



Timber Sale Appraisal
Schetky Green
Sale FG-341-2017-35-

District: Forest Grove

Date: January 27, 2017

Cost Summary

| | Conifer | Hardwood | Total |
|-------------------------|----------------|-------------------|----------------|
| Gross Timber Sale Value | \$1,483,164.72 | \$5,249.44 | \$1,488,414.16 |
| | | Project Work: | (\$38,590.00) |
| | | Advertised Value: | \$1,449,824.16 |



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Timber Description

Location: Portions of Section 17, T1S, R6W, W.M., Washington County, and portions of Section 18, T1S, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

| Specie Name | AvgDBH | Amortization (%) | Recovery (%) |
|---------------|--------|------------------|--------------|
| Douglas - Fir | 19 | 0 | 98 |
| Alder (Red) | 15 | 0 | 95 |

| Volume by Grade | 2S | 3S | 4S | Camprun | Total |
|-----------------|-------|-------|-----|---------|-------|
| Douglas - Fir | 2,415 | 1,237 | 164 | 0 | 3,816 |
| Alder (Red) | 0 | 0 | 0 | 14 | 14 |
| Total | 2,415 | 1,237 | 164 | 14 | 3,830 |

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

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$245.54/\text{MBF} = \$490/\text{MBF} - \$244.46/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$865.54/\text{MBF} = \$1,110/\text{MBF} - \$244.46/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/MBF

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Non-Project Road: 4 stations @ \$100/sta. = \$400

TOTAL Other Costs (with Profit & Risk to be added) = \$400

Other Costs (No Profit & Risk added):

Pile Landing Slash: 20 hrs @ \$150/hr = \$3,000

Slash Treatment: 15 acres @ \$150/acre = \$2,250

Equipment Cleaning: 2 pieces @ \$1,000/piece = \$2,000

Snag creation: 107 snags @ \$40 ea. = \$4,280

Road Use Fee: 3,830 MBF x 24.8 miles @ \$.50/MBF/Mile = \$47,492

TOTAL Other Costs (No Profit & Risk added) = \$59,022

Road Maintenance

Move-In: \$2,000

Road Maintenance: 13.2 miles @ \$1,200/mile = \$15,840

TOTAL Road Maintenance: \$17,840/3,830 MBF = \$4.66/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 78.00%
 Alder (Red) 78.00%

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

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 10 **bd. ft / load:** 4600

cost / mbf: \$130.44

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

Combination#: 2 Douglas - Fir 22.00%
 Alder (Red) 22.00%

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

yarding distance: Short (400 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 16 **bd. ft / load:** 4600

cost / mbf: \$43.10

machines: Stroke Delimber (B)



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Logging Costs

| | |
|----------------------------|-----------------------------|
| Operating Seasons: 1.00 | Profit Risk: 10% |
| Project Costs: \$38,590.00 | Other Costs (P/R): \$400.00 |
| Slash Disposal: \$0.00 | Other Costs: \$59,022.00 |

Miles of Road

Road Maintenance: \$4.66

| Dirt | Rock (Contractor) | Rock (State) | Paved |
|------|----------------------|-----------------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 |

Hauling Costs

| Species | \$ / MBF | Trips/Day | MBF / Load |
|---------------|----------|-----------|------------|
| Douglas - Fir | \$0.00 | 2.0 | 4.7 |
| Alder (Red) | \$0.00 | 2.0 | 3.8 |



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Logging Costs Breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling / Brand & Paint | Other | Total |
|----------------------|------------|--------------|----------|----------------|---------------|----------------|-------------------------|---------|----------|
| Douglas - Fir | | | | | | | | | |
| \$111.23 | \$4.75 | \$1.14 | \$84.64 | \$0.10 | \$20.19 | \$0.00 | \$7.00 | \$15.41 | \$244.46 |
| Alder (Red) | | | | | | | | | |
| \$111.23 | \$4.89 | \$1.14 | \$107.76 | \$0.10 | \$22.51 | \$0.00 | \$7.00 | \$15.41 | \$270.04 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|---------------|--------------|------------|----------|-----------|
| Douglas - Fir | \$0.00 | \$633.13 | \$388.67 | \$0.00 |
| Alder (Red) | \$0.00 | \$645.00 | \$374.96 | \$0.00 |



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Summary

Amortized

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

Unamortized

| Specie | MBF | Value | Total |
|---------------|-------|----------|----------------|
| Douglas - Fir | 3,816 | \$388.67 | \$1,483,164.72 |
| Alder (Red) | 14 | \$374.96 | \$5,249.44 |

Gross Timber Sale Value

Recovery: \$1,488,414.16

Prepared By: Eric Foucht

Phone: 503-359-7473

TIMBER SALE SUMMARY
Schetky Green
Contract No. 341-17-35

1. **Location:** Portions of Section 17, T1S, R6W, W.M., Washington County, Oregon and Portions of Section 18, T1S, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** This timber sale is 107 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, 98% Washington County and 2%Tillamook County, (Tax Code 9-2.)
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in November of 2016. For more information see the Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked 60 year old Douglas-fir stand with a minor component of red alder. The stand has an average of 209 ft² of basal area (all species), an average Douglas-fir DBH of 19 inches, and an estimated average net Douglas-fir volume of approximately 36.4 MBF per acre.

