



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Will C
Sale FG-341-2022-W00523-01

District: Forest Grove

Date: September 27, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,427,024.10	\$0.00	\$1,427,024.10
		Project Work:	(\$265,043.00)
		Advertised Value:	\$1,161,981.10



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District: Forest Grove

Date: September 27, 2021

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	98
Western Hemlock / Fir	19	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	1,364	632	1,996
Western Hemlock / Fir	516	426	942
Total	1,880	1,058	2,938

Comments: Pond Values Used: Local Pond Values, August 2021.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$865.66/\text{MBF} = \$1,150/\text{MBF} - \$284.34/\text{MBF}$

Red alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$395.66/\text{MBF} = \$680/\text{MBF} - \$284.34/\text{MBF}$

Noble fir and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$333.37/\text{MBF} = \$624.45/\text{MBF} - \$291.08/\text{MBF}$

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

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

Other Costs (with Profit & Risk to be added):
None

Other Costs (No Profit & Risk added):
Machine Time to Block/Waterbar Roads, and Skid Trails:
 $20 \text{ hours} \times \$150/\text{hour} = \$3,000$
Machine Time to Pile Landing Slash:
 $20 \text{ hours} \times \$150/\text{hour} = \$3,000$
Equipment Cleaning: 3 pieces $\times \$1,000/\text{Piece} = \$3,000$
Slash Treatment: 23 acres $\times \$200/\text{acre} = \$4,600$
TOTAL Other Costs (No Profit & Risk added) = \$13,600

ROAD MAINTENANCE
(Includes: Move-in, Grading, Rolling and Spot Rocking)
Move-in = \$2,911.43
General Road Maintenance: 11.07 miles $\times \$2,441.61 = \$27,028.62$
TOTAL Road Maintenance: $\$29,940.05 / 2,938 \text{ MBF} = \$10.19/\text{MBF}$



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Logging Conditions

Combination#: 1
Douglas - Fir 33.54%
Western Hemlock / Fir 38.37%

Logging System: Cable: Small Tower <=40
Process: Harvester Head Delimbing
yarding distance: Short (400 ft)
downhill yarding: No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10
bd. ft / load: 4000
cost / mbf: \$184.51
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Small)

Combination#: 2
Douglas - Fir 66.46%
Western Hemlock / Fir 61.63%

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: 14
bd. ft / load: 4000
cost / mbf: \$63.18
machines: Feller Buncher w/ Delimber



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District: Forest Grove

Date: September 27, 2021

Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$265,043.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$13,600.00

Miles of Road

Road Maintenance: \$10.19

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	3.9
Western Hemlock / Fir	\$0.00	2.0	3.9



"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									
\$103.88	\$10.39	\$2.99	\$124.23	\$0.00	\$36.22	\$0.00	\$2.00	\$4.63	\$284.34
Western Hemlock / Fir									
\$109.74	\$10.39	\$2.99	\$124.23	\$0.00	\$37.10	\$0.00	\$2.00	\$4.63	\$291.08

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$841.95	\$557.61	\$0.00
Western Hemlock / Fir	\$0.00	\$624.45	\$333.37	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,996	\$557.61	\$1,112,989.56
Western Hemlock / Fir	942	\$333.37	\$314,034.54

Gross Timber Sale Value

Recovery: \$1,427,024.10

Prepared By: Adrian Torres

Phone: 503-359-7460

TIMBER SALE SUMMARY
Will C
FG-341-2021-W00523-01

1. **Location:** Portions of Sections 20, 21, 27 and 28, T1N, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** This timber sale is 84 net acres of Modified Clearcut with three units. Unit 1 is 48 acres, Unit 2 is 28 acres, and Unit 3 is 8 acres. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 100% Tillamook County (902).
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 September of 2021. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, partially thinned 65-year old Douglas-fir stand with minor amounts of western hemlock, noble fir, grand fir, and red alder.

The following table summarizes the ODF cruise estimates for trees to be harvested.

Sale Unit	Net Acres	Average DBH	Trees/Acre	Net MBF/Acre
Unit 1	48	19	128	41
Unit 2	28	20	123	34
Unit 3	8	19	3	0.8

7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with a mainly southern aspect in Unit 1 and northern aspect in Unit 2 and Unit 3. Unit 1 is 21% cable-based yarding and 79% ground-based yarding. Unit 2 is 64% cable-based yarding and 36% ground-based yarding. Unit 3 is 88% cable-based yarding and 12% ground-based yarding. The average cable corridor length is approximately 400 feet, and the maximum is approximately 900 feet. The average horizontal skid trail length is approximately 250 feet, and the maximum is approximately 500 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel west on Highway 8 to its intersection with Highway 6. Proceed west onto Highway 6 for approximately 14.3 miles to South Fork Wilson River Road and continue for 2.8 miles to C-Line Road. Proceed on C-Line Road for 3.1 miles. To access Unit 1, turn right onto Boundary Road and proceed for 0.8 miles. To access Unit 2 and Unit 3, continue following C-line Road for 0.6 miles to Seven Cedars Road. Turn right on Seven Cedars Road and proceed for 1 mile. To access Unit 2, turn right onto a spur road, and proceed 300 feet. To access Unit 3, continue following Seven Cedars Road for 0.9 miles.

9. Projects:

Project No. 1: Rocked Road and Stockpile Site Construction	\$106,071.81
Project No. 2: Road Improvement	\$138,971.19
Project No. 3: Stockpile Construction	\$20,000.00

Total Credit for all Projects	\$265,043.00
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PROJECT COST SUMMARY SHEET

Timber Sale: Will C
Sale Number: FG-341-2022-W00523-01

PROJECT NO. 1: ROCKED ROAD AND STOCKPILE SITE CONSTRUCTION

	Road Segment	Length	Cost
	E to F	13+60	\$45,836.73
	G to H	6+00	\$15,838.06
	L to M	8+35	\$11,848.74
	Point P	1+00	\$564.19
	Point Q	-----	\$29,274.90
		27+95 stations	
		0.53 miles	
Total Rock =	96 cy	1½" - 0	
	5,152 cy	Jaw-run	
		Move-in =	\$2,709.19
		TOTAL PROJECT COST =	\$106,071.81

PROJECT NO. 2: ROAD IMPROVEMENT

	Road Segment	Length	Cost
	A to B	72+30	\$10,739.82
	C to D	11+30	\$2,162.41
	I to J	8+80	\$1,537.91
	K to L	2+80	\$431.90
	A to N	169+35	\$27,002.40
	N to O	35+60	\$3,702.43
	R to S	76+10	\$59,785.65
	S to A	246+35	\$30,059.19
		622+60 stations	
		11.79 miles	
Total Rock =	5,136 cy	1½" - 0	
		Move-in =	\$3,549.47
		TOTAL PROJECT COST =	\$138,971.19

PROJECT NO. 3: STOCKPILE CONSTRUCTION

	Rock Size	Stockpile Measure	Cost
	1½" - 0	2,000 cy	\$20,000.00
Total Rock =	2,000 cy	1½" - 0	
		Move-in =	\$524.21
		TOTAL PROJECT COST =	\$20,000.00
		TOTAL CREDITS =	\$265,043.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: A to B

Sale Number: FG-341-2022-W00523-01
 Improvement: 72+30 stations
 1.37 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.83	ac @	\$862.40	per acre =	\$715.79
Clean culvert inlet & outlet, scatter waste	3	ea @	\$25.00	per ea =	\$75.00
Improve Turnouts	10	ea @	\$33.00	per ea =	\$330.00
Grade, ditch, & roll	72.30	sta @	\$36.00	per sta =	\$2,602.80

TOTAL IMPROVEMENT COSTS = \$3,723.59

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per LF =	\$600.00
Markers & Stakes					
Culvert markers	5	ea @	\$10.00	per ea =	\$50.00
Half round stakes	4	ea @	\$10.00	per ea =	\$40.00

TOTAL CULVERT COSTS = \$690.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$8.39	\$8.88	\$0.50	24	\$426.48
Subtotal =					24	\$426.48
Surfacing rock						
Spot rock	1½" - 0	\$8.39	\$8.88	\$1.22	300	\$5,547.00
Subtotal =					300	\$5,547.00

Totals	All Rock =	324
	1½" - 0 =	324

TOTAL ROCK COSTS = \$5,973.48

EROSION CONTROL

Grass seed & fertilizer	0.83	ac @	\$425.00	per ac =	\$352.75
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TOTAL EROSION CONTROL COSTS = \$352.75

TOTAL PROJECT COST = \$10,739.82

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: C to D

Sale Number: FG-341-2022-W00523-01
 Improvement: 11+30 stations
0.21 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.13	ac @	\$862.40	per acre =	\$112.11
Improve turnouts	2	ea @	\$33.00	per ea =	\$66.00
Improve landing	1	ea @	\$110.00	per ea =	\$110.00
Grade, ditch, & roll	11.30	sta @	\$36.00	per sta =	\$406.80

TOTAL IMPROVEMENT COSTS = \$694.91

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	1½" - 0	\$8.39	\$9.22	\$1.22	50	\$941.50
Landing	1½" - 0	\$8.39	\$9.22	\$1.22	25	\$470.75
Subtotal =					75	\$1,412.25

Totals	All Rock =	75
	1½" - 0 =	75

TOTAL ROCK COSTS = \$1,412.25

EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$425.00	per ac =	\$55.25
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TOTAL EROSION CONTROL COSTS = \$55.25

TOTAL PROJECT COST = \$2,162.41

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
Road Segment: E to F

Sale Number: FG-341-2022-W00523-01
Construction: 13+60 stations
0.26 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	1.57	ac @	\$862.40	per ac =	\$1,353.98
Remove Large Stumps	10	ea @	\$82.50	per ac =	\$825.00
Balanced road construction	11.15	sta @	\$110.00	per sta =	\$1,226.50
Drift	2.45	sta @	\$180.00	per sta =	\$441.00
Fill Construction					
Drift & compact fill	200	cy @	\$1.40	per cy =	\$280.00
Pump culvert installation	2	day @	\$150.00	per day =	\$300.00
Construct settling ponds	3	ea @	\$25.00	per ea =	\$75.00
Turnouts	2	ea @	\$66.00	per ea =	\$132.00
Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Roadside landing	2	ea @	\$165.00	per ea =	\$330.00
Landing	1	ea @	\$220.00	per ea =	\$220.00
Grade, ditch, & roll	13.60	sta @	\$36.00	per sta =	\$489.60

