



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy-nilly
Sale FG-341-2021-W00552-01

District: Forest Grove

Date: June 29, 2020

Cost Summary

| | Conifer | Hardwood | Total |
|--------------------------------|----------------|--------------------------|----------------|
| Gross Timber Sale Value | \$2,494,809.14 | \$167,524.29 | \$2,662,333.43 |
| | | Project Work: | (\$620,115.00) |
| | | Advertised Value: | \$2,042,218.43 |



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District: Forest Grove

Date: June 29, 2020

Timber Description

Location: Portions of Section 20 and 21, T1S, R6W, W.M.,
Washington County, Oregon

Stand Stocking: 20%

| Specie Name | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir | 20 | 0 | 98 |
| Western Hemlock / Fir | 17 | 0 | 98 |
| Alder (Red) | 14 | 0 | 95 |
| Maple | 15 | 0 | 95 |

| Volume by Grade | 2S | 3S & 4S 6"-11" | Camprun | Total |
|-----------------------|-------|----------------|---------|-------|
| Douglas - Fir | 4,330 | 1,938 | 0 | 6,268 |
| Western Hemlock / Fir | 115 | 142 | 0 | 257 |
| Alder (Red) | 0 | 0 | 697 | 697 |
| Maple | 0 | 0 | 78 | 78 |
| Total | 4,445 | 2,080 | 775 | 7,300 |

Comments: Pond Values Used: Local Pond Values, May 2020.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
\$817.09/MBF = \$1,118/MBF - (\$250.91/MBF + \$50/mbf additional haul)

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$950 daily truck cost.

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

None

Other Costs (No Profit & Risk added):

Machine Time to Block/Waterbar Roads, and Skid Trails:

20 hours x \$150/hour = \$3,000

Machine Time to Pile Landing Slash:

10 hours x \$150/hour = \$1,500

Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000

Slash Treatment: 20 acres x \$200/acre = \$4,000

Snag Creation by topping: 80 x \$60 = \$4,800

Road Maintenance & Rockwear Fee: 4.33 miles Turner Creek Road (2-5-10), 1.61 miles Barney Res Road (2-6-36.0)=5.94 total miles. Utilizing BLM Road Maintenance Fee Schedule – Section C-Other Road Users, effective January 1, 2020

Non-BST surface, maint fee: \$1.22/MBF/Mile

Non-BST surface, rock wear fee: \$.90/MBF/Mile Total \$2.12/MBF/Mile Total: 7,256 MBF x 5.94 miles x \$2.12 = \$91,373.36

TOTAL Other Costs (No Profit & Risk added) = \$107,673.36

ROAD MAINTENANCE

Normal Road Maintenance (includes move-in, grading, rolling and spot rocking): 11.68 miles x \$3,018.70/mile = \$35,285.44

TOTAL Road Maintenance: \$35,285.44/7,300 MBF = \$4.83/MBF



"STEWARDSHIP IN FORESTRY"

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Logging Conditions

Combination#: 1

| | |
|-----------------------|---------|
| Douglas - Fir | 72.76% |
| Western Hemlock / Fir | 99.61% |
| Alder (Red) | 99.86% |
| Maple | 100.00% |

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: 12 **bd. ft / load:** 4600

cost / mbf: \$108.70

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

Combination#: 2

| | |
|-----------------------|--------|
| Douglas - Fir | 27.24% |
| Western Hemlock / Fir | 0.39% |
| Alder (Red) | 0.14% |

Logging System: Shovel **Process:** Feller Buncher

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

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

loads / day: 12 **bd. ft / load:** 4600

cost / mbf: \$64.09

machines: Feller Buncher w/ Delimber



"STEWARDSHIP IN FORESTRY"

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Date: June 29, 2020

Logging Costs

| | |
|------------------------------------|----------------------------------|
| Operating Seasons: 2.00 | Profit Risk: 15% |
| Project Costs: \$620,115.00 | Other Costs (P/R): \$0.00 |
| Slash Disposal: \$0.00 | Other Costs: \$107,673.36 |

Miles of Road

Road Maintenance: \$4.83

| 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 | 4.8 |
| Western Hemlock / Fir | \$0.00 | 2.0 | 3.8 |
| Alder (Red) | \$0.00 | 2.0 | 3.8 |
| Maple | \$0.00 | 2.0 | 3.8 |



"STEWARDSHIP IN FORESTRY"

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Logging Costs Breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Brand & Paint | Other | Total |
|------------------------------|------------|--------------|----------|----------------|---------------|----------------|---------------|---------|----------|
| Douglas - Fir | | | | | | | | | |
| \$96.55 | \$4.93 | \$1.20 | \$100.94 | \$0.00 | \$30.54 | \$0.00 | \$2.00 | \$14.75 | \$250.91 |
| Western Hemlock / Fir | | | | | | | | | |
| \$108.53 | \$4.93 | \$1.20 | \$127.50 | \$0.00 | \$36.32 | \$0.00 | \$2.00 | \$14.75 | \$295.23 |
| Alder (Red) | | | | | | | | | |
| \$108.64 | \$5.07 | \$1.20 | \$131.25 | \$0.00 | \$36.92 | \$0.00 | \$2.00 | \$14.75 | \$299.83 |
| Maple | | | | | | | | | |
| \$108.70 | \$5.07 | \$1.20 | \$131.25 | \$0.00 | \$36.93 | \$0.00 | \$2.00 | \$14.75 | \$299.90 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir | \$0.00 | \$640.03 | \$389.12 | \$0.00 |
| Western Hemlock / Fir | \$0.00 | \$512.37 | \$217.14 | \$0.00 |
| Alder (Red) | \$0.00 | \$532.00 | \$232.17 | \$0.00 |
| Maple | \$0.00 | \$373.00 | \$73.10 | \$0.00 |



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Summary

Amortized

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

Unamortized

| Specie | MBF | Value | Total |
|-----------------------|-------|----------|----------------|
| Douglas - Fir | 6,268 | \$389.12 | \$2,439,004.16 |
| Western Hemlock / Fir | 257 | \$217.14 | \$55,804.98 |
| Alder (Red) | 697 | \$232.17 | \$161,822.49 |
| Maple | 78 | \$73.10 | \$5,701.80 |

Gross Timber Sale Value

Recovery: \$2,662,333.43

Prepared By: Adrian Torres

Phone: 503-454-8460

TIMBER SALE SUMMARY
Willy-nilly
FG-341-2021-W00552-01

1. **Location:** Portions of Sections 20 and 21, T1S, R6W, W.M., Washington County, Oregon.
2. **Type of Sale:** This Timber Sale is 188 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 100% Washington County.
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 June of 2020. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, partially thinned 60-year old Douglas-fir stand with minor amounts of western hemlock, red alder, and big leaf maple. The stand has an average of 212 ft² of basal area (all species), an average Douglas-fir DBH of 20 inches, and an estimated average net Douglas-fir volume of approximately 33.3 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with a mainly northwestern aspect in Unit 1 and southern aspect in Unit 2. Unit 1 is 100% cable-based yarding. Unit 2 is 39% ground-based yarding and 61% cable-based yarding. The maximum cable corridor length is approximately 1,500 feet and the average length is 900 feet. The average horizontal skid trail length is approximately 300 feet and the maximum is approximately 700 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, proceed south on Highway 47 for 15 miles. Turn right onto Pike Road and continue for 4.5 miles. Pike Road then becomes Turner Creek Road. Continue down Turner Creek Road for 4 miles and there is a Weyerhaeuser gate that requires a key. Continue through this gate on Turner Creek Road for 4.5 miles. Turn right onto North Fork Trask River Road and continue for 1.5 miles and there is a Weyerhaeuser gate that requires a key. Continue through this gate on North Fork Trask River Road for 4.5 miles to the junction with Williams Road. From the North Fork River Road and Williams Road junction, continue on North Fork River Road for 2.4 miles to access the southern portion of Unit 1. From the North Fork River Road and Williams Road junction, turn north onto Williams Road and continue for 1.8 miles to reach the northern portion of Unit 2.
9. **Projects:**

| | |
|---|--------------|
| Project No. 1: Road Improvement | \$227,882.79 |
| Project No. 2: Rocked Road Construction | \$41,606.73 |
| Project No. 3: Stockpile Construction | \$338,200.62 |
| Project No. 4: Road Vacating | \$12,424.86 |

| | |
|-------------------------------|--------------|
| Total Credit for all Projects | \$620,115.00 |
|-------------------------------|--------------|

PROJECT COST SUMMARY SHEET

Timber Sale: Willy-nilly
 Sale Number: FG-341-2021-W00552-01

PROJECT NO. 1: ROAD IMPROVEMENT

| | <u>Road Segment</u> | <u>Length</u> | <u>Cost</u> |
|--------------|---------------------|-----------------------------|---------------------|
| | A to B | 221+20 | \$58,825.26 |
| | B to C | 124+60 | \$90,589.33 |
| | D to E | 113+15 | \$2,321.54 |
| | F to G | 16+65 | \$11,950.64 |
| | H to I | 5+75 | \$3,915.38 |
| | J to K | 46+45 | \$43,805.85 |
| | E to L | 7+75 | \$13,044.76 |
| | | 535+55 stations | |
| | | 10.14 miles | |
| Total Rock = | 6,536 cy | 1½" - 0 | |
| | 8,760 cy | 4" - 0 | |
| | 12 cy | Riprap | |
| | | Move-in = | \$3,430.03 |
| | | TOTAL PROJECT COST = | \$227,882.79 |

PROJECT NO. 2: ROCKED ROAD CONSTRUCTION

| | <u>Road Segment</u> | <u>Length</u> | <u>Cost</u> |
|--------------|---------------------|-----------------------------|--------------------|
| | M to N | 17+30 | \$27,178.37 |
| | O to P | 8+00 | \$13,802.11 |
| | | 25+30 stations | |
| | | 0.48 miles | |
| Total Rock = | 71 cy | 1½" - 0 | |
| | 2,370 cy | 4" - 0 | |
| | | Move-in = | \$626.25 |
| | | TOTAL PROJECT COST = | \$41,606.73 |

PROJECT NO. 3: STOCKPILE CONSTRUCTION

| | <u>Rock Size</u> | <u>Stockpile Measure</u> | <u>Cost</u> |
|--------------|------------------|-----------------------------|---------------------|
| | 4"-0 | 28,600 cy | \$333,110.12 |
| Total Rock = | 28,600 cy | 4" - 0 | |
| | | Move-in = | \$5,090.51 |
| | | TOTAL PROJECT COST = | \$338,200.62 |

PROJECT NO. 4: ROAD VACATING

| | <u>Road Segment</u> | <u>Length</u> | <u>Cost</u> |
|--|---------------------|-----------------------------|--------------------|
| | V1 to V2 | 11+90 | \$9,951.21 |
| | | 11+90 stations | |
| | | 0.23 miles | |
| | | Move-in = | \$2,473.65 |
| | | TOTAL PROJECT COST = | \$12,424.86 |

TOTAL CREDITS = \$620,115.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: A to B

Sale Number: FG-341-2021-W00552-01
 Improvement: 221+20 stations
4.19 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|---|--------|-------|------------|------------|--------------------|
| Clearing & grubbing (scatter) | 2.54 | ac @ | \$1,078.00 | per acre = | \$2,738.12 |
| Roadside brushing (light) | 4.19 | mi @ | \$850.00 | per mi = | \$3,560.98 |
| Clean ditch & scatter waste material | 221.20 | sta @ | \$60.00 | per sta = | \$13,272.00 |
| Clean culvert inlet & outlet, scatter waste | 22 | ea @ | \$25.00 | per ea = | \$550.00 |
| Construct Settling Ponds | 9 | ea @ | \$25.00 | per ea = | \$225.00 |
| Improve Turnouts | 16 | ea @ | \$33.00 | per ea = | \$528.00 |
| Grade, ditch, & roll | 221.20 | sta @ | \$36.00 | per sta = | \$7,963.20 |
| TOTAL IMPROVEMENT COSTS = | | | | | \$28,837.30 |

CULVERTS

| | | | | | |
|------------------------------|----|------|---------|----------|-------------------|
| Culverts and Bands | | | | | |
| 18" Diameter | 80 | LF @ | \$18.37 | per LF = | \$1,469.60 |
| Markers & Stakes | | | | | |
| Culvert Markers | 10 | ea @ | \$10.00 | per ea = | \$100.00 |
| TOTAL CULVERT COSTS = | | | | | \$1,569.60 |