7. **Volume Summary** *(Volumes in MBF)*

| SPECIES | | 2 SAW | 3 SAW | 4 SAW | CR | TOTAL |
|--------------|------------------|-------|-------|-------|-----|-------|
| Douglas-fir | Cruise Volume | 2,464 | 1,262 | 167 | | 3,893 |
| | Hidden D&B (2%) | (49) | (25) | (3) | | (77) |
| | NET TOTAL | 2,415 | 1,237 | 164 | | 3,816 |
| | % of Total | 63 | 32 | 4 | | |
| Red alder | Cruise Volume | | | | 15 | 15 |
| | Hidden D&B (5%) | | | | (1) | (1) |
| | NET TOTAL | | | | 14 | 14 |
| | % of Total | | | | 100 | |
| TOTAL | | | | | | 3,830 |

8. **Topography and Logging Method:** Slopes within the sale areas range from 10% to over 100% but generally fall within 30% to 60%. Aspects are variable. The timber sale is 22% ground-based yarding and 78% cable yarding. The maximum cable corridor length is approximately 1300 feet and the average is around 600 feet. The average

horizontal skid trail length is approximately 350 feet and the maximum is approximately 700 feet. Most tractor skidding will be down-hill.

9. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel south on Highway 47 for approximately 5 miles and turn west onto Scoggins Valley Road. Continue 3.4 miles and turn left onto West Shore Road. Proceed 1.7 miles and turn left onto Lee Road. Continue 0.4 miles and turn right onto the Stimson Mainline. Proceed approximately 13 miles, to the junction of the Stimson Mainline and the 2500 road. Continue on the 2500 Road 11.6 miles to the northwest corner of the Timber Sale Area.

10. Projects:

| | |
|---|-------------|
| Project No. 1: Road Improvement | \$7,796.40 |
| Project No. 2: Road Surfacing | \$21,517.17 |
| Project No. 3: Grass Seed, Fertilize, and Mulch | \$459.25 |
| Move in and equipment cleaning; | \$8,817.18 |

| | |
|-------------------------------|-------------|
| Total Credit for all Projects | \$38,590.00 |
|-------------------------------|-------------|

PROJECT COST SUMMARY SHEET

Timber Sale: Schetky Green
Sale Number: 341-17-35

PROJECT NO. 1: ROAD IMPROVEMENT

| <u>Road Segment</u> | <u>Length</u> | <u>Cost</u> |
|---------------------|---------------|-------------|
| A to B | 25+50 | \$7,415.28 |
| C to D | 1+45 | \$160.00 |
| E to F | 1+95 | \$221.12 |
| 28+90 stations | | |
| 0.55 miles | | |

TOTAL PROJECT NO. 1 COST = \$7,796.40

PROJECT NO. 2: SURFACING

| <u>Road Segment</u> | <u>Rock Amount</u> | <u>Rock Type</u> | <u>Cost</u> |
|---------------------|--------------------|------------------|-------------|
| A to B | 2018 cy | Pit-run | \$17,395.62 |
| A to B | 60 cy | 1 1/2" - 0 | \$268.20 |
| C to D | 295 cy | Pit-run | \$2,362.95 |
| E to F | 184 cy | Pit-run | \$1,490.40 |
| Total | 60 cy | 1 1/2" - 0 | |
| | 2497 cy | Pit-run | |

TOTAL PROJECT NO. 2 COST = \$21,517.17

PROJECT NO. 3 GRASS SEED, FERTILIZE, & MULCH

TOTAL PROJECT NO. 3 COST = \$459.25

MOVE-IN & EQUIPMENT CLEANING

| | |
|--|------------|
| Grader | \$1,318.39 |
| Loader (Med. & Large) | \$1,214.85 |
| Roller (smooth/grid) & Compactor | \$939.41 |
| Excavator (Large) - Equipment Cleaning | \$2,318.39 |
| Dozer (Large) - Equipment Cleaning | \$2,362.97 |
| Dump Truck (10cy +) | \$660.12 |

TOTAL MOVE-IN & EQUIPMENT CLEANING COST = \$8,817.18

TOTAL CREDITS \$38,590.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Schetky Green
 Road Segment: A to B

Sale Number: 341-17-35
 Improvement: 25+50 stations
0.48 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|--|-------|-------|------------|------------|------------|
| Clearing & grubbing (scatter) | 1.76 | ac @ | \$1,078.00 | per acre = | \$1,897.28 |
| Grade, ditch, & roll | 25.50 | sta @ | \$36.00 | per sta = | \$918.00 |
| Excavate puncheon & place material locally | 2.00 | hr @ | \$175.00 | per sta = | \$350.00 |

TOTAL EXCAVATION COSTS = \$3,165.28

CULVERTS - MATERIALS & INSTALLATION

Culverts

80 LF of 18" \$1,600.00
 90 LF of 24" \$2,610.00

Culvert Markers

4 markers \$40.00

TOTAL CULVERT COSTS = \$4,250.00

PROJECT NO. 1 TOTAL COST = \$7,415.28

PROJECT NO. 2:

