.86  | 11.74       | 20.3   | 41.4          | 6.56           | 239            | 486    | 689          | 251                 | 51    |           |             |            |       |  |  |  |  |  |  |  |  |  |
| Totals              |  |          |       | 72  | 82  | 77             | 69.450 | 142.87 | 114.08      | 36.7   | 123.6         | 119.01         | 4184           | 14,096 | 12,496       | 4,393               | 1,480 |           |             |            |       |  |  |  |  |  |  |  |  |  |

|                     |          |     |            |                       |       |       |              |      |                                          |                     |           |     |     |     |     |     |       |       |       |       |       |
|---------------------|----------|-----|------------|-----------------------|-------|-------|--------------|------|------------------------------------------|---------------------|-----------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| TC                  | TLOGSTVB |     |            | Log Stock Table - MBF |       |       |              |      |                                          |                     |           |     |     |     |     |     |       |       |       |       |       |
|                     |          |     |            | Project: SIMMS        |       |       |              |      |                                          |                     |           |     |     |     |     |     |       |       |       |       |       |
| T02S R07W S12 TSALE |          |     |            |                       |       |       |              |      |                                          | T02S R07W S12 TSALE |           |     |     |     |     |     |       |       |       |       |       |
| Twp                 | Rge      | Sec | Tract      | Type                  | Acres | Plots | Sample Trees | Page | 1                                        |                     |           |     |     |     |     |     |       |       |       |       |       |
| 02S                 | 07W      | 12  | 5 - AREA 3 | SALE                  | 96.00 | 18    | 114          | Date | 6/9/2016                                 |                     |           |     |     |     |     |     |       |       |       |       |       |
|                     |          |     |            |                       |       |       |              |      |                                          | Time                | 8:39:40AM |     |     |     |     |     |       |       |       |       |       |
| Spp                 | S        | So  | Gr         | Log                   | Gross | %     | Net          | %    | Net Volume by Scaling Diameter in Inches |                     |           |     |     |     |     |     |       |       |       |       |       |
|                     |          |     |            |                       |       |       |              |      | MBF                                      | Def                 | MBF       | Spc | 2-3 | 4-5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 |
| DF                  |          | CO  | 2          | 32                    | 12    |       | 12           | .6   |                                          |                     |           |     |     | 12  |     |     |       |       |       |       |       |
| DF                  |          | CO  | 2          | 40                    | 1,089 | .9    | 1,079        | 57.2 |                                          |                     |           |     |     | 139 | 371 | 529 | 41    |       |       |       |       |
| DF                  |          | CO  | 3          | 16                    | 15    |       | 15           | .8   |                                          |                     |           |     |     |     |     | 7   | 8     |       |       |       |       |
| DF                  |          | CO  | 3          | 20                    | 6     |       | 6            | .3   |                                          |                     |           |     |     | 6   |     |     |       |       |       |       |       |
| DF                  |          | CO  | 3          | 23                    | 8     |       | 8            | .4   |                                          |                     |           |     |     | 8   |     |     |       |       |       |       |       |
| DF                  |          | CO  | 3          | 26                    | 6     |       | 6            | .3   |                                          |                     |           |     |     | 6   |     |     |       |       |       |       |       |
| DF                  |          | CO  | 3          | 32                    | 80    |       | 80           | 4.2  |                                          |                     | 26        | 29  |     | 25  |     |     |       |       |       |       |       |
| DF                  |          | CO  | 3          | 38                    | 18    |       | 18           | 1.0  |                                          |                     |           |     |     | 18  |     |     |       |       |       |       |       |
| DF                  |          | CO  | 3          | 40                    | 513   | 1.6   | 505          | 26.7 |                                          |                     | 58        | 131 |     | 183 | 57  | 25  | 36    |       | 15    |       |       |
| DF                  |          | CO  | 4          | 12                    | 5     |       | 5            | .3   |                                          |                     | 1         | 1   | 3   |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 13                    | 4     |       | 4            | .2   |                                          |                     | 3         | 1   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 14                    | 1     |       | 1            | .1   |                                          |                     | 1         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 15                    | 8     |       | 8            | .4   |                                          |                     | 7         | 1   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 16                    | 6     |       | 6            | .3   |                                          |                     | 5         | 1   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 17                    | 2     |       | 2            | .1   |                                          |                     |           | 2   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 18                    | 2     |       | 2            | .1   |                                          |                     | 2         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 19                    | 1     |       | 1            | .1   |                                          |                     | 1         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 20                    | 8     |       | 8            | .4   |                                          |                     | 4         |     |     | 4   |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 21                    | 3     |       | 3            | .2   |                                          |                     | 2         | 1   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 22                    | 22    |       | 22           | 1.2  |                                          |                     | 3         | 1   | 2   | 11  |     |     | 5     |       |       |       |       |
| DF                  |          | CO  | 4          | 23                    | 2     |       | 2            | .1   |                                          |                     |           | 2   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 24                    | 10    |       | 10           | .5   |                                          |                     |           |     | 5   |     | 6   |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 25                    | 3     |       | 3            | .2   |                                          |                     |           | 1   | 1   |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 26                    | 6     |       | 6            | .3   |                                          |                     | 6         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 28                    | 3     |       | 3            | .1   |                                          |                     | 3         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 29                    | 2     |       | 2            | .1   |                                          |                     | 2         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 30                    | 2     |       | 2            | .1   |                                          |                     | 2         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 31                    | 7     |       | 7            | .4   |                                          |                     | 4         | 3   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 32                    | 4     |       | 4            | .2   |                                          |                     |           | 4   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 33                    | 3     |       | 3            | .1   |                                          |                     |           | 3   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 35                    | 10    |       | 10           | .5   |                                          |                     | 8         | 2   |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 36                    | 2     |       | 2            | .1   |                                          |                     | 2         |     |     |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 38                    | 9     |       | 9            | .5   |                                          |                     | 2         | 3   | 4   |     |     |     |       |       |       |       |       |
| DF                  |          | CO  | 4          | 40                    | 28    |       | 28           | 1.5  |                                          |                     | 14        |     |     |     |     | 14  |       |       |       |       |       |
| DF                  |          | CO  | 4          | 41                    | 5     |       | 5            | .3   |                                          |                     | 5         |     |     |     |     |     |       |       |       |       |       |
| DF                  | Totals   |     |            |                       | 1,906 |       | 1,888        | 85.2 |                                          | 78                  | 111       | 174 | 255 | 220 | 410 | 576 | 49    | 15    |       |       |       |
| RA                  |          | CO  | 4          | 24                    | 4     |       | 4            | 1.3  |                                          |                     | 4         |     |     |     |     |     |       |       |       |       |       |
| RA                  |          | CO  | 4          | 13                    | 2     |       | 2            | .6   |                                          |                     | 2         |     |     |     |     |     |       |       |       |       |       |
| RA                  |          | H   | 4          | 16                    | 2     |       | 2            | .5   |                                          |                     | 2         |     |     |     |     |     |       |       |       |       |       |
| RA                  |          | H   | 4          | 37                    | 11    |       | 11           | 3.7  |                                          |                     | 11        |     |     |     |     |     |       |       |       |       |       |
| RA                  |          | H   | 2          | 16                    | 11    |       | 11           | 3.5  |                                          |                     |           |     |     |     |     | 11  |       |       |       |       |       |
| RA                  |          | H   | 2          | 18                    | 10    |       | 10           | 3.3  |                                          |                     |           |     |     | 10  |     |     |       |       |       |       |       |
| RA                  |          | H   | 2          | 20                    | 11    |       | 11           | 3.6  |                                          |                     |           |     |     | 11  |     |     |       |       |       |       |       |
| RA                  |          | H   | 2          | 22                    | 14    |       | 14           | 4.4  |                                          |                     |           |     |     |     |     | 14  |       |       |       |       |       |
| RA                  |          | H   | 2          | 28                    | 12    |       | 12           | 3.8  |                                          |                     |           |     |     | 12  |     |     |       |       |       |       |       |
| RA                  |          | H   | 2          | 40                    | 28    | 4.6   | 27           | 8.8  |                                          |                     |           |     |     | 27  |     |     |       |       |       |       |       |
| RA                  |          | H   | 3          | 28                    | 9     |       | 9            | 2.8  |                                          |                     |           |     |     |     |     | 9   |       |       |       |       |       |
| RA                  |          | H   | 3          | 32                    | 11    |       | 11           | 3.6  |                                          |                     |           |     | 11  |     |     |     |       |       |       |       |       |
| RA                  |          | H   | 3          | 40                    | 89    | 2.3   | 87           | 28.2 |                                          |                     |           |     | 58  |     |     | 29  |       |       |       |       |       |

