Timber Sale Appraisal
Unparalleled

Sale FG-341-2022-W00867-01

District: Forest Grove

Date: November 29, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$2,914,707.20	$4,297.41	$2,919,004.61
		Project Work:	($91,275.00)
		Advertised Value:	$2,827,729.61

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Sale FG-341-2022-W00867-01

District: Forest Grove **Date: November 29, 2021**

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	98
Western Hemlock / Fir	20	0	98
Alder (Red)	12	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,675	1,461	0	5,136
Western Hemlock / Fir	358	58	0	416
Alder (Red)	0	0	13	13
Total	4,033	1,519	13	5,565

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

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$1,164.91/MBF = $1,425/MBF - $260.09/MBF

Red alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
$330.57 = $662 - $331.43

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$322.30 = $605 - $282.70

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:
20 hours x $150/hour = $3,000
Equipment Cleaning: 3 pieces x $1,000/Piece = $3,000

TOTAL Other Costs (No Profit & Risk added) = $9,000

Slash Treatment: 14 acres x $250/acre = $3,500

ROAD MAINTENANCE
(Includes: Move-in, Grading, Rolling and Spot Rocking)
Move-in = $2,747.29
General Road Maintenance: 10.57 miles X $3,835.58 = $40,542.08
TOTAL Road Maintenance: $43,289.37 / 5,565 MBF = $7.77/MBF

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District: Forest Grove **Date: November 29, 2021**

Logging Conditions

Combination#: 1

Douglas - Fir	33.59%
Western Hemlock / Fir	36.55%
Alder (Red)	37.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimbing

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

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

loads / day: 11.5 **bd. ft / load:** 4600

cost / mbf: $124.76

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

Combination#: 2

Douglas - Fir	66.41%
Western Hemlock / Fir	63.45%
Alder (Red)	63.00%

Logging System: Shovel **Process:** Harvester Head Delimbing

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:** 4500

cost / mbf: $98.96

machines: Forwarder
Harvester

Timber Sale Appraisal
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District: Forest Grove **Date: November 29, 2021**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	15%
Project Costs:	$91,275.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$3,500.00	**Other Costs:**	$9,000.00

Miles of Road

Road Maintenance: $7.77

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	4.6
Western Hemlock / Fir	$0.00	2.0	3.9
Noble Fir	$0.00	2.0	4.0
Alder (Red)	$0.00	2.0	3.0

Timber Sale Appraisal
Unparalleled

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District: Forest Grove

Date: November 29, 2021

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$107.63	$7.93	$1.58	$105.33	$0.00	$33.37	$0.63	$2.00	$1.62	$260.09
Western Hemlock / Fir									
$108.39	$7.93	$1.58	$124.23	$0.00	$36.32	$0.63	$2.00	$1.62	$282.70
Alder (Red)									
$108.51	$8.16	$1.58	$166.25	$0.00	$42.68	$0.63	$2.00	$1.62	$331.43

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$801.49	$541.40	$0.00
Western Hemlock / Fir	$0.00	$605.00	$322.30	$0.00
Alder (Red)	$0.00	$662.00	$330.57	$0.00

Timber Sale Appraisal
Unparalleled

Sale FG-341-2022-W00867-01

District: Forest Grove **Date: November 29, 2021**

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,136	$541.40	$2,780,630.40
Western Hemlock / Fir	416	$322.30	$134,076.80
Alder (Red)	13	$330.57	$4,297.41

Gross Timber Sale Value

Recovery: $2,919,004.61

Prepared By: Adrian Torres **Phone:** 503-359-7460

PROJECT COST SUMMARY SHEET

Timber Sale: Unparalleled
Sale Number: FG-341-2022-W00867-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION AND RECONSTRUCTION

Road Segment	Length	Cost
B to C	15+00	$9,748.52
D to E	4+40	$2,585.66
F to G	3+50	$3,127.17
H to I	2+40	$1,904.03
J to K	21+00	$20,924.90
L to M	13+60	$15,088.30
N to O	8+20	$7,674.90
Q to R	6+95	$7,345.46
Point S	-	$160.01
Point T	-	$159.95
	68+10 stations	
	1.29 miles	

Total Rock =

24 cy	1½" - 0
5,588 cy	3" - 0

Move-in = $4,447.52

TOTAL PROJECT COST = $73,166.40

PROJECT NO. 2: ROAD IMPROVEMENT

Road Segment	Length	Cost
A to B	12+70	$7,444.01
P to H	18+00	$2,691.68
Point S	----	$160.01
Point T	----	$159.95
	30+70 stations	
	0.58 miles	

Total Rock =

294 cy	1½" - 0
903 cy	3" - 0
44 cy	Blocking Boulders

Move-in = $750.00

TOTAL PROJECT COST = $11,205.64

PROJECT NO. 3: ROAD VACATING

Road Segment	Length	Cost
B to C	15+00	$2,538.00
D to E	4+40	$826.00
F to G	3+50	$721.00
Point S	-	$150.00
Point T	-	$150.00
V1 to V2	4+85	$571.95
	27+75 stations	
	0.53 miles	