SURFACING

12 " deep = 65 cy/sta

| | | | | | | | |
|------------------|-------|-------|------------|---|--------|----------|-------------|
| A to B | 1,658 | cy of | Pit-run | @ | \$8.62 | per cy = | \$14,292.42 |
| Turnouts (3) | 90 | cy of | Pit-run | @ | \$8.62 | per cy = | \$775.80 |
| Turnaround | 20 | cy of | Pit-run | @ | \$8.62 | per cy = | \$172.40 |
| Junction | 20 | cy of | Pit-run | @ | \$8.62 | per cy = | \$172.40 |
| Landing | 180 | cy of | Pit-run | @ | \$8.62 | per cy = | \$1,551.60 |
| Culvert bedding | 60 | cy of | 1 1/2" - 0 | @ | \$4.47 | per cy = | \$268.20 |
| Culvert backfill | 50 | cy of | Pit-run | @ | \$8.62 | per cy = | \$431.00 |
| Rock Total = | 2,078 | | | | | | |
| | 60 | cy of | 1 1/2" - 0 | | \$4.47 | per cy = | \$268.20 |
| | 2,018 | cy of | Pit-run | | \$8.62 | per cy = | \$17,395.62 |

PROJECT NO. 2 TOTAL COST = \$17,663.82

PROJECT NO. 3:

| | | | | | | |
|-------------------------|------|-------|---|----------|------------|----------|
| Grass seed & fertilizer | 0.88 | acres | @ | \$425.00 | per acre = | \$374.00 |
| Mulch | 8 | bales | @ | \$8.00 | per bale = | \$64.00 |

PROJECT NO. 3 TOTAL COST = \$438.00

TOTAL COST = \$25,517.10

SUMMARY OF CONSTRUCTION COST

| | | | |
|---------------|---------------|--------------|---------------|
| Timber Sale: | Schetky Green | Sale Number: | 341-17-35 |
| Road Segment: | C to D | Improvement: | 1+45 stations |
| | | | 0.03 miles |

PROJECT NO. 1

EXCAVATION

| | | | | | |
|-------------------------------|------|-------|------------|------------|----------|
| Clearing & grubbing (scatter) | 0.10 | ac @ | \$1,078.00 | per acre = | \$107.80 |
| Grade, ditch, & roll | 1.45 | sta @ | \$36.00 | per sta = | \$52.20 |

PROJECT NO. 1 TOTAL COST = \$160.00

PROJECT NO. 2:

SURFACING

12 " deep = 65 cy/sta

| | | | | | | | |
|--------------|-----|-------|---------|---|--------|----------|------------|
| C to D | 95 | cy of | Pit-run | @ | \$8.01 | per cy = | \$760.95 |
| Junction | 20 | cy of | Pit-run | @ | \$8.01 | per cy = | \$160.20 |
| Landing | 180 | cy of | Pit-run | @ | \$8.01 | per cy = | \$1,441.80 |
| Rock Total = | 295 | | | | | | |
| | 295 | cy of | Pit-run | | \$8.01 | per cy = | \$2,362.95 |

PROJECT NO. 2 TOTAL COST = \$2,362.95

PROJECT NO. 3:

| | | | | | | |
|-------------------------|------|-------|---|----------|------------|---------|
| Grass seed & fertilizer | 0.05 | acres | @ | \$425.00 | per acre = | \$21.25 |
|-------------------------|------|-------|---|----------|------------|---------|

PROJECT NO. 3 TOTAL COST = \$21.25

TOTAL COST = \$2,544.20

SUMMARY OF CONSTRUCTION COST

Timber Sale: Schetky Green Sale Number: 341-17-35
Road Segment: E to F Improvement: 1+95 stations
0.04 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|-------------------------------|------|-------|------------|------------|----------|
| Clearing & grubbing (scatter) | 0.14 | ac @ | \$1,078.00 | per acre = | \$150.92 |
| Grade, ditch, & roll | 1.95 | sta @ | \$36.00 | per sta = | \$70.20 |

PROJECT NO. 1 TOTAL COST = \$221.12

PROJECT NO. 2:

SURFACING

| | | | | | |
|--------------|-------------|-----------|---------|---|----------------------------|
| | 12 " deep = | 84 cy/sta | | | |
| E to F | 164 | cy of | Pit-run | @ | \$8.10 per cy = \$1,328.40 |
| Junction | 20 | cy of | Pit-run | @ | \$8.10 per cy = \$162.00 |
| Rock Total = | 184 | | | | |
| | 184 | cy of | Pit-run | | \$8.10 per cy = \$1,490.40 |

PROJECT NO. 2 TOTAL COST = \$1,490.40

TOTAL COST = \$1,711.52

ROCK PIT DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Schetky Green
Sale Number: 341-17-35
Pit Name: Upper Schetky Pit

Pit-run: 2,497 cy (truck measure)
Total truck yardage: 2,497 cy
Total in place yardage: 1,921 cy

Swell: 130%
Shrinkage: 116%

| | | | | |
|---|---------------|--------|-------------------|------------|
| Pit development, including clearing & grubbing of waste area, place overburden in waste area, spread & compact. | | | | \$2,302.00 |
| Rip rock | <u>\$2.10</u> | / cy x | <u>1,921</u> cy = | \$4,033.62 |
| Load dump truck | <u>\$0.80</u> | / cy x | <u>2,497</u> cy = | \$1,997.60 |
| | | | Subtotal: | \$8,333.22 |

| | | | | |
|---------------------------------|--|--|-----------|-----------------|
| Within area move in - excavator | | | | \$491.42 |
| Clean up pit | | | | <u>\$700.00</u> |
| | | | Subtotal: | \$1,191.42 |