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|----------|-------------|
| Subgrade rock | | | | | | |
| Bedding and backfill | 1½" - 0 | \$1.01 | \$3.32 | \$0.50 | 72 | \$347.81 |
| Subtotal = | | | | | 72 | \$347.81 |
| Surfacing rock | | | | | | |
| Surfacing rock | 1½" - 0 | \$1.01 | \$2.21 | \$1.22 | 5,858 | \$26,012.09 |
| Junction | 1½" - 0 | \$1.01 | \$2.21 | \$1.22 | 192 | \$852.61 |
| Turnout | 1½" - 0 | \$1.01 | \$2.21 | \$1.22 | 150 | \$666.10 |
| Subtotal = | | | | | 6,200 | \$27,530.79 |

| | | |
|--------|------------|-------|
| Totals | All Rock = | 6,272 |
| | 1½" - 0 = | 6,272 |

TOTAL ROCK COSTS = \$27,878.60

EROSION CONTROL

| | | | | | |
|--------------------------------------|------|------|----------|----------|-----------------|
| Grass seed & fertilizer | 1.27 | ac @ | \$425.00 | per ac = | \$539.75 |
| TOTAL EROSION CONTROL COSTS = | | | | | \$539.75 |

TOTAL PROJECT COST = \$58,825.26

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: B to C

Sale Number: FG-341-2021-W00552-01
 Improvement: 124+60 stations
2.36 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|---|--------|-------|------------|------------|------------|
| Clearing & grubbing (scatter) | 1.44 | ac @ | \$1,078.00 | per acre = | \$1,552.32 |
| Roadside brushing (light) | 2.36 | mi @ | \$850.00 | per mi = | \$2,005.87 |
| Clean ditch & scatter waste material | 124.60 | sta @ | \$60.00 | per sta = | \$7,476.00 |
| Clean culvert inlet & outlet, scatter waste | 11 | ea @ | \$25.00 | per ea = | \$275.00 |
| Cutslope layback | | | | | |
| Excavate & load | 779 | cy @ | \$1.60 | per cy = | \$1,246.40 |
| Haul | 1013 | cy @ | \$1.15 | per cy = | \$1,164.95 |
| Shape and compact waste material | 1013 | cy @ | \$0.30 | per cy = | \$303.90 |
| Construct Settling Ponds | 7 | ea @ | \$25.00 | per ea = | \$175.00 |
| Improve Turnouts | 5 | ea @ | \$33.00 | per ea = | \$165.00 |
| Construct Roadside 50' landing | 2 | ea @ | \$165.00 | per ea = | \$330.00 |
| Grade, ditch, & roll | 124.60 | sta @ | \$36.00 | per sta = | \$4,485.60 |

TOTAL IMPROVEMENT COSTS = \$19,180.04

CULVERTS

| | | | | | |
|--------------------|-----|------|---------|----------|------------|
| Culverts and Bands | | | | | |
| 18" Diameter | 220 | LF @ | \$18.37 | per LF = | \$4,041.40 |
| 24" Diameter | 40 | LF @ | \$29.43 | per LF = | \$1,177.20 |
| Markers & Stakes | | | | | |
| Culvert Markers | 8 | ea @ | \$10.00 | per ea = | \$80.00 |

TOTAL CULVERT COSTS = \$5,298.60

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|----------|-------------|
| Subgrade rock | | | | | | |
| Bedding and backfill | 1½" - 0 | \$1.01 | \$2.56 | \$0.50 | 168 | \$683.87 |
| Subtotal = | | | | | 168 | \$683.87 |
| Surfacing rock | | | | | | |
| Surfacing rock | 4"-0 | \$10.04 | \$2.64 | \$1.22 | 4,424 | \$61,487.55 |
| Junction | 4"-0 | \$10.04 | \$2.64 | \$1.22 | 96 | \$1,334.13 |
| Turnout | 4"-0 | \$10.04 | \$2.64 | \$1.22 | 70 | \$972.80 |
| Roadside landing | 4"-0 | \$10.04 | \$2.64 | \$1.22 | 94 | \$1,306.34 |
| Subtotal = | | | | | 4,684 | \$65,100.82 |

| | | | |
|--------|--|------------|-------|
| Totals | | All Rock = | 4,852 |
| | | 1½" - 0 = | 168 |
| | | 4" - 0 = | 4,684 |

TOTAL ROCK COSTS = \$65,784.69

EROSION CONTROL

| | | | | | |
|-------------------------|------|------|----------|----------|----------|
| Grass seed & fertilizer | 0.72 | ac @ | \$425.00 | per ac = | \$306.00 |
| Straw Mulch Bale | 2 | ea @ | \$10.00 | per ea = | \$20.00 |

TOTAL EROSION CONTROL COSTS = \$326.00

TOTAL PROJECT COST = \$90,589.33

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: D to E

Sale Number: FG-341-2021-W00552-01
 Improvement: 113+15 stations
2.14 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|---|------|------|----------|----------|------------|
| Roadside brushing (light) | 2.14 | mi @ | \$850.00 | per mi = | \$1,821.54 |
| Clean culvert inlet & outlet, scatter waste | 14 | ea @ | \$25.00 | per ea = | \$350.00 |
| Construct Settling Ponds | 4 | ea @ | \$25.00 | per ea = | \$100.00 |

TOTAL IMPROVEMENT COSTS = \$2,271.54

CULVERTS

| | | | | | |
|------------------|---|------|---------|----------|----------------|
| Markers & Stakes | | | | | |
| Culvert Markers | 5 | ea @ | \$10.00 | per ea = | <u>\$50.00</u> |

TOTAL CULVERT COSTS = \$50.00

TOTAL PROJECT COST = \$2,321.54

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: E to L

Sale Number: FG-341-2021-W00552-01
 Improvement: 7+75 stations
0.15 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|-------------------------------|------|-------|------------|------------|----------|
| Clearing & grubbing (scatter) | 0.09 | ac @ | \$1,078.00 | per acre = | \$97.02 |
| Heavy Road Improvement | 7.75 | sta @ | \$110.00 | per sta = | \$852.50 |
| Construct 70' Landing | 1 | ea @ | \$314.00 | per ea = | \$314.00 |
| Improve 70' Landing | 1 | ea @ | \$157.00 | per ea = | \$157.00 |
| Grade, ditch, & roll | 7.75 | sta @ | \$36.00 | per sta = | \$279.00 |

TOTAL IMPROVEMENT COSTS = \$1,699.52

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|------------|--------------------|
| Surfacing rock | | | | | | |
| Surfacing rock | 4"-0 | \$10.04 | \$3.91 | \$1.22 | 411 | \$6,229.93 |
| Junction | 4"-0 | \$10.04 | \$3.91 | \$1.22 | 36 | \$546.02 |
| 70' Landing | 4"-0 | \$10.04 | \$3.91 | \$1.22 | 300 | \$4,550.16 |
| Subtotal = | | | | | 747 | \$11,326.11 |

| | | |
|--------|------------|-----|
| Totals | All Rock = | 747 |
| | 4" - 0 = | 747 |

TOTAL ROCK COSTS = \$11,326.11

EROSION CONTROL

| | | | | | |
|-------------------------|------|------|----------|----------|---------|
| Grass seed & fertilizer | 0.05 | ac @ | \$425.00 | per ac = | \$19.13 |
|-------------------------|------|------|----------|----------|---------|

TOTAL EROSION CONTROL COSTS = \$19.13

TOTAL PROJECT COST = \$13,044.76

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: F to G

Sale Number: FG-341-2021-W00552-01
 Improvement: 16+65 stations
0.32 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|--------------------------------|-------|-------|------------|------------|----------|
| Clearing & grubbing (scatter) | 0.20 | ac @ | \$1,078.00 | per acre = | \$215.60 |
| Construct Settling Ponds | 2 | ea @ | \$25.00 | per ea = | \$50.00 |
| Construct Roadside 50' landing | 1 | ea @ | \$165.00 | per ea = | \$165.00 |
| Grade, ditch, & roll | 16.65 | sta @ | \$36.00 | per sta = | \$599.40 |

TOTAL IMPROVEMENT COSTS = \$1,030.00

CULVERTS

| | | | | | |
|------------------|---|------|---------|----------|---------|
| Markers & Stakes | | | | | |
| Culvert Markers | 1 | ea @ | \$10.00 | per ea = | \$10.00 |

TOTAL CULVERT COSTS = \$10.00

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|------------|--------------------|
| Surfacing rock | | | | | | |
| Surfacing rock | 4"-0 | \$10.04 | \$2.46 | \$1.22 | 699 | \$9,592.44 |
| Turnout | 4"-0 | \$10.04 | \$2.46 | \$1.22 | 19 | \$260.63 |
| Turnaround | 4"-0 | \$10.04 | \$2.46 | \$1.22 | 14 | \$192.04 |
| Roadside landing | 4"-0 | \$10.04 | \$2.46 | \$1.22 | 60 | \$823.03 |
| Subtotal = | | | | | 792 | \$10,868.14 |

| | | |
|--------|------------|-----|
| Totals | All Rock = | 792 |
| | 4" - 0 = | 792 |

TOTAL ROCK COSTS = \$10,868.14

EROSION CONTROL

| | | | | | |
|-------------------------|------|------|----------|----------|---------|
| Grass seed & fertilizer | 0.10 | ac @ | \$425.00 | per ac = | \$42.50 |
|-------------------------|------|------|----------|----------|---------|

TOTAL EROSION CONTROL COSTS = \$42.50

TOTAL PROJECT COST = \$11,950.64

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: H to I

Sale Number: FG-341-2021-W00552-01
 Improvement: 5+75 stations
0.11 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|---|------|-------|------------|------------|----------|
| Clearing & grubbing (scatter) | 0.07 | ac @ | \$1,078.00 | per acre = | \$75.46 |
| Clean ditch & scatter waste material | 5.75 | sta @ | \$60.00 | per sta = | \$345.00 |
| Clean culvert inlet & outlet, scatter waste | 1 | ea @ | \$25.00 | per ea = | \$25.00 |
| Construct Roadside 50' landing | 1 | ea @ | \$165.00 | per ea = | \$165.00 |
| Grade, ditch, & roll | 5.75 | sta @ | \$36.00 | per sta = | \$207.00 |

TOTAL IMPROVEMENT COSTS = \$817.46

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|------------|-------------------|
| Surfacing rock | | | | | | |
| Surfacing rock | 4"-0 | \$10.04 | \$2.43 | \$1.22 | 178 | \$2,439.74 |
| Roadside landing | 4"-0 | \$10.04 | \$2.43 | \$1.22 | 47 | \$643.30 |
| Subtotal = | | | | | 225 | \$3,083.04 |

Totals

| | |
|------------|-----|
| All Rock = | 225 |
| 4" - 0 = | 225 |

TOTAL ROCK COSTS = \$3,083.04

EROSION CONTROL

| | | | | | |
|-------------------------|------|------|----------|----------|---------|
| Grass seed & fertilizer | 0.04 | ac @ | \$425.00 | per ac = | \$14.88 |
|-------------------------|------|------|----------|----------|---------|

TOTAL EROSION CONTROL COSTS = \$14.88

TOTAL PROJECT COST = \$3,915.38

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: J to K

Sale Number: FG-341-2021-W00552-01
 Improvement: 46+45 stations
0.88 miles

PROJECT NO. 1

IMPROVEMENT

| | | | | | |
|--------------------------------------|-------|-------|------------|------------|------------|
| Clearing & grubbing (scatter) | 0.54 | ac @ | \$1,078.00 | per acre = | \$582.12 |
| Clean ditch & scatter waste material | 46.45 | sta @ | \$60.00 | per sta = | \$2,787.00 |
| Construct Settling Ponds | 3 | ea @ | \$25.00 | per ea = | \$75.00 |
| Improve Roadside 50' landing | 6 | ea @ | \$82.50 | per ea = | \$495.00 |
| Grade, ditch, & roll | 46.45 | sta @ | \$36.00 | per sta = | \$1,672.20 |

TOTAL IMPROVEMENT COSTS = \$5,611.32

CULVERTS

| | | | | | |
|------------------------------|-----|-------|----------|----------|------------|
| Culverts and Bands | | | | | |
| 18" Diameter | 110 | LF @ | \$18.37 | per LF = | \$2,020.70 |
| 24" Diameter | 60 | LF @ | \$29.43 | per LF = | \$1,765.80 |
| Markers & Stakes | | | | | |
| Culvert Markers | 4 | ea @ | \$10.00 | per ea = | \$40.00 |
| Additional Installation Cost | | | | | |
| Bedrock Showing | 4 | hrs @ | \$260.00 | per hr = | \$1,040.00 |