TOTAL CONSTRUCTION COSTS = \$5,755.58

CULVERTS

Culverts and Bands					
18" Diameter	80	LF @	\$20.00	per LF =	\$1,600.00
24" Diameter	120	LF @	\$29.00	per LF =	\$3,480.00
Markers & Stakes					
Culvert markers	5	ea @	\$10.00	per ea =	\$50.00

TOTAL CULVERT COSTS = \$5,130.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$8.39	\$9.29	\$0.50	72	\$1,308.96
Subgrade reinforcement	Jaw-run	\$6.89	\$9.29	\$0.75	456	\$7,716.69
Subtotal =					528	\$9,025.65
Surfacing rock						
Base rock	Jaw-run	\$6.89	\$9.29	\$1.22	884	\$15,381.60
Junction	Jaw-run	\$6.89	\$9.29	\$1.22	48	\$835.20
Turnout	Jaw-run	\$6.89	\$9.29	\$1.22	58	\$1,009.20
Turnaround	Jaw-run	\$6.89	\$9.29	\$1.22	20	\$348.00
Roadside landing	Jaw-run	\$6.89	\$9.29	\$1.22	190	\$3,306.00
Landing	Jaw-run	\$6.89	\$9.29	\$1.22	95	\$1,653.00
Subtotal =					1,295	\$22,533.00

Totals	All Rock =	1,823
	1½" - 0 =	72
	Jaw-run =	1,751

TOTAL ROCK COSTS = \$31,558.65

EROSION CONTROL

Grass seed & fertilizer	0.79	ac @	\$500.00	per ac =	\$392.50
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TOTAL EROSION CONTROL COSTS = \$3,392.50

TOTAL PROJECT COST = \$45,836.73

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
Road Segment: G to H

Sale Number: FG-341-2022-W00523-01
Construction: 6+00 stations
0.11 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.69	ac @	\$862.40	per ac =	\$595.06
Remove large Stumps	6	ea @	\$82.50	per ac =	\$495.00
Balanced road construction	5.10	sta @	\$110.00	per sta =	\$561.00
Drift	0.90	sta @	\$180.00	per sta =	\$162.00
Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$220.00	per ea =	\$220.00
Grade, ditch, & roll	6.00	sta @	\$36.00	per sta =	\$216.00

TOTAL CONSTRUCTION COSTS = \$2,331.56

CULVERTS

Culverts and Bands

18" Diameter	30	LF @	\$20.00	per LF =	\$600.00
24" Diameter	30	LF @	\$29.00	per LF =	\$870.00

Markers & Stakes

Culvert markers	2	ea @	\$10.00	per ea =	\$20.00
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TOTAL CULVERT COSTS = \$1,490.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$8.39	\$9.47	\$0.50	24	\$440.64
Subgrade reinforcement	Jaw-run	\$6.89	\$9.47	\$0.75	42	\$725.46
Subtotal =					66	\$1,166.10
Surfacing rock						
Base rock	Jaw-run	\$6.89	\$9.47	\$1.22	390	\$6,856.20
Turnaround	Jaw-run	\$6.89	\$9.47	\$1.22	20	\$351.60
Landing	Jaw-run	\$6.89	\$9.47	\$1.22	95	\$1,670.10
Subtotal =					505	\$8,877.90

Totals

All Rock =	571
1½" - 0 =	24
Jaw-run =	547

TOTAL ROCK COSTS = \$10,044.00

EROSION CONTROL

Grass seed & fertilizer	0.35	ac @	\$500.00	per ac =	\$172.50
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TOTAL EROSION CONTROL COSTS = \$1,972.50

TOTAL PROJECT COST = \$15,838.06

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: I to J

Sale Number: FG-341-2022-W00523-01
 Improvement: 8+80 stations
0.17 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.11	ac @	\$862.40	per acre =	\$94.86
Improve turnouts	2	ea @	\$33.00	per ea =	\$66.00
Improve landing	1	ea @	\$110.00	per ea =	\$110.00
Grade, ditch, & roll	8.80	sta @	\$36.00	per sta =	\$316.80

TOTAL IMPROVEMENT COSTS = \$587.66

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	1½" - 0	\$8.39	\$4.29	\$1.22	40	\$556.00
Landing	1½" - 0	\$8.39	\$4.29	\$1.22	25	\$347.50
Subtotal =					65	\$903.50

Totals	All Rock =	65
	1½" - 0 =	65

TOTAL ROCK COSTS = \$903.50

EROSION CONTROL

Grass seed & fertilizer	0.11	ac @	\$425.00	per ac =	\$46.75
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TOTAL EROSION CONTROL COSTS = \$46.75

TOTAL PROJECT COST = \$1,537.91

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: K to L

Sale Number: FG-341-2022-W00523-01
 Improvement: 2+80 stations
0.05 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.04	ac @	\$862.40	per acre =	\$34.50
Grade, ditch, & roll	2.80	sta @	\$36.00	per sta =	\$100.80

TOTAL IMPROVEMENT COSTS = \$135.30

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	1½" - 0	\$8.39	\$4.37	\$1.22	20	\$279.60
				Subtotal =	20	\$279.60

Totals	All Rock =	20
	1½" - 0 =	20

TOTAL ROCK COSTS = \$279.60

EROSION CONTROL

Grass seed & fertilizer	0.04	ac @	\$425.00	per ac =	\$17.00
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TOTAL EROSION CONTROL COSTS = \$17.00

TOTAL PROJECT COST = \$431.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
Road Segment: L to M

Sale Number: FG-341-2022-W00523-01
Construction: 8+35 stations
0.16 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.96	ac @	\$862.40	per ac =	\$827.90
Balanced road construction	8.35	sta @	\$110.00	per sta =	\$918.50
Landing	1	ea @	\$220.00	per ea =	\$220.00
Grade, ditch, & roll	8.35	sta @	\$36.00	per sta =	\$300.60

TOTAL CONSTRUCTION COSTS = \$2,267.00

CULVERTS

Culverts and Bands					
18" Diameter	60	LF @	\$20.00	per LF =	\$1,200.00
Markers & Stakes					
Culvert markers	2	ea @	\$10.00	per ea =	\$20.00

TOTAL CULVERT COSTS = \$1,220.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	Jaw-run	\$6.89	\$4.62	\$1.22	543	\$6,912.39
Landing	Jaw-run	\$6.89	\$4.62	\$1.22	95	\$1,209.35
				Subtotal =	638	\$8,121.74

Totals

All Rock =	638
Jaw-run =	638

TOTAL ROCK COSTS = \$8,121.74

EROSION CONTROL

Grass seed & fertilizer	0.48	ac @	\$500.00	per ac =	\$240.00
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TOTAL EROSION CONTROL COSTS = \$240.00

TOTAL PROJECT COST = \$11,848.74

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: A to L

Sale Number: FG-341-2022-W00523-01
 Improvement: 169+35 stations
3.21 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	1.95	ac @	\$862.40	per acre =	\$1,681.68
Clean culvert inlet & outlet, scatter waste	9	ea @	\$25.00	per ea =	\$225.00
Cutslope layback					
Excavate & load	704	cy @	\$3.60	per cy =	\$2,533.33
Haul	915	cy @	\$1.14	per cy =	\$1,042.89
Shape and compact waste material	915	cy @	\$0.30	per cy =	\$274.44
Improve turnouts	23	ea @	\$33.00	per ea =	\$759.00
Improve roadside landing	1	ea @	\$82.50	per ea =	\$82.50
Grade & roll (outslope)	9.50	sta @	\$32.20	per sta =	\$305.90
Grade, ditch, & roll	159.85	sta @	\$36.00	per sta =	\$5,754.60

TOTAL IMPROVEMENT COSTS = \$12,659.35

CULVERTS

Culverts and Bands					
18" Diameter	120	LF @	\$20.00	per LF =	\$2,400.00
Markers & Stakes					
Culvert markers	17	ea @	\$10.00	per ea =	\$170.00

TOTAL CULVERT COSTS = \$2,570.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$8.39	\$5.56	\$0.50	96	\$1,387.20
Subtotal =					96	\$1,387.20
Surfacing rock						
Spot rock	1½" - 0	\$8.39	\$5.56	\$1.22	600	\$9,102.00
Roadside landing	1½" - 0	\$8.39	\$5.56	\$1.22	30	\$455.10
Subtotal =					630	\$9,557.10

Totals	All Rock =	726
	1½" - 0 =	726

TOTAL ROCK COSTS = \$10,944.30

EROSION CONTROL

Grass seed & fertilizer	1.95	ac @	\$425.00	per ac =	\$828.75
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TOTAL EROSION CONTROL COSTS = \$828.75

TOTAL PROJECT COST = \$27,002.40

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: L to M

Sale Number: FG-341-2022-W00523-01
 Improvement: 35+60 stations
0.67 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.41	ac @	\$862.40	per acre =	\$353.58
Clean culvert inlet & outlet, scatter waste	2	ea @	\$25.00	per ea =	\$50.00
Improve turnouts	5	ea @	\$33.00	per ea =	\$165.00
Grade, ditch, & roll	35.60	sta @	\$36.00	per sta =	\$1,281.60

TOTAL IMPROVEMENT COSTS = \$1,850.18

CULVERTS

Markers & Stakes					
Culvert markers	4	ea @	\$10.00	per ea =	\$40.00

TOTAL CULVERT COSTS = \$40.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	1½" - 0	\$8.39	\$1.31	\$1.22	150	\$1,638.00
				Subtotal =	150	\$1,638.00

Totals	All Rock =	150
	1½" - 0 =	150

TOTAL ROCK COSTS = \$1,638.00

EROSION CONTROL

Grass seed & fertilizer	0.41	ac @	\$425.00	per ac =	\$174.25
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TOTAL EROSION CONTROL COSTS = \$174.25

TOTAL PROJECT COST = \$3,702.43

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Point: P

Sale Number: FG-341-2022-W00523-01
 Construction: 1+00 stations
0.02 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.12	ac @	\$862.40	per ac =	\$103.49
Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Grade, ditch, & roll	1.00	sta @	\$36.00	per sta =	\$36.00

TOTAL CONSTRUCTION COSTS = \$221.99

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Turnaround	Jaw-run	\$6.89	\$2.75	\$1.22	20	\$217.20
				Subtotal =	20	\$217.20