Move-in = $1,946.01

TOTAL PROJECT COST = $6,902.96

TOTAL CREDITS = $91,275.00

SUMMARY OF IMPROVEMENT COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: A to B | Improvement: 12+70 stations; 0.24 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.15	ac @	$1,078.00	per acre =	$161.70
Remove large stumps	4.00	ea @	$82.50	per ea =	$330.00
Road widening (drift)	12.70	sta @	$110.00	per sta =	$1,397.00
Contruct Turnouts	1	ea @	$66.00	per ea =	$66.00
Grade, ditch, & roll	12.70	sta @	$36.00	per sta =	$457.20

TOTAL IMPROVEMENT COSTS = $2,411.90

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	$20.00	per LF =	$600.00
Markers & Stakes					
Culvert Markers	1	ea @	$10.00	per ea =	$10.00

TOTAL CULVERT COSTS = $610.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$0.91	$1.67	$0.50	24	$73.92
				Subtotal =	24	$73.92
Surfacing rock						
Base rock	3" - 0	$0.91	$1.67	$1.22	826	$3,138.80
Junction	3" - 0	$0.91	$1.67	$1.22	48	$182.40
Turnout	3" - 0	$0.91	$1.67	$1.22	29	$110.20
Blocking Boulders	36"	$14.09	$11.35	$1.22	32	$853.04
				Subtotal =	935	$4,284.44

Totals		
	All Rock =	959
	1½" - 0 =	24
	3" - 0 =	903
	Blocking Boulders =	32

TOTAL ROCK COSTS = $4,358.36

EROSION CONTROL

Grass seed & fertilizer	0.15	ac @	$425.00	per ac =	$63.75

TOTAL EROSION CONTROL COSTS = $63.75

TOTAL PROJECT COST = $7,444.01

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: B to C | Construction: 15+00 stations; 0.28 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	1.73	ac @	$1,078.00	per ac =	$1,864.94	
Balanced road construction	15.00	sta @	$110.00	per sta =	$1,650.00	
Turnouts	1	ea @	$66.00	per ea =	$66.00	
Turnaround	1	ea @	$82.50	per ea =	$82.50	
Landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	15.00	sta @	$36.00	per sta =	$540.00	
				TOTAL CONSTRUCTION COSTS =		$4,423.44

CULVERTS

Culverts and Bands						
18" Diameter	90	LF @	$20.00	per LF =	$1,800.00	
				TOTAL CULVERT COSTS =		$1,800.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	$0.91	$2.01	$1.22	630	$2,608.20
Junction	3" - 0	$0.91	$2.01	$1.22	24	$99.36
Turnout	3" - 0	$0.91	$2.01	$1.22	19	$78.66
Turnaround	3" - 0	$0.91	$2.01	$1.22	14	$57.96
Landing	3" - 0	$0.91	$2.01	$1.22	60	$248.40
				Subtotal =	747	$3,092.58

Totals		
	All Rock =	747
	3" - 0 =	747

TOTAL ROCK COSTS = $3,092.58

EROSION CONTROL

Grass seed & fertilizer	0.87	ac @	$500.00	per ac =	$432.50	
				TOTAL EROSION CONTROL COSTS =		$432.50

TOTAL PROJECT COST = $9,748.52

PROJECT NO. 3

VACATE

Rip rock road surface	15.00	sta @	$50.00	per sta =	$750.00	
Rip landing and turnaround	1	ea @	$150.00	per ea =	$150.00	
Remove existing culverts	3	ea @	$150.00	per ea =	$450.00	
Reestablish OHV trail	1	ea @	$150.00	per ea =	$150.00	
Mulch	1.73	ac @	$600.00	per ac =	$1,038.00	
				TOTAL PROJECT COST =		$2,538.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: D to E | Construction: 4+40 stations | 0.08 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.51	ac @	$1,078.00	per ac =	$549.78	
Balanced road construction	4.40	sta @	$110.00	per sta =	$484.00	
Turnaround	1	ea @	$82.50	per ea =	$82.50	
Landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	4.40	sta @	$36.00	per sta =	$158.40	
				TOTAL CONSTRUCTION COSTS =		$1,494.68

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	$0.91	$1.59	$1.22	185	$688.20
Turnaround	3" - 0	$0.91	$1.59	$1.22	14	$52.08
Landing	3" - 0	$0.91	$1.59	$1.22	60	$223.20
				Subtotal =	259	$963.48

Totals		
	All Rock =	259
	3" - 0 =	259

TOTAL ROCK COSTS = $963.48

EROSION CONTROL

Grass seed & fertilizer	0.26	ac @	$500.00	per ac =	$127.50	
				TOTAL EROSION CONTROL COSTS =		$127.50