TOTAL CULVERT COSTS = \$4,866.50

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|--------------|--------------------|
| Subgrade rock | | | | | | |
| Bedding and backfill | 1½" - 0 | \$1.01 | \$2.85 | \$0.50 | 96 | \$418.62 |
| Energy dissipator | Rip-rap | \$10.04 | \$4.24 | \$1.60 | 12 | \$190.53 |
| Subtotal = | | | | | 108 | \$609.15 |
| Surfacing rock | | | | | | |
| Surfacing rock | 4"-0 | \$10.04 | \$2.83 | \$1.22 | 1,951 | \$27,482.73 |
| Roadside landing | 4"-0 | \$10.04 | \$2.83 | \$1.22 | 360 | \$5,071.39 |
| Subtotal = | | | | | 2,311 | \$32,554.13 |

| | |
|---------------|-------|
| Totals | |
| All Rock = | 2,419 |
| 1½" - 0 = | 96 |
| 4" - 0 = | 2,311 |
| Riprap = | 12 |

TOTAL ROCK COSTS = \$33,163.28

EROSION CONTROL

| | | | | | |
|-------------------------|------|------|----------|----------|----------|
| Grass seed & fertilizer | 0.27 | ac @ | \$425.00 | per ac = | \$114.75 |
| Straw Mulch Bale | 5 | ea @ | \$10.00 | per ea = | \$50.00 |

TOTAL EROSION CONTROL COSTS = \$164.75

TOTAL PROJECT COST = \$43,805.85

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: M to N

Sale Number: FG-341-2021-W00552-01
 Construction: 17+30 stations
0.33 miles

PROJECT NO. 2

CONSTRUCTION

| | | | | | |
|-------------------------------|-------|-------|------------|-----------|------------|
| Clearing & grubbing (scatter) | 1.99 | ac @ | \$1,078.00 | per ac = | \$2,145.22 |
| Balanced road construction | 12.60 | sta @ | \$110.00 | per sta = | \$1,386.00 |
| Drift | 4.70 | sta @ | \$180.00 | per sta = | \$846.00 |
| Turnouts | 2 | ea @ | \$66.00 | per ea = | \$132.00 |
| Turnarounds | 1 | ea @ | \$82.50 | per ea = | \$82.50 |
| Roadside 50' landing | 1 | ea @ | \$165.00 | per ea = | \$165.00 |
| 70' Landing | 1 | ea @ | \$314.00 | per ea = | \$314.00 |
| Grade, ditch, & roll | 17.30 | sta @ | \$36.00 | per sta = | \$622.80 |

TOTAL CONSTRUCTION COSTS = \$5,693.52

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|--------------|--------------------|
| Surfacing rock | | | | | | |
| Surfacing rock | 4" - 0 | \$10.04 | \$4.08 | \$1.22 | 1,125 | \$17,246.69 |
| Junction | 4" - 0 | \$10.04 | \$4.08 | \$1.22 | 48 | \$736.19 |
| Turnout | 4" - 0 | \$10.04 | \$4.08 | \$1.22 | 58 | \$889.56 |
| Turnaround | 4" - 0 | \$10.04 | \$4.08 | \$1.22 | 20 | \$306.74 |
| Traction rock | 1½" - 0 | \$1.01 | \$2.75 | \$1.22 | 71 | \$351.14 |
| Roadside landing | 4" - 0 | \$10.04 | \$4.08 | \$1.22 | 95 | \$1,457.03 |
| 70' Landing | 4" - 0 | \$10.04 | \$4.08 | \$1.22 | 180 | \$2,760.70 |
| Subtotal = | | | | | 1,596 | \$20,987.35 |

| | | |
|--------|-------------------|--------------|
| Totals | All Rock = | 1,596 |
| | 1½" - 0 = | 71 |
| | 4" - 0 = | 1,526 |

TOTAL ROCK COSTS = \$20,987.35

EROSION CONTROL

| | | | | | |
|-------------------------|------|------|----------|----------|----------|
| Grass seed & fertilizer | 1.00 | ac @ | \$500.00 | per ac = | \$497.50 |
|-------------------------|------|------|----------|----------|----------|

TOTAL EROSION CONTROL COSTS = \$497.50

TOTAL PROJECT COST = \$27,178.37

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly
 Road Segment: O to P

Sale Number: FG-341-2021-W00552-01
 Construction: 8+00 stations
0.15 miles

PROJECT NO. 2

CONSTRUCTION

| | | | | | |
|-----------------------------------|------|-------|------------|-----------|-------------------|
| Clearing & grubbing (scatter) | 0.92 | ac @ | \$1,078.00 | per ac = | \$991.76 |
| Balanced road construction | 8.00 | sta @ | \$110.00 | per sta = | \$880.00 |
| Turnouts | 1 | ea @ | \$66.00 | per ea = | \$66.00 |
| Turnarounds | 1 | ea @ | \$82.50 | per ea = | \$82.50 |
| Roadside 50' landing | 1 | ea @ | \$165.00 | per ea = | \$165.00 |
| 70' Landing | 1 | ea @ | \$314.00 | per ea = | \$314.00 |
| Grade, ditch, & roll | 8.00 | sta @ | \$36.00 | per sta = | \$288.00 |
| TOTAL CONSTRUCTION COSTS = | | | | | \$2,787.26 |

CULVERTS

| | | | | | |
|------------------------------|----|------|---------|----------|-----------------|
| Culverts and Bands | | | | | |
| 18" Diameter | 30 | LF @ | \$18.37 | per LF = | \$551.10 |
| Markers & Stakes | | | | | |
| Culvert markers | 1 | ea @ | \$10.00 | per ea = | \$10.00 |
| TOTAL CULVERT COSTS = | | | | | \$561.10 |

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Placement/ Processing Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|-----------------|-----------------|----------------------------------|------------|--------------------|
| Surfacing rock | | | | | | |
| Surfacing rock | 4" - 0 | \$10.04 | \$4.14 | \$1.22 | 520 | \$8,006.55 |
| Turnout | 4" - 0 | \$10.04 | \$4.14 | \$1.22 | 29 | \$446.52 |
| Turnaround | 4" - 0 | \$10.04 | \$4.14 | \$1.22 | 20 | \$307.94 |
| Roadside landing | 4" - 0 | \$10.04 | \$4.14 | \$1.22 | 95 | \$1,462.73 |
| 70' Landing | 4" - 0 | \$10.04 | \$4.14 | \$1.22 | 180 | \$2,771.50 |
| Subtotal = | | | | | 844 | \$10,223.75 |

| | | |
|--------|------------|-----|
| Totals | All Rock = | 844 |
| | 4" - 0 = | 844 |

TOTAL ROCK COSTS = \$10,223.75

EROSION CONTROL

| | | | | | |
|--------------------------------------|------|------|----------|----------|-----------------|
| Grass seed & fertilizer | 0.46 | ac @ | \$500.00 | per ac = | \$230.00 |
| TOTAL EROSION CONTROL COSTS = | | | | | \$230.00 |

TOTAL PROJECT COST = \$13,802.11

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly

Sale Number: FG-341-2021-W00552-01

PROJECT NO. 3 STOCKPILE CONSTRUCTION

ROCK

| | Rock Size | Base Cost \$/cy | Haul Cost \$/cy | Stockpile Shaping Cost \$/cy | Total CY | Rock Cost |
|-----------------------|-----------|--------------------|--------------------|------------------------------------|----------|--------------|
| Stockpile rock | | | | | | |
| Stockpile rock | 4"-0 | \$10.04 | \$0.51 | \$1.10 | 28,600 | \$333,110.12 |
| | | | | Subtotal = | 28,600 | \$333,110.12 |

| | | |
|--------|------------|--------|
| Totals | All Rock = | 28,600 |
| | 4"-0 = | 28,600 |

TOTAL PROJECT COST = \$333,110.12

SUMMARY OF CONSTRUCTION COST

Timber Sale: _____ Timber Sale: _____ Sale Number: FG-341-2021-W00552-01
Road Segment: V1 to V2 Vacating: 11+90 stations
0.23 miles

PROJECT NO. 4 ROAD VACATE

| | | | | | |
|---------------------------|-------|-------|----------|-----------|------------|
| Construct tank traps | 2 | ea @ | \$55.00 | per ea = | \$110.00 |
| Rip rocked road surface | 12 | sta @ | \$50.00 | per sta = | \$595.00 |
| Side cast / Fill pullback | 3,526 | cy @ | \$2.12 | per ea = | \$7,474.96 |
| Remove existing culverts | 6 | ea @ | \$150.00 | per ea = | \$900.00 |
| Grass seed & fertilizer | 0.85 | ac @ | \$425.00 | per ac = | \$361.25 |
| Mulch | 0.85 | ac @ | \$600.00 | per ac = | \$510.00 |

TOTAL PROJECT COST = \$9,951.21

SUMMARY OF CONSTRUCTION COST

Timber Sale: Willy-nilly

Sale Number: FG-341-2021-W00552-01

PROJECT No. 1, 2 & 3 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

| <u>Equipment</u> | <u>Total</u> |
|--|--|
| Brush Cutter | \$787.15 |
| Grader | \$1,277.33 |
| Loader (Med. & Large) | \$1,106.45 |
| Roller (smooth/grid) & Compactor | \$787.15 |
| Excavator (Large) - Equipment Cleaning | \$2,277.33 |
| Dozer (Large) - Equipment Cleaning | \$2,321.91 |
| Dump Truck (10cy +) | \$392.98 |
| Water Truck (2,500 Gal) | \$196.49 |
| | <u>TOTAL MOVE-IN COSTS = \$9,146.79</u> |

PROJECT No. 4 MOVE-IN & CLEANING COSTS

| <u>Equipment</u> | <u>Total</u> |
|--|--|
| Excavator (Large) - Equipment Cleaning | \$2,277.33 |
| Water Truck (2,500 Gal) | \$196.32 |
| | <u>TOTAL MOVE-IN COSTS = \$2,473.65</u> |

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Willy-nilly
Sale Number: FG-341-2021-W00552-01
Stockpile Name: North Fork Trask 5.5

1 1/2" - 0: 6,536 cy (truck measure)
Total truck yardage: 6,536 cy

Move-in

| | | | | |
|---------------------|--|--|------------|-------------------|
| Move in loader | | | | \$884.83 |
| Move in Dump Trucks | | | | \$492.00 |
| | | | Subtotal = | <u>\$1,376.83</u> |
| | | | Per CY = | <u>\$0.21/cy</u> |

1 1/2"-0 Base Cost

| | | | | | |
|-----------------|---------------|--------|--------------|------------|--------------------------|
| Load dump truck | <u>\$0.80</u> | / cy x | <u>6,536</u> | cy = | <u>\$5,228.56</u> |
| | | | | Subtotal = | <u>\$5,228.56</u> |
| | | | | Per CY = | <u>\$0.80</u> |
| | | | | Total = | <u><u>\$6,605.39</u></u> |

1 1/2"-0 Cost = **\$1.01/cy**

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Willy-nilly
 Sale Number: FG-341-2021-W00552-01
 Quarry Name: Barney Quarry

4" - 0: 11,129 cy (truck measure)
 Stockpile (4"-0): 28,600 cy (stockpile measure)
 Total truck yardage: 44,305 cy
 Total in place yardage: 34,081 cy
 Oversize - Reduction: 20%
 Swell: 130%
 Compaction: 116%

Move-in & Other Base Cost

| | | |
|-------------------------|--------------------------------------|-------------------|
| Move in excavator | | \$2,137.74 |
| Move in dozer | | \$1,033.41 |
| Move in & setup drill | | \$2,102.24 |
| Move in loader | | \$934.25 |
| Move in & setup crusher | | \$500.00 |
| Move in Dump Trucks | | \$534.60 |
| Gradation tests | \$71.50 /2,000cy x <u>23</u> tests = | \$1,644.50 |
| Erosion Control | | \$509.29 |
| Clean up quarry | | \$500.00 |
| | Subtotal = | <u>\$9,896.03</u> |
| | Per CY = | <u>\$0.22/cy</u> |

4"-0 Base Cost

| | | | | | |
|-------------------|---------------|--------|---------------|------------|---------------------|
| Drill & shoot | <u>\$2.80</u> | / cy x | <u>34,081</u> | cy = | \$95,426.48 |
| Push rock | <u>\$1.60</u> | / cy x | <u>44,305</u> | cy = | \$70,888.25 |
| Oversize - Reduce | <u>\$5.80</u> | / cy x | <u>8,861</u> | cy = | \$51,393.98 |
| Load crusher | <u>\$0.80</u> | / cy x | <u>44,305</u> | cy = | \$35,444.12 |
| Crush (3" - 0) | <u>\$3.30</u> | / cy x | <u>11,129</u> | cy = | \$36,726.21 |
| Crush (Stockpile) | <u>\$3.30</u> | / cy x | <u>33,176</u> | cy = | \$109,480.80 |
| Load dump truck | <u>\$0.80</u> | / cy x | <u>44,305</u> | cy = | \$35,444.12 |
| | | | | Subtotal = | <u>\$434,803.96</u> |
| | | | | Per CY = | <u>\$9.81/cy</u> |
| | | | | Total = | <u>\$444,699.99</u> |

4"-0 Base Cost = \$10.04/cy

CRUISE REPORT
Willy-nilly
FG-341-2021-W00552-01

1. LOCATION: Portions of Sections 20 and 21, T1S, R6W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 16 inches and the coefficient of variation is about 56%. 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 sampled in June 2020 with 38 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 7 chain x 7 chain grid for the Timber Sale Area. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

201 trees were measured and graded producing a cumulative Sampling Error of 9.3% on the Douglas-fir basal area and 10.4% for the Douglas-fir net 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 top DIB of six inches (or 25% of DBH, whichever is larger) for conifers.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors:** Measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING:

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from Super Ace 2008 cruise software.
- b) **Deductions:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted. For hardwoods five percent was deducted.