Totals	All Rock =	20
	Jaw-run =	20

TOTAL ROCK COSTS = \$217.20

EROSION CONTROL

Grass seed & fertilizer	0.25	ac @	\$500.00	per ac =	\$125.00
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TOTAL EROSION CONTROL COSTS = \$125.00

TOTAL PROJECT COST = \$564.19

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
Road Point: Q

Sale Number: FG-341-2022-W00523-01
Construction: 60,800 Square Feet
1.40 Acres

PROJECT NO. 1

STOCKPILE SITE CONSTRUCTION

Clearing & grubbing (scatter)	1.40	ac @	\$862.40	per ac =	\$1,207.36
Drift	1.40	ac @	\$4,900.50	per ac =	\$6,840.00
Grade & roll	1.40	ac @	\$980.10	per ac =	\$1,368.00

TOTAL CONSTRUCTION COSTS = \$9,415.36

CULVERTS

Culverts and Bands					
18" Diameter	40	LF @	\$20.00	per LF =	\$800.00
Markers & Stakes					
Culvert markers	1	ea @	\$10.00	per ea =	\$10.00

TOTAL CULVERT COSTS = \$810.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	Jaw-run	\$6.89	\$0.51	\$1.22	2,196	\$18,925.69
				Subtotal =	2,196	\$18,925.69

Totals	All Rock =	2,196
	3" - 0	2,196

TOTAL ROCK COSTS = \$18,925.69

Grass seed & fertilizer	0.25	ac @	\$500.00	per ac =	\$123.85
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TOTAL EROSION CONTROL COSTS = \$123.85

TOTAL PROJECT COST = \$29,274.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: R to S

Sale Number: FG-341-2022-W00523-01
 Improvement: 76+10 stations
1.44 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.88	ac @	\$862.40	per acre =	\$758.91
Grade, ditch, & roll	76.10	sta @	\$36.00	per sta =	\$2,739.60

TOTAL IMPROVEMENT COSTS = \$3,498.51

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	1½" - 0	\$8.39	\$10.67	\$1.22	2,664	\$54,015.78
Junction	1½" - 0	\$8.39	\$10.67	\$1.22	12	\$243.36
Turnout	1½" - 0	\$8.39	\$10.67	\$1.22	100	\$2,028.00
Subtotal =					2,776	\$56,287.14

Totals	All Rock =	2,776
	1½" - 0 =	2,776

TOTAL ROCK COSTS = \$56,287.14

TOTAL PROJECT COST = \$59,785.65

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C
 Road Segment: S to A

Sale Number: FG-341-2022-W00523-01
 Improvement: 246+35 stations
4.67 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	2.83	ac @	\$862.40	per acre =	\$2,440.59
Grade, ditch, & roll	246.35	sta @	\$36.00	per sta =	\$8,868.60

TOTAL IMPROVEMENT COSTS = \$11,309.19

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	1½" - 0	\$8.39	\$9.14	\$1.22	1,000	\$18,750.00
Subtotal =					1,000	\$18,750.00

Totals

All Rock =	1,000
1½" - 0 =	1,000

TOTAL ROCK COSTS = \$18,750.00

TOTAL PROJECT COST = \$30,059.19

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C

Sale Number: FG-341-2022-W00523-01

PROJECT NO. 3 STOCKPILE CONSTRUCTION

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement / Processing Cost \$/cy	Total CY	Rock Cost
Stockpile rock						
Stockpile	1½" - 0	\$8.39	\$0.51	\$1.10	2,000	\$20,000.00
				Subtotal =	2,000	\$20,000.00

Totals	All Rock =	2,000
	1½" - 0 =	2,000

TOTAL PROJECT COST = \$20,000.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Will C

Sale Number: FG-341-2022-W00523-01

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

<u>Equipment</u>	<u>Total</u>
Grader	\$1,079.13
Loader (Med. & Large)	\$471.49
Roller (smooth/grid) & Compactor	\$672.32
Excavator (Large) - Equipment Cleaning	\$2,079.13
Dozer (Large) - Equipment Cleaning	\$2,123.71
Dump Truck (10cy +)	\$178.34
Water Truck (2,500 Gal)	\$178.75
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$6,782.87</u>

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Will C
Sale Number: FG-341-2022-W00523-01
Quarry Name: Seven Cedars

1 1/2" - 0: 5,232 cy (truck measure)
Jaw-run: 5,152 cy (truck measure)
Stockpile (1 1/2"-0): 2,000 cy (stockpile measure)
Total truck yardage: 12,703 cy
Total in place yardage: 10,286 cy

Oversize - Pile: 5%
Swell: 130%
Compaction: 116%

Move-in & Other Base Cost

Quarry development & overburden removal				\$715.00
Equipment cleaning & move in excavator				\$2,044.92
Move in & setup drill				\$620.10
Move in loader				\$903.65
Move in & setup crusher				\$4,947.34
Move in Dump Trucks				\$351.00
Gradation tests	\$71.50 /2,000cy x	3	tests =	\$214.50
Change gradation				\$825.00
Clean up quarry				\$500.00
			Subtotal =	<u>\$11,121.51</u>
			Per CY =	<u>\$0.88/cy</u>

1 1/2"-0 Base Cost

Drill & shoot	<u>\$2.80</u>	/ cy x	<u>6,115</u>	cy =	\$17,120.81
Oversize - Pile	<u>\$0.80</u>	/ cy x	<u>397</u>	cy =	\$317.96
Load crusher	<u>\$0.80</u>	/ cy x	<u>7,552</u>	cy =	\$6,041.20
Crush (1 1/2" - 0)	<u>\$3.60</u>	/ cy x	<u>5,232</u>	cy =	\$18,833.40
Load dump truck	<u>\$0.80</u>	/ cy x	<u>7,552</u>	cy =	\$6,041.20
			Subtotal =		<u>\$56,706.57</u>
			Per CY =		<u>\$7.51/cy</u>

Jaw-run Base Cost

Drill & shoot	<u>\$2.80</u>	/ cy x	<u>4,171</u>	cy =	\$11,680.09
Oversize - Pile	<u>\$0.80</u>	/ cy x	<u>271</u>	cy =	\$216.92
Load crusher	<u>\$0.80</u>	/ cy x	<u>5,152</u>	cy =	\$4,121.40
Crush (Jaw-run)	<u>\$2.10</u>	/ cy x	<u>5,152</u>	cy =	\$10,818.69
Load dump truck	<u>\$0.80</u>	/ cy x	<u>5,152</u>	cy =	\$4,121.40
			Subtotal =		<u>\$30,958.51</u>
			Per CY =		<u>\$6.01/cy</u>
			Total =		<u>\$98,786.58</u>

1 1/2"-0 Base Cost = **\$8.39/cy**
Jaw-run Base Cost = **\$6.89/cy**

CRUISE REPORT
Will C
FG-341-2022-W00523-01

1. LOCATION: Portions of Sections 20, 21, 27 & 28, T1N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 18 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 September 2021 with 34 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 6 chain x 4 chain grid for Unit 1, 5 chain x 5 chain grid for Unit 2, and 5 chain x 2 chain grid for Unit 3. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

219 trees were measured and graded producing a cumulative Sampling Error of 8.9% on the Douglas-fir basal area and 9.8% 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 cruisers Adrian Torres, Kenton Burns, and Mark Savage.

Prepared by: Adrian Torres 09/22/2021
Date

Reviewed by: Mark Savage 09/22/2021
Date

TC PSTATS				PROJECT STATISTICS				PAGE	1				
				PROJECT	WILLC			DATE	9/16/2021				
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt			
T1N	R6	28	00U1	00MC	84.00		34	219	S	W			
T1N	R6W	28	00U2	00MC									
T1N	R6W	28	00U3	00MC									
				TREES	ESTIMATED		PERCENT						
				PER PLOT	TOTAL		SAMPLE						
				TREES	TREES		TREES						
TOTAL				34	219	6.4							
CRUISE				34	219	6.4	9,608	2.3					
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				148	70.5	20.3	103	35.3	159.0	24,488	24,261	6,072	6,072
WHEMLOCK				49	36.3	16.6	90	13.4	54.5	7,533	7,478	1,933	1,933
NOB FIR				21	7.5	24.8	107	5.1	25.2	3,944	3,939	982	982
R ALDER				1	.0	21.0	58	0.0	.0	2	2	1	1
TOTAL				219	114.4	19.6	99	54.0	238.8	35,968	35,679	8,988	8,988
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			52.8	4.3	418	437	456						
WHEMLOCK			77.1	11.0	266	299	332						
NOB FIR			46.2	10.3	600	670	739						
R ALDER													
TOTAL			60.2	4.1	410	427	445	145	36	16			
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			47.0	3.9	104	108	112						
WHEMLOCK			69.1	9.9	70	77	85						
NOB FIR			43.3	9.7	150	166	182						
R ALDER													
TOTAL			54.6	3.7	103	107	111	119	30	13			
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			56.8	9.7	64	70	77						
WHEMLOCK			149.6	25.6	27	36	46						
NOB FIR			185.5	31.8	5	8	10						
R ALDER			583.1	99.9	0	0	0						
TOTAL			62.4	10.7	102	114	127	155	39	17			
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			51.8	8.9	145	159	173						
WHEMLOCK			115.3	19.8	44	55	65						
NOB FIR			160.5	27.5	18	25	32						
R ALDER			583.1	99.9	0	0	0						
TOTAL			45.2	7.7	220	239	257	81	20	9			
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			57.1	9.8	21,885	24,261	26,636						
WHEMLOCK			109.8	18.8	6,071	7,478	8,884						
NOB FIR			156.5	26.8	2,882	3,939	4,995						

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT WILLC				DATE	9/16/2021	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
T1N	R6	28	00U1	00MC	84.00	34	219	S	W	
T1N	R6W	28	00U2	00MC						
T1N	R6W	28	00U3	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
R ALDER			583.1	99.9	0	2	4			
TOTAL			47.1	8.1	32,799	35,679	38,559	89	22	10
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			53.5	9.2	5,515	6,072	6,628			
WHEMLOCK			109.6	18.8	1,570	1,933	2,296			
NOB FIR			159.5	27.3	714	982	1,251			
R ALDER			583.1	99.9	0	1	2			
TOTAL			45.4	7.8	8,289	8,988	9,686	82	21	9