TOTAL PROJECT COST = $2,585.66

PROJECT NO. 3

VACATE

Rip rocked road surface	4.40	sta @	$50.00	per sta =	$220.00	
Rip landing and turnaround	1	ea @	$150.00	per ea =	$150.00	
Reestablish OHV trail	1	ea @	$150.00	per ea =	$150.00	
Mulch	0.51	ac @	$600.00	per ac =	$306.00	
				TOTAL PROJECT COST =		$826.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: F to G | Construction: 3+50 stations; 0.07 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.41	ac @	$1,078.00	per ac =	$441.98	
Balanced road construction	3.50	sta @	$110.00	per sta =	$385.00	
Roadside landing	1	ea @	$165.00	per ea =	$165.00	
Landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	3.50	sta @	$36.00	per sta =	$126.00	
				TOTAL CONSTRUCTION COSTS =		$1,337.98

CULVERTS

18" Diameter	30	LF @	$20.00	per LF =	$600.00	
Markers & Stakes						
				TOTAL CULVERT COSTS =		$600.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	$0.91	$1.94	$1.22	147	$598.29
Roadside landing	3" - 0	$0.91	$1.94	$1.22	60	$244.20
Landing	3" - 0	$0.91	$1.94	$1.22	60	$244.20
				Subtotal =	267	$1,086.69

Totals		
	All Rock =	267
	3" - 0 =	267

TOTAL ROCK COSTS = $1,086.69

EROSION CONTROL

Grass seed & fertilizer	0.21	ac @	$500.00	per ac =	$102.50	
				TOTAL EROSION CONTROL COSTS =		$102.50

TOTAL PROJECT COST = $3,127.17

PROJECT NO. 3

VACATE

Rip rocked road surface	3.50	sta @	$50.00	per sta =	$175.00	
Rip landing and turnaround	1	ea @	$150.00	per ea =	$150.00	
Remove existing culverts	1	ea @	$150.00	per ea =	$150.00	
Mulch	0.41	ac @	$600.00	per ac =	$246.00	
				TOTAL PROJECT COST =		$721.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: H to I | Reconstruction: 2+40 stations; 0.05 miles

PROJECT NO. 1

RECONSTRUCTION

Clearing & grubbing (scatter)	0.03	ac @	$1,078.00	per ac =	$32.34	
Construct landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	2.40	sta @	$36.00	per sta =	$86.40	
				TOTAL RECONSTRUCTION COSTS =		$338.74

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	$0.91	$3.08	$1.22	156	$812.76
Junction	3" - 0	$0.91	$3.08	$1.22	48	$250.08
Landing	3" - 0	$0.91	$3.08	$1.22	95	$494.95
				Subtotal =	299	$1,557.79

Totals		
	All Rock =	299
	3" - 0 =	299

TOTAL ROCK COSTS = $1,557.79

EROSION CONTROL

Grass seed & fertilizer	0.02	ac @	$500.00	per ac =	$7.50	
				TOTAL EROSION CONTROL COSTS =		$7.50
				TOTAL PROJECT COST =		$1,904.03

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: J to K | Construction: 21+00 stations; 0.40 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	2.42	ac @	$1,078.00	per ac =	$2,608.76	
Balanced road construction	17.40	sta @	$110.00	per sta =	$1,914.00	
Drift	3.60	sta @	$180.00	per sta =	$648.00	
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	21.00	sta @	$36.00	per sta =	$756.00	
				TOTAL CONSTRUCTION COSTS =		$6,691.26

CULVERTS

Culverts and Bands						
18" Diameter	120	LF @	$20.00	per LF =	$2,400.00	
24" Diameter	50	LF @	$29.00	per LF =	$1,450.00	
Markers & Stakes						
Culvert markers	5	ea @	$10.00	per ea =	$50.00	
				TOTAL CULVERT COSTS =		$3,900.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	$0.91	$3.50	$1.22	1,365	$7,684.95
Turnout	3" - 0	$0.91	$3.50	$1.22	58	$326.54
Turnaround	3" - 0	$0.91	$3.50	$1.22	20	$112.60
Roadside landing	3" - 0	$0.91	$3.50	$1.22	190	$1,069.70
Landing	3" - 0	$0.91	$3.50	$1.22	95	$534.85
				Subtotal =	1,728	$9,728.64

Totals		
	All Rock =	1,728
	3" - 0 =	1,728

TOTAL ROCK COSTS = $9,728.64

EROSION CONTROL

Grass seed & fertilizer	1.21	ac @	$500.00	per ac =	$605.00	
				TOTAL EROSION CONTROL COSTS =		$605.00

TOTAL PROJECT COST = $20,924.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled Sale Number: FG-341-2022-W00867-01

Road Segment: L to M Reconstruction: 13+60 stations

0.26 miles

PROJECT NO. 1

RECONSTRUCTION						
Clearing & grubbing (scatter)	0.16	ac @	$1,078.00	per ac =	$172.48	
Balanced road construction	13.60	sta @	$110.00	per sta =	$1,496.00	
Fill reconstruction						
Excavate	500	cy @	$1.64	per cy =	$820.00	
Endhaul unsuitable fill material	200	cy @	$1.18	per cy =	$236.00	
Shape and compact waste material	200	cy @	$0.30	per cy =	$60.00	
Place and Compact fill	650	cy @	$2.90	per cy =	$1,885.00	
Contruct Turnouts	1	ea @	$66.00	per ea =	$66.00	
Construct Turnaround	1	ea @	$82.50	per ea =	$82.50	
Construct landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	13.60	sta @	$36.00	per sta =	$489.60	
				TOTAL RECONSTRUCTION COSTS =		$5,527.58