TOTAL PRODUCTION COST = \$9,524.64

ROCK DEVELOPMENT COST = \$3.81/cy

CRUISE REPORT
Schetky Green
341-17-35

1. LOCATION: Portion of Section 17, T1S, R6W Washington County, and a Portion of Section 18, T1S, R6W Tillamook County Oregon W.M.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 13 inches and its Coefficient of Variation is about 50%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in November, 2016. The sale Areas was sampled with 34 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS

178 trees were measured and graded producing a cumulative Sampling Error of 6.6% on the Basal Area and 7.5% on the Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

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

a) **Height Standards:**

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

b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.

c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

5. DATA PROCESSING

a) **Volumes and Statistics**, Cruise estimates and sampling statistics, were derived from Super Ace 2008 cruise software

b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

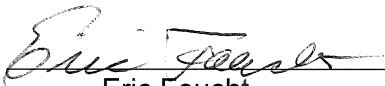
6. Cruisers: The sale was cruised by ODF cruiser Kenton Burns.

Prepared by:


Kenton Burns

12/5/16
Date

Reviewed by:


Eric Foucht

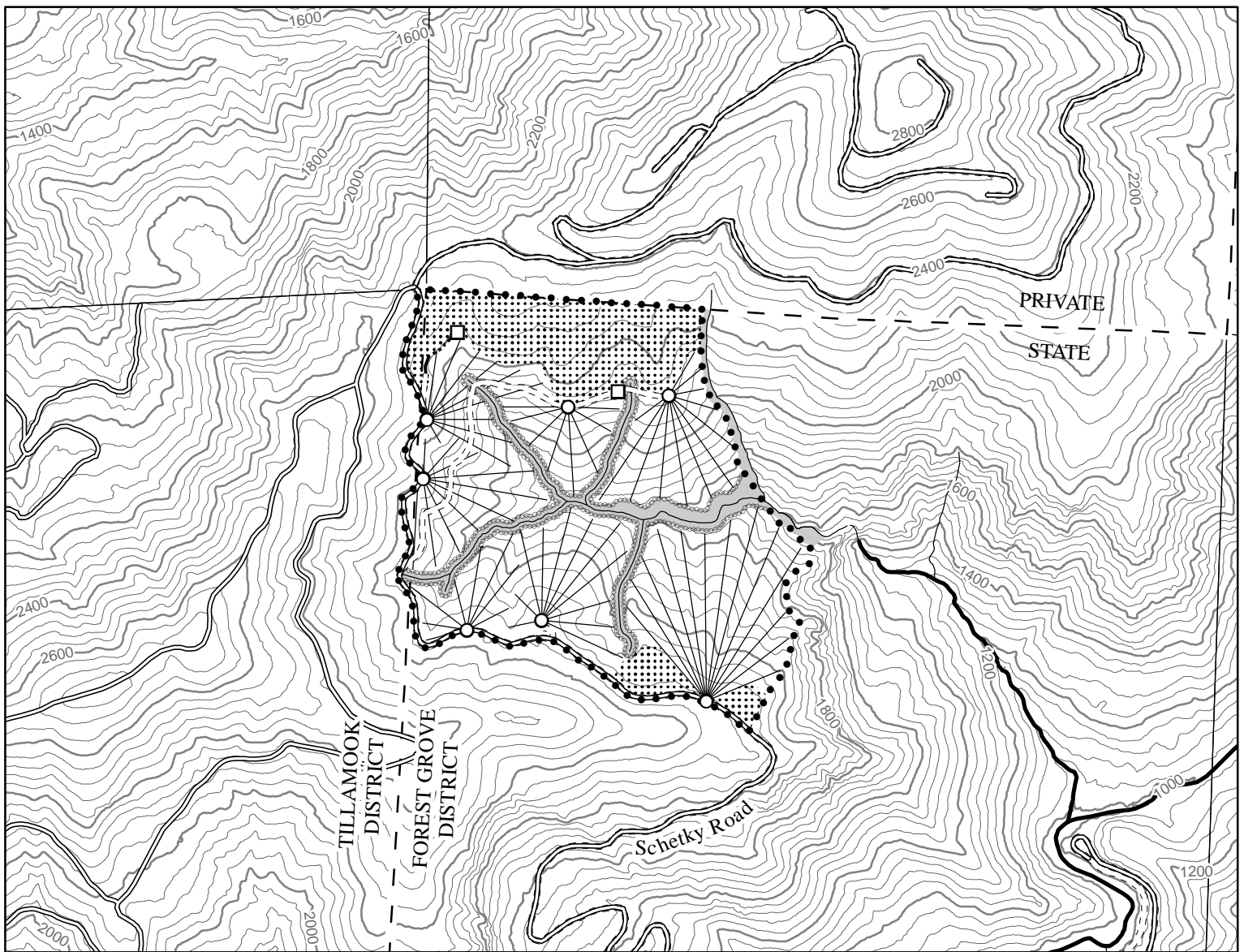
12/5/2016
Date

| TC PSTATS | | | PROJECT STATISTICS | | | | | | PAGE | 1 | | |
|--|------|-------|--------------------|----------------|-------------------|-----------------------------|------------|----------------------------|-----------------|--------------|----------------|--------------|
| | | | PROJECT SHTKYFIN | | | | | | DATE | 12/2/2016 | | |
| TWP | RGE | SC | TRACT | TYPE | | ACRES | | PLOTS | TREES | CuFt | BdFt | |
| T1S | R6 | 17 | 00A1 | 00MC | | 107.00 | | 34 | 178 | S | W | |
| | | | PLOTS | TREES | TREES PER PLOT | ESTIMATED TOTAL TREES | | PERCENT SAMPLE TREES | | | | |
| TOTAL | | | 34 | 178 | 5.2 | | | | | | | |
| CRUISE | | | 34 | 178 | 5.2 | 11,254 | | 1.6 | | | | |
| DBH COUNT | | | | | | | | | | | | |
| REFOREST | | | | | | | | | | | | |
| COUNT | | | | | | | | | | | | |
| BLANKS | | | | | | | | | | | | |
| 100 % | | | | | | | | | | | | |
| STAND SUMMARY | | | | | | | | | | | | |