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																			
TT1N RR6W S28 Ty00MC48.00 TT1N RR6W S28 Ty00MC28.00 TT1N RR6W S28 Ty00MC8.00				Project:WILLC Acres84.00												Page1 Date9/16/2021 Time3:44:12PM							
Spp	S T	So rt	Gr ad	%	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
				Net BdFt	Def%	Gross	Net		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	7		0.00	5.5
DF			2M	68	1.1	16,767	16,582	1,393				70	30			1	99	40	14	324	1.90	51.2	
DF			3M	25	.6	6,255	6,219	522			98		2		1	2	97	39	8	109	0.78	56.9	
DF			4M	7	.4	1,466	1,460	123			100			29	26	19	26	24	6	33	0.42	44.1	
DF Totals				68	.9	24,488	24,261	2,038			31	48	21	2	2	2	94	34	10	154	1.13	157.7	
WH			CU															3	6		0.00	2.5	
WH			2M	42	.3	3,193	3,185	268				84	16		3		97	40	14	291	1.69	10.9	
WH			3M	46	1.3	3,496	3,449	290			97	3					100	40	8	105	0.74	32.9	
WH			4M	12		844	844	71			100			20	35	30	15	24	6	35	0.40	23.8	
WH Totals				21	.7	7,533	7,478	628			56	37	7	2	5	3	89	33	8	107	0.83	70.2	
NF			CU															10	17		0.00	.3	
NF			2M	78	.2	3,082	3,076	258				26	74		1		99	40	16	451	2.64	6.8	
NF			3M	18		710	710	60			100						100	40	9	119	0.94	6.0	
NF			4M	4		152	152	13			100			33	26	23	18	23	6	32	0.44	4.7	
NF Totals				11	.1	3,944	3,939	331			22	20	58	1	2	1	96	35	11	222	1.59	17.8	
RA			CR	100		2	2	0			100						100	40	10	150	1.48	.0	
RA Totals				0		2	2	0			100						100	40	10	150	1.48	.0	
Totals					0.8	35,968	35,679	2,997			35	43	22	2	3	2	93	34	9	145	1.08	245.7	

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		9/16/2021	
		TT1N RR6W S28 Ty00MC		48.00		Project		WILLC		Time:		3:44:28PM					
		TT1N RR6W S28 Ty00MC		28.00		Acres		84.00		Grown Year:							
S		Tot				Average Log		Net		Net		Totals					
SpC		FF		Av		Trees/		Net		Tons/		Tons					
T		16'		Ht		Acre		Cu.Ft.		Acre		Cunits					
		DBH		Trees		BA/		Bd.Ft.		Acre		MBF					
DF		10	2	85	53	4.445	2.42	4.44	7.8	35.0	.99	35	156	83	29	13	
DF		11	2	88	86	3.463	2.29	3.46	16.3	70.0	1.60	56	242	135	47	20	
DF		12	1	85	67	1.455	1.14	1.46	17.1	60.0	.71	25	87	60	21	7	
DF		13	1	88	113	.034	.03	.07	17.5	85.0	.03	1	6	3	1	0	
DF		14	3	86	94	2.297	2.46	4.59	16.6	65.2	2.17	76	300	182	64	25	
DF		15	2	88	97	.957	1.17	1.91	19.7	75.8	1.07	38	145	90	32	12	
DF		16	7	87	101	5.033	7.03	10.07	23.9	99.3	6.87	241	999	577	202	84	
DF		17	6	87	104	3.645	5.75	7.29	28.2	115.0	5.86	206	839	492	173	70	
DF		18	10	87	101	5.917	10.46	11.83	31.8	118.9	10.71	376	1,407	900	316	118	
DF		19	7	85	106	3.569	7.03	7.14	36.7	134.6	7.46	262	961	626	220	81	
DF		20	12	86	106	5.904	12.88	12.30	38.8	147.3	13.60	477	1,811	1,143	401	152	
DF		21	16	86	110	7.313	17.59	17.95	38.4	148.1	19.62	688	2,658	1,648	578	223	
DF		22	12	86	112	5.326	14.06	12.82	42.7	165.4	15.61	548	2,120	1,311	460	178	
DF		23	17	87	112	6.878	19.84	18.18	43.5	178.0	22.53	791	3,237	1,893	664	272	
DF		24	7	86	116	2.259	7.10	6.03	48.3	202.1	8.30	291	1,218	697	245	102	
DF		25	10	85	119	3.414	11.64	9.19	53.3	220.7	13.97	490	2,029	1,173	412	170	
DF		26	11	86	118	3.202	11.81	8.62	56.9	232.9	13.99	491	2,008	1,175	412	169	
DF		27	7	86	118	2.047	8.14	5.84	58.4	251.6	9.72	341	1,468	816	286	123	
DF		28	3	80	102	.818	3.50	2.17	58.2	210.3	3.60	126	456	302	106	38	
DF		29	4	82	118	.997	4.57	2.74	68.6	270.0	5.36	188	740	450	158	62	
DF		30	3	85	109	.713	3.50	1.89	73.7	303.8	3.97	139	574	334	117	48	
DF		31	1	90	125	.218	1.14	.65	80.2	390.0	1.50	52	255	126	44	21	
DF		32	2	82	118	.409	2.29	1.23	77.6	325.0	2.72	95	399	228	80	34	
DF		35	1	88	82	.171	1.14	.34	106.4	405.0	1.04	36	139	87	31	12	
DF		36	1	81	111	.004	.03	.01	135.3	520.0	.03	1	5	3	1	0	
DF		Totals	148	86	103	70.490	159.00	152.24	39.9	159.4	173.04	6,072	24,261	14,535	5,100	2,038	
WH		11	3	89	76	5.195	3.43	6.93	12.1	52.5	2.69	84	364	226	71	31	
WH		12	3	87	80	4.454	3.50	7.36	13.4	54.0	3.15	98	397	264	83	33	
WH		13	2	88	98	2.480	2.29	4.96	16.2	67.5	2.57	80	335	216	67	28	
WH		14	2	87	86	2.138	2.29	4.28	17.7	65.0	2.42	76	278	203	63	23	
WH		15	4	87	84	3.838	4.71	6.74	22.5	86.6	4.85	152	584	407	127	49	
WH		16	3	86	92	2.505	3.50	5.01	24.8	101.4	3.98	124	508	334	105	43	
WH		17	5	88	104	3.625	5.71	7.25	30.3	121.0	7.04	220	877	591	185	74	
WH		18	1	81	90	.686	1.21	1.37	30.3	105.0	1.33	42	144	112	35	12	
WH		19	6	87	100	3.553	7.00	8.27	33.4	130.7	8.84	276	1,081	743	232	91	
WH		20	4	89	107	2.095	4.57	4.19	45.1	188.8	6.05	189	791	508	159	66	
WH		21	5	79	91	2.405	5.78	4.33	44.4	137.9	6.16	193	598	517	162	50	
WH		22	4	85	94	1.784	4.71	3.57	47.9	167.5	5.47	171	598	459	143	50	
WH		23	1	92	97	.396	1.14	.79	56.3	230.0	1.43	45	182	120	37	15	
WH		24	1	82	76	.386	1.21	.77	49.7	130.0	1.23	38	100	103	32	8	
WH		28	2	84	106	.535	2.29	1.07	85.1	350.0	2.91	91	374	244	76	31	
WH		29	1	92	115	.249	1.14	.75	69.9	343.3	1.67	52	257	140	44	22	
WH		33	1	81	102	.005	.03	.01	120.4	455.0	.04	1	5	3	1	0	
WH		34	1	81	105	.005	.03	.01	126.2	510.0	.04	1	5	3	1	0	
WH		Totals	49	87	90	36.334	54.54	67.67	28.6	110.5	61.86	1,933	7,478	5,196	1,624	628	
NF		15	1	84	81	.988	1.21	1.98	17.9	55.0	.85	35	109	71	30	9	
NF		16	1	85	99	.868	1.21	1.74	23.5	95.0	.98	41	165	82	34	14	
NF		20	1	83	104	.556	1.21	1.11	39.5	125.0	1.05	44	139	88	37	12	
NF		22	2	85	111	.918	2.42	2.30	41.7	160.0	2.30	96	367	193	80	31	
NF		23	1	84	117	.420	1.21	1.26	39.9	166.7	1.21	50	210	101	42	18	
NF		24	1	91	110	.364	1.14	.73	64.8	290.0	1.13	47	211	95	40	18	
NF		26	2	85	127	.658	2.42	1.97	53.2	223.3	2.52	105	441	212	88	37	

TC	PSTNDSUM										Stand Table Summary						Page 2	
													Date:		9/16/2021			
TT1N RR6W S28 Ty00MC48.00 TT1N RR6W S28 Ty00MC28.00 TT1N RR6W S28 Ty00MC8.00					Project		WILLC				Time:		3:44:28PM					
					Acres		84.00				Grown Year:							
S Spc	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net	T o t a l s					
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre					Cu.Ft. Acre	Bd.Ft. Acre	Tons
NF		27	1	88	121	.287	1.14	.57	76.7	360.0	1.06	44	207	89	37	17		
NF		28	3	86	116	.834	3.57	1.94	75.8	323.7	3.52	147	627	296	123	53		
NF		29	1	83	104	.264	1.21	.53	82.0	335.0	1.04	43	177	87	36	15		
NF		30	1	82	105	.247	1.21	.49	88.8	325.0	1.05	44	161	88	37	13		
NF		31	1	79	122	.231	1.21	.69	71.7	276.7	1.19	50	192	100	42	16		
NF		33	1	82	98	.204	1.21	.41	106.5	395.0	1.04	43	161	88	37	14		
NF		35	3	82	115	.544	3.64	1.45	102.5	426.3	3.57	149	619	300	125	52		
NF		37	1	79	97	.162	1.21	.32	134.4	475.0	1.05	44	154	88	37	13		
NF		Totals	21	84	107	7.546	25.25	17.49	56.1	225.2	23.57	982	3,939	1,980	825	331		
RA		21	1	84	58	.013	.03	.01	59.0	150.0	.02	1	2	2	1	0		
RA		Totals	1	84	58	.013	.03	.01	59.0	150.0	.02	1	2	2	1	0		
Totals			219	86	99	114.383	238.81	237.41	37.9	150.3	258.49	8,988	35,679	21,713	7,550	2,997		