7. CRUISERS: The sale was cruised by ODF cruiser Adrian Torres, Mark Savage, Kenton Burns and Nate Hunter.

Prepared by: Adrian Torres 06/19/2020
Date

Reviewed by: Mark Savage 06/29/2020
Date

PROJECT STATISTICSPROJECT **WILLYFIN**

DATE 6/29/2020

| TWP | RGE | SC | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt |
|--------------|------|-------------|------------------|---------------|---------------|-----------------|-----------|-----------|-----------|
| 01N | 06 | 20 | 00A1 | 00MC | 93.00 | 19 | 89 | S | W |
| CL | 68.1 | COEFF | NET BF/ACRE | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.00 | VAR. | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| TOTAL | | <i>47.0</i> | <i>11.1</i> | <i>29,859</i> | <i>33,577</i> | <i>37,295</i> | <i>93</i> | <i>23</i> | <i>10</i> |
| 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 | | 49.8 | 11.7 | 4,173 | 4,729 | 5,284 | | | |
| R ALDER | | 105.0 | 24.7 | 1,320 | 1,754 | 2,188 | | | |
| WHEMLOCK | | 353.6 | 83.3 | 98 | 590 | 1,082 | | | |
| BL MAPLE | | 239.1 | 56.3 | 96 | 219 | 343 | | | |
| TOTAL | | <i>45.8</i> | <i>10.8</i> | <i>6,505</i> | <i>7,292</i> | <i>8,080</i> | <i>89</i> | <i>22</i> | <i>10</i> |

| TC | | PSTNDSUM | | Stand Table Summary | | | | | | | | | Page 1 | | | |
|----------------------------|--------|----------|-----------------|---------------------|----------|----------------|-------------|--------------|-----------------|---------------|---------------|-----------------------|-----------------------|--------|--------|-------|
| | | | | | | | | | | | | | Date: 6/29/2020 | | | |
| T01N R06W S20 Ty00MC 93.00 | | | | Project WILLYFIN | | | | | Time: 1:04:06PM | | | | | | | |
| | | | | Acres 93.00 | | | | | Grown Year: | | | | | | | |
| S Spc | T | DBH | Sample Trees | FF 16' | Av Ht | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | Totals | | |
| | | | | | | | | | Net Cu.Ft. | Net Bd.Ft. | | | | Tons | Cunits | MBF |
| DF | | 11 | 2 | 88 | 84 | 6.380 | 4.21 | 6.38 | 14.8 | 60.0 | 2.70 | 95 | 383 | 251 | 88 | 36 |
| DF | | 14 | 2 | 89 | 115 | 3.939 | 4.21 | 7.88 | 20.6 | 95.0 | 4.62 | 162 | 748 | 430 | 151 | 70 |
| DF | | 15 | 1 | 89 | 125 | 1.716 | 2.11 | 3.43 | 24.3 | 110.0 | 2.37 | 83 | 377 | 221 | 77 | 35 |
| DF | | 16 | 2 | 89 | 126 | 3.016 | 4.21 | 7.54 | 23.1 | 104.0 | 4.97 | 174 | 784 | 462 | 162 | 73 |
| DF | | 17 | 1 | 89 | 98 | 1.336 | 2.11 | 2.67 | 27.6 | 115.0 | 2.10 | 74 | 307 | 196 | 69 | 29 |
| DF | | 18 | 5 | 89 | 121 | 5.957 | 10.53 | 13.10 | 31.8 | 133.6 | 11.87 | 417 | 1,751 | 1,104 | 387 | 163 |
| DF | | 19 | 3 | 89 | 128 | 3.208 | 6.32 | 8.55 | 33.7 | 148.7 | 8.20 | 288 | 1,272 | 763 | 268 | 118 |
| DF | | 20 | 4 | 89 | 119 | 3.860 | 8.42 | 9.65 | 36.5 | 153.0 | 10.04 | 352 | 1,476 | 933 | 327 | 137 |
| DF | | 21 | 2 | 90 | 129 | 1.751 | 4.21 | 5.25 | 34.8 | 166.7 | 5.21 | 183 | 875 | 485 | 170 | 81 |
| DF | | 22 | 4 | 89 | 135 | 3.190 | 8.42 | 9.57 | 41.0 | 196.7 | 11.19 | 393 | 1,882 | 1,041 | 365 | 175 |
| DF | | 23 | 1 | 89 | 139 | .730 | 2.11 | 2.92 | 33.4 | 170.0 | 2.78 | 98 | 496 | 258 | 91 | 46 |
| DF | | 24 | 7 | 89 | 131 | 4.691 | 14.74 | 13.40 | 50.4 | 230.0 | 19.23 | 675 | 3,083 | 1,789 | 628 | 287 |
| DF | | 25 | 1 | 89 | 133 | .618 | 2.11 | 1.85 | 54.7 | 256.7 | 2.89 | 101 | 476 | 268 | 94 | 44 |
| DF | | 26 | 2 | 89 | 140 | 1.142 | 4.21 | 4.00 | 51.8 | 264.3 | 5.90 | 207 | 1,056 | 549 | 193 | 98 |
| DF | | 27 | 2 | 89 | 149 | 1.059 | 4.21 | 3.18 | 66.3 | 313.3 | 6.00 | 210 | 995 | 558 | 196 | 93 |
| DF | | 29 | 1 | 86 | 162 | .459 | 2.11 | 1.84 | 61.9 | 300.0 | 3.24 | 114 | 551 | 301 | 106 | 51 |
| DF | | 32 | 2 | 86 | 135 | .754 | 4.21 | 2.26 | 84.2 | 410.0 | 5.43 | 190 | 927 | 505 | 177 | 86 |
| DF | | 35 | 4 | 84 | 142 | 1.260 | 8.42 | 4.10 | 99.1 | 468.5 | 11.57 | 406 | 1,919 | 1,076 | 378 | 178 |
| DF | | 36 | 1 | 89 | 143 | .298 | 2.11 | .89 | 119.1 | 670.0 | 3.03 | 106 | 599 | 282 | 99 | 56 |
| DF | | 38 | 1 | 82 | 129 | .267 | 2.11 | .80 | 116.5 | 556.7 | 2.66 | 93 | 446 | 248 | 87 | 42 |
| DF | | 41 | 1 | 86 | 140 | .230 | 2.11 | .69 | 147.7 | 763.3 | 2.90 | 102 | 526 | 270 | 95 | 49 |
| DF | | 42 | 2 | 87 | 138 | .438 | 4.21 | 1.31 | 156.5 | 813.3 | 5.86 | 205 | 1,068 | 545 | 191 | 99 |
| DF | Totals | | 51 | 89 | 121 | 46.295 | 107.37 | 111.27 | 42.5 | 197.7 | 134.77 | 4,729 | 21,999 | 12,533 | 4,398 | 2,046 |
| RA | | 9 | 1 | 91 | 73 | 4.765 | 2.11 | 4.77 | 8.0 | 40.0 | 1.05 | 38 | 191 | 98 | 36 | 18 |
| RA | | 11 | 2 | 92 | 82 | 6.380 | 4.21 | 9.57 | 11.1 | 46.7 | 2.93 | 107 | 447 | 272 | 99 | 42 |
| RA | | 12 | 2 | 94 | 99 | 5.361 | 4.21 | 10.72 | 13.6 | 67.5 | 4.02 | 146 | 724 | 374 | 136 | 67 |
| RA | | 13 | 4 | 91 | 81 | 9.136 | 8.42 | 11.42 | 18.5 | 90.0 | 5.80 | 211 | 1,028 | 539 | 196 | 96 |
| RA | | 14 | 5 | 91 | 84 | 9.847 | 10.53 | 19.69 | 16.5 | 73.0 | 8.92 | 324 | 1,438 | 829 | 302 | 134 |
| RA | | 15 | 2 | 92 | 87 | 3.431 | 4.21 | 5.15 | 21.0 | 80.0 | 2.98 | 108 | 412 | 277 | 101 | 38 |
| RA | | 16 | 3 | 94 | 106 | 4.523 | 6.32 | 7.54 | 27.6 | 124.0 | 5.71 | 208 | 935 | 531 | 193 | 87 |
| RA | | 17 | 2 | 91 | 78 | 2.671 | 4.21 | 4.01 | 27.9 | 123.3 | 3.08 | 112 | 494 | 286 | 104 | 46 |
| RA | | 18 | 3 | 91 | 89 | 3.574 | 6.32 | 5.96 | 32.7 | 138.0 | 5.35 | 195 | 822 | 498 | 181 | 76 |
| RA | | 19 | 2 | 91 | 105 | 2.138 | 4.21 | 4.28 | 35.3 | 157.5 | 4.15 | 151 | 674 | 386 | 140 | 63 |
| RA | | 20 | 2 | 92 | 111 | 1.930 | 4.21 | 4.82 | 32.0 | 150.0 | 4.25 | 155 | 724 | 395 | 144 | 67 |
| RA | Totals | | 28 | 92 | 88 | 53.757 | 58.95 | 87.92 | 19.9 | 89.7 | 48.23 | 1,754 | 7,886 | 4,486 | 1,631 | 733 |
| WH | | 13 | 2 | 87 | 110 | 4.568 | 4.21 | 9.14 | 17.4 | 75.0 | 5.08 | 159 | 685 | 472 | 148 | 64 |
| WH | | 15 | 1 | 89 | 134 | 1.716 | 2.11 | 5.15 | 18.9 | 90.0 | 3.12 | 97 | 463 | 290 | 91 | 43 |
| WH | | 19 | 1 | 89 | 143 | 1.069 | 2.11 | 3.21 | 35.0 | 163.3 | 3.59 | 112 | 524 | 334 | 104 | 49 |
| WH | | 23 | 1 | 89 | 128 | .730 | 2.11 | 2.19 | 46.6 | 223.3 | 3.26 | 102 | 489 | 303 | 95 | 45 |
| WH | | 29 | 1 | 93 | 142 | .459 | 2.11 | 1.38 | 87.1 | 470.0 | 3.84 | 120 | 647 | 357 | 112 | 60 |
| WH | Totals | | 6 | 88 | 122 | 8.541 | 12.63 | 21.06 | 28.0 | 133.4 | 18.89 | 590 | 2,808 | 1,757 | 549 | 261 |
| BM | | 10 | 1 | 87 | 56 | 3.860 | 2.11 | 3.86 | 9.2 | 40.0 | .94 | 36 | 154 | 88 | 33 | 14 |
| BM | | 16 | 1 | 92 | 78 | 1.508 | 2.11 | 3.02 | 21.5 | 90.0 | 1.71 | 65 | 271 | 159 | 60 | 25 |
| BM | | 17 | 1 | 90 | 65 | 1.336 | 2.11 | 1.34 | 36.8 | 120.0 | 1.30 | 49 | 160 | 121 | 46 | 15 |
| BM | | 26 | 1 | 89 | 101 | .571 | 2.11 | 1.14 | 61.2 | 260.0 | 1.85 | 70 | 297 | 172 | 65 | 28 |
| BM | Totals | | 4 | 89 | 66 | 7.274 | 8.42 | 9.35 | 23.4 | 94.4 | 5.81 | 219 | 883 | 540 | 204 | 82 |
| Totals | | | 89 | 90 | 102 | 115.868 | 187.37 | 229.60 | 31.8 | 146.2 | 207.70 | 7,292 | 33,577 | 19,316 | 6,782 | 3,123 |