| | | | SAMPLE TREES | TREES /ACRE | AVG DBH | BOLE LEN | REL DEN | BASAL AREA | GROSS BF/AC | NET BF/AC | GROSS CF/AC | NET CF/AC |
| DOUG FIR-T | | | 176 | 103.1 | 19.2 | 113 | 47.3 | 207.1 | 36,933 | 36,389 | 8,545 | 8,545 |
| R ALDER-T | | | 2 | 2.1 | 14.5 | 89 | 0.6 | 2.4 | 144 | 144 | 48 | 48 |
| TOTAL | | | 178 | 105.2 | 19.1 | 113 | 47.9 | 209.4 | 37,077 | 36,533 | 8,594 | 8,594 |
| CONFIDENCE LIMITS OF THE SAMPLE | | | | | | | | | | | | |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR | | | | | | | | | | | | |
| CL | 68.1 | COEFF | SAMPLE TREES - BF | | | | | | # OF TREES REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | | | 5 | 10 | 15 | |
| DOUG FIR-T | | | 62.7 | 4.7 | 484 | 508 | 532 | | | | | |
| R ALDER-T | | | | | 70 | 70 | 70 | | | | | |
| TOTAL | | | 63.6 | 4.8 | 479 | 503 | 527 | 162 | | 40 | 18 | |
| CL | 68.1 | COEFF | SAMPLE TREES - CF | | | | | | # OF TREES REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | | | 5 | 10 | 15 | |
| DOUG FIR-T | | | 59.0 | 4.4 | 113 | 118 | 124 | | | | | |
| R ALDER-T | | | 41.8 | 39.1 | 14 | 23 | 32 | | | | | |
| TOTAL | | | 59.8 | 4.5 | 112 | 117 | 122 | 143 | | 36 | 16 | |
| CL | 68.1 | COEFF | TREES/ACRE | | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | | | 5 | 10 | 15 | |
| DOUG FIR-T | | | 47.9 | 8.2 | 95 | 103 | 112 | | | | | |
| R ALDER-T | | | 407.0 | 69.7 | 1 | 2 | 3 | | | | | |
| TOTAL | | | 46.0 | 7.9 | 97 | 105 | 113 | 85 | | 21 | 9 | |
| CL | 68.1 | COEFF | BASAL AREA/ACRE | | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | | | 5 | 10 | 15 | |
| DOUG FIR-T | | | 38.8 | 6.6 | 193 | 207 | 221 | | | | | |
| R ALDER-T | | | 406.0 | 69.6 | 1 | 2 | 4 | | | | | |
| TOTAL | | | 38.2 | 6.5 | 196 | 209 | 223 | 58 | | 15 | 6 | |
| CL | 68.1 | COEFF | NET BF/ACRE | | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | | | 5 | 10 | 15 | |
| DOUG FIR-T | | | 43.8 | 7.5 | 33,660 | 36,389 | 39,117 | | | | | |
| R ALDER-T | | | 407.0 | 69.7 | 44 | 144 | 245 | | | | | |
| TOTAL | | | 43.6 | 7.5 | 33,804 | 36,533 | 39,261 | 76 | | 19 | 8 | |
| CL | 68.1 | COEFF | NET CUFT FT/ACRE | | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | | | 5 | 10 | 15 | |
| DOUG FIR-T | | | 41.6 | 7.1 | 7,936 | 8,545 | 9,155 | | | | | |
| R ALDER-T | | | 432.7 | 74.1 | 13 | 48 | 84 | | | | | |
| TOTAL | | | 41.5 | 7.1 | 7,983 | 8,594 | 9,205 | 69 | | 17 | 8 | |