| TC TLOGSTVB         |   |        |    | Log Stock Table - MBF |     |            |           |       |         |       |                                          |                     |     |              |       |       |       |           |       |       |       |     |
|---------------------|---|--------|----|-----------------------|-----|------------|-----------|-------|---------|-------|------------------------------------------|---------------------|-----|--------------|-------|-------|-------|-----------|-------|-------|-------|-----|
|                     |   |        |    | Project: SIMMS        |     |            |           |       |         |       |                                          |                     |     |              |       |       |       |           |       |       |       |     |
| T02S R07W S12 TSALE |   |        |    |                       |     |            |           |       |         |       |                                          | T02S R07W S12 TSALE |     |              |       |       |       |           |       |       |       |     |
| Twp                 |   | Rge    |    | Sec                   |     | Tract      |           | Type  |         | Acres |                                          | Plots               |     | Sample Trees |       | Page  |       | 2         |       |       |       |     |
| 02S                 |   | 07W    |    | 12                    |     | 5 - AREA 3 |           | SALE  |         | 96.00 |                                          | 18                  |     | 114          |       | Date  |       | 6/9/2016  |       |       |       |     |
|                     |   |        |    |                       |     |            |           |       |         |       |                                          |                     |     |              |       | Time  |       | 8:39:40AM |       |       |       |     |
| Spp                 | T | S      | So | Gr                    | Log | Len        | Gross MBF | % Def | Net MBF | % Spc | Net Volume by Scaling Diameter in Inches |                     |     |              |       |       |       |           |       |       |       |     |
|                     |   |        |    |                       |     |            |           |       |         |       | 2-3                                      | 4-5                 | 6-7 | 8-9          | 10-11 | 12-13 | 14-15 | 16-19     | 20-23 | 24-29 | 30-39 | 40+ |
| RA                  |   | H      | 4  |                       | 12  |            | 6         |       | 6       | 1.8   |                                          |                     |     | 6            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 13  |            | 2         |       | 2       | .5    |                                          |                     |     | 2            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 16  |            | 1         |       | 1       | .3    |                                          |                     |     | 1            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 17  |            | 7         |       | 7       | 2.2   |                                          |                     |     | 7            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 18  |            | 3         |       | 3       | 1.0   |                                          |                     |     | 3            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 21  |            | 13        |       | 13      | 4.1   |                                          |                     |     | 2            |       | 11    |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 22  |            | 7         |       | 7       | 2.2   |                                          |                     |     | 7            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 23  |            | 1         |       | 1       | .4    |                                          |                     |     | 1            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 24  |            | 10        |       | 10      | 3.1   |                                          |                     |     | 3            |       | 6     |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 28  |            | 5         |       | 5       | 1.6   |                                          |                     |     | 5            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 35  |            | 5         |       | 5       | 1.5   |                                          |                     |     | 5            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 37  |            | 3         |       | 3       | 1.0   |                                          |                     |     | 3            |       |       |       |           |       |       |       |     |
| RA                  |   | H      | 4  |                       | 40  |            | 37        |       | 37      | 12.0  |                                          |                     |     |              |       |       |       |           |       |       |       |     |
| RA                  |   | Totals |    |                       |     |            | 312       | 1.1   | 309     | 14.0  |                                          |                     |     | 57           | 49    | 69    | 71    | 52        | 11    |       |       |     |
| WH                  |   | CO     | 3  |                       | 40  |            | 15        | 3.4   | 14      | 87.5  |                                          |                     |     |              |       |       | 14    |           |       |       |       |     |
| WH                  |   | CO     | 4  |                       | 40  |            | 2         |       | 2       | 12.5  |                                          | 2                   |     |              |       |       |       |           |       |       |       |     |
| WH                  |   | Totals |    |                       |     |            | 17        | 3.0   | 16      | .7    |                                          | 2                   |     |              |       |       | 14    |           |       |       |       |     |
| SS                  |   | CO     | 4  |                       | 25  |            | 1         |       | 1       | 100.0 |                                          | 1                   |     |              |       |       |       |           |       |       |       |     |
| SS                  |   | Totals |    |                       |     |            | 1         |       | 1       | .1    |                                          | 1                   |     |              |       |       |       |           |       |       |       |     |
| Total All Species   |   |        |    |                       |     |            | 2,237     |       | 2,215   | 100.0 |                                          | 81                  | 168 | 223          | 324   | 291   | 476   | 587       | 49    | 15    |       |     |