Log Stock Table - MBF

T01N R06W S20 Ty00MC 93.00

Project: WILLYFIN
Acres 93.00

Page 2
Date 6/29/2020
Time 1:04:05PM

| Spp | S T | So Gr rt 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 | 40+ | | |
| DF | | 4M | 13 | 4 | | 4 | .2 | | | 4 | | | | | | | | | | | |
| DF | | 4M | 14 | 2 | | 2 | .1 | | | 2 | | | | | | | | | | | |
| DF | | 4M | 16 | 1 | | 1 | .1 | | | 1 | | | | | | | | | | | |
| DF | | 4M | 17 | 1 | | 1 | .0 | | | | 1 | | | | | | | | | | |
| DF | | 4M | 19 | 1 | | 1 | .1 | | | 1 | | | | | | | | | | | |
| DF | | 4M | 21 | 2 | | 2 | .1 | | | 2 | | | | | | | | | | | |
| DF | | 4M | 24 | 2 | | 2 | .1 | | | 2 | | | | | | | | | | | |
| DF | | 4M | 25 | 3 | | 3 | .2 | | | 3 | | | | | | | | | | | |
| DF | | 4M | 26 | 3 | | 3 | .1 | | | 3 | | | | | | | | | | | |
| DF | | 4M | 27 | 2 | | 2 | .1 | | | 2 | | | | | | | | | | | |
| DF | | 4M | 28 | 2 | | 2 | .1 | | | 2 | | | | | | | | | | | |
| DF | | 4M | 29 | 3 | | 3 | .2 | | | 3 | | | | | | | | | | | |
| DF | | 4M | 30 | 6 | | 6 | .3 | | | 6 | | | | | | | | | | | |
| DF | | 4M | 31 | 3 | | 3 | .1 | | | 3 | | | | | | | | | | | |
| DF | | 4M | 32 | 5 | | 5 | .2 | | | 5 | | | | | | | | | | | |
| DF | | 4M | 34 | 9 | | 9 | .4 | | | 9 | | | | | | | | | | | |
| DF | | 4M | 35 | 4 | | 4 | .2 | | | 4 | | | | | | | | | | | |
| DF | | Totals | | 2,064 | | 2,046 | 65.5 | | | 196 | 98 | 270 | 225 | 323 | 478 | 237 | 184 | | | 33 | |
| BM | | CR | 26 | 14 | | 14 | 17.5 | | | 14 | | | | | | | | | | | |
| BM | | CR | 28 | 27 | 5.3 | 25 | 30.7 | | | 7 | | 18 | | | | | | | | | |
| BM | | CR | 36 | 3 | | 3 | 3.9 | | | 3 | | | | | | | | | | | |
| BM | | CR | 40 | 39 | | 39 | 47.9 | | | | 15 | | | | 24 | | | | | | |
| BM | | Totals | | 84 | 1.7 | 82 | 2.6 | | | 25 | 15 | 18 | | | 24 | | | | | | |
| WH | | 2M | 40 | 117 | | 117 | 44.9 | | | | | | | 29 | 48 | 40 | | | | | |
| WH | | 3M | 39 | 3 | | 3 | 1.1 | | | 3 | | | | | | | | | | | |
| WH | | 3M | 40 | 112 | | 112 | 42.7 | | | 11 | 45 | 56 | | | | | | | | | |
| WH | | 4M | 16 | 3 | | 3 | 1.2 | | | 3 | | | | | | | | | | | |
| WH | | 4M | 25 | 2 | | 2 | .8 | | | 2 | | | | | | | | | | | |
| WH | | 4M | 26 | 6 | | 6 | 2.4 | | | 6 | | | | | | | | | | | |
| WH | | 4M | 32 | 5 | | 5 | 1.9 | | | 5 | | | | | | | | | | | |
| WH | | 4M | 39 | 13 | | 13 | 4.9 | | | 13 | | | | | | | | | | | |
| WH | | Totals | | 261 | | 261 | 8.4 | | | 43 | 45 | 56 | | 29 | 48 | 40 | | | | | |
| Total | | All Species | | 3,144 | | 3,123 | 100.0 | | | 429 | 380 | 404 | 468 | 377 | 570 | 277 | 184 | | | 33 | |

| TC PSTATS | | PROJECT STATISTICS | | | | | | | PAGE | 1 | |
|--|------|---------------------------|--------------------------|---------------|-------------------|-----------------------------|----------------------------|---------------|---------------|---------------|--|
| | | PROJECT WILLYFIN | | | | | | | DATE | 6/29/2020 | |
| TWP | RGE | SC | TRACT | TYPE | | ACRES | PLOTS | TREES | CuFt | BdFt | |
| 01S | 06 | 20 | 00A2 | 00MC | | 95.00 | 19 | 112 | S | W | |
| | | | PLOTS | TREES | TREES PER PLOT | ESTIMATED TOTAL TREES | PERCENT SAMPLE TREES | | | | |
| TOTAL | | | 19 | 112 | 5.9 | | | | | | |
| CRUISE | | | 19 | 112 | 5.9 | 11,364 | 1.0 | | | | |
| DBH COUNT | | | | | | | | | | | |
| REFOREST | | | | | | | | | | | |
| COUNT | | | | | | | | | | | |
| BLANKS | | | | | | | | | | | |
| 100 % | | | | | | | | | | | |
| STAND SUMMARY | | | | | | | | | | | |
| SAMPLE | | TREES | AVG | BOLE | REL | BASAL | GROSS | NET | GROSS | NET | |
| TREES | | /ACRE | DBH | LEN | DEN | AREA | BF/AC | BF/AC | CF/AC | CF/AC | |
| DOUG FIR | | 112 | 119.6 | 19.0 | 110 | 54.1 | 235.8 | 45,890 | 45,741 | 10,017 | |
| TOTAL | | 112 | 119.6 | 19.0 | 110 | 54.1 | 235.8 | 45,890 | 45,741 | 10,017 | |
| 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 | | 83.8 | 7.9 | 634 | 688 | 742 | | | | | |
| TOTAL | | 83.8 | 7.9 | 634 | 688 | 742 | 281 | 70 | 31 | | |
| 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 | | 73.7 | 7.0 | 134 | 144 | 154 | | | | | |
| TOTAL | | 73.7 | 7.0 | 134 | 144 | 154 | 217 | 54 | 24 | | |
| 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 | | 65.8 | 15.5 | 101 | 120 | 138 | | | | | |
| TOTAL | | 65.8 | 15.5 | 101 | 120 | 138 | 183 | 46 | 20 | | |
| 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 | | 37.0 | 8.7 | 215 | 236 | 256 | | | | | |
| TOTAL | | 37.0 | 8.7 | 215 | 236 | 256 | 58 | 14 | 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 | | 50.6 | 11.9 | 40,290 | 45,741 | 51,193 | | | | | |
| TOTAL | | 50.6 | 11.9 | 40,290 | 45,741 | 51,193 | 108 | 27 | 12 | | |
| 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 | | 44.0 | 10.4 | 8,978 | 10,017 | 11,057 | | | | | |
| TOTAL | | 44.0 | 10.4 | 8,978 | 10,017 | 11,057 | 82 | 20 | 9 | | |

| | | | | |
|---|----------------------|-------|--|---|
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">T01S R06W S20 Ty00MC</td> <td style="width:30%; text-align: right;">95.00</td> </tr> </table> | T01S R06W S20 Ty00MC | 95.00 | Project: WILLYFIN Acres 95.00 | Page 1 Date 6/29/2020 Time 1:08:01PM |
| T01S R06W S20 Ty00MC | 95.00 | | | |

| S Spp | So T | Gr rt | ad | % Net BdFt | Bd. Ft. per Acre Def% Gross Net | | | 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 | | | | | | | | | | | | | | | 8 | 11 | | 0.00 | 6.2 |
| DF | | 2M | | 67 | .3 | 30,958 | 30,879 | 2,934 | | | 43 | 57 | | | | 100 | 40 | 16 | 441 | 2.18 | 70.0 |
| DF | | 3M | | 29 | .5 | 13,168 | 13,098 | 1,244 | | 98 | 2 | | | 0 | 5 | 95 | 39 | 8 | 99 | 0.65 | 132.8 |
| DF | | 4M | | 4 | | 1,764 | 1,764 | 168 | 1 | 99 | | | 28 | 41 | 19 | 13 | 23 | 6 | 32 | 0.40 | 55.7 |
| DF Totals | | | | 100 | .3 | 45,890 | 45,741 | 4,345 | 0 | 32 | 30 | 38 | 1 | 2 | 2 | 95 | 35 | 10 | 173 | 1.07 | 264.8 |
| Totals | | | | | 0.3 | 45,890 | 45,741 | 4,345 | 0 | 32 | 30 | 38 | 1 | 2 | 2 | 95 | 35 | 10 | 173 | 1.07 | 264.8 |

| TC PSTNDSUM | | Stand Table Summary | | | | | | | | | | | Page 1 | | | |
|----------------------|---|---------------------|-------|------------------|----------|----------------|-------------|--------------|-----------------|---------------|---------------|-----------------------|-----------------------|--------|--------|-------|
| | | | | | | | | | | | | | Date: 6/29/2020 | | | |
| T01S R06W S20 Ty00MC | | 95.00 | | Project WILLYFIN | | | | | Time: 1:08:02PM | | | | | | | |
| | | | | Acres 95.00 | | | | | Grown Year: | | | | | | | |
| S SpC | T | Sample DBH | Trees | Tot | | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | Totals | | |
| | | | | FF 16' | Av Ht | | | | Net Cu.Ft. | Net Bd.Ft. | | | | Tons | Cunits | MBF |
| DF | | 10 | 3 | 86 | 92 | 11.580 | 6.32 | 11.58 | 12.8 | 60.0 | 4.21 | 148 | 695 | 400 | 140 | 66 |
| DF | | 11 | 3 | 87 | 76 | 9.570 | 6.32 | 9.57 | 14.8 | 60.0 | 4.05 | 142 | 574 | 384 | 135 | 55 |
| DF | | 12 | 3 | 86 | 93 | 8.042 | 6.32 | 16.08 | 11.1 | 45.0 | 5.08 | 178 | 724 | 483 | 169 | 69 |
| DF | | 13 | 3 | 85 | 98 | 6.852 | 6.32 | 13.70 | 14.0 | 55.0 | 5.46 | 192 | 754 | 519 | 182 | 72 |
| DF | | 14 | 4 | 90 | 97 | 7.877 | 8.42 | 15.75 | 17.6 | 77.5 | 7.91 | 277 | 1,221 | 751 | 264 | 116 |
| DF | | 15 | 3 | 87 | 98 | 5.147 | 6.32 | 10.29 | 21.4 | 85.0 | 6.28 | 220 | 875 | 597 | 209 | 83 |
| DF | | 16 | 4 | 85 | 107 | 6.031 | 8.42 | 12.06 | 24.4 | 103.7 | 8.39 | 294 | 1,251 | 797 | 280 | 119 |
| DF | | 17 | 6 | 88 | 104 | 8.014 | 12.63 | 16.03 | 28.4 | 116.7 | 12.99 | 456 | 1,870 | 1,234 | 433 | 178 |
| DF | | 18 | 9 | 86 | 113 | 10.722 | 18.95 | 23.83 | 30.9 | 120.0 | 20.98 | 736 | 2,859 | 1,993 | 699 | 272 |
| DF | | 19 | 7 | 87 | 120 | 7.485 | 14.74 | 19.25 | 32.7 | 135.0 | 17.91 | 628 | 2,598 | 1,702 | 597 | 247 |
| DF | | 20 | 6 | 88 | 120 | 5.790 | 12.63 | 14.47 | 36.0 | 152.7 | 14.86 | 521 | 2,210 | 1,412 | 495 | 210 |
| DF | | 21 | 4 | 87 | 122 | 3.501 | 8.42 | 8.75 | 40.1 | 172.0 | 10.01 | 351 | 1,505 | 951 | 334 | 143 |
| DF | | 22 | 6 | 88 | 134 | 4.785 | 12.63 | 13.56 | 43.8 | 203.5 | 16.92 | 594 | 2,759 | 1,608 | 564 | 262 |
| DF | | 23 | 3 | 88 | 125 | 2.189 | 6.32 | 6.57 | 42.7 | 191.1 | 7.99 | 280 | 1,255 | 759 | 266 | 119 |
| DF | | 24 | 5 | 87 | 140 | 3.351 | 10.53 | 10.05 | 50.5 | 226.7 | 14.46 | 507 | 2,278 | 1,374 | 482 | 216 |
| DF | | 25 | 3 | 89 | 128 | 1.853 | 6.32 | 5.56 | 52.2 | 236.7 | 8.27 | 290 | 1,315 | 786 | 276 | 125 |
| DF | | 26 | 3 | 86 | 123 | 1.713 | 6.32 | 5.14 | 54.1 | 233.3 | 7.92 | 278 | 1,199 | 752 | 264 | 114 |
| DF | | 27 | 4 | 89 | 138 | 2.118 | 8.42 | 6.35 | 64.8 | 309.2 | 11.73 | 412 | 1,964 | 1,115 | 391 | 187 |
| DF | | 28 | 5 | 89 | 133 | 2.462 | 10.53 | 7.39 | 68.3 | 331.3 | 14.38 | 505 | 2,447 | 1,366 | 479 | 232 |
| DF | | 29 | 5 | 89 | 136 | 2.295 | 10.53 | 6.88 | 75.6 | 376.7 | 14.84 | 521 | 2,593 | 1,410 | 495 | 246 |
| DF | | 30 | 4 | 88 | 147 | 1.716 | 8.42 | 5.15 | 84.4 | 423.3 | 12.38 | 434 | 2,179 | 1,176 | 413 | 207 |
| DF | | 31 | 3 | 88 | 139 | 1.205 | 6.32 | 3.61 | 86.0 | 420.0 | 8.86 | 311 | 1,518 | 842 | 295 | 144 |
| DF | | 32 | 4 | 89 | 150 | 1.508 | 8.42 | 4.90 | 91.4 | 480.0 | 12.77 | 448 | 2,352 | 1,213 | 426 | 223 |
| DF | | 33 | 3 | 86 | 143 | 1.063 | 6.32 | 3.19 | 90.4 | 447.8 | 8.22 | 289 | 1,428 | 781 | 274 | 136 |
| DF | | 34 | 3 | 86 | 141 | 1.002 | 6.32 | 3.01 | 104.2 | 520.0 | 8.92 | 313 | 1,563 | 848 | 297 | 148 |
| DF | | 35 | 3 | 89 | 160 | .945 | 6.32 | 3.15 | 113.5 | 626.0 | 10.20 | 358 | 1,973 | 969 | 340 | 187 |
| DF | | 37 | 1 | 89 | 150 | .282 | 2.11 | .85 | 132.9 | 740.0 | 3.20 | 112 | 626 | 304 | 107 | 59 |
| DF | | 38 | 1 | 82 | 137 | .267 | 2.11 | .80 | 121.4 | 560.0 | 2.77 | 97 | 449 | 263 | 92 | 43 |
| DF | | 39 | 1 | 89 | 165 | .254 | 2.11 | 1.02 | 122.1 | 695.0 | 3.53 | 124 | 705 | 336 | 118 | 67 |
| DF | | Totals | 112 | 87 | 110 | 119.616 | 235.79 | 258.54 | 38.7 | 176.9 | 285.50 | 10,017 | 45,741 | 27,122 | 9,517 | 4,345 |
| Totals | | | 112 | 87 | 110 | 119.616 | 235.79 | 258.54 | 38.7 | 176.9 | 285.50 | 10,017 | 45,741 | 27,122 | 9,517 | 4,345 |