CULVERTS						
Culverts and Bands						
18" Diameter	90	LF @	$20.00	per LF =	$1,800.00	
24" Diameter	50	LF @	$29.00	per LF =	$1,450.00	
Markers & Stakes						
Culvert Markers	4	ea @	$10.00	per ea =	$40.00	
				TOTAL CULVERT COSTS =		$3,290.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$0.91	$3.55	$0.50	24	$119.04
				Subtotal =	24	$119.04
Surfacing rock						
Base rock	3" - 0	$0.91	$3.55	$1.22	884	$5,021.12
Junction	3" - 0	$0.91	$3.55	$1.22	48	$272.64
Turnout	3" - 0	$0.91	$3.55	$1.22	29	$164.72
Turnaround	3" - 0	$0.91	$3.55	$1.22	20	$113.60
Landing	3" - 0	$0.91	$3.55	$1.22	95	$539.60
				Subtotal =	1,076	$6,111.68

Totals	
All Rock =	1,100
1½" - 0 =	24
3" - 0 =	1,076

TOTAL ROCK COSTS = $6,230.72

EROSION CONTROL						
Grass seed & fertilizer	0.08	ac @	$500.00	per ac =	$40.00	
				TOTAL EROSION CONTROL COSTS =		$40.00
				TOTAL PROJECT COST =		$15,088.30

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: N to O | Construction: 8+20 stations; 0.16 miles

PROJECT NO. 1

CONSTRUCTION						
Clearing & grubbing (scatter)	0.95	ac @	$1,078.00	per ac =	$1,024.10	
Balanced road construction	8.20	sta @	$110.00	per sta =	$902.00	
Turnaround	1	ea @	$82.50	per ea =	$82.50	
Landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	8.20	sta @	$36.00	per sta =	$295.20	
				TOTAL CONSTRUCTION COSTS =		$2,523.80

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	3" - 0	$0.91	$3.57	$1.22	533	$3,038.10
Turnaround	3" - 0	$0.91	$3.57	$1.22	20	$114.00
Landing	3" - 0	$0.91	$3.57	$1.22	95	$541.50
				Subtotal =	648	$3,693.60

Totals		
	All Rock =	648
	3" - 0 =	648

TOTAL ROCK COSTS = $3,693.60

EROSION CONTROL						
Grass seed & fertilizer	0.48	ac @	$500.00	per ac =	$237.50	
				TOTAL EROSION CONTROL COSTS =		$237.50

TOTAL PROJECT COST = $7,674.90

SUMMARY OF IMPROVEMENT COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: P to H | Improvement: 18+00 stations; 0.34 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.21	ac @	$1,078.00	per acre =	$226.38
Clean culvert inlet & outlet, scatter waste	2	ea @	$25.00	per ea =	$50.00
Construct Settling Ponds	6	ea @	$25.00	per ea =	$150.00
Improve Turnouts	3	ea @	$33.00	per ea =	$99.00
Improve Turnaround	1	ea @	$41.25	per ea =	$41.25
Grade, ditch, & roll	18.00	sta @	$36.00	per sta =	$648.00

TOTAL IMPROVEMENT COSTS = $1,214.63

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Traction rock	1½" - 0	$0.91	$3.01	$1.22	270	$1,387.80
				Subtotal =	270	$1,387.80

Totals		
	All Rock =	270
	1½" - 0 =	270

TOTAL ROCK COSTS = $1,387.80

EROSION CONTROL

Grass seed & fertilizer	0.21	ac @	$425.00	per ac =	$89.25

TOTAL EROSION CONTROL COSTS = $89.25

TOTAL PROJECT COST = $2,691.68

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: Q to R | Construction: 6+95 stations; 0.13 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.80	ac @	$1,078.00	per ac =	$862.40	
Balanced road construction	6.95	sta @	$110.00	per sta =	$764.50	
Turnaround	1	ea @	$82.50	per ea =	$82.50	
Landing	1	ea @	$220.00	per ea =	$220.00	
Grade, ditch, & roll	6.95	sta @	$36.00	per sta =	$250.20	
				TOTAL CONSTRUCTION COSTS =		$2,179.60

CULVERTS

Culverts and Bands						
18" Diameter	30	LF @	$20.00	per LF =	$600.00	
Markers & Stakes						
Culvert markers	1	ea @	$10.00	per ea =	$10.00	
				TOTAL CULVERT COSTS =		$610.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	$0.91	$5.60	$1.22	449	$3,466.91
Turnaround	3" - 0	$0.91	$5.60	$1.22	20	$154.60
Landing	3" - 0	$0.91	$5.60	$1.22	95	$734.35
				Subtotal =	564	$4,355.86