| TC | | PSPCSTGR | | Species, Sort Grade - Board Foot Volumes (Project) | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------|----------|----|--|----------------------------------|----------|--------|------------------|----------------------------------|------|-------|-----|------------|-------|-------|-------|-------------|-----------|----------|------------|----------------------|
| <div>TT1S RR6W S17 Ty00MC107.00</div> | | | | Project: | | SHTKYFIN | | | | | | | | | | | | Page | | 1 | |
| | | | | Acres | | 107.00 | | | | | | | | | | | | Date | | 12/2/2016 | |
| | | | | | | | | | | | | | | | | | | Time | | 10:00:36AM | |
| S Spp | So T | Gr rt | ad | % Net BdFt | Bd. Ft. per Acre Def%GrossNet | | | Total Net MBF | Percent of Net Board Foot Volume | | | | | | | | Average Log | | | | Logs Per /Acre |
| | | | | | | | | | Log Scale Dia. | | | | Log Length | | | | Ln Ft | Dia In | Bd Ft | CF/ Lf | |
| | | | | | | | | | 4-5 | 6-11 | 12-16 | 17+ | 12-20 | 21-30 | 31-35 | 36-99 | | | | | |
| DF | | CU | | | | | | | | | | | | | | | 10 | 10 | | 0.00 | 8.1 |
| DF | | 2M | | 63 | 1.9 | 23,478 | 23,030 | 2,464 | | | 64 | 36 | 2 | 4 | 2 | 92 | 38 | 15 | 324 | 1.91 | 71.0 |
| DF | | 3M | | 32 | .7 | 11,887 | 11,798 | 1,262 | | 98 | 2 | | 0 | 1 | 9 | 89 | 38 | 8 | 103 | 0.68 | 114.2 |
| DF | | 4M | | 5 | .5 | 1,568 | 1,560 | 167 | | 100 | | | 35 | 65 | | | 21 | 6 | 26 | 0.36 | 60.1 |
| DF Totals | | | | 100 | 1.5 | 36,933 | 36,389 | 3,894 | | 36 | 41 | 23 | 3 | 6 | 4 | 87 | 33 | 10 | 144 | 1.02 | 253.4 |
| RA | | CU | | | | | | | | | | | | | | | 7 | 8 | | 0.00 | 2.1 |
| RA | | R | | 100 | | 144 | 144 | 15 | | 100 | | | | | | 100 | 40 | 7 | 70 | 0.59 | 2.1 |
| RA Totals | | | | 0 | | 144 | 144 | 15 | | 100 | | | | | | 100 | 24 | 8 | 35 | 0.50 | 4.1 |
| Totals | | | | | 1.5 | 37,077 | 36,533 | 3,909 | | 36 | 41 | 23 | 3 | 6 | 4 | 87 | 33 | 10 | 142 | 1.01 | 257.6 |