Log Stock Table - MBF

T01S R06W S20 Ty00MC 95.00

Project: WILLYFIN
Acres 95.00

Page 1
Date 6/29/2020
Time 1:08:01PM

| Spp | S T | So Gr rt 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 | 40 | 2,941 | | 2,934 | 67.5 | | | | | 368 | 555 | 857 | 835 | 319 | | |
| DF | | 3M | 30 | 2 | | 2 | .0 | | | | 2 | | | | | | | |
| DF | | 3M | 32 | 22 | | 22 | .5 | | | 22 | | | | | | | | |
| DF | | 3M | 34 | 19 | | 19 | .4 | | | 19 | | | | | | | | |
| DF | | 3M | 35 | 21 | | 21 | .5 | | | 18 | 3 | | | | | | | |
| DF | | 3M | 36 | 11 | | 11 | .3 | | | 11 | | | | | | | | |
| DF | | 3M | 37 | 11 | 10.7 | 9 | .2 | | | 9 | | | | | | | | |
| DF | | 3M | 38 | 17 | | 17 | .4 | | | 17 | | | | | | | | |
| DF | | 3M | 39 | 40 | | 40 | .9 | | | 24 | 17 | | | | | | | |
| DF | | 3M | 40 | 1,108 | | 1,103 | 25.4 | | | 267 | 255 | 560 | 20 | | | | | |
| DF | | 4M | 12 | 3 | | 3 | .1 | | | 3 | | | | | | | | |
| DF | | 4M | 13 | 2 | | 2 | .0 | | | 2 | | | | | | | | |
| DF | | 4M | 14 | 14 | | 14 | .3 | | | 14 | 1 | | | | | | | |
| DF | | 4M | 15 | 7 | | 7 | .2 | | | 7 | | | | | | | | |
| DF | | 4M | 16 | 1 | | 1 | .0 | | | 1 | | | | | | | | |
| DF | | 4M | 17 | 5 | | 5 | .1 | | 2 | 3 | | | | | | | | |
| DF | | 4M | 18 | 5 | | 5 | .1 | | | 5 | | | | | | | | |
| DF | | 4M | 19 | 6 | | 6 | .1 | | | 6 | | | | | | | | |
| DF | | 4M | 20 | 4 | | 4 | .1 | | | 4 | | | | | | | | |
| DF | | 4M | 21 | 8 | | 8 | .2 | | | 8 | | | | | | | | |
| DF | | 4M | 23 | 3 | | 3 | .1 | | | 3 | | | | | | | | |
| DF | | 4M | 24 | 4 | | 4 | .1 | | | 4 | | | | | | | | |
| DF | | 4M | 25 | 12 | | 12 | .3 | | | 9 | 3 | | | | | | | |
| DF | | 4M | 26 | 7 | | 7 | .2 | | | 6 | 2 | | | | | | | |
| DF | | 4M | 27 | 8 | | 8 | .2 | | | 8 | | | | | | | | |
| DF | | 4M | 28 | 11 | | 11 | .3 | | | 11 | | | | | | | | |
| DF | | 4M | 29 | 13 | | 13 | .3 | | | 13 | | | | | | | | |
| DF | | 4M | 30 | 2 | | 2 | .1 | | | 2 | | | | | | | | |
| DF | | 4M | 31 | 12 | | 12 | .3 | | | 12 | | | | | | | | |
| DF | | 4M | 33 | 9 | | 9 | .2 | | | 9 | | | | | | | | |
| DF | | 4M | 34 | 4 | | 4 | .1 | | | 4 | | | | | | | | |
| DF | | 4M | 35 | 6 | | 6 | .1 | | | 6 | | | | | | | | |
| DF | | 4M | 40 | 22 | | 22 | .5 | | | 8 | | 14 | | | | | | |
| DF | | Totals | | 4,360 | | 4,345 | 100.0 | | 2 | 534 | 282 | 574 | 389 | 555 | 857 | 835 | 319 | |
| Total | | All Species | | 4,360 | | 4,345 | 100.0 | | 2 | 534 | 282 | 574 | 389 | 555 | 857 | 835 | 319 | |

| TC PSTATS | | PROJECT STATISTICS | | | | | | | PAGE | 1 | |
|--|------|---------------------------|-------------------|-------------|----------------|-----------------------|----------------------|---------------|---------------|--------------|--|
| | | PROJECT WILLYFIN | | | | | | | DATE | 6/29/2020 | |
| TWP | RGE | SC | TRACT | TYPE | | ACRES | PLOTS | TREES | CuFt | BdFt | |
| 01N | 06 | 20 | 00A1 | 00MC | | 188.00 | 38 | 201 | S | W | |
| 01S | 06W | 20 | 00A2 | 00MC | | | | | | | |
| | | | PLOTS | TREES | TREES PER PLOT | ESTIMATED TOTAL TREES | PERCENT SAMPLE TREES | | | | |
| TOTAL | | | 38 | 201 | 5.3 | | | | | | |
| CRUISE | | | 38 | 201 | 5.3 | 22,139 | .9 | | | | |
| 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 | | 163 | 83.3 | 19.5 | 113 | 39.0 | 172.3 | 34,165 | 33,997 | 7,401 | |
| R ALDER | | 28 | 26.6 | 14.2 | 88 | 7.7 | 29.2 | 3,916 | 3,901 | 868 | |
| WHEMLOCK | | 6 | 4.2 | 16.5 | 122 | 1.5 | 6.2 | 1,389 | 1,389 | 292 | |
| BL MAPLE | | 4 | 3.6 | 14.6 | 66 | 1.1 | 4.2 | 444 | 437 | 108 | |
| TOTAL | | <i>201</i> | <i>117.8</i> | <i>18.2</i> | <i>106</i> | <i>49.7</i> | <i>211.8</i> | <i>39,915</i> | <i>39,724</i> | <i>8,669</i> | |
| CONFIDENCE LIMITS OF THE SAMPLE | | | | | | | | | | | |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR | | | | | | | | | | | |
| CL | 68.1 | COEFF | SAMPLE TREES - BF | | | | # OF TREES REQ. | | INF. POP. | | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | |
| DOUG FIR | | 82.3 | 6.4 | 668 | 714 | 760 | | | | | |
| R ALDER | | 53.4 | 10.3 | 158 | 176 | 194 | | | | | |
| WHEMLOCK | | 91.8 | 40.9 | 309 | 523 | 737 | | | | | |
| BL MAPLE | | 98.3 | 56.1 | 94 | 215 | 336 | | | | | |
| TOTAL | | <i>91.6</i> | <i>6.5</i> | <i>584</i> | <i>624</i> | <i>664</i> | <i>335</i> | <i>84</i> | <i>37</i> | | |
| 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 | | 73.5 | 5.7 | 140 | 149 | 158 | | | | | |
| R ALDER | | 51.6 | 9.9 | 35 | 39 | 43 | | | | | |
| WHEMLOCK | | 82.5 | 36.8 | 67 | 105 | 144 | | | | | |
| BL MAPLE | | 92.1 | 52.6 | 25 | 53 | 81 | | | | | |
| TOTAL | | <i>82.4</i> | <i>5.8</i> | <i>123</i> | <i>131</i> | <i>138</i> | <i>271</i> | <i>68</i> | <i>30</i> | | |
| 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 | | 86.1 | 14.0 | 72 | 83 | 95 | | | | | |
| R ALDER | | 192.1 | 31.1 | 18 | 27 | 35 | | | | | |
| WHEMLOCK | | 583.4 | 94.6 | 0 | 4 | 8 | | | | | |
| BL MAPLE | | 456.1 | 73.9 | 1 | 4 | 6 | | | | | |
| TOTAL | | <i>59.4</i> | <i>9.6</i> | <i>106</i> | <i>118</i> | <i>129</i> | <i>141</i> | <i>35</i> | <i>16</i> | | |
| 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 | | 57.2 | 9.3 | 156 | 172 | 188 | | | | | |
| R ALDER | | 171.9 | 27.9 | 21 | 29 | 37 | | | | | |
| WHEMLOCK | | 521.1 | 84.5 | 1 | 6 | 12 | | | | | |
| BL MAPLE | | 368.9 | 59.8 | 2 | 4 | 7 | | | | | |
| TOTAL | | <i>39.4</i> | <i>6.4</i> | <i>198</i> | <i>212</i> | <i>225</i> | <i>62</i> | <i>16</i> | <i>7</i> | | |
| 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 | | 64.1 | 10.4 | 30,463 | 33,997 | 37,530 | | | | | |
| R ALDER | | 181.1 | 29.4 | 2,756 | 3,901 | 5,046 | | | | | |
| WHEMLOCK | | 491.5 | 79.7 | 283 | 1,389 | 2,496 | | | | | |
| BL MAPLE | | 346.8 | 56.2 | 191 | 437 | 682 | | | | | |

PROJECT STATISTICSPROJECT **WILLYFIN**

DATE 6/29/2020

| TWP | RGE | SC | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt | |
|--------------|------|----|-------|-------|------------------|--------|--------|-----------------|------|-----------|
| 01N | 06 | 20 | 00A1 | 00MC | 188.00 | 38 | 201 | S | W | |
| 01S | 06W | 20 | 00A2 | 00MC | | | | | | |
| CL | 68.1 | | COEFF | | NET BF/ACRE | | | # OF PLOTS REQ. | | INF. POP. |
| SD: | 1.00 | | VAR. | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| TOTAL | | | 52.1 | 8.4 | 36,371 | 39,724 | 43,077 | 108 | 27 | 12 |
| 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 | | | 60.3 | 9.8 | 6,678 | 7,401 | 8,125 | | | |
| R ALDER | | | 178.1 | 28.9 | 617 | 868 | 1,118 | | | |
| WHEMLOCK | | | 503.6 | 81.6 | 54 | 292 | 530 | | | |
| BL MAPLE | | | 348.7 | 56.5 | 47 | 108 | 170 | | | |
| TOTAL | | | 47.8 | 7.7 | 7,998 | 8,669 | 9,341 | 91 | 23 | 10 |