Totals		
	All Rock =	564
	3" - 0 =	564

TOTAL ROCK COSTS = $4,355.86

EROSION CONTROL

Grass seed & fertilizer	0.40	ac @	$500.00	per ac =	$200.00	
				TOTAL EROSION CONTROL COSTS =		$200.00

TOTAL PROJECT COST = $7,345.46

SUMMARY OF IMPROVEMENT COST

Timber Sale: Unparalleled Sale Number: FG-341-2022-W00867-01

Road Segment: Point S

PROJECT NO. 2

IMPROVEMENT

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Blocking Boulders	36"	$14.09	$11.36	$1.22	6	$160.01
				Subtotal =	6	$160.01

Totals		
	All Rock =	6
	Blocking Boulders =	6

TOTAL ROCK COSTS = $160.01

TOTAL PROJECT COST = $160.01

PROJECT NO. 3

CONSTRUCTION

Move boulders	1	ea @	$150.00	per ea =		$150.00

TOTAL PROJECT COST = $150.00

SUMMARY OF IMPROVEMENT COST

Timber Sale: Unparalleled Sale Number: FG-341-2022-W00867-01

Road Segment: Point T

PROJECT NO. 2

IMPROVEMENT

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Blocking Boulders	36"	$14.09	$11.35	$1.22	6	$159.95
				Subtotal =	6	$159.95

Totals		
	All Rock =	6
	Blocking Boulders =	6

TOTAL ROCK COSTS = $159.95

TOTAL PROJECT COST = $159.95

PROJECT NO. 3

CONSTRUCTION

Move boulders	1	ea @	$150.00	per ea =		$150.00

TOTAL PROJECT COST = $150.00

SUMMARY OF VACATING COST

Timber Sale: Unparalleled | Sale Number: FG-341-2022-W00867-01

Road Segment: V1 to V2 | Vacating: 4+85 stations

0.09 miles

PROJECT NO. 3

VACATE						
Construct tank traps	2	ea @	$55.00	per ea =	$110.00	
Construct waterbars	3	ea @	$27.50	per ea =	$82.50	
Rip rocked road surface	4.85	sta @	$50.00	per sta =	$242.50	
Grass seed & fertilizer	0.13	ac @	$425.00	per ac =	$56.78	
Mulch	0.13	ac @	$600.00	per ac =	$80.17	

TOTAL PROJECT COST = $571.95

SUMMARY OF CONSTRUCTION COST

Timber Sale: Unparalleled Sale Number: FG-341-2022-W00867-01

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

Equipment	Total
Grader	$767.15
Roller (smooth/grid) & Compactor	$515.31
Excavator (Large) - Equipment Cleaning	$1,792.78
Dozer (Large) - Equipment Cleaning	$1,837.36
Dump Truck (10cy +)	$153.23
Water Truck (1,500 Gal)	$131.69
TOTAL MOVE-IN COSTS =	**$5,197.52**

PROJECT NO. 3 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

Equipment	Total
Excavator (Large) - Equipment Cleaning	$1,792.78
Dump Truck (10cy +)	$153.23
TOTAL MOVE-IN COSTS =	**$1,946.01**

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale:	Unparalleled
Sale Number:	FG-341-2022-W00867-01
Stockpile Name:	Beaverdam

1 1/2" - 0:	318 cy	(truck measure)
3" -0:	6,491 cy	(truck measure)
Total truck yardage:	6,809 cy	

Move-in					
Move in loader					$647.96
Move in Dump Trucks					$100.32
				Subtotal =	$748.28
				Per CY =	$0.11/cy
3"-0 & 1 1/2" -0 Base Cost					
Load dump truck	$0.80	/ cy x	6,809	cy =	$5,446.80
				Subtotal =	$5,446.80
				Per CY =	$0.80

1 1/2"-0 Cost =	**$0.91/cy**
3"-0 Cost =	**$0.91/cy**

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Unparalleled
Sale Number: FG-341-2022-W00867-01
Stockpile Name: Beaverdam 8.5mile

Boulders: 44 Each

Move-in					
Move in excavator					$524.70
Move in Dump Trucks					$24.75
				Subtotal =	$549.45
				Per CY =	$12.49/cy
Bolder Base Cost					
Load dump truck	$1.60	/ cy x	44	cy =	$70.40
				Subtotal =	$70.40
				Per CY =	$1.60

Boulder Cost = **$14.09/cy**

CRUISE REPORT
Unparalleled
FG-341-2022-W00867-01

1. LOCATION: Portions of Sections 35 and 36, T2N, R6W, W.M., Tillamook County, Oregon. Portions of Section 2, T1N, R6W, W.M., Tillamook 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 November 2021 with 40 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 6 chain grid for Unit 1 and Unit 2. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:
223 trees were measured and graded producing a cumulative Sampling Error of 7.6% on the Douglas-fir basal area and 8.1% 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, Mark Savage, Nate Hunter, and Shamus Smith.