| TC                  |   | TSTNDSUM |       |           |                 |                |             |              |               |               |               |                       |                       |             |        | Stand Table Summary |  |                     |  |  |  |       |  |  |  |  |  |  |  |
|---------------------|---|----------|-------|-----------|-----------------|----------------|-------------|--------------|---------------|---------------|---------------|-----------------------|-----------------------|-------------|--------|---------------------|--|---------------------|--|--|--|-------|--|--|--|--|--|--|--|
|                     |   |          |       |           |                 |                |             |              |               |               |               |                       |                       |             |        |                     |  | Project             |  |  |  | SIMMS |  |  |  |  |  |  |  |
| T02S R07W S12 TSALE |   |          |       |           |                 |                |             |              |               |               |               |                       |                       |             |        |                     |  | T02S R07W S12 TSALE |  |  |  |       |  |  |  |  |  |  |  |
| Twp                 |   | Rge      |       | Sec       |                 | Tract          |             | Type         |               |               |               | Acres                 |                       | Plots       |        | Sample Trees        |  | Page: 1             |  |  |  |       |  |  |  |  |  |  |  |
| 02S                 |   | 07W      |       | 12        |                 | 5 - AREA 3     |             | SALE         |               |               |               | 96.00                 |                       | 18          |        | 114                 |  | Date: 06/09/2016    |  |  |  |       |  |  |  |  |  |  |  |
|                     |   |          |       |           |                 |                |             |              |               |               |               |                       |                       |             |        |                     |  | Time: 8:39:40AM     |  |  |  |       |  |  |  |  |  |  |  |
| S<br>Spc            | T | Sample   |       | FF<br>16' | Av<br>Ht<br>Tot | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log   |               | Tons/<br>Acre | Net<br>Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | T o t a l s |        |                     |  |                     |  |  |  |       |  |  |  |  |  |  |  |
|                     |   | DBH      | Trees |           |                 |                |             |              | Net<br>Cu.Ft. | Net<br>Bd.Ft. |               |                       |                       | Tons        | Cunits | MBF                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 10       | 1     | 86        | 90              | 2.830          | 1.54        | 2.83         | 12.8          | 60.0          | 1.03          | 36                    | 170                   | 99          | 35     | 16                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 12       | 1     | 83        | 50              | 1.965          | 1.54        | 1.97         | 13.9          | 40.0          | .78           | 27                    | 79                    | 75          | 26     | 8                   |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 13       | 1     | 85        | 65              | 1.674          | 1.54        | 1.67         | 19.6          | 60.0          | .94           | 33                    | 100                   | 90          | 32     | 10                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 14       | 4     | 83        | 95              | 5.775          | 6.17        | 11.55        | 15.2          | 56.3          | 5.01          | 176                   | 650                   | 481         | 169    | 62                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 16       | 3     | 87        | 88              | 3.316          | 4.63        | 6.63         | 21.1          | 86.7          | 3.98          | 140                   | 575                   | 382         | 134    | 55                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 17       | 4     | 84        | 89              | 3.916          | 6.17        | 8.81         | 22.0          | 83.3          | 5.52          | 194                   | 734                   | 530         | 186    | 70                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 18       | 2     | 86        | 88              | 1.747          | 3.09        | 3.49         | 27.3          | 90.0          | 2.73          | 95                    | 314                   | 262         | 92     | 30                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 19       | 5     | 85        | 96              | 3.919          | 7.72        | 8.62         | 30.6          | 110.0         | 7.53          | 264                   | 948                   | 723         | 254    | 91                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 20       | 7     | 85        | 94              | 4.952          | 10.80       | 10.61        | 34.5          | 127.3         | 10.42         | 366                   | 1,351                 | 1,001       | 351    | 130                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 21       | 6     | 86        | 107             | 3.850          | 9.26        | 9.62         | 37.7          | 146.0         | 10.34         | 363                   | 1,405                 | 993         | 348    | 135                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 22       | 9     | 86        | 108             | 5.262          | 13.89       | 13.45        | 37.7          | 153.9         | 14.44         | 506                   | 2,070                 | 1,386       | 486    | 199                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 23       | 9     | 87        | 114             | 4.814          | 13.89       | 13.91        | 39.5          | 169.6         | 15.65         | 549                   | 2,359                 | 1,502       | 527    | 226                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 24       | 9     | 86        | 107             | 4.421          | 13.89       | 10.32        | 52.1          | 212.9         | 15.31         | 537                   | 2,196                 | 1,470       | 516    | 211                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 25       | 4     | 88        | 114             | 1.811          | 6.17        | 4.53         | 56.6          | 241.0         | 7.30          | 256                   | 1,091                 | 701         | 246    | 105                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 26       | 10    | 85        | 110             | 4.186          | 15.43       | 11.30        | 52.4          | 219.6         | 16.88         | 592                   | 2,482                 | 1,620       | 568    | 238                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 27       | 4     | 88        | 117             | 1.553          | 6.17        | 4.66         | 54.3          | 249.2         | 7.21          | 253                   | 1,161                 | 692         | 243    | 111                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 28       | 1     | 88        | 99              | .361           | 1.54        | .72          | 75.9          | 325.0         | 1.56          | 55                    | 235                   | 150         | 53     | 23                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 29       | 1     | 81        | 111             | .336           | 1.54        | .67          | 86.6          | 325.0         | 1.66          | 58                    | 219                   | 160         | 56     | 21                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 30       | 1     | 85        | 111             | .314           | 1.54        | .63          | 96.1          | 440.0         | 1.72          | 60                    | 277                   | 165         | 58     | 27                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 31       | 3     | 82        | 98              | .883           | 4.63        | 1.77         | 93.0          | 370.0         | 4.68          | 164                   | 654                   | 449         | 158    | 63                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 32       | 1     | 76        | 105             | .276           | 1.54        | .55          | 102.8         | 325.0         | 1.62          | 57                    | 180                   | 155         | 55     | 17                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 33       | 1     | 75        | 110             | .260           | 1.54        | .78          | 57.6          | 250.0         | 1.28          | 45                    | 195                   | 123         | 43     | 19                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | 41       | 1     | 78        | 115             | .168           | 1.54        | .50          | 92.2          | 436.7         | 1.33          | 47                    | 221                   | 128         | 45     | 21                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| DF                  |   | Totals   |       | 88        | 85 98           | 58.590         | 135.81      | 129.60       | 37.6          | 151.7         | 138.92        | 4,874                 | 19,664                | 13,336      | 4,679  | 1,888               |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 9        | 1     | 72        | 76              | 3.493          | 1.54        | 3.49         | 4.6           | 20.0          | .45           | 16                    | 70                    | 43          | 16     | 7                   |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 12       | 2     | 78        | 69              | 3.930          | 3.09        | 3.93         | 9.6           | 45.0          | 1.04          | 38                    | 177                   | 99          | 36     | 17                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 14       | 1     | 80        | 101             | 1.444          | 1.54        | 2.89         | 20.5          | 75.0          | 1.63          | 59                    | 217                   | 156         | 57     | 21                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 15       | 1     | 82        | 66              | 1.258          | 1.54        | 1.26         | 31.5          | 90.0          | 1.09          | 40                    | 113                   | 105         | 38     | 11                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 16       | 3     | 88        | 62              | 3.316          | 4.63        | 4.42         | 25.4          | 90.0          | 3.09          | 112                   | 398                   | 296         | 108    | 38                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 17       | 4     | 85        | 73              | 3.916          | 6.17        | 7.83         | 20.1          | 77.5          | 4.32          | 157                   | 607                   | 415         | 151    | 58                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 18       | 3     | 84        | 67              | 2.620          | 4.63        | 5.24         | 22.9          | 81.7          | 3.31          | 120                   | 428                   | 318         | 115    | 41                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 19       | 1     | 86        | 67              | .784           | 1.54        | 1.57         | 29.3          | 95.0          | 1.25          | 46                    | 149                   | 120         | 44     | 14                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 20       | 2     | 87        | 71              | 1.415          | 3.09        | 2.83         | 29.8          | 110.0         | 2.32          | 84                    | 311                   | 222         | 81     | 30                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 21       | 2     | 89        | 87              | 1.283          | 3.09        | 1.28         | 39.4          | 130.0         | 1.38          | 51                    | 167                   | 133         | 49     | 16                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 22       | 1     | 89        | 75              | .585           | 1.54        | 1.17         | 44.0          | 160.0         | 1.42          | 52                    | 187                   | 136         | 49     | 18                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 23       | 1     | 86        | 70              | .535           | 1.54        | 1.07         | 35.0          | 135.0         | 1.03          | 37                    | 144                   | 99          | 36     | 14                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 24       | 1     | 88        | 67              | .491           | 1.54        | .98          | 47.1          | 150.0         | 1.27          | 46                    | 147                   | 122         | 44     | 14                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | 25       | 1     | 75        | 75              | .453           | 1.54        | .91          | 28.5          | 115.0         | .71           | 26                    | 104                   | 68          | 25     | 10                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| RA                  |   | Totals   |       | 24        | 82 72           | 25.523         | 37.04       | 38.87        | 22.7          | 82.8          | 24.31         | 884                   | 3,219                 | 2,333       | 849    | 309                 |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| WH                  |   | 23       | 1     | 80        | 96              | .535           | 1.54        | 1.07         | 54.1          | 160.0         | 1.85          | 58                    | 171                   | 178         | 56     | 16                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| WH                  |   | Totals   |       | 1         | 80 96           | .535           | 1.54        | 1.07         | 54.1          | 160.0         | 1.85          | 58                    | 171                   | 178         | 56     | 16                  |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| SS                  |   | 25       | 1     | 74        | 43              | .453           | 1.54        | .45          | 26.3          | 30.0          | .31           | 12                    | 14                    | 30          | 11     | 1                   |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| SS                  |   | Totals   |       | 1         | 74 43           | .453           | 1.54        | .45          | 26.3          | 30.0          | 0.31          | 12                    | 14                    | 30          | 11     | 1                   |  |                     |  |  |  |       |  |  |  |  |  |  |  |
| Totals              |   |          |       | 114       | 84 90           | 85.101         | 175.94      | 169.99       | 34.3          | 135.7         | 165.39        | 5828                  | 23,068                | 15,877      | 5,595  | 2,215               |  |                     |  |  |  |       |  |  |  |  |  |  |  |