Species, Sort Grade - Board Foot Volumes (Project)

| | | |
|--|---|---|
| T01N R06W S20 Ty00MC 93.00 T01S R06W S20 Ty00MC 95.00 | Project: WILLYFIN Acres 188.00 | Page 1 Date 6/29/2020 Time 1:11:41PM |
|--|---|---|

| S Spp | So T | Gr rt ad | % Net BdFt | Bd. Ft. per Acre Def% Gross Net | | | 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 | | | | | | | |
| RA | | CU | | | | | | | | | | | | | | | 6 | 14 | | 0.00 | 9.5 | |
| RA | | CR | 100 | .4 | 3,916 | 3,901 | 733 | | 64 | 34 | 3 | | 15 | 19 | 5 | 60 | 30 | 9 | 90 | 0.66 | 43.5 | |
| RA Totals | | | 10 | .4 | 3,916 | 3,901 | 733 | | 64 | 34 | 3 | | 15 | 19 | 5 | 60 | 26 | 10 | 74 | 0.63 | 53.0 | |
| DF | | CU | | | | | | | | | | | | | | | 7 | 13 | | 0.00 | 5.9 | |
| DF | | 2M | 69 | .6 | 23,615 | 23,485 | 4,415 | | | 44 | 56 | | 1 | 1 | 1 | 97 | 39 | 16 | 423 | 2.14 | 55.5 | |
| DF | | 3M | 27 | .4 | 9,366 | 9,328 | 1,754 | | | 99 | 1 | | | 0 | 5 | 95 | 39 | 8 | 100 | 0.66 | 93.2 | |
| DF | | 4M | 4 | | 1,184 | 1,184 | 223 | | 1 | 99 | | | 25 | 41 | 23 | 10 | 23 | 6 | 32 | 0.39 | 37.0 | |
| DF Totals | | | 86 | .5 | 34,165 | 33,997 | 6,391 | | 0 | 31 | 31 | 39 | 2 | 2 | 3 | 93 | 35 | 10 | 177 | 1.10 | 191.6 | |
| BM | | CU | | | | | | | | | | | | | | | 7 | 23 | | 0.00 | .3 | |
| BM | | CR | 100 | 1.7 | 444 | 437 | 82 | | 48 | 22 | 30 | | | 48 | | 52 | 30 | 9 | 94 | 0.78 | 4.6 | |
| BM Totals | | | 1 | 1.7 | 444 | 437 | 82 | | 48 | 22 | 30 | | | 48 | | 52 | 29 | 10 | 89 | 0.77 | 4.9 | |
| WH | | 2M | 44 | | 624 | 624 | 117 | | | 39 | 61 | | | | | 100 | 40 | 17 | 464 | 2.13 | 1.3 | |
| WH | | 3M | 44 | | 610 | 610 | 115 | | 100 | | | | | | | 100 | 40 | 9 | 120 | 0.70 | 5.1 | |
| WH | | 4M | 12 | | 156 | 156 | 29 | | 100 | | | | 11 | 29 | 17 | 43 | 28 | 6 | 39 | 0.31 | 4.0 | |
| WH Totals | | | 3 | | 1,389 | 1,389 | 261 | | 55 | 18 | 27 | | 1 | 3 | 2 | 94 | 35 | 9 | 133 | 0.79 | 10.4 | |
| Totals | | | | 0.5 | 39,915 | 39,724 | 7,468 | | 0 | 35 | 30 | 35 | | 3 | 4 | 3 | 90 | 33 | 10 | 153 | 1.01 | 260.0 |

| TC | | PSTNDSUM | | | | | | | | | | | Stand Table Summary | | | Page | 1 |
|----------------------------|---|----------|-----------------|-----------|-----------------|----------------|-------------|--------------|---------------|---------------|---------------|-----------------------|-----------------------|--------|-------------|-----------|-----------|
| | | | | | | | | | | | | | | | Date: | 6/29/2020 | |
| T01N R06W S20 Ty00MC 93.00 | | | | | Project | | | | | WILLYFIN | | | | | Time: | | 1:11:41PM |
| T01S R06W S20 Ty00MC 95.00 | | | | | Acres | | | | | 188.00 | | | | | Grown Year: | | |
| S Spc | T | DBH | Sample Trees | FF 16' | Tot Av Ht | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | Totals | | | |
| | | | | | | | | | Net Cu.Ft. | Net Bd.Ft. | | | | Tons | Cunits | MBF | |
| DF | | 10 | 3 | 86 | 92 | 5.851 | 3.19 | 5.85 | 12.8 | 60.0 | 2.13 | 75 | 351 | 400 | 140 | 66 | |
| DF | | 11 | 5 | 87 | 79 | 7.992 | 5.27 | 7.99 | 14.8 | 60.0 | 3.38 | 119 | 480 | 635 | 223 | 90 | |
| DF | | 12 | 3 | 86 | 93 | 4.064 | 3.19 | 8.13 | 11.1 | 45.0 | 2.57 | 90 | 366 | 483 | 169 | 69 | |
| DF | | 13 | 3 | 85 | 98 | 3.462 | 3.19 | 6.92 | 14.0 | 55.0 | 2.76 | 97 | 381 | 519 | 182 | 72 | |
| DF | | 14 | 6 | 90 | 103 | 5.929 | 6.34 | 11.86 | 18.6 | 83.3 | 6.28 | 220 | 987 | 1,181 | 414 | 186 | |
| DF | | 15 | 4 | 87 | 104 | 3.449 | 4.23 | 6.90 | 22.1 | 91.2 | 4.35 | 153 | 629 | 818 | 287 | 118 | |
| DF | | 16 | 6 | 86 | 113 | 4.539 | 6.34 | 9.82 | 23.9 | 103.8 | 6.70 | 235 | 1,020 | 1,259 | 442 | 192 | |
| DF | | 17 | 7 | 88 | 103 | 4.710 | 7.42 | 9.42 | 28.3 | 116.4 | 7.61 | 267 | 1,097 | 1,430 | 502 | 206 | |
| DF | | 18 | 14 | 87 | 116 | 8.365 | 14.78 | 18.52 | 31.2 | 124.8 | 16.47 | 578 | 2,311 | 3,097 | 1,087 | 434 | |
| DF | | 19 | 10 | 88 | 123 | 5.369 | 10.57 | 13.96 | 33.0 | 139.2 | 13.11 | 460 | 1,942 | 2,465 | 865 | 365 | |
| DF | | 20 | 10 | 88 | 120 | 4.835 | 10.55 | 12.09 | 36.2 | 152.8 | 12.47 | 438 | 1,847 | 2,345 | 823 | 347 | |
| DF | | 21 | 6 | 88 | 124 | 2.635 | 6.34 | 7.02 | 38.2 | 170.0 | 7.64 | 268 | 1,194 | 1,436 | 504 | 224 | |
| DF | | 22 | 10 | 88 | 134 | 3.996 | 10.55 | 11.59 | 42.7 | 200.7 | 14.09 | 494 | 2,325 | 2,648 | 929 | 437 | |
| DF | | 23 | 4 | 88 | 129 | 1.467 | 4.23 | 4.76 | 39.9 | 184.7 | 5.41 | 190 | 880 | 1,017 | 357 | 165 | |
| DF | | 24 | 12 | 88 | 135 | 4.014 | 12.61 | 11.71 | 50.4 | 228.6 | 16.82 | 590 | 2,676 | 3,162 | 1,110 | 503 | |
| DF | | 25 | 4 | 89 | 129 | 1.242 | 4.23 | 3.73 | 52.8 | 241.6 | 5.61 | 197 | 900 | 1,054 | 370 | 169 | |
| DF | | 26 | 5 | 87 | 130 | 1.431 | 5.27 | 4.57 | 53.1 | 246.7 | 6.92 | 243 | 1,128 | 1,301 | 457 | 212 | |
| DF | | 27 | 6 | 89 | 141 | 1.594 | 6.34 | 4.78 | 65.3 | 310.5 | 8.90 | 312 | 1,485 | 1,673 | 587 | 279 | |
| DF | | 28 | 5 | 89 | 133 | 1.244 | 5.32 | 3.73 | 68.3 | 331.3 | 7.27 | 255 | 1,236 | 1,366 | 479 | 232 | |
| DF | | 29 | 6 | 89 | 141 | 1.387 | 6.36 | 4.39 | 72.8 | 360.8 | 9.10 | 319 | 1,583 | 1,711 | 600 | 298 | |
| DF | | 30 | 4 | 88 | 147 | .867 | 4.26 | 2.60 | 84.4 | 423.3 | 6.25 | 219 | 1,101 | 1,176 | 413 | 207 | |
| DF | | 31 | 3 | 88 | 139 | .609 | 3.19 | 1.83 | 86.0 | 420.0 | 4.48 | 157 | 767 | 842 | 295 | 144 | |
| DF | | 32 | 6 | 88 | 145 | 1.135 | 6.34 | 3.60 | 89.2 | 458.2 | 9.14 | 321 | 1,647 | 1,718 | 603 | 310 | |
| DF | | 33 | 3 | 86 | 143 | .537 | 3.19 | 1.61 | 90.4 | 447.8 | 4.16 | 146 | 722 | 781 | 274 | 136 | |
| DF | | 34 | 3 | 86 | 141 | .506 | 3.19 | 1.52 | 104.2 | 520.0 | 4.51 | 158 | 790 | 848 | 297 | 148 | |
| DF | | 35 | 7 | 86 | 150 | 1.101 | 7.36 | 3.62 | 105.5 | 537.8 | 10.88 | 382 | 1,946 | 2,045 | 718 | 366 | |
| DF | | 36 | 1 | 89 | 143 | .147 | 1.04 | .44 | 119.1 | 670.0 | 1.50 | 53 | 296 | 282 | 99 | 56 | |
| DF | | 37 | 1 | 89 | 150 | .142 | 1.06 | .43 | 132.9 | 740.0 | 1.62 | 57 | 316 | 304 | 107 | 59 | |
| DF | | 38 | 2 | 82 | 133 | .267 | 2.11 | .80 | 119.0 | 558.4 | 2.72 | 95 | 448 | 511 | 179 | 84 | |
| DF | | 39 | 1 | 89 | 165 | .128 | 1.06 | .51 | 122.1 | 695.0 | 1.78 | 63 | 357 | 336 | 118 | 67 | |
| DF | | 41 | 1 | 86 | 140 | .114 | 1.04 | .34 | 147.7 | 763.3 | 1.43 | 50 | 260 | 270 | 95 | 49 | |
| DF | | 42 | 2 | 87 | 138 | .216 | 2.08 | .65 | 156.5 | 813.3 | 2.90 | 102 | 528 | 545 | 191 | 99 | |
| DF | | Totals | 163 | 88 | 113 | 83.346 | 172.26 | 185.69 | 39.9 | 183.1 | 210.93 | 7,401 | 33,997 | 39,656 | 13,914 | 6,391 | |
| RA | | 9 | 1 | 91 | 73 | 2.357 | 1.04 | 2.36 | 8.0 | 40.0 | .52 | 19 | 94 | 98 | 36 | 18 | |
| RA | | 11 | 2 | 92 | 82 | 3.156 | 2.08 | 4.73 | 11.1 | 46.7 | 1.45 | 53 | 221 | 272 | 99 | 42 | |
| RA | | 12 | 2 | 94 | 99 | 2.652 | 2.08 | 5.30 | 13.6 | 67.5 | 1.99 | 72 | 358 | 374 | 136 | 67 | |
| RA | | 13 | 4 | 91 | 81 | 4.519 | 4.17 | 5.65 | 18.5 | 90.0 | 2.87 | 104 | 508 | 539 | 196 | 96 | |
| RA | | 14 | 5 | 91 | 84 | 4.871 | 5.21 | 9.74 | 16.5 | 73.0 | 4.41 | 160 | 711 | 829 | 302 | 134 | |
| RA | | 15 | 2 | 92 | 87 | 1.697 | 2.08 | 2.55 | 21.0 | 80.0 | 1.47 | 54 | 204 | 277 | 101 | 38 | |
| RA | | 16 | 3 | 94 | 106 | 2.238 | 3.12 | 3.73 | 27.6 | 124.0 | 2.83 | 103 | 462 | 531 | 193 | 87 | |
| RA | | 17 | 2 | 91 | 78 | 1.321 | 2.08 | 1.98 | 27.9 | 123.3 | 1.52 | 55 | 244 | 286 | 104 | 46 | |
| RA | | 18 | 3 | 91 | 89 | 1.768 | 3.12 | 2.95 | 32.7 | 138.0 | 2.65 | 96 | 407 | 498 | 181 | 76 | |
| RA | | 19 | 2 | 91 | 105 | 1.058 | 2.08 | 2.12 | 35.3 | 157.5 | 2.05 | 75 | 333 | 386 | 140 | 63 | |
| RA | | 20 | 2 | 92 | 111 | .955 | 2.08 | 2.39 | 32.0 | 150.0 | 2.10 | 76 | 358 | 395 | 144 | 67 | |
| RA | | Totals | 28 | 92 | 88 | 26.593 | 29.16 | 43.49 | 19.9 | 89.7 | 23.86 | 868 | 3,901 | 4,486 | 1,631 | 733 | |
| WH | | 13 | 2 | 87 | 110 | 2.260 | 2.08 | 4.52 | 17.4 | 75.0 | 2.51 | 79 | 339 | 472 | 148 | 64 | |
| WH | | 15 | 1 | 89 | 134 | .849 | 1.04 | 2.55 | 18.9 | 90.0 | 1.54 | 48 | 229 | 290 | 91 | 43 | |
| WH | | 19 | 1 | 89 | 143 | .529 | 1.04 | 1.59 | 35.0 | 163.3 | 1.78 | 55 | 259 | 334 | 104 | 49 | |
| WH | | 23 | 1 | 89 | 128 | .361 | 1.04 | 1.08 | 46.6 | 223.3 | 1.61 | 50 | 242 | 303 | 95 | 45 | |
| WH | | 29 | 1 | 93 | 142 | .227 | 1.04 | .68 | 87.1 | 470.0 | 1.90 | 59 | 320 | 357 | 112 | 60 | |
| WH | | Totals | 6 | 88 | 122 | 4.225 | 6.25 | 10.42 | 28.0 | 133.4 | 9.34 | 292 | 1,389 | 1,757 | 549 | 261 | |