Prepared by: Adrian Torres 11/24/2021
Date

Reviewed by: Mark Savage 11/24/2021
Date

TC PSTATS

PROJECT STATISTICS

PROJECT UNPAR

DATE 11/17/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	06	35	00U1	00MC	123.00	40	231	S	W
02N	06W	35	00U2	00MC					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	40	231	5.8		
CRUISE	40	231	5.8	14,897	1.6
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	206	101.4	19.3	118	46.9	206.1	42,716	42,522	9,137	9,137
DOUG FIR-S	8	12.7	10.8	52	2.5	8.1				
WHEMLOCK	11	5.2	19.5	85	2.4	10.7	2,174	2,174	464	464
NOB FIR	5	.7	35.8	140	0.8	4.8	1,294	1,272	244	244
R ALDER	1	1.2	12.0	92	0.3	1.0	110	110	25	25
TOTAL	*231*	*121.1*	*18.7*	*110*	*53.4*	*230.7*	*46,295*	*46,079*	*9,869*	*9,869*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	74.8	5.2	670	707	744			
DOUG FIR-S								
WHEMLOCK	66.0	20.9	559	706	854			
NOB FIR	58.8	29.2	1,653	2,336	3,019			
R ALDER								
TOTAL	*84.8*	*5.6*	*675*	*715*	*755*	*287*	*72*	*32*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	66.5	4.6	140	147	154			
DOUG FIR-S								
WHEMLOCK	56.8	17.9	119	144	170			
NOB FIR	54.9	27.3	319	439	559			
R ALDER								
TOTAL	*75.8*	*5.0*	*140*	*147*	*155*	*229*	*57*	*25*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	53.0	8.4	93	101	110			
DOUG FIR-S	390.0	61.6	5	13	20			
WHEMLOCK	249.1	39.3	3	5	7			
NOB FIR	293.6	46.4	0	1	1			
R ALDER	632.5	99.9	0	1	2			
TOTAL	*58.2*	*9.2*	*110*	*121*	*132*	*135*	*34*	*15*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	48.3	7.6	190	206	222			
DOUG FIR-S	280.0	44.2	5	8	12			
WHEMLOCK	200.9	31.7	7	11	14			
NOB FIR	267.9	42.3	3	5	7			
R ALDER	632.5	99.9	0	1	2			
TOTAL	*44.1*	*7.0*	*215*	*231*	*247*	*78*	*19*	*9*

PROJECT STATISTICS

PROJECT UNPAR

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	06	35	00U1	00MC	123.00	40	231	S	W
02N	06W	35	00U2	00MC					

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	51.4	8.1	39,072	42,522	45,972			
DOUG FIR-S								
WHEMLOCK	230.8	36.5	1,382	2,174	2,967			
NOB FIR	270.3	42.7	729	1,272	1,815			
R ALDER	632.5	99.9	0	110	221			
TOTAL	*46.9*	*7.4*	*42,665*	*46,079*	*49,492*	*88*	*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	50.9	8.0	8,402	9,137	9,871			
DOUG FIR-S								
WHEMLOCK	217.2	34.3	305	464	623			
NOB FIR	268.7	42.4	140	244	347			
R ALDER	632.5	99.9	0	25	49			
TOTAL	*46.0*	*7.3*	*9,152*	*9,869*	*10,586*	*84*	*21*	*9*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T02N R06W S35 Ty00MC	77.00
T02N R06W S35 Ty00MC	46.00

Project: UNPAR
Acres 123.00

Page 1
Date 11/17/2021
Time 6:20:18AM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU														15	9		0.00	21.6
DF		2M	71	.5	30,586	30,430	3,743			47	53	1	1		98	39	15	389	1.97	78.3
DF		3M	24	.3	10,088	10,060	1,237		99	1			0	2	98	40	8	102	0.65	98.2
DF		4M	5	.5	2,042	2,032	250		100			21	31	27	22	25	6	35	0.37	58.1
DF	**Totals**		92	.5	42,716	42,522	5,230		28	34	38	2	2	2	94	34	10	166	1.04	256.3
NF		2M	96	1.8	1,250	1,227	151			14	86				100	40	21	836	3.79	1.5
NF		3M	3		34	34	4		63	37					100	38	7	81	1.08	.4
NF		4M	1		11	11	1		100			35	65			19	9	40	0.79	.3
NF	**Totals**		3	1.7	1,294	1,272	156		3	14	83	0	1		99	37	17	590	3.06	2.2
RA		CR	100		110	110	14		100						100	27	8	45	0.37	2.5
RA	**Totals**		0		110	110	14		100						100	27	8	45	0.37	2.5
WH		2M	79		1,736	1,736	214			28	72				100	40	17	478	2.24	3.6
WH		3M	15		328	328	40		81	19			3		97	39	9	125	0.97	2.6
WH		4M	6		110	110	14		100			58	42			20	6	24	0.41	4.7
WH	**Totals**		5		2,174	2,174	267		17	25	58	3	3		94	31	10	199	1.36	10.9
Totals				0.5	46,295	46,079	5,668		27	33	40	2	2	2	95	34	10	170	1.07	271.8