|                     |  |       |  |                       |  |              |  |       |  |        |  |                                          |  |              |  |      |  |           |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
|---------------------|--|-------|--|-----------------------|--|--------------|--|-------|--|--------|--|------------------------------------------|--|--------------|--|------|--|-----------|--|-----|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-----|--|
| TC TLOGSTVB         |  |       |  | Log Stock Table - MBF |  |              |  |       |  |        |  |                                          |  |              |  |      |  |           |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
|                     |  |       |  | Project:              |  |              |  | SIMMS |  |        |  |                                          |  |              |  |      |  |           |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| T02S R07W S12 TSALE |  |       |  |                       |  |              |  |       |  |        |  | T02S R07W S12 TSALE                      |  |              |  |      |  |           |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| Twp                 |  | Rge   |  | Sec                   |  | Tract        |  | Type  |  | Acres  |  | Plots                                    |  | Sample Trees |  | Page |  | 2         |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| 02S                 |  | 07W   |  | 12                    |  | 471 - AREA 4 |  | SALE  |  | 107.00 |  | 20                                       |  | 107          |  | Date |  | 6/9/2016  |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
|                     |  |       |  |                       |  |              |  |       |  |        |  |                                          |  |              |  | Time |  | 8:41:16AM |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| S                   |  | So Gr |  | Log                   |  | Gross        |  | % Net |  | % Spc  |  | Net Volume by Scaling Diameter in Inches |  |              |  |      |  |           |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| Spp                 |  | T     |  | rt de                 |  | Len          |  | MBF   |  | Def    |  | MBF                                      |  | 2-3          |  | 4-5  |  | 6-7       |  | 8-9 |  | 10-11 |  | 12-13 |  | 14-15 |  | 16-19 |  | 20-23 |  | 24-29 |  | 30-39 |  | 40+ |  |
| WH                  |  | CO    |  | 4                     |  | 26           |  | 2     |  |        |  | 2                                        |  | 14.3         |  | 2    |  |           |  |     |  |       |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| WH                  |  |       |  | Totals                |  |              |  | 14    |  |        |  | 14                                       |  | .9           |  | 2    |  |           |  |     |  | 12    |  |       |  |       |  |       |  |       |  |       |  |       |  |     |  |
| Total All Species   |  |       |  |                       |  |              |  | 1,621 |  | 1.6    |  | 1,595                                    |  | 100.0        |  | 159  |  | 98        |  | 118 |  | 267   |  | 342   |  | 326   |  | 180   |  | 94    |  | 11    |  |       |  |     |  |