| TC | | Stand Table Summary | | | | | | | | | | | Page | | 1 | | | |
|-----------------------------|--------|---------------------|-----------|----------|------------------|-------------|--------------|---------------|---------------|---------------|----------------|----------------|-------------|--------|------------|-------------|--|--|
| | | | | | | | | | | | | | Date: | | 12/2/2016 | | | |
| TT1S RR6W S17 Ty00MC 107.00 | | | | | Project SHTKYFIN | | | | | | | | Time: | | 10:00:35AM | | | |
| | | | | | Acres 107.00 | | | | | | | | Grown Year: | | | | | |
| S Spec T | | | | Tot | | | | Average Log | | Net | | | Net | | | T o t a l s | | |
| | DBH | Sample Trees | FF 16' | Av Ht | Trees/ Acre | BA/ Acre | Logs Acre | Net Cu.Ft. | Net Bd.Ft. | Tons/ Acre | Cu.Ft. Acre | Bd.Ft. Acre | Tons | Cunits | MBF | | | |
| DF | 9 | 2 | 88 | 75 | 5.326 | 2.35 | 5.33 | 9.0 | 50.0 | 1.37 | 48 | 266 | 146 | 51 | 28 | | | |
| DF | 10 | 1 | 88 | 65 | 2.157 | 1.18 | 2.16 | 7.8 | 40.0 | .48 | 17 | 86 | 51 | 18 | 9 | | | |
| DF | 11 | 1 | 89 | 95 | 1.783 | 1.18 | 3.57 | 9.5 | 40.0 | .97 | 34 | 143 | 103 | 36 | 15 | | | |
| DF | 12 | 3 | 88 | 86 | 4.494 | 3.53 | 5.99 | 16.4 | 65.0 | 2.81 | 99 | 389 | 300 | 105 | 42 | | | |
| DF | 13 | 3 | 87 | 96 | 3.829 | 3.53 | 7.66 | 14.6 | 56.7 | 3.19 | 112 | 434 | 342 | 120 | 46 | | | |
| DF | 14 | 12 | 87 | 103 | 13.206 | 14.12 | 25.31 | 18.6 | 79.6 | 13.44 | 471 | 2,014 | 1,438 | 504 | 215 | | | |
| DF | 15 | 10 | 87 | 105 | 9.587 | 11.76 | 20.13 | 20.8 | 88.6 | 11.92 | 418 | 1,783 | 1,275 | 447 | 191 | | | |
| DF | 16 | 4 | 88 | 120 | 3.370 | 4.71 | 8.43 | 22.2 | 99.0 | 5.34 | 187 | 834 | 571 | 200 | 89 | | | |
| DF | 17 | 4 | 85 | 115 | 2.985 | 4.71 | 6.72 | 26.8 | 106.7 | 5.14 | 180 | 717 | 550 | 193 | 77 | | | |
| DF | 18 | 12 | 86 | 115 | 7.989 | 14.12 | 19.97 | 28.1 | 111.7 | 16.01 | 562 | 2,230 | 1,713 | 601 | 239 | | | |
| DF | 19 | 10 | 85 | 122 | 5.975 | 11.76 | 15.54 | 30.5 | 119.6 | 13.50 | 474 | 1,858 | 1,444 | 507 | 199 | | | |
| DF | 20 | 12 | 87 | 125 | 6.471 | 14.12 | 18.87 | 32.4 | 137.7 | 17.43 | 611 | 2,599 | 1,865 | 654 | 278 | | | |
| DF | 21 | 11 | 84 | 123 | 5.380 | 12.94 | 14.67 | 36.9 | 146.0 | 15.44 | 542 | 2,142 | 1,652 | 580 | 229 | | | |
| DF | 22 | 18 | 87 | 127 | 8.022 | 21.18 | 24.07 | 39.2 | 173.9 | 26.90 | 944 | 4,185 | 2,878 | 1,010 | 448 | | | |
| DF | 23 | 9 | 85 | 127 | 3.670 | 10.59 | 9.79 | 44.5 | 192.1 | 12.42 | 436 | 1,880 | 1,328 | 466 | 201 | | | |
| DF | 24 | 14 | 84 | 130 | 5.243 | 16.47 | 16.48 | 44.6 | 191.1 | 20.96 | 735 | 3,149 | 2,242 | 787 | 337 | | | |
| DF | 25 | 7 | 84 | 132 | 2.416 | 8.24 | 7.25 | 51.8 | 214.8 | 10.70 | 375 | 1,557 | 1,144 | 402 | 167 | | | |
| DF | 26 | 5 | 86 | 140 | 1.595 | 5.88 | 5.11 | 52.3 | 243.1 | 7.61 | 267 | 1,241 | 814 | 286 | 133 | | | |
| DF | 27 | 10 | 82 | 130 | 2.959 | 11.76 | 8.88 | 58.0 | 240.7 | 14.68 | 515 | 2,136 | 1,571 | 551 | 229 | | | |
| DF | 28 | 10 | 85 | 134 | 2.751 | 11.76 | 7.70 | 69.6 | 306.4 | 15.28 | 536 | 2,361 | 1,635 | 574 | 253 | | | |
| DF | 29 | 4 | 84 | 127 | 1.026 | 4.71 | 3.08 | 67.7 | 298.3 | 5.94 | 208 | 918 | 636 | 223 | 98 | | | |
| DF | 30 | 4 | 85 | 137 | .959 | 4.71 | 2.88 | 76.1 | 357.5 | 6.23 | 219 | 1,028 | 667 | 234 | 110 | | | |
| DF | 31 | 2 | 80 | 142 | .449 | 2.35 | 1.35 | 82.6 | 361.7 | 3.17 | 111 | 487 | 339 | 119 | 52 | | | |
| DF | 32 | 1 | 83 | 148 | .211 | 1.18 | .63 | 93.4 | 443.3 | 1.68 | 59 | 280 | 180 | 63 | 30 | | | |
| DF | 33 | 2 | 84 | 139 | .396 | 2.35 | 1.19 | 95.5 | 448.3 | 3.23 | 113 | 533 | 346 | 121 | 57 | | | |
| DF | 34 | 2 | 80 | 135 | .373 | 2.35 | 1.12 | 96.2 | 403.3 | 3.07 | 108 | 452 | 328 | 115 | 48 | | | |
| DF | 35 | 1 | 80 | 131 | .176 | 1.18 | .53 | 97.3 | 416.7 | 1.47 | 51 | 220 | 157 | 55 | 24 | | | |
| DF | 36 | 1 | 74 | 158 | .166 | 1.18 | .50 | 115.2 | 483.3 | 1.64 | 57 | 241 | 175 | 62 | 26 | | | |
| DF | 38 | 1 | 75 | 146 | .149 | 1.18 | .45 | 121.5 | 500.0 | 1.55 | 54 | 224 | 166 | 58 | 24 | | | |
| DF | Totals | 176 | 86 | 113 | 103.114 | 207.06 | 245.32 | 34.8 | 148.3 | 243.54 | 8,545 | 36,389 | 26,059 | 9,144 | 3,894 | | | |
| RA | 14 | 1 | 75 | 75 | 1.101 | 1.18 | 1.10 | 29.9 | 70.0 | .90 | 33 | 77 | 97 | 35 | 8 | | | |
| RA | 15 | 1 | 74 | 105 | .959 | 1.18 | .96 | 16.3 | 70.0 | .43 | 16 | 67 | 46 | 17 | 7 | | | |
| RA | Totals | 2 | 75 | 89 | 2.059 | 2.35 | 2.06 | 23.5 | 70.0 | 1.33 | 48 | 144 | 143 | 52 | 15 | | | |
| Totals | | 178 | 86 | 113 | 105.173 | 209.41 | 247.38 | 34.7 | 147.7 | 244.88 | 8,594 | 36,533 | 26,202 | 9,195 | 3,909 | | | |