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 11/17/2021

T02N R06W S35 Ty00MC 77.00
T02N R06W S35 Ty00MC 46.00

Project UNPAR
Acres 123.00

Time: 6:20:19AM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		7	2	75	38	7.207	1.93									
DF		9	3	85	70	7.256	3.21	4.84	9.0	45.0	1.24	44	218	153	54	27
DF		10	4	87	74	7.063	3.85	7.06	11.9	55.0	2.39	84	388	294	103	48
DF		11	3	87	94	4.538	2.99	6.16	12.8	54.5	2.25	79	335	276	97	41
DF		12	4	89	102	5.173	4.06	7.76	13.6	58.6	3.00	105	455	369	130	56
DF		13	5	87	98	5.224	4.82	9.40	15.7	62.2	4.20	147	585	516	181	72
DF		14	9	88	112	8.601	9.20	17.20	19.9	89.3	9.73	341	1,536	1,197	420	189
DF		15	4	88	80	3.311	4.06	4.10	24.5	102.1	2.86	100	418	352	123	51
DF		16	9	88	122	6.585	9.20	14.63	24.8	109.8	10.35	363	1,606	1,274	447	198
DF		17	11	89	121	7.256	11.44	15.12	25.8	111.7	11.13	390	1,689	1,369	480	208
DF		18	13	88	127	7.503	13.26	19.72	28.8	122.1	16.19	568	2,409	1,991	699	296
DF		19	13	89	128	6.734	13.26	19.17	30.4	131.3	16.60	582	2,517	2,041	716	310
DF		20	12	89	129	5.442	11.87	14.56	33.2	150.5	13.77	483	2,192	1,694	594	270
DF		21	8	88	129	3.335	8.02	9.20	38.4	174.5	10.07	353	1,606	1,239	435	198
DF		22	14	89	134	5.307	14.01	14.83	41.3	193.7	17.46	613	2,872	2,148	754	353
DF		23	10	88	135	3.484	10.05	10.12	47.7	219.6	13.75	483	2,222	1,692	594	273
DF		24	10	88	138	3.200	10.05	9.60	50.3	228.7	13.76	483	2,196	1,693	594	270
DF		25	5	86	133	1.444	4.92	4.33	52.9	234.8	6.52	229	1,017	802	282	125
DF		26	8	88	136	2.204	8.13	6.61	57.6	263.2	10.85	381	1,740	1,334	468	214
DF		27	10	88	148	2.502	9.95	7.75	64.9	316.0	14.33	503	2,448	1,763	619	301
DF		28	10	87	140	2.326	9.95	6.98	69.0	325.9	13.73	482	2,274	1,688	592	280
DF		29	10	87	146	2.169	9.95	6.51	75.8	374.1	14.06	493	2,434	1,730	607	299
DF		30	10	87	144	1.983	9.74	5.95	81.8	398.9	13.88	487	2,373	1,707	599	292
DF		31	2	88	137	.388	2.03	1.16	84.6	420.8	2.80	98	489	345	121	60
DF		32	6	88	143	1.035	5.78	3.10	94.1	463.3	8.33	292	1,438	1,024	359	177
DF		33	6	86	143	1.008	5.99	3.03	97.0	473.2	8.37	294	1,432	1,029	361	176
DF		34	3	89	155	.458	2.89	1.68	92.6	524.5	4.44	156	881	546	191	108
DF		35	4	89	155	.577	3.85	1.87	112.6	620.8	6.01	211	1,163	739	259	143
DF		36	2	90	146	.273	1.93	.82	121.3	676.7	2.83	99	553	348	122	68
DF		37	1	85	141	.129	.96	.39	119.5	593.3	1.32	46	230	162	57	28
DF		39	1	90	141	.116	.96	.35	137.2	763.3	1.36	48	266	168	59	33
DF		40	1	86	147	.110	.96	.33	147.3	780.0	1.39	49	258	171	60	32
DF		41	1	89	150	.105	.96	.32	160.4	886.7	1.44	51	279	177	62	34
DF		Totals	214	87	111	114.048	214.22	234.64	38.9	181.2	260.40	9,137	42,522	32,029	11,238	5,230
WH		10	1	77	35	1.766	.96	1.77	7.4	20.0	.42	13	35	52	16	4
WH		16	1	85	76	.690	.96	1.38	20.9	70.0	.92	29	97	114	36	12
WH		20	1	86	119	.441	.96	1.32	32.3	133.3	1.37	43	177	168	53	22
WH		21	1	92	126	.400	.96	1.20	39.5	193.3	1.52	47	232	187	58	29
WH		24	3	93	121	.920	2.89	2.76	50.7	246.7	4.48	140	681	551	172	84
WH		25	1	87	104	.313	1.07	.63	69.1	275.0	1.39	43	172	171	53	21
WH		27	1	93	127	.242	.96	.73	66.7	340.0	1.55	48	247	191	60	30
WH		29	1	93	122	.210	.96	.63	75.7	390.0	1.53	48	246	188	59	30
WH		32	1	93	131	.172	.96	.52	100.5	556.7	1.66	52	288	205	64	35
WH		Totals	11	85	85	5.155	10.70	10.93	42.4	198.9	14.84	464	2,174	1,825	570	267
NF		28	1	91	142	.225	.96	.68	72.7	340.0	1.18	49	230	145	60	28
NF		32	1	91	125	.172	.96	.52	85.2	446.7	1.06	44	231	130	54	28
NF		36	1	88	140	.136	.96	.41	114.9	580.0	1.13	47	237	139	58	29
NF		44	1	91	159	.091	.96	.36	149.4	860.0	1.31	54	314	161	67	39
NF		53	1	85	146	.063	.96	.19	259.9	1380.0	1.18	49	260	145	60	32
NF		Totals	5	90	140	.688	4.82	2.16	113.1	590.2	5.85	244	1,272	719	300	156
RA		12	1	93	92	1.226	.96	2.45	10.1	45.0	.68	25	110	84	30	14