| Stand Table Summary |     |        |              |           |                |             |              |             |               |               |               |                |                     |        |            |       |
|---------------------|-----|--------|--------------|-----------|----------------|-------------|--------------|-------------|---------------|---------------|---------------|----------------|---------------------|--------|------------|-------|
| Project SIMMS       |     |        |              |           |                |             |              |             |               |               |               |                |                     |        |            |       |
| T02S R07W S12 TSALE |     |        |              |           |                |             |              |             |               |               |               |                | T02S R07W S12 TSALE |        |            |       |
| Twp                 | Rge | Sec    | Tract        | Type      |                |             |              | Acres       |               | Plots         | Sample Trees  |                |                     | Page:  | 1          |       |
| 02S                 | 07W | 12     | 471 - AREA 4 | SALE      |                |             |              | 107.00      |               | 20            | 107           |                |                     | Date:  | 06/09/2016 |       |
|                     |     |        |              |           |                |             |              |             |               |               |               |                |                     | Time:  | 8:41:17AM  |       |
| S<br>Spc            | T   | Sample |              | Av        | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log |               | Tons/<br>Acre | Net           | Net            | T o t a l s         |        |            |       |
|                     |     | DBH    | Trees        | FF<br>16' |                |             |              | Ht<br>Tot   | Net<br>Cu.Ft. |               | Net<br>Bd.Ft. | Cu.Ft.<br>Acre | Bd.Ft.<br>Acre      | Tons   | Cunits     | MBF   |
| DF                  |     | 9      | 1            | 75        | 35             | 3.144       | 1.39         | 3.14        | 5.5           | 20.0          | .49           | 17             | 63                  | 53     | 18         | 7     |
| DF                  |     | 10     | 3            | 75        | 52             | 7.640       | 4.17         | 7.64        | 9.4           | 30.0          | 2.05          | 72             | 229                 | 220    | 77         | 25    |
| DF                  |     | 12     | 1            | 79        | 45             | 1.769       | 1.39         | 1.77        | 12.3          | 30.0          | .62           | 22             | 53                  | 67     | 23         | 6     |
| DF                  |     | 13     | 1            | 85        | 54             | 1.507       | 1.39         | 1.51        | 18.0          | 40.0          | .77           | 27             | 60                  | 83     | 29         | 6     |
| DF                  |     | 14     | 5            | 81        | 57             | 6.497       | 6.95         | 9.10        | 14.4          | 40.0          | 3.73          | 131            | 364                 | 399    | 140        | 39    |
| DF                  |     | 15     | 2            | 84        | 61             | 2.264       | 2.78         | 3.40        | 17.8          | 50.0          | 1.73          | 61             | 170                 | 185    | 65         | 18    |
| DF                  |     | 16     | 3            | 83        | 70             | 2.984       | 4.17         | 4.97        | 20.2          | 56.0          | 2.86          | 100            | 279                 | 306    | 107        | 30    |
| DF                  |     | 17     | 1            | 86        | 98             | .881        | 1.39         | 1.76        | 27.7          | 110.0         | 1.39          | 49             | 194                 | 149    | 52         | 21    |
| DF                  |     | 18     | 7            | 85        | 93             | 5.502       | 9.72         | 11.00       | 29.4          | 107.1         | 9.22          | 323            | 1,179               | 986    | 346        | 126   |
| DF                  |     | 19     | 7            | 86        | 98             | 4.938       | 9.72         | 10.58       | 32.3          | 120.7         | 9.74          | 342            | 1,277               | 1,043  | 366        | 137   |
| DF                  |     | 20     | 11           | 85        | 86             | 7.003       | 15.28        | 13.37       | 34.8          | 114.3         | 13.26         | 465            | 1,528               | 1,419  | 498        | 163   |
| DF                  |     | 21     | 8            | 84        | 89             | 4.620       | 11.11        | 9.24        | 37.3          | 122.5         | 9.83          | 345            | 1,132               | 1,051  | 369        | 121   |
| DF                  |     | 22     | 7            | 85        | 93             | 3.683       | 9.72         | 7.37        | 41.4          | 138.6         | 8.70          | 305            | 1,021               | 931    | 326        | 109   |
| DF                  |     | 23     | 7            | 85        | 93             | 3.370       | 9.72         | 7.22        | 45.8          | 162.7         | 9.43          | 331            | 1,175               | 1,009  | 354        | 126   |
| DF                  |     | 24     | 8            | 84        | 98             | 3.537       | 11.11        | 7.52        | 52.8          | 187.6         | 11.31         | 397            | 1,410               | 1,211  | 425        | 151   |
| DF                  |     | 25     | 2            | 85        | 101            | .815        | 2.78         | 1.63        | 61.4          | 232.5         | 2.85          | 100            | 379                 | 305    | 107        | 41    |
| DF                  |     | 26     | 5            | 84        | 100            | 1.884       | 6.95         | 4.52        | 55.9          | 218.3         | 7.20          | 253            | 987                 | 770    | 270        | 106   |
| DF                  |     | 27     | 2            | 81        | 97             | .699        | 2.78         | 1.40        | 72.2          | 240.0         | 2.88          | 101            | 335                 | 308    | 108        | 36    |
| DF                  |     | 28     | 3            | 80        | 93             | .974        | 4.17         | 2.27        | 61.5          | 218.6         | 3.99          | 140            | 497                 | 426    | 150        | 53    |
| DF                  |     | 31     | 1            | 80        | 108            | .265        | 1.39         | .53         | 100.7         | 360.0         | 1.52          | 53             | 191                 | 163    | 57         | 20    |
| DF                  |     | 32     | 3            | 83        | 105            | .746        | 4.17         | 1.74        | 91.7          | 380.0         | 4.55          | 160            | 662                 | 487    | 171        | 71    |
| DF                  |     | 33     | 2            | 82        | 109            | .468        | 2.78         | .94         | 114.9         | 455.0         | 3.06          | 107            | 426                 | 328    | 115        | 46    |
| DF                  |     | 35     | 1            | 82        | 89             | .208        | 1.39         | .62         | 60.6          | 306.7         | 1.08          | 38             | 191                 | 115    | 40         | 20    |
| DF                  |     | Totals | 91           | 82        | 78             | 65.398      | 126.40       | 113.24      | 34.8          | 121.9         | 112.27        | 3,939          | 13,801              | 12,012 | 4,215      | 1,477 |
| RA                  |     | 12     | 1            | 68        | 49             | 1.769       | 1.39         |             |               |               |               |                |                     |        |            |       |
| RA                  |     | 14     | 1            | 84        | 47             | 1.299       | 1.39         | 1.30        | 21.5          | 40.0          | .77           | 28             | 52                  | 82     | 30         | 6     |
| RA                  |     | 15     | 1            | 85        | 54             | 1.132       | 1.39         | 1.13        | 28.5          | 60.0          | .89           | 32             | 68                  | 95     | 34         | 7     |
| RA                  |     | 16     | 1            | 77        | 34             | .995        | 1.39         | .99         | 19.4          | 60.0          | .53           | 19             | 60                  | 57     | 21         | 6     |
| RA                  |     | 17     | 3            | 78        | 51             | 2.644       | 4.17         | 2.64        | 34.2          | 56.7          | 2.49          | 90             | 150                 | 266    | 97         | 16    |
| RA                  |     | 18     | 2            | 81        | 58             | 1.572       | 2.78         | 1.57        | 37.4          | 110.0         | 1.62          | 59             | 173                 | 173    | 63         | 19    |
| RA                  |     | 19     | 2            | 81        | 67             | 1.411       | 2.78         | 2.12        | 35.8          | 96.7          | 2.08          | 76             | 205                 | 223    | 81         | 22    |
| RA                  |     | 20     | 1            | 75        | 56             | .637        | 1.39         | .64         | 17.7          | 30.0          | .31           | 11             | 19                  | 33     | 12         | 2     |
| RA                  |     | 22     | 1            | 78        | 75             | .526        | 1.39         | 1.05        | 41.4          | 105.0         | 1.20          | 44             | 110                 | 128    | 47         | 12    |
| RA                  |     | 26     | 1            | 81        | 71             | .377        | 1.39         | .38         | 83.3          | 350.0         | .86           | 31             | 132                 | 92     | 34         | 14    |
| RA                  |     | Totals | 14           | 78        | 54             | 12.361      | 19.45        | 11.82       | 33.0          | 81.9          | 10.74         | 391            | 968                 | 1,149  | 418        | 104   |
| WH                  |     | 20     | 1            | 77        | 83             | .637        | 1.39         | 1.27        | 35.8          | 105.0         | 1.46          | 46             | 134                 | 156    | 49         | 14    |
| WH                  |     | Totals | 1            | 77        | 83             | .637        | 1.39         | 1.27        | 35.8          | 105.0         | 1.46          | 46             | 134                 | 156    | 49         | 14    |
| OC                  |     | 28     | 1            | 82        | 95             | .325        | 1.39         |             |               |               |               |                |                     |        |            |       |
| OC                  |     | Totals | 1            | 82        | 95             | .325        | 1.39         |             |               |               |               |                |                     |        |            |       |
| Totals              |     |        | 107          | 82        | 74             | 78.720      | 148.62       | 126.34      | 34.6          | 118.0         | 124.47        | 4375           | 14,903              | 13,318 | 4,682      | 1,595 |