| TC PSTNDSUM | | Stand Table Summary | | | | | | | | | | Page | 2 | | | |
|-------------|---|----------------------|-----------------|-----------|----------|----------------|-------------|--------------|---------------|---------------|---------------|-----------------------|-----------------------|-----------|--------|-------|
| | | | | | | | | | | | | Date: | 6/29/2020 | | | |
| | | T01N R06W S20 Ty00MC | | 93.00 | | Project | | WILLYFIN | | | | Time: | | 1:11:41PM | | |
| | | T01S R06W S20 Ty00MC | | 95.00 | | Acres | | 188.00 | | | | Grown Year: | | | | |
| S Spc | T | DBH | Sample Trees | FF 16' | Av Ht | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | Totals | | |
| | | | | | | | | | Net Cu.Ft. | Net Bd.Ft. | | | | Tons | Cunits | MBF |
| BM | | 10 | 1 | 87 | 56 | 1.909 | 1.04 | 1.91 | 9.2 | 40.0 | .47 | 18 | 76 | 88 | 33 | 14 |
| BM | | 16 | 1 | 92 | 78 | .746 | 1.04 | 1.49 | 21.5 | 90.0 | .85 | 32 | 134 | 159 | 60 | 25 |
| BM | | 17 | 1 | 90 | 65 | .661 | 1.04 | .66 | 36.8 | 120.0 | .64 | 24 | 79 | 121 | 46 | 15 |
| BM | | 26 | 1 | 89 | 101 | .282 | 1.04 | .56 | 61.2 | 260.0 | .92 | 35 | 147 | 172 | 65 | 28 |
| BM | | Totals | 4 | 89 | 66 | 3.598 | 4.17 | 4.63 | 23.4 | 94.4 | 2.87 | 108 | 437 | 540 | 204 | 82 |
| Totals | | | 201 | 89 | 106 | 117.762 | 211.84 | 244.22 | 35.5 | 162.7 | 247.01 | 8,669 | 39,724 | 46,438 | 16,298 | 7,468 |

Log Stock Table - MBF

| | |
|----------------------|-------|
| T01N R06W S20 Ty00MC | 93.00 |
| T01S R06W S20 Ty00MC | 95.00 |

Project: WILLYFIN
Acres 188.00

Page 3
Date 6/29/2020
Time 1:11:40PM

| Spp | S T | So Gr rt 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 | 40+ | | | |
| WH | | 4M | 26 | 6 | | 6 | 2.4 | | | 6 | | | | | | | | | | | | |
| WH | | 4M | 32 | 5 | | 5 | 1.9 | | | 5 | | | | | | | | | | | | |
| WH | | 4M | 39 | 13 | | 13 | 4.9 | | | 13 | | | | | | | | | | | | |
| WH | | Totals | | 261 | | 261 | 3.5 | | | 43 | 45 | 56 | 29 | 48 | 40 | | | | | | | |
| Total | | All Species | | 7,504 | | 7,468 | 100.0 | | 2 | 963 | 662 | 978 | 856 | 932 | 1427 | 1111 | 503 | | | | 33 | |

Volume Summary
(Shown in MBF)
Willy-nilly
FG-341-2021-W00552-01
June 2020

UNIT 1: MC (93 ACRES)

| SPECIES | | 2 SAW | 3 SAW | 4 SAW | CR | TOTAL |
|-----------------|------------------|-------|-------|-------|------|-------|
| Douglas-fir | Cruise Volume | 1,482 | 509 | 55 | 0 | 2,046 |
| | Hidden D&B (2%) | (30) | (10) | (1) | (0) | (41) |
| | NET TOTAL | 1,452 | 499 | 54 | 0 | 2,005 |
| | % of Total | 72 | 25 | 3 | 0 | |
| Western Hemlock | Cruise Volume | 117 | 115 | 29 | 0 | 261 |
| | Hidden D&B (2%) | (2) | (2) | (1) | (0) | (5) |
| | NET TOTAL | 115 | 113 | 28 | 0 | 256 |
| | % of Total | 45 | 44 | 11 | 0 | |
| Red Alder | Cruise Volume | 0 | 0 | 0 | 733 | 733 |
| | Hidden D&B (5%) | (0) | (0) | (0) | (37) | (37) |
| | NET TOTAL | 0 | 0 | 0 | 696 | 696 |
| | % of Total | 0 | 0 | 0 | 100 | |
| Big Leaf Maple | Cruise Volume | 0 | 0 | 0 | 82 | 82 |
| | Hidden D&B (5%) | (0) | (0) | (0) | (4) | (4) |
| | NET TOTAL | 0 | 0 | 0 | 78 | 78 |
| | % of Total | 0 | 0 | 0 | 100 | |

UNIT 2: MC (95 ACRES)

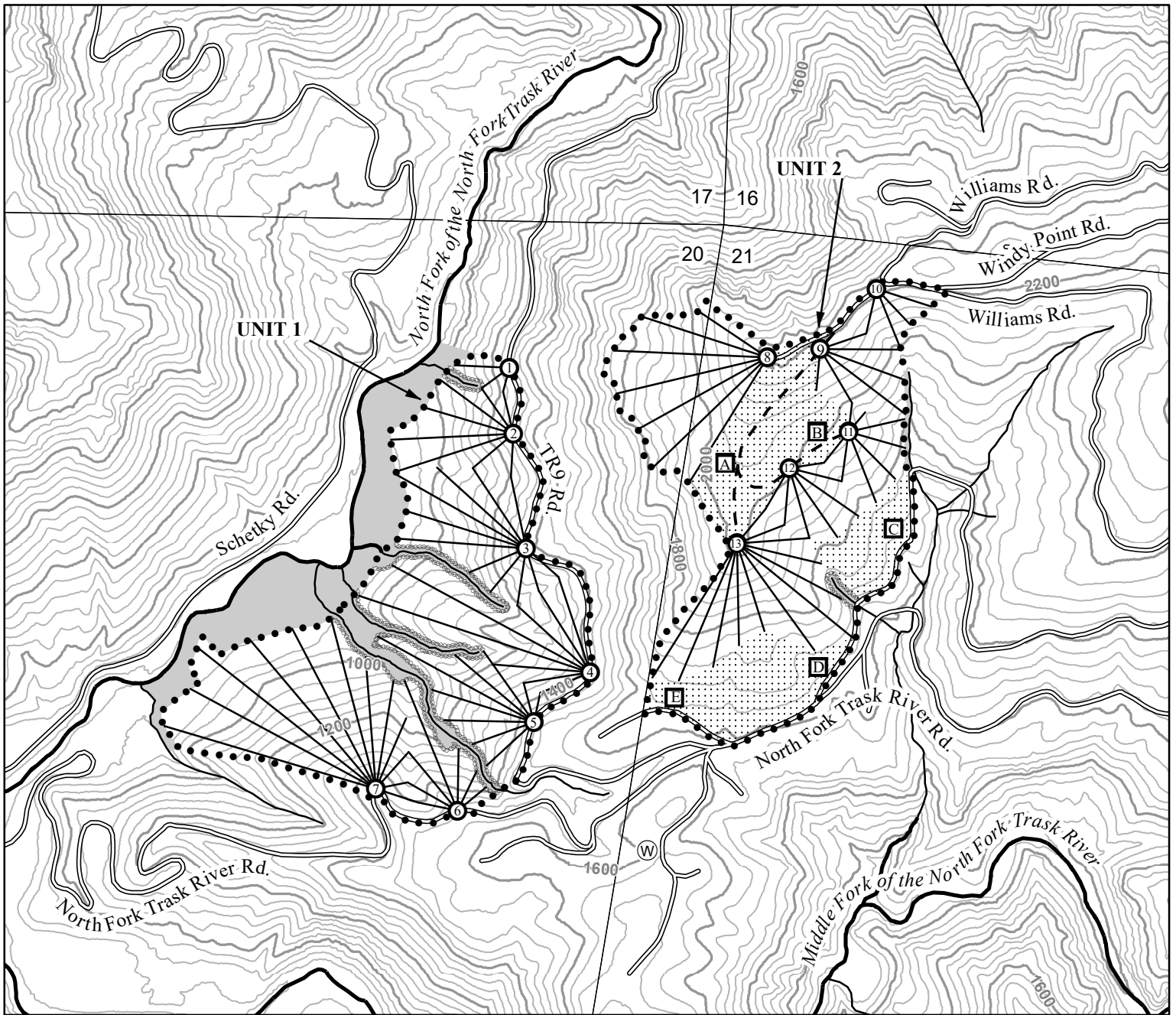
| SPECIES | | 2 SAW | 3 SAW | 4 SAW | CR | TOTAL |
|-------------|------------------|-------|-------|-------|-----|-------|
| Douglas-fir | Cruise Volume | 2,934 | 1,244 | 168 | 0 | 4,346 |
| | Hidden D&B (2%) | (59) | (25) | (3) | (0) | (84) |
| | NET TOTAL | 2,875 | 1,219 | 165 | 0 | 4,262 |
| | % of Total | 67 | 29 | 4 | 0 | |

UNIT 3: RW (<1 ACRES)

| SPECIES | | 2 SAW | 3 SAW | 4 SAW | CR | TOTAL |
|-----------------|------------------|-------|-------|-------|-----|-------|
| Douglas-fir | Cruise Volume | 3 | 1 | 0 | 0 | 4 |
| | Hidden D&B (2%) | (0) | (0) | (0) | (0) | (0) |
| | NET TOTAL | 3 | 1 | 0 | 0 | 4 |
| | % of Total | 75 | 25 | 0 | 0 | |
| Western Hemlock | Cruise Volume | 0 | 1 | 0 | 0 | 1 |
| | Hidden D&B (2%) | (0) | (0) | (0) | (0) | (0) |
| | NET TOTAL | 0 | 1 | 0 | 0 | 1 |
| | % of Total | 0 | 100 | 0 | 0 | |
| Red Alder | Cruise Volume | 0 | 0 | 0 | 1 | 1 |
| | Hidden D&B (5%) | (0) | (0) | (0) | (0) | (0) |
| | NET TOTAL | 0 | 0 | 0 | 1 | 1 |
| | % of Total | 0 | 0 | 0 | 100 | |

SALE TOTAL

| SPECIES | 2 SAW | 3 SAW | 4 SAW | CR | TOTAL |
|-----------------|-------|-------|-------|-----|-------|
| Douglas-fir | 4,330 | 1,719 | 219 | 0 | 6,268 |
| Western Hemlock | 115 | 114 | 28 | 0 | 257 |
| Red Alder | 0 | 0 | 0 | 697 | 697 |
| Big Leaf Maple | 0 | 0 | 0 | 78 | 78 |
| Total | 4,445 | 1,833 | 247 | 775 | 7,300 |



- Legend**
- Timber Sale Boundary
 - ⋯ Stream Buffer Boundary
 - Surfaced Roads
 - - - New Road Construction
 - Type-F Stream
 - Type-N Stream
 - ▒ Stream Buffer
 - Cable Landing
 - Tractor Landing
 - ∧ Cable Yarding Area
 - ▒ Tractor Yarding Area
 - Ⓜ Waste Area
 - Section Lines
 - 40 Foot Contour Band
 - 200 Foot Contour Band

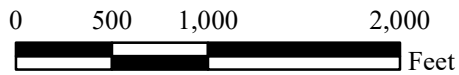
LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00552-01
 WILLY-NILLY
 PORTIONS OF SECTIONS 20 & 21, T1S, R6W, W.M.,
 WASHINGTON COUNTY, OREGON

Forest Grove District GIS
 June, 2020

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

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



APPROXIMATE NET ACRES

| | TRACTOR | CABLE |
|--------------|-----------|------------|
| UNIT 1 | 0 | 93 |
| UNIT 2 | 38 | 57 |
| UNIT 3 | <1 | 0 |
| TOTAL | 38 | 150 |