TC		PLOGSTVB		Log Stock Table - MBF															
TT1N RR6W S28 Ty00MC		48.00		Project:		WILLC		Page		1		Date		9/16/2021		Time		3:44:06PM	
TT1N RR6W S28 Ty00MC		28.00		Acres		84.00													
TT1N RR6W S28 Ty00MC		8.00																	
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	32		9		9	.4					9						
DF		2M	40		1,400	1.1	1,384	67.9					359	449	507	69			
DF		3M	28		2		2	.1				2							
DF		3M	30		3		3	.2				3							
DF		3M	33		5		5	.2				5							
DF		3M	34		2		2	.1				2							
DF		3M	35		2		2	.1				2							
DF		3M	36		3		3	.1				3							
DF		3M	37		4		4	.2				4							
DF		3M	38		2		2	.1				2							
DF		3M	39		5		5	.2				5							
DF		3M	40		499		496	24.3			83	176	226				11		
DF		4M	12		3		3	.1				3							
DF		4M	13		6		6	.3				6	0						
DF		4M	14		4		4	.2				4							
DF		4M	15		4		4	.2				4							
DF		4M	16		2		2	.1				1	1						
DF		4M	17		1		1	.1				1							
DF		4M	18		9		9	.5				9							
DF		4M	19		2		2	.1				2							
DF		4M	20		3		3	.2				3							
DF		4M	21		1		1	.0				1							
DF		4M	22		2		2	.1				2	1						
DF		4M	23		3		3	.2				3							
DF		4M	24		3		3	.2				3							
DF		4M	25		3		3	.1				3							
DF		4M	26		1		1	.0				1							
DF		4M	27		3		3	.1				3							
DF		4M	28		4		4	.2				4	1						
DF		4M	29		10		10	.5				10							
DF		4M	30		2	23.8	2	.1				2							
DF		4M	31		3		3	.2				3							
DF		4M	32		9		9	.4				9							
DF		4M	33		2		2	.1				2							
DF		4M	34		6		6	.3				6							
DF		4M	35		3		3	.1				3							
DF		4M	36		8		8	.4				8							

TC		PLOGSTVB		Log Stock Table - MBF																	
TT1N RR6W S28 Ty00MC48.00 TT1N RR6W S28 Ty00MC28.00 TT1N RR6W S28 Ty00MC8.00				Project: WILLC												Page2					
				Acres84.00												Date9/16/2021					
																Time3:44:06PM					
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	37	3		3	.2			3											
DF		4M	38	7		7	.4			7											
DF		4M	39	2		2	.1			2											
DF		4M	40	10		10	.5			7	3										
DF		Totals		2,057		2,038	68.0			225	180	229	368	449	507	80					
WH		2M	30	8		8	1.3						8								
WH		2M	40	260		259	41.3				98		92	53	17						
WH		3M	37	11		11	1.7			11											
WH		3M	38	3		3	.4			3											
WH		3M	39	11	12.1	9	1.5			9											
WH		3M	40	269		267	42.5			31	122	105	9								
WH		4M	15	7		7	1.1			7											
WH		4M	16	2		2	.3			2											
WH		4M	17	2		2	.3			2											
WH		4M	20	3		3	.6			3											
WH		4M	21	5		5	.8			5											
WH		4M	22	4		4	.6			4											
WH		4M	23	1		1	.2			1											
WH		4M	24	1		1	.2			1											
WH		4M	25	10		10	1.7			10											
WH		4M	28	2		2	.3			2											
WH		4M	30	2		2	.3			2											
WH		4M	31	4		4	.6			4											
WH		4M	32	3		3	.5			3											
WH		4M	33	3		3	.5			3											
WH		4M	34	10		10	1.6			10											
WH		4M	40	11		11	1.7				11										
WH		Totals		633		628	21.0			114	122	116	106	100	53	17					
NF		2M	29	3		3	.9				3										
NF		2M	40	256		255	77.2				26	39	112	79							
NF		3M	38	1		1	.5			1											
NF		3M	40	58		58	17.6			3	34	21									
NF		4M	13	1		1	.4			1	0										
NF		4M	16	2		2	.5			2											
NF		4M	17	1		1	.2			1											

TC		PLOGSTVB		Log Stock Table - MBF															
TT1N RR6W S28 Ty00MC48.00 TT1N RR6W S28 Ty00MC28.00 TT1N RR6W S28 Ty00MC8.00				Project:		WILLC										Page		3	
				Acres		84.00										Date		9/16/2021	
																Time		3:44:06PM	
S T	S pp	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+
NF		4M	19	1		1	.2			1									
NF		4M	21	1		1	.2			1									
NF		4M	22	1		1	.3			1									
NF		4M	23	1		1	.3			1									
NF		4M	28	1		1	.3			1									
NF		4M	31	3		3	.9			3									
NF		4M	37	2		2	.7			2									
NF		Totals		331		331	11.0			15	37	21	29	39	112	79			
RA		CR	40	0		0	100.0					0							
RA		Totals		0		0	.0					0							
Total		All Species		3,021		2,997	100.0			354	339	366	503	587	672	176			

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	WILLC			DATE	9/16/2021		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T1N	R6	28	00U1	00MC		48.00	20	129	S	W	
				TREES		ESTIMATED	PERCENT				
				PER PLOT		TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES				
TOTAL			20	129	6.4						
CRUISE			20	129	6.4	6,155	2.1				
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			90	77.3	20.7	110	39.6	180.0	30,322	30,083	7,187
WHEMLOCK			36	49.4	16.4	94	17.8	72.0	10,711	10,694	2,632
NOB FIR			3	1.6	26.2	120	1.2	6.0	1,218	1,218	256
TOTAL			129	128.2	19.2	104	58.9	258.0	42,250	41,995	10,076
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			49.1	5.2	466	492	517				
WHEMLOCK			70.1	11.7	260	294	329				
NOB FIR			30.2	20.9	617	780	943				
TOTAL			56.9	5.0	421	443	466	129	32	14	
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			45.1	4.7	111	116	122				
WHEMLOCK			61.8	10.3	65	72	80				
NOB FIR			24.2	16.8	136	163	191				
TOTAL			51.7	4.5	100	105	110	107	27	12	
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			40.4	9.3	70	77	84				
WHEMLOCK			125.3	28.7	35	49	64				
NOB FIR			246.9	56.6	1	2	3				
TOTAL			54.3	12.4	112	128	144	124	31	14	
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			35.0	8.0	166	180	194				
WHEMLOCK			89.4	20.5	57	72	87				
NOB FIR			244.2	56.0	3	6	9				
TOTAL			25.9	5.9	243	258	273	28	7	3	
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			37.8	8.7	27,478	30,083	32,687				
WHEMLOCK			81.0	18.6	8,708	10,694	12,680				
NOB FIR			247.0	56.6	528	1,218	1,908				
TOTAL			24.4	5.6	39,648	41,995	44,341	25	6	3	
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			36.0	8.3	6,593	7,187	7,781				
WHEMLOCK			82.9	19.0	2,132	2,632	3,133				

TC PSTATS				<u>PROJECT STATISTICS</u>				PAGE	2	
				PROJECT		WILLC		DATE	9/16/2021	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T1N	R6	28	00U1	00MC		48.00	20	129	S	W
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
NOB FIR			245.6	56.3	112	256	401			
TOTAL			23.9	5.5	9,525	10,076	10,627	24	6	3

TC		PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																			
TT1N RR6W S28 Ty00MC48.00						Project: WILLC										Page 1					
						Acres 48.00										Date 9/16/2021					
																Time 3:38:48PM					
S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
			Def%	Gross	Net	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		2M	69	.9	21,114	20,926	1,004			64	36				100	40	15	338	1.87	61.9	
DF		3M	25	.7	7,690	7,639	367			97		3			1	99	40	9	111	0.77	68.7
DF		4M	6		1,517	1,517	73			100			30	20	11	40	23	6	33	0.43	46.4
DF Totals			72	.8	30,322	30,083	1,444			30	45	26	1	1	1	97	35	10	170	1.15	177.1
WH		CU														3	6			0.00	4.4
WH		2M	45		4,846	4,846	233				82	18		4		96	39	14	304	1.65	15.9
WH		3M	43	.4	4,686	4,670	224			96	4					100	40	8	102	0.71	45.7
WH		4M	12		1,178	1,178	57			100			20	26	35	19	25	6	38	0.40	31.1
WH Totals			25	.2	10,711	10,694	513			53	39	8	2	5	4	89	33	8	110	0.82	97.1
NF		CU														10	17			0.00	.5
NF		2M	86		1,058	1,058	51				13	87				100	40	17	510	2.43	2.1
NF		3M	12		137	137	7			100						100	40	9	120	1.01	1.1
NF		4M	2		23	23	1			100				100			28	7	50	0.67	.5
NF Totals			3		1,218	1,218	58			13	11	76		2		98	35	14	291	1.75	4.2
Totals				0.6	42,250	41,995	2,016			35	42	23	2	2	2	95	35	10	151	1.04	278.3