|                     |          |     |            |      |        |       |              |       |                                          |                     |                                         |     |       |       |       |       |       |       |       |     |
|---------------------|----------|-----|------------|------|--------|-------|--------------|-------|------------------------------------------|---------------------|-----------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-----|
| FI                  | TLOGSTVB |     |            |      |        |       |              |       |                                          |                     | Log Stock Table - MBF<br>Project: SIMMS |     |       |       |       |       |       |       |       |     |
| T02S R07W S06 TSALE |          |     |            |      |        |       |              |       |                                          | T02S R07W S06 TSALE |                                         |     |       |       |       |       |       |       |       |     |
| Twp                 | Rge      | Sec | Tract      | Type | Acres  | Plots | Sample Trees | Page  | 1                                        |                     |                                         |     |       |       |       |       |       |       |       |     |
| 02S                 | 07W      | 06  | 7 - A5GROW | SALE | 106.00 | 20    | 121          | Date  | 6/8/2016                                 |                     |                                         |     |       |       |       |       |       |       |       |     |
|                     |          |     |            |      |        |       |              |       |                                          | Time                | 9:30:24AM                               |     |       |       |       |       |       |       |       |     |
| Spp                 | S        | So  | Gr         | Log  | Gross  | % Def | Net          | % Spc | Net Volume by Scaling Diameter in Inches |                     |                                         |     |       |       |       |       |       |       |       |     |
|                     |          |     |            |      |        |       |              |       | 2-3                                      | 4-5                 | 6-7                                     | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ |
| DF                  | CO       | 2   | 19         |      | 11     |       | 11           | .4    |                                          |                     |                                         |     |       |       |       | 11    |       |       |       |     |
| DF                  | CO       | 2   | 32         |      | 317    |       | 317          | 10.5  |                                          |                     |                                         |     |       | 75    | 107   | 134   |       |       |       |     |
| DF                  | CO       | 2   | 36         |      | 18     | 16.7  | 15           | .5    |                                          |                     |                                         |     |       | 15    |       |       |       |       |       |     |
| DF                  | CO       | 2   | 40         |      | 875    | .5    | 871          | 28.8  |                                          |                     |                                         |     |       | 390   | 345   | 136   |       |       |       |     |
| DF                  | CO       | 3   | 20         |      | 5      |       | 5            | .2    |                                          |                     |                                         |     | 5     |       |       |       |       |       |       |     |
| DF                  | CO       | 3   | 26         |      | 6      |       | 6            | .2    |                                          |                     |                                         | 6   |       |       |       |       |       |       |       |     |
| DF                  | CO       | 3   | 27         |      | 11     |       | 11           | .4    |                                          | 3                   |                                         | 8   |       |       |       |       |       |       |       |     |
| DF                  | CO       | 3   | 32         |      | 205    | 9.1   | 187          | 6.2   |                                          |                     | 28                                      | 33  | 64    | 62    |       |       |       |       |       |     |
| DF                  | CO       | 3   | 35         |      | 3      |       | 3            | .1    |                                          |                     | 3                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 3   | 36         |      | 16     |       | 16           | .5    |                                          |                     |                                         |     | 16    |       |       |       |       |       |       |     |
| DF                  | CO       | 3   | 38         |      | 14     |       | 14           | .5    |                                          |                     |                                         | 14  |       |       |       |       |       |       |       |     |
| DF                  | CO       | 3   | 40         |      | 1,292  | 1.5   | 1,272        | 42.1  |                                          |                     | 165                                     | 470 | 454   | 164   | 19    |       |       |       |       |     |
| DF                  | CO       | 4   | 12         |      | 2      |       | 2            | .1    |                                          | 2                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 13         |      | 3      |       | 3            | .1    |                                          | 3                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 14         |      | 5      |       | 5            | .2    |                                          | 4                   | 1                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 15         |      | 11     |       | 11           | .4    |                                          | 11                  |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 16         |      | 20     |       | 20           | .7    |                                          | 20                  |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 17         |      | 13     |       | 13           | .4    |                                          | 13                  |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 18         |      | 27     |       | 27           | .9    |                                          | 21                  | 5                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 19         |      | 13     |       | 13           | .4    |                                          | 12                  | 1                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 20         |      | 10     |       | 10           | .3    |                                          | 8                   | 2                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 21         |      | 16     |       | 16           | .5    |                                          | 16                  |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 22         |      | 1      |       | 1            | .0    |                                          | 1                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 23         |      | 7      |       | 7            | .2    |                                          | 7                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 24         |      | 13     |       | 13           | .4    |                                          | 11                  | 2                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 25         |      | 7      |       | 7            | .2    |                                          | 6                   | 2                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 26         |      | 10     |       | 10           | .3    |                                          | 10                  |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 27         |      | 5      |       | 5            | .2    |                                          | 5                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 28         |      | 2      |       | 2            | .1    |                                          | 2                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 29         |      | 2      |       | 2            | .1    |                                          |                     | 2                                       |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 31         |      | 2      |       | 2            | .1    |                                          | 2                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 32         |      | 3      |       | 3            | .1    |                                          | 3                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 33         |      | 2      |       | 2            | .1    |                                          | 2                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 34         |      | 6      |       | 6            | .2    |                                          | 6                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 37         |      | 2      |       | 2            | .1    |                                          | 2                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 39         |      | 2      |       | 2            | .1    |                                          | 2                   |                                         |     |       |       |       |       |       |       |       |     |
| DF                  | CO       | 4   | 40         |      | 110    |       | 110          | 3.6   |                                          | 23                  | 87                                      |     |       |       |       |       |       |       |       |     |
| DF                  | Totals   |     |            |      | 3,068  | 1.5   | 3,022        | 97.8  |                                          | 197                 | 297                                     | 531 | 538   | 707   | 472   | 281   |       |       |       |     |
| RA                  | *        | *   | 32         |      | 45     |       | 45           | 87.4  |                                          |                     | 45                                      |     |       |       |       |       |       |       |       |     |
| RA                  | H        | 4   | 28         |      | 6      |       | 6            | 12.6  |                                          |                     | 6                                       |     |       |       |       |       |       |       |       |     |
| RA                  | Totals   |     |            |      | 51     |       | 51           | 1.7   |                                          |                     | 51                                      |     |       |       |       |       |       |       |       |     |
| OC                  | *        | *   | 32         |      | 16     |       | 16           | 100.0 |                                          |                     | 16                                      |     |       |       |       |       |       |       |       |     |
| OC                  | Totals   |     |            |      | 16     |       | 16           | .5    |                                          |                     | 16                                      |     |       |       |       |       |       |       |       |     |
| Total All Species   |          |     |            |      | 3,136  | 1.5   | 3,090        | 100.0 |                                          | 197                 | 364                                     | 531 | 538   | 707   | 472   | 281   |       |       |       |     |