| TC PLOGSTVB | | Log Stock Table - MBF | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|-----------------------|----------|------------|-----------------------------------|----------|------------|----------|--|-----|-----|-----|-------|-------|---|-------|-------|-------|-------|
| TT1S RR6W S17 Ty00MC 107.00 | | | | | Project: SHTKYFIN Acres 107.00 | | | | | | | | | | Page 1 Date 12/2/2016 Time 10:00:36AM | | | | |
| Spp | S T | So rt | Gr de | 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 |
| DF | | 2M | 12 | | 6 | | 6 | .2 | | | | | | 6 | | | | | |
| DF | | 2M | 14 | | 4 | 14.3 | 3 | .1 | | | | | | 3 | | | | | |
| DF | | 2M | 18 | | 6 | 18.7 | 5 | .1 | | | | | | | 5 | | | | |
| DF | | 2M | 20 | | 28 | 13.2 | 24 | .6 | | | | | | | 24 | | | | |
| DF | | 2M | 24 | | 28 | 1.7 | 28 | .7 | | | | | | 5 | | 22 | | | |
| DF | | 2M | 27 | | 14 | 10.0 | 12 | .3 | | | | | | | | 12 | | | |
| DF | | 2M | 30 | | 67 | 1.6 | 66 | 1.7 | | | | | | 8 | 13 | 45 | | | |
| DF | | 2M | 32 | | 33 | 4.2 | 32 | .8 | | | | | | 19 | | 13 | | | |
| DF | | 2M | 34 | | 17 | 5.1 | 16 | .4 | | | | | | | | | 16 | | |
| DF | | 2M | 40 | | 2,308 | 1.6 | 2,271 | 58.3 | | | | | | 547 | 620 | 802 | 302 | | |
| DF | | 3M | 18 | | 5 | | 5 | .1 | | | | | 5 | | | | | | |
| DF | | 3M | 26 | | 2 | | 2 | .1 | | | | 2 | | | | | | | |
| DF | | 3M | 28 | | 4 | | 4 | .1 | | | 4 | | | | | | | | |
| DF | | 3M | 30 | | 10 | 14.1 | 8 | .2 | | | 1 | 7 | | | | | | | |
| DF | | 3M | 32 | | 80 | | 80 | 2.1 | | | 39 | 40 | | | | | | | |
| DF | | 3M | 34 | | 38 | | 38 | 1.0 | | | 32 | 7 | | | | | | | |
| DF | | 3M | 36 | | 47 | | 47 | 1.2 | | | 27 | 19 | | | | | | | |
| DF | | 3M | 38 | | 33 | | 33 | .9 | | | 17 | 16 | | | | | | | |
| DF | | 3M | 40 | | 1,053 | | 1,045 | 26.8 | | | 126 | 413 | 477 | 29 | | | | | |
| DF | | 4M | 12 | | 10 | 8.0 | 9 | .2 | | | 7 | | 2 | | | | | | |
| DF | | 4M | 14 | | 6 | | 6 | .1 | | | 6 | | | | | | | | |
| DF | | 4M | 16 | | 14 | | 14 | .4 | | | 13 | 1 | | | | | | | |
| DF | | 4M | 18 | | 18 | | 18 | .5 | | | 18 | | | | | | | | |
| DF | | 4M | 20 | | 12 | | 12 | .3 | | | 10 | 2 | | | | | | | |
| DF | | 4M | 22 | | 34 | | 34 | .9 | | | 33 | 1 | | | | | | | |
| DF | | 4M | 24 | | 11 | | 11 | .3 | | | 10 | 1 | | | | | | | |
| DF | | 4M | 26 | | 31 | | 31 | .8 | | | 31 | | | | | | | | |
| DF | | 4M | 28 | | 17 | | 17 | .4 | | | 17 | | | | | | | | |
| DF | | 4M | 30 | | 15 | | 15 | .4 | | | 15 | | | | | | | | |
| DF | | Totals | | | 3,952 | 1.5 | 3,894 | 99.6 | | | 407 | 509 | 484 | 618 | 662 | 894 | 319 | | |
| RA | | R | 40 | | 15 | | 15 | 100.0 | | | 15 | | | | | | | | |
| RA | | Totals | | | 15 | | 15 | .4 | | | 15 | | | | | | | | |
| Total | | All Species | | | 3,967 | 1.5 | 3,909 | 100.0 | | | 423 | 509 | 484 | 618 | 662 | 894 | 319 | | |



Legend

- Timber Sale Boundary
- Roads
- Blocked Unsurfaced Road
- - - - - Non Project Road
- Type F Stream
- Type N Stream
- Stream Buffer
- Posted Stream Buffer Boundary
- Tractor Yarding Area
- Cable Yarding Area
- Cable Landing
- Tractor Landing
- ODF Ownership Boundary
- Section Line
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-17-35
 SCHETKY GREEN
 SECTION 17, T1S, R6W, W.M.
 WASHINGTON COUNTY, OREGON.
 & PORTIONS OF SECTION 18, T1S, R6W, W.M.,
 TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
 December, 2016

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



APPROXIMATE NET ACRES

| | |
|---------|-----|
| TRACTOR | 24 |
| CABLE | 83 |
| TOTAL | 107 |

1:12,000

1 inch = 1,000 feet