TC		PSTNDSUM		Stand Table Summary									Page		1	
													Date:		9/16/2021	
TT1N RR6W S28 Ty00MC 48.00				Project					WILLC				Time:		4:03:51PM	
				Acres					48.00				Grown Year:			
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net Bd.Ft. Acre	T o t a l s			
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre		Cu.Ft. Acre	Tons	Cunits	MBF
DF		11	2	88	86	6.061	4.00	6.06	16.3	70.0	2.81	99	424	135	47	20
DF		12	1	85	67	2.546	2.00	2.55	17.1	60.0	1.24	44	153	60	21	7
DF		15	1	88	97	1.630	2.00	3.26	19.6	75.0	1.82	64	244	87	31	12
DF		16	4	88	100	5.730	8.00	11.46	24.0	98.8	7.83	275	1,132	376	132	54
DF		17	5	87	104	6.344	10.00	12.69	28.2	115.0	10.19	358	1,459	489	172	70
DF		18	7	88	109	7.922	14.00	15.84	33.6	131.4	15.16	532	2,082	727	255	100
DF		19	4	87	112	4.063	8.00	8.13	37.9	146.3	8.77	308	1,188	421	148	57
DF		20	7	88	114	6.417	14.00	14.67	38.0	151.2	15.89	557	2,218	763	268	106
DF		21	9	88	117	7.484	18.00	20.79	35.8	150.0	21.19	743	3,118	1,017	357	150
DF		22	7	88	119	5.303	14.00	14.39	40.0	167.9	16.41	576	2,417	788	276	116
DF		23	11	88	115	7.625	22.00	20.80	43.0	183.3	25.49	894	3,813	1,224	429	183
DF		24	3	87	120	1.910	6.00	5.09	50.1	218.8	7.27	255	1,114	349	123	53
DF		25	7	86	123	4.107	14.00	11.73	51.9	222.0	17.37	609	2,605	834	293	125
DF		26	5	87	126	2.712	10.00	8.14	54.1	234.7	12.54	440	1,909	602	211	92
DF		27	5	89	125	2.515	10.00	7.55	59.3	272.7	12.75	447	2,057	612	215	99
DF		28	2	81	117	.935	4.00	2.81	57.6	233.3	4.61	162	655	221	78	31
DF		29	4	82	118	1.744	8.00	4.80	68.6	270.0	9.38	329	1,295	450	158	62
DF		30	2	88	121	.815	4.00	2.44	70.7	331.7	4.93	173	811	237	83	39
DF		31	1	90	125	.382	2.00	1.14	80.2	390.0	2.62	92	446	126	44	21
DF		32	2	82	118	.716	4.00	2.15	77.6	325.0	4.75	167	698	228	80	34
DF		35	1	88	82	.299	2.00	.60	106.4	405.0	1.82	64	242	87	31	12
DF		Totals	90	87	110	77.261	180.00	177.08	40.6	169.9	204.83	7,187	30,083	9,832	3,450	1,444
WH		11	3	89	76	9.092	6.00	12.12	12.1	52.5	4.71	147	636	226	71	31
WH		12	2	88	91	5.093	4.00	10.19	12.5	55.0	4.07	127	560	195	61	27
WH		13	2	88	98	4.340	4.00	8.68	16.2	67.5	4.50	141	586	216	67	28
WH		14	2	87	86	3.742	4.00	7.48	17.7	65.0	4.23	132	486	203	63	23
WH		15	2	90	84	3.259	4.00	4.89	26.3	110.0	4.11	128	538	197	62	26
WH		16	2	87	98	2.865	4.00	5.73	25.6	107.5	4.70	147	616	226	71	30
WH		17	5	88	104	6.344	10.00	12.69	30.3	121.0	12.32	385	1,535	591	185	74
WH		19	4	91	111	4.063	8.00	10.16	34.0	148.0	11.07	346	1,503	531	166	72
WH		20	4	89	107	3.667	8.00	7.33	45.1	188.8	10.58	331	1,384	508	159	66
WH		21	4	78	89	3.326	8.00	5.82	44.6	134.3	8.30	259	782	399	125	38
WH		22	2	88	106	1.515	4.00	3.03	53.0	212.5	5.14	160	644	247	77	31
WH		23	1	92	97	.693	2.00	1.39	56.3	230.0	2.50	78	319	120	37	15
WH		28	2	84	106	.935	4.00	1.87	85.1	350.0	5.09	159	655	244	76	31
WH		29	1	92	115	.436	2.00	1.31	69.9	343.3	2.93	91	449	140	44	22
WH		Totals	36	88	94	49.370	72.00	92.69	28.4	115.4	84.24	2,632	10,694	4,043	1,264	513
NF		24	1	91	110	.637	2.00	1.27	64.8	290.0	1.98	83	369	95	40	18
NF		27	1	88	121	.503	2.00	1.01	76.7	360.0	1.85	77	362	89	37	17
NF		28	1	91	132	.468	2.00	1.40	69.0	346.7	2.32	97	486	111	46	23
NF		Totals	3	90	120	1.607	6.00	3.68	69.6	330.7	6.16	256	1,218	295	123	58
Totals			129	88	104	128.239	258.00	273.45	36.8	153.6	295.23	10,076	41,995	14,171	4,836	2,016

TC		PLOGSTVB		Log Stock Table - MBF																		
TT1N RR6W S28 Ty00MC			48.00		Project:		WILLC												Page		1	
																			Date		9/16/2021	
																			Time		3:38:42PM	
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	2M	40	1,013		1,004	69.6					225	345	365	69								
DF	3M	33	3		3	.2			3													
DF	3M	37	4		4	.3			4													
DF	3M	39	3		3	.2			3													
DF	3M	40	359		357	24.7			66	129	151				11							
DF	4M	12	3		3	.2			3													
DF	4M	13	4		4	.3			3	0												
DF	4M	14	4		4	.3			4													
DF	4M	15	4		4	.3			4													
DF	4M	16	1		1	.1			1	1												
DF	4M	17	1		1	.1			1													
DF	4M	18	1		1	.0			1													
DF	4M	19	1		1	.1			1													
DF	4M	20	3		3	.2			3													
DF	4M	21	1		1	.1			1													
DF	4M	22	2		2	.1			1	1												
DF	4M	23	1		1	.1			1													
DF	4M	24	2		2	.2			2													
DF	4M	25	3		3	.2			3													
DF	4M	26	1		1	.1			1													
DF	4M	28	3		3	.2			2	1												
DF	4M	29	2		2	.2			2													
DF	4M	31	2		2	.1			2													
DF	4M	32	3		3	.2			3													
DF	4M	35	3		3	.2			3													
DF	4M	36	8		8	.5			8													
DF	4M	37	3		3	.2			3													
DF	4M	38	7		7	.5			7													
DF	4M	40	10		10	.7			7		3											
DF	Totals		1,455		1,444	71.6			144	131	154	225	345	365	80							
WH	2M	30	8		8	1.6						8										
WH	2M	40	224		224	43.7					63	92	53	16								
WH	3M	37	11		11	2.1			11													
WH	3M	39	3		3	.6			3													
WH	3M	40	211		210	41.0			31	103	68	9										
WH	4M	15	7		7	1.4			7													

TC		PLOGSTVB		Log Stock Table - MBF															
TT1N RR6W S28 Ty00MC 48.00				Project: WILLC Acres 48.00		Page 2 Date 9/16/2021 Time 3:38:42PM													
S T Spp	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	16	2		2	.3			2										
WH	4M	20	2		2	.5			2										
WH	4M	22	1		1	.2			1										
WH	4M	24	1		1	.2			1										
WH	4M	25	10		10	2.0			10										
WH	4M	30	2		2	.4			2										
WH	4M	31	2		2	.5			2										
WH	4M	32	3		3	.7			3										
WH	4M	33	3		3	.7			3										
WH	4M	34	10		10	2.0			10										
WH	4M	40	11		11	2.1				11									
WH	Totals		514		513	25.5			91	103	79	72	100	53	16				
NF	2M	40	51		51	86.9							7	29	16				
	3M	40	7		7	11.2			7										
	4M	28	1		1	1.9			1										
NF	Totals		58		58	2.9			1	7			7	29	16				
Total	All Species		2,028		2,016	100.0			236	240	232	298	452	447	112				

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	WILLC			DATE	9/16/2021		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
T1N	R6	28	00U2	00MC	28.00		11	75	S	W	
				TREES	ESTIMATED		PERCENT				
				PER PLOT	TOTAL		SAMPLE				
					TREES		TREES				
TOTAL			11	75	6.8						
CRUISE			11	75	6.8		3,432		2.2		
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			46	78.4	19.8	92	37.6	167.3	21,298	21,024	5,850
NOB FIR			18	19.9	24.6	106	13.2	65.5	9,745	9,728	2,506
WHEMLOCK			11	24.3	17.4	79	9.6	40.0	4,208	4,070	1,279
TOTAL			75	122.6	20.2	91	60.7	272.7	35,251	34,822	9,635
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			47.1	6.9	320	343	367				
NOB FIR			49.5	12.0	573	651	729				
WHEMLOCK			37.1	11.7	172	195	217				
TOTAL			64.0	7.4	366	395	425	163	41	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			41.0	6.0	90	96	102				
NOB FIR			46.2	11.2	148	166	185				
WHEMLOCK			41.1	13.0	55	63	71				
TOTAL			55.5	6.4	101	108	115	123	31	14	
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			55.2	17.5	65	78	92				
NOB FIR			90.7	28.7	14	20	26				
WHEMLOCK			182.6	57.7	10	24	38				
TOTAL			50.0	15.8	103	123	142	110	27	12	
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			50.0	15.8	141	167	194				
NOB FIR			68.4	21.6	51	65	80				
WHEMLOCK			154.9	48.9	20	40	60				
TOTAL			38.7	12.2	239	273	306	66	16	7	
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			61.9	19.5	16,915	21,024	25,133				
NOB FIR			69.5	22.0	7,591	9,728	11,865				
WHEMLOCK			155.9	49.2	2,066	4,070	6,074				
TOTAL			50.5	15.9	29,271	34,822	40,373	112	28	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			54.3	17.1	4,847	5,850	6,853				
NOB FIR			69.4	21.9	1,957	2,506	3,056				

TC PSTATS				<u>PROJECT STATISTICS</u>				PAGE	2	
				PROJECT WILLC				DATE	9/16/2021	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
T1N	R6	28	00U2	00MC	28.00		11	75	S	W
CL	68.1		COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK			151.5	47.9	667	1,279	1,891			
TOTAL			44.0	13.9	8,295	9,635	10,976	85	21	9

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT1N RR6W S28 Ty00MC28.00				Project:		WILLC												Page		1	
				Acres		28.00												Date		9/16/2021	
																		Time		7:15:16AM	
Spp	S T	So rt	Gr 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														8	7		0.00	16.4
DF			2M	65	1.7	14,020	13,785	386			85	15			2	98	40	14	293	1.98	47.1
DF			3M	26	.4	5,494	5,473	153		100				3	3	93	39	8	105	0.81	52.3
DF			4M	9	1.0	1,784	1,765	49		100			28	36	32	5	25	6	34	0.40	52.5
DF Totals				60	1.3	21,298	21,024	589		34	56	10	2	4	5	89	32	9	125	1.10	168.2
NF			2M	76	.2	7,432	7,415	208			29	71		1		99	39	16	439	2.68	16.9
NF			3M	19		1,896	1,896	53		100						100	40	9	119	0.93	15.9
NF			4M	5		417	417	12		100			36	19	25	20	22	6	31	0.42	13.3
NF Totals				28	.2	9,745	9,728	272		24	22	54	2	2	1	95	35	11	211	1.57	46.2
WH			2M	30	2.0	1,247	1,221	34			100					100	40	13	225	1.84	5.4
WH			3M	57	4.6	2,450	2,337	65		100						100	40	9	114	0.88	20.4
WH			4M	13		512	512	14		100			19	70	11		22	6	28	0.41	18.2
WH Totals				12	3.3	4,208	4,070	114		70	30		2	9	1	87	32	8	92	0.90	44.0
Totals					1.2	35,251	34,822	975		36	43	21	2	4	4	90	32	9	135	1.16	258.4