| FI                  |     | TSTNDSUM |            |     |          |                |             |              |               |               |               |                |                |                     |        | Stand Table Summary |  |  |  |  |  |
|---------------------|-----|----------|------------|-----|----------|----------------|-------------|--------------|---------------|---------------|---------------|----------------|----------------|---------------------|--------|---------------------|--|--|--|--|--|
| Project             |     |          |            |     |          |                |             |              |               |               |               |                |                | SIMMS               |        |                     |  |  |  |  |  |
| T02S R07W S06 TSALE |     |          |            |     |          |                |             |              |               |               |               |                |                | T02S R07W S06 TSALE |        |                     |  |  |  |  |  |
| Twp                 | Rge | Sec      | Tract      |     | Type     |                |             | Acres        |               | Plots         | Sample Trees  |                |                | Page: 1             |        |                     |  |  |  |  |  |
| 02S                 | 07W | 06       | 7 - A5GROW |     | SALE     |                |             | 106.00       |               | 20            | 121           |                |                | Date: 06/08/2016    |        |                     |  |  |  |  |  |
|                     |     |          |            |     |          |                |             |              |               |               |               |                |                | Time: 9:30:25AM     |        |                     |  |  |  |  |  |
| S<br>Spc            | T   | Sample   |            | FF  | Av<br>Ht | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log   |               | Tons/<br>Acre | Net            | Net            | T o t a l s         |        |                     |  |  |  |  |  |
|                     |     | DBH      | Trees      | 16' | Tot      |                |             |              | Net<br>Cu.Ft. | Net<br>Bd.Ft. |               | Cu.Ft.<br>Acre | Bd.Ft.<br>Acre | Tons                | Cunits | MBF                 |  |  |  |  |  |
| DF                  |     | 11       |            | 79  | 108      | 2.460          | 1.50        | 5.22         | 8.2           | 41.1          | 1.21          | 43             | 215            | 128                 | 45     | 23                  |  |  |  |  |  |
| DF                  |     | 12       |            | 81  | 90       | 2.033          | 1.50        | 2.16         | 4.7           | 23.5          | .29           | 10             | 51             | 30                  | 11     | 5                   |  |  |  |  |  |
| DF                  |     | 13       |            | 81  | 91       | 1.708          | 1.50        | 1.81         | 19.0          | 70.5          | 1.20          | 34             | 128            | 127                 | 37     | 14                  |  |  |  |  |  |
| DF                  |     | 14       |            | 82  | 115      | 8.732          | 9.01        | 21.63        | 14.8          | 63.0          | 9.25          | 321            | 1,362          | 981                 | 340    | 144                 |  |  |  |  |  |
| DF                  |     | 15       |            | 79  | 80       | 2.510          | 3.00        | 5.33         | 14.9          | 47.0          | 2.25          | 80             | 251            | 238                 | 84     | 27                  |  |  |  |  |  |
| DF                  |     | 16       |            | 82  | 123      | 7.652          | 10.51       | 19.73        | 18.9          | 78.8          | 10.78         | 373            | 1,555          | 1,143               | 396    | 165                 |  |  |  |  |  |
| DF                  |     | 17       |            | 82  | 119      | 5.765          | 9.01        | 13.26        | 23.5          | 94.0          | 8.83          | 312            | 1,247          | 936                 | 331    | 132                 |  |  |  |  |  |
| DF                  |     | 18       |            | 84  | 120      | 7.660          | 13.51       | 18.98        | 28.4          | 117.0         | 15.25         | 539            | 2,219          | 1,617               | 572    | 235                 |  |  |  |  |  |
| DF                  |     | 19       |            | 83  | 129      | 15.182         | 30.03       | 42.72        | 28.5          | 116.4         | 35.33         | 1,218          | 4,973          | 3,745               | 1,291  | 527                 |  |  |  |  |  |
| DF                  |     | 20       |            | 83  | 130      | 7.494          | 16.51       | 22.42        | 31.6          | 126.2         | 20.03         | 708            | 2,831          | 2,123               | 751    | 300                 |  |  |  |  |  |
| DF                  |     | 21       |            | 83  | 131      | 3.689          | 9.01        | 11.10        | 35.8          | 147.2         | 11.24         | 397            | 1,634          | 1,191               | 421    | 173                 |  |  |  |  |  |
| DF                  |     | 22       |            | 82  | 119      | 3.904          | 10.51       | 11.25        | 37.4          | 146.6         | 11.91         | 421            | 1,649          | 1,263               | 446    | 175                 |  |  |  |  |  |
| DF                  |     | 23       |            | 84  | 126      | 7.114          | 21.02       | 21.04        | 41.6          | 177.5         | 24.75         | 875            | 3,735          | 2,623               | 927    | 396                 |  |  |  |  |  |
| DF                  |     | 24       |            | 81  | 120      | 5.579          | 18.02       | 16.29        | 45.9          | 183.4         | 21.13         | 747            | 2,988          | 2,240               | 792    | 317                 |  |  |  |  |  |
| DF                  |     | 25       |            | 82  | 136      | .854           | 3.00        | 2.72         | 49.9          | 223.3         | 3.84          | 136            | 607            | 407                 | 144    | 64                  |  |  |  |  |  |
| DF                  |     | 26       |            | 79  | 132      | 2.755          | 10.51       | 8.77         | 47.1          | 207.6         | 11.68         | 413            | 1,822          | 1,238               | 438    | 193                 |  |  |  |  |  |
| DF                  |     | 28       |            | 82  | 118      | .728           | 3.00        | 2.32         | 52.0          | 235.0         | 3.41          | 121            | 545            | 361                 | 128    | 58                  |  |  |  |  |  |
| DF                  |     | 29       |            | 77  | 124      | 1.012          | 4.50        | 2.87         | 53.2          | 245.3         | 4.31          | 152            | 703            | 457                 | 162    | 75                  |  |  |  |  |  |
| DF                  |     | Totals   |            | 82  | 121      | 86.831         | 175.65      | 229.63       | 30.1          | 124.2         | 196.68        | 6,901          | 28,514         | 20,848              | 7,315  | 3,022               |  |  |  |  |  |
| RA                  |     | 12       |            | 69  | 67       | 3.827          | 2.90        | 3.83         | 24.4          | 110.8         | 2.51          | 93             | 424            | 266                 | 99     | 45                  |  |  |  |  |  |
| RA                  |     | 13       |            | 80  | 45       | 1.608          | 1.45        | 1.66         | 13.7          | 36.8          | .68           | 23             | 61             | 72                  | 24     | 6                   |  |  |  |  |  |
| RA                  |     | Totals   |            | 72  | 61       | 5.435          | 4.35        | 5.48         | 21.2          | 88.4          | 3.19          | 116            | 485            | 338                 | 123    | 51                  |  |  |  |  |  |
| OC                  |     | 16       |            | 88  | 91       | 1.040          | 1.52        | 1.04         | 48.2          | 148.3         | 1.25          | 50             | 154            | 133                 | 53     | 16                  |  |  |  |  |  |
| OC                  |     | Totals   |            | 88  | 91       | 1.040          | 1.52        | 1.04         | 48.2          | 148.3         | 1.25          | 50             | 154            | 133                 | 53     | 16                  |  |  |  |  |  |
| Totals              |     |          |            | 82  | 117      | 93.305         | 181.53      | 236.15       | 29.9          | 123.5         | 201.13        | 7067           | 29,153         | 21,319              | 7,491  | 3,090               |  |  |  |  |  |



"STEWARDSHIP IN FORESTRY"

## The Simms

### Volume Summary

| Area 1-Modified Clearcut |             |             |        |          |
|--------------------------|-------------|-------------|--------|----------|
| 108 acres                |             |             |        |          |
| SPECIES                  | Cruised Net | Cruised Net | Hidden | Net Sale |
|                          | MBF/ Acre   | MBF         | D&B    | MBF      |
| Douglas-fir              | 11.6        | 1248        | 1%     | 1236     |
| Hemlock                  | 0.0         | 0           | 1%     | 0        |
| Spruce                   | 0.0         | 0           | 1%     | 0        |
| Noble Fir                | 0.4         | 44          | 1%     | 44       |
| Alder                    | 1.9         | 207         | 2%     | 203      |
| TOTAL                    | 13.9        | 1499        |        | 1483     |

| Areas 2-Modified Clearcut |             |             |        |          |
|---------------------------|-------------|-------------|--------|----------|
| 104 acres                 |             |             |        |          |
| SPECIES                   | Cruised Net | Cruised Net | Hidden | Net Sale |
|                           | MBF/ Acre   | MBF         | D&B    | MBF      |
| Douglas-fir               | 13.6        | 1429        | 1%     | 1415     |
| Hemlock                   |             | 0           | 1%     | 0        |
| Spruce                    |             | 0           | 1%     | 0        |
| Noble Fir                 |             | 0           | 1%     | 0        |
| Alder                     | 0.5         | 51          | 2%     | 50       |
| TOTAL                     | 14.1        | 1480        |        | 1465     |

| Areas 3-Modified Clearcut |             |             |        |          |
|---------------------------|-------------|-------------|--------|----------|
| 96 acres                  |             |             |        |          |
| SPECIES                   | Cruised Net | Cruised Net | Hidden | Net Sale |
|                           | MBF/ Acre   | MBF         | D&B    | MBF      |
| Douglas-fir               | 19.7        | 1888        | 1%     | 1869     |
| Hemlock                   | 0.2         | 16          | 1%     | 16       |
| Spruce                    |             | 0           | 1%     | 0        |
| Noble Fir                 |             | 0           | 1%     | 0        |
| Alder                     | 3.2         | 309         | 2%     | 303      |
| TOTAL                     | 23.1        | 2213        |        | 2188     |



"STEWARDSHIP IN FORESTRY"