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		9/16/2021	
TT1N RR6W S28 Ty00MC					28.00					Project					WILLC					Time:		7:15:32AM			
										Acres					28.00					Grown Year:					
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s												
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF									
DF		10	2	85	53	13.334	7.27	13.33	7.8	35.0	2.97	104	467	83	29	13									
DF		14	2	86	94	6.803	7.27	13.61	16.6	65.0	6.42	225	884	180	63	25									
DF		16	2	85	102	5.209	7.27	10.42	23.8	100.0	7.08	248	1,042	198	70	29									
DF		18	2	83	78	4.116	7.27	8.23	25.8	77.5	6.05	212	638	169	59	18									
DF		19	2	82	95	3.694	7.27	7.39	34.3	112.5	7.22	253	831	202	71	23									
DF		20	4	83	92	6.667	14.55	11.67	40.5	138.6	13.47	473	1,617	377	132	45									
DF		21	6	83	102	9.071	21.82	18.14	43.4	144.2	22.44	787	2,615	628	220	73									
DF		22	5	83	102	6.888	18.18	13.78	47.6	161.0	18.70	656	2,218	524	184	62									
DF		23	6	84	106	7.562	21.82	18.90	44.4	168.0	23.90	839	3,176	669	235	89									
DF		24	3	85	112	3.472	10.91	9.26	46.7	186.3	12.31	432	1,725	345	121	48									
DF		25	3	84	109	3.200	10.91	7.47	57.0	217.1	12.13	426	1,621	340	119	45									
DF		26	5	85	111	4.931	18.18	11.84	60.4	230.8	20.36	714	2,732	570	200	76									
DF		27	2	80	100	1.829	7.27	4.57	56.0	192.0	7.30	256	878	204	72	25									
DF		28	1	79	73	.850	3.64	1.70	59.8	145.0	2.90	102	247	81	28	7									
DF		30	1	79	87	.741	3.64	1.48	82.0	225.0	3.46	121	333	97	34	9									
DF		Totals	46	84	92	78.367	167.27	151.78	38.5	138.5	166.72	5,850	21,024	4,668	1,638	589									
NF		15	1	84	81	2.963	3.64	5.93	17.9	55.0	2.55	106	326	71	30	9									
NF		16	1	85	99	2.604	3.64	5.21	23.5	95.0	2.93	122	495	82	34	14									
NF		20	1	83	104	1.667	3.64	3.33	39.5	125.0	3.16	132	417	88	37	12									
NF		22	2	85	111	2.755	7.27	6.89	41.7	160.0	6.90	287	1,102	193	80	31									
NF		23	1	84	117	1.260	3.64	3.78	39.9	166.7	3.62	151	630	101	42	18									
NF		26	2	85	127	1.973	7.27	5.92	53.2	223.3	7.56	315	1,322	212	88	37									
NF		28	2	83	109	1.701	7.27	3.40	80.6	307.5	6.58	274	1,046	184	77	29									
NF		29	1	83	104	.793	3.64	1.59	82.0	335.0	3.12	130	531	87	36	15									
NF		30	1	82	105	.741	3.64	1.48	88.8	325.0	3.16	132	482	88	37	13									
NF		31	1	79	122	.694	3.64	2.08	71.7	276.7	3.58	149	576	100	42	16									
NF		33	1	82	98	.612	3.64	1.22	106.5	395.0	3.13	130	484	88	37	14									
NF		35	3	82	115	1.633	10.91	4.35	102.5	426.3	10.71	446	1,856	300	125	52									
NF		37	1	79	97	.487	3.64	.97	134.4	475.0	3.14	131	463	88	37	13									
NF		Totals	18	84	106	19.882	65.45	46.16	54.3	210.8	60.16	2,506	9,728	1,684	702	272									
WH		12	1	85	59	4.630	3.64	4.63	16.7	50.0	2.47	77	231	69	22	6									
WH		15	2	85	84	5.926	7.27	11.85	19.8	70.0	7.51	235	830	210	66	23									
WH		16	1	85	82	2.604	3.64	5.21	23.3	90.0	3.89	121	469	109	34	13									
WH		18	1	81	90	2.058	3.64	4.12	30.3	105.0	3.99	125	432	112	35	12									
WH		19	2	79	79	3.694	7.27	7.39	31.9	90.0	7.55	236	665	211	66	19									
WH		21	1	84	98	1.512	3.64	3.02	43.9	150.0	4.25	133	454	119	37	13									
WH		22	2	82	82	2.755	7.27	5.51	43.1	125.0	7.59	237	689	213	66	19									
WH		24	1	82	76	1.157	3.64	2.31	49.7	130.0	3.68	115	301	103	32	8									
WH		Totals	11	83	79	24.336	40.00	44.04	29.0	92.4	40.93	1,279	4,070	1,146	358	114									
Totals			75	84	91	122.586	272.73	241.98	39.8	143.9	267.80	9,635	34,822	7,499	2,698	975									

TC		PLOGSTVB		Log Stock Table - MBF																	
TT1N RR6W S28 Ty00MC28.00				Project: Acres		WILLC28.00		Page 1													
								Date 9/16/2021													
								Time 7:15:11AM													
S T Spp	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	2M	32	9		9	1.5				9											
DF	2M	40	384	1.7	377	64.1				133	103	141									
DF	3M	28	2		2	.3			2												
DF	3M	30	3		3	.5			3												
DF	3M	33	2		2	.3			2												
DF	3M	34	2		2	.3			2												
DF	3M	35	2		2	.3			2												
DF	3M	36	3		3	.4			3												
DF	3M	38	2		2	.4			2												
DF	3M	39	2		2	.3			2												
DF	3M	40	137		137	23.2			16	46	74										
DF	4M	13	2		2	.4			2												
DF	4M	16	1		1	.1			1												
DF	4M	18	9		9	1.5			9												
DF	4M	19	1		1	.2			1												
DF	4M	20	1		1	.1			1												
DF	4M	22	1		1	.2			1												
DF	4M	23	3		3	.4			3												
DF	4M	24	1		1	.1			1												
DF	4M	27	3		3	.5			3												
DF	4M	28	1		1	.2			1												
DF	4M	29	7		7	1.3			7												
DF	4M	30	2	25.0	2	.3			2												
DF	4M	31	1		1	.2			1												
DF	4M	32	6		6	1.0			6												
DF	4M	33	2		2	.4			2												
DF	4M	34	6		6	1.1			6												
DF	4M	39	2		2	.4			2												
DF	Totals		596	1.3	589	60.4			81	48	74	142	103	141							
NF	2M	29	3		3	1.1				3											
NF	2M	40	205		205	75.1				26	32	83	63								
NF	3M	38	1		1	.6			1												
NF	3M	40	52		52	18.9			3	28	21										
NF	4M	13	1		1	.4			1	0											
NF	4M	16	2		2	.6			2												
NF	4M	17	1		1	.2			1												

TC		PLOGSTVB		Log Stock Table - MBF																	
TT1N RR6W S28 Ty00MC				28.00		Project:		WILLC		Page		2		Date		9/16/2021		Time		7:15:11AM	
						Acres		28.00													
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	40+	
NF		4M	19		1		1	.3			1										
NF		4M	21		1		1	.2			1										
NF		4M	22		1		1	.3			1										
NF		4M	23		1		1	.3			1										
NF		4M	31		3		3	1.1			3										
NF		4M	37		2		2	.8			2										
NF		Totals			273		272	27.9			13	30	21	29	32	83	63				
WH		2M	40		35	2.0	34	30.0					34								
WH		3M	38		3		3	2.2			3										
WH		3M	39		8	16.7	6	5.7			6										
WH		3M	40		58	3.2	56	49.5				19	37								
WH		4M	17		2		2	1.5			2										
WH		4M	20		1		1	.9			1										
WH		4M	21		5		5	4.3			5										
WH		4M	22		2		2	2.2			2										
WH		4M	23		1		1	.9			1										
WH		4M	28		2		2	1.5			2										
WH		4M	31		2		2	1.4			2										
WH		Totals			118	3.3	114	11.7			23	19	37	34							
Total		All Species			987	1.2	975	100.0			117	98	132	205	136	224	63				

TC PSTATS				PROJECT STATISTICS					PAGE	1	
				PROJECT	WILLC			DATE	9/16/2021		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
T1N	R6	28	00U3	00MC	8.00		3	15	S	W	
				TREES		ESTIMATED	PERCENT				
				PLOTS	TREES	TOTAL	SAMPLE				
				PER PLOT		TREES	TREES				
TOTAL			3	15	5.0						
CRUISE			3	15	5.0		20	73.9			
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			12	2.3	17.9	111	0.9	4.0	657	657	155
WHEMLOCK			2	.1	33.5	104	0.1	.7	105	105	27
R ALDER			1	.1	21.0	58	0.1	.3	21	21	8
TOTAL			15	2.5	19.0	108	1.1	5.0	783	783	190
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			68.8	20.7	307	388	468				
WHEMLOCK			8.1	7.5	892	965	1,038				
R ALDER											
TOTAL			71.9	19.2	363	449	535	221	55	25	
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			72.5	21.8	73	93	113				
WHEMLOCK			3.3	3.1	239	247	254				
R ALDER											
TOTAL			73.5	19.6	89	111	133	231	58	26	
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			60.6	41.9	1	2	3				
WHEMLOCK			173.2	119.8		0	0				
R ALDER			173.2	119.8		0	0				
TOTAL			55.3	38.3	2	3	4	176	44	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			25.0	17.3	3	4	5				
WHEMLOCK			173.2	119.8		1	1				
R ALDER			173.2	119.8		0	1				
TOTAL			40.0	27.7	4	5	6	92	23	10	
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			24.0	16.6	548	657	767				
WHEMLOCK			173.2	119.8		105	231				
R ALDER			173.2	119.8		21	46				
TOTAL			28.2	19.5	630	783	936	46	11	5	
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			21.9	15.2	131	155	178				
WHEMLOCK			173.2	119.8		27	59				

TC PSTATS				<u>PROJECT STATISTICS</u>				PAGE	2	
				PROJECT		WILLC		DATE	9/16/2021	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T1N	R6	28	00U3	00MC		8.00	3	15	S	W
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
R ALDER			173.2	119.8		8	18			
TOTAL			34.2	23.7	145	190	235	67	17	7