## The Simms

### Volume Summary

| Areas 4-Modified Clearcut |             |             |        |          |
|---------------------------|-------------|-------------|--------|----------|
| 107 acres                 |             |             |        |          |
| SPECIES                   | Cruised Net | Cruised Net | Hidden | Net Sale |
|                           | MBF/ Acre   | MBF         | D&B    | MBF      |
| Douglas-fir               | 13.8        | 1477        | 1%     | 1462     |
| Hemlock                   | 0.1         | 14          | 1%     | 14       |
| Spruce                    |             | 0           | 1%     | 0        |
| Noble Fir                 |             | 0           | 1%     | 0        |
| Alder                     | 1.0         | 103         | 2%     | 101      |
| TOTAL                     | 14.9        | 1594        |        | 1577     |

| Areas 5-Modified Clearcut |             |             |        |          |
|---------------------------|-------------|-------------|--------|----------|
| 106 acres                 |             |             |        |          |
| SPECIES                   | Cruised Net | Cruised Net | Hidden | Net Sale |
|                           | MBF/ Acre   | MBF         | D&B    | MBF      |
| Douglas-fir               | 28.5        | 3022        | 1%     | 2992     |
| Hemlock                   |             | 0           | 1%     | 0        |
| Spruce                    |             | 0           | 1%     | 0        |
| Noble Fir                 |             | 0           | 1%     | 0        |
| Alder                     | 0.5         | 51          | 2%     | 50       |
| TOTAL                     | 29.0        | 3073        |        | 3042     |



"STEWARDSHIP IN FORESTRY"

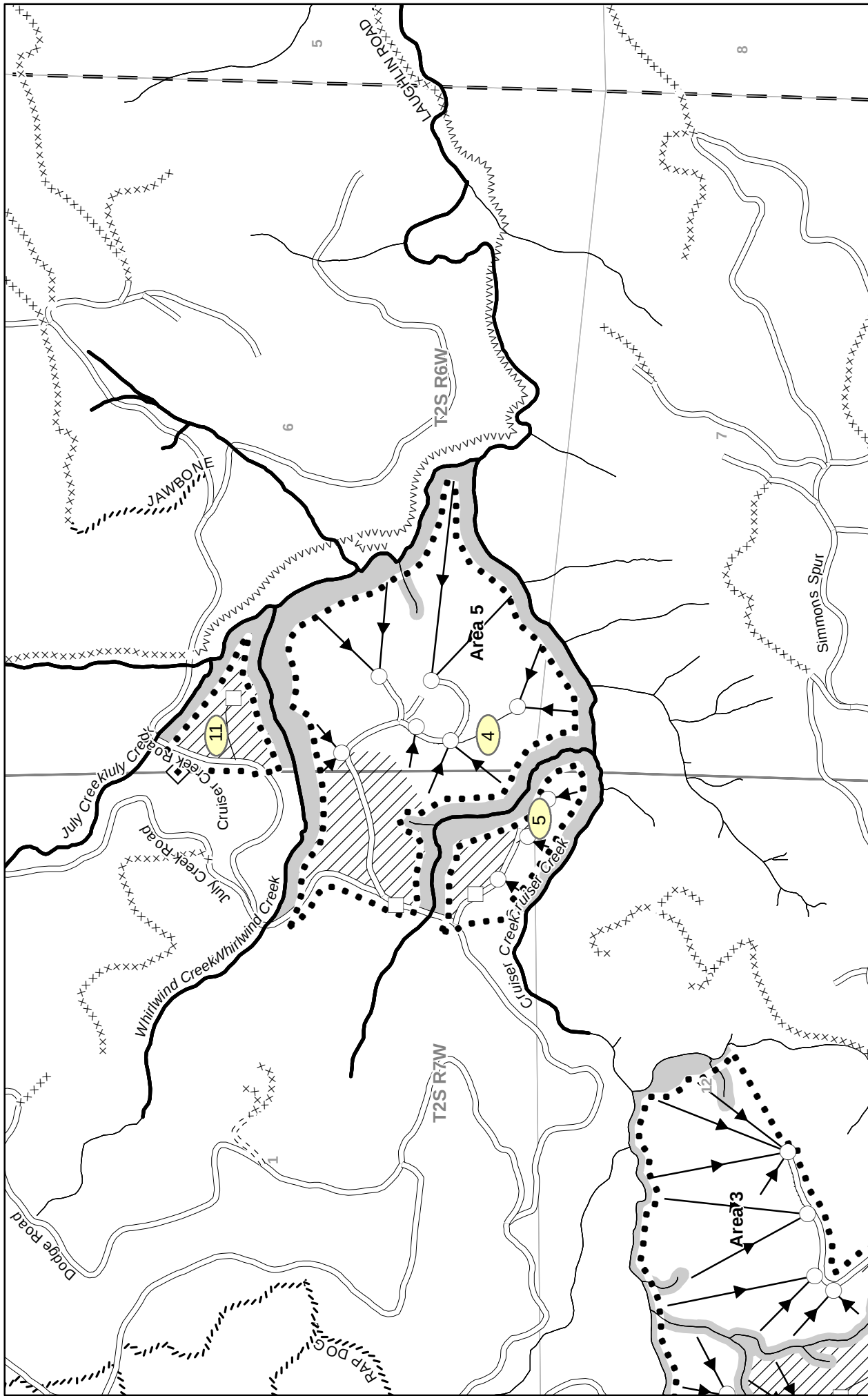
## *The Simms*

### Volume Summary

---

| TOTAL SALE VOLUME |                   | 521            | acres |
|-------------------|-------------------|----------------|-------|
| SPECIES           | Cruised Net (MBF) | Net Sale (MBF) |       |
| Douglas-fir       | 9064              | 8974           |       |
| Hemlock           | 30                | 30             |       |
| Spruce            | 0                 | 0              |       |
| Noble Fir         | 44                | 44             |       |
| Red Alder         | 721               | 707            |       |
| <b>TOTAL</b>      | <b>9859</b>       | <b>9755</b>    |       |





**LOGGING PLAN**  
**Timber Sale Contract No. 341-17-46**  
**THE SIMMS**  
**Portions of Sections 1, 10, 11, 12, 13, & 14,**  
**T2S, R7W, AND Portions of Section 6 & 7,**  
**T2S, R6W, W.M., Tillamook County, Oregon**

Acres  
 Gross Net  
 126 108  
 130 104  
 119 96  
 131 107  
 154 106  
 Total 660 521

Tillamook District GIS  
 12/29/2016

This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.

**Rock source**  
 Stock pile  
 Waste area  
 Bridge  
 Gate  
 Survey corner  
 Domestic water supply intake  
 Truck turn-around  
 Helicopter landing zone

**Restricted area**  
 Area boundary  
 Sale boundary  
 Ownership boundary  
 Fish stream  
 Non-fish stream  
 Unsurfaced road  
 Surfaced road  
 Paved road  
 Abandoned road

**Buffer**  
 Non-required thinning  
 Cable yarding  
 Ground yarding  
 Helicopter yarding  
 Downhill yarding  
 Green tree retention area

**Swing road**  
 Non-project road  
 Blocked road  
 OHV trail  
 Non-motorized trail  
 Transmission line  
 Railroad  
 Cable yarding  
 Ground Landing  
 Yarder Landing

**Area**  
 1  
 2  
 3  
 4  
 5  
 Total

**Type of Operation**  
 Modified Clearcut  
 Modified Clearcut  
 Modified Clearcut  
 Modified Clearcut  
 Modified Clearcut

**Scale**  
 1,000 0 1,000 Feet

**North Arrow**  
 N