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)															
TT1N RR6W S28 Ty00MC 8.00				Project:		WILLC										Page		1	
				Acres		8.00										Date		9/16/2021	
																Time		7:33:39AM	
S Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			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	
			Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	2M	45	301	301	2	55	45	100				40	14	320	1.79	.9			
DF	3M	47	306	306	2	100	100				40	9	114	0.70	2.7				
DF	4M	8	51	51	0	100	8	25	36	32	30	6	44	0.34	1.1				
DF Totals		84	657	657	5	54	25	21	1	2	3	95	38	9	138	0.86	4.8		
WH	2M	82	87	87	1	100				100				40	21	799	4.60	.1	
WH	3M	18	18	18	0	100	100				100				40	10	165	1.56	.1
WH Totals		13	105	105	1	17	83				100				40	16	482	3.08	.2
RA	CR	100	21	21	0	100	100				100				40	10	150	1.48	.1
RA Totals		3	21	21	0	100	100				100				40	10	150	1.48	.1
Totals			783	783	6	50	21	29	1	2	2	96	38	9	153	0.98	5.1		

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		9/16/2021	
TT1N RR6W S28 Ty00MC				8.00				Project		WILLC		Time:		7:33:54AM			
								Acres		8.00		Grown Year:					
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s				
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		13	1	88	113	.362	.33	.72	17.5	85.0	.36	13	61	3	1	0	
DF		14	1	89	104	.312	.33	.62	18.4	80.0	.33	11	50	3	1	0	
DF		15	1	88	109	.272	.33	.54	23.0	105.0	.36	12	57	3	1	0	
DF		16	1	88	110	.239	.33	.48	27.4	120.0	.37	13	57	3	1	0	
DF		17	1	88	111	.211	.33	.42	29.1	120.0	.35	12	51	3	1	0	
DF		18	1	89	110	.189	.33	.38	33.4	130.0	.36	13	49	3	1	0	
DF		19	1	88	116	.169	.33	.34	38.8	155.0	.37	13	52	3	1	0	
DF		20	1	88	115	.153	.33	.31	41.6	165.0	.36	13	50	3	1	0	
DF		21	1	88	110	.139	.33	.28	45.9	180.0	.36	13	50	3	1	0	
DF		24	1	90	119	.106	.33	.32	46.0	210.0	.42	15	67	3	1	1	
DF		26	1	88	115	.090	.33	.27	51.7	233.3	.40	14	63	3	1	1	
DF		36	1	81	111	.047	.33	.09	135.3	520.0	.36	13	49	3	1	0	
DF		Totals	12	88	111	2.288	4.00	4.77	32.4	137.7	4.41	155	657	35	12	5	
WH		33	1	81	102	.056	.33	.11	120.4	455.0	.43	14	51	3	1	0	
WH		34	1	81	105	.053	.33	.11	126.2	510.0	.43	13	54	3	1	0	
WH		Totals	2	81	103	.109	.67	.22	123.2	481.7	.86	27	105	7	2	1	
RA		21	1	84	58	.139	.33	.14	59.0	150.0	.22	8	21	2	1	0	
RA		Totals	1	84	58	.139	.33	.14	59.0	150.0	.22	8	21	2	1	0	
Totals		15	88	108		2.536	5.00	5.13	37.0	152.7	5.49	190	783	44	15	6	

TC		PLOGSTVB		Log Stock Table - MBF																	
TT1N RR6W S28 Ty00MC				8.00		Project:		WILLC		Page		1		Date		9/16/2021		Time		7:33:33AM	
				Acres		8.00															
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		2M	40	2		2	45.8					1		0	1	0					
DF		3M	40	2		2	46.5			0	1	1									
DF		4M	14	0		0	.3			0											
DF		4M	17	0		0	.3			0											
DF		4M	30	0		0	1.9			0											
DF		4M	33	0		0	2.8			0											
DF		4M	37	0		0	2.5			0											
DF		Totals		5		5	83.9			1	1	1	1	0	1	0					
WH		2M	40	1		1	82.9									1					
WH		3M	40	0		0	17.1					0									
WH		Totals		1		1	13.4					0				1					
RA		CR	40	0		0	100.0					0									
RA		Totals		0		0	2.7					0									
Total		All Species		6		6	100.0			1	1	2	1	0	1	1					

VOLUME SUMMARY

Will C

FG-341-2022-W00523-01

September 2021

VOLUMES IN MBF

UNIT 1: MC (48 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	1,004	367	73	1,444
	Hidden D&B (2%)	(20)	(7)	(1)	(28)
	NET TOTAL	984	360	72	1,416
	% of Total	70	25	5	
Western hemlock	Cruise Volume	233	224	57	514
	Hidden D&B (2%)	(5)	(4)	(1)	(10)
	NET TOTAL	228	220	56	504
	% of Total	45	44	11	
Noble fir	Cruise Volume	51	7	1	59
	Hidden D&B (2%)	(1)	(0)	(0)	(1)
	NET TOTAL	50	7	1	58
	% of Total	86	12	2	

UNIT 2: MC (28 ACRES)

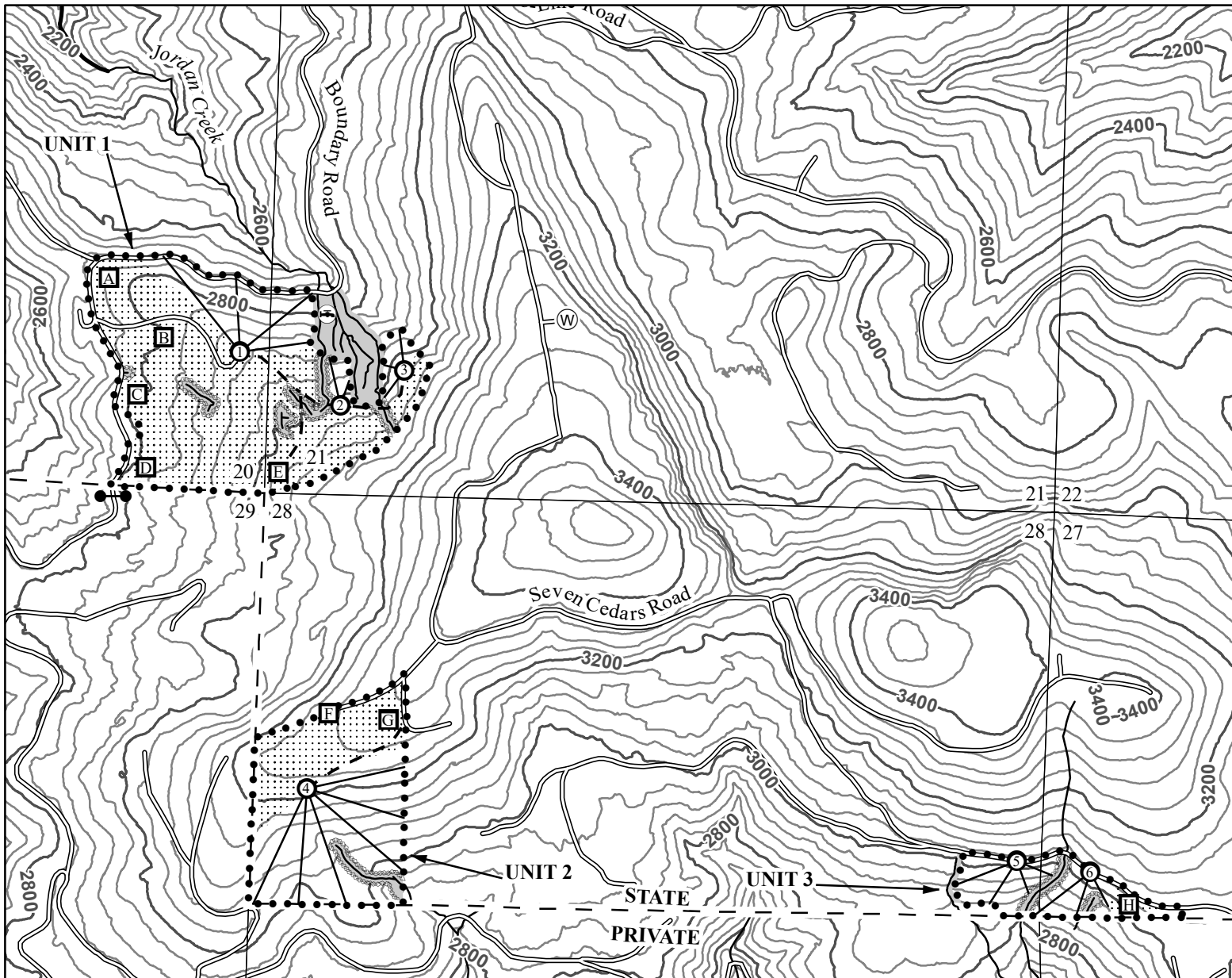
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	386	153	49	588
	Hidden D&B (2%)	(8)	(3)	(1)	(12)
	NET TOTAL	378	150	48	576
	% of Total	66	26	8	
Western hemlock	Cruise Volume	34	65	14	113
	Hidden D&B (2%)	(1)	(1)	(0)	(2)
	NET TOTAL	33	64	14	111
	% of Total	30	58	12	
Noble fir	Cruise Volume	208	53	12	273
	Hidden D&B (2%)	(4)	(1)	(0)	(5)
	NET TOTAL	204	52	12	268
	% of Total	76	19	5	

UNIT 3: MC (8 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2	2	0	4
	Hidden D&B (2%)	(0)	(0)	(0)	(0)
	NET TOTAL	2	2	0	4
	% of Total	50	50	0	
Western hemlock	Cruise Volume	1	0	0	1
	Hidden D&B (2%)	(0)	(0)	(0)	(0)
	NET TOTAL	1	0	0	1
	% of Total	100	0	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	1,364	512	120	1,996
Western hemlock	262	284	70	616
Noble fir	254	59	13	326
Total	1,880	855	203	2,938



Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- ODF Ownership 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
- ODF Protection Tank
- Gate
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2022-W00523-01
WILL C
PORTIONS OF SECTIONS 20, 21, 27 & 28, T1N, R6W, W.M.,
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
September, 2021

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	38	10
UNIT 2	10	18
UNIT 3	1	7
TOTAL	49	35