TC PSTNDSUM

Stand Table Summary

Page 2
Date: 11/17/2021

T02N R06W S35 Ty00MC 77.00
T02N R06W S35 Ty00MC 46.00

Project UNPAR
Acres 123.00

Time: 6:20:19AM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RA		Totals	1	93	92	1.226	.96	2.45	10.1	45.0	.68	25	110	84	30	14
Totals			231	87	110	121.117	230.70	250.18	39.4	184.2	281.77	9,869	46,079	34,657	12,139	5,668

TC PLOGSTVB

Log Stock Table - MBF

T02N R06W S35 Ty00MC 77.00
T02N R06W S35 Ty00MC 46.00

Project: UNPAR
Acres 123.00

Date 11/17/2021
Time 6:20:17AM

Spp	S T	So Grt	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+
DF		2M		14	7		7	.1						7						
DF		2M		15	10		10	.2										10		
DF		2M		16	19		19	.4								19				
DF		2M		18	9		9	.2								9				
DF		2M		20	2		2	.0							2					
DF		2M		25	14		14	.3										14		
DF		2M		30	16		16	.3								16				
DF		2M		36	13		13	.2							13					
DF		2M		40	3,672		3,652	69.8						776	636	1210	737	273	21	
DF		3M		28	1		1	.0				1								
DF		3M		29	1		1	.0				1								
DF		3M		30	1		1	.0				1								
DF		3M		32	5		5	.1			4	1								
DF		3M		34	7		7	.1			5	2								
DF		3M		35	7		7	.1			6		2							
DF		3M		36	8		8	.2			6	2								
DF		3M		37	6		6	.1			4	2								
DF		3M		38	13		13	.2			13									
DF		3M		39	14		14	.3			14									
DF		3M		40	1,178		1,175	22.5			251	446	467	11						
DF		4M		12	0		0	.0				0								
DF		4M		13	3		3	.1			3									
DF		4M		14	11		11	.2			11									
DF		4M		15	10		10	.2			10									
DF		4M		16	2		2	.0			1	1								
DF		4M		17	8		8	.1			8									
DF		4M		18	4		4	.1			4									
DF		4M		19	8		8	.2			8									
DF		4M		20	5		5	.1			5									
DF		4M		21	5		5	.1			4	1								
DF		4M		22	2		2	.0			2									
DF		4M		23	6		6	.1			6									
DF		4M		24	4		4	.1			4									
DF		4M		25	9		9	.2			9									
DF		4M		26	15		15	.3			15									
DF		4M		27	5		5	.1			5									
DF		4M		28	5		5	.1			5									

TC PLOGSTVB

Log Stock Table - MBF

T02N R06W S35 Ty00MC 77.00
T02N R06W S35 Ty00MC 46.00

Project: UNPAR
Acres 123.00

Date 11/17/2021
Time 6:20:17AM

Spp	S T	So Grade	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	29	19	6.5	18	.3			18									
DF		4M	30	8		8	.2			8									
DF		4M	31	17		17	.3			17									
DF		4M	32	7		7	.1			7									
DF		4M	33	11		11	.2			11									
DF		4M	34	14		14	.3			14									
DF		4M	35	18		18	.3			18									
DF		4M	36	13		13	.2			13									
DF		4M	37	7		7	.1			7									
DF		4M	38	2		2	.0			2									
DF		4M	40	33		33	.6			26	7								
DF		Totals		5,254		5,230	92.3			543	464	469	793	651	1255	737	297	21	
NF		2M	40	154	1.8	151	96.5							21	9	37	43	42	
NF		3M	36	2		2	1.1			2									
NF		3M	40	3		3	1.6			1			2						
NF		4M	12	0		0	.3					0							
NF		4M	22	1		1	.5				1								
NF		Totals		159	1.7	156	2.8			3	1	0	2	21	9	37	43	42	
RA		CR	40	14		14	100.0				14								
RA		Totals		14		14	.2				14								
WH		2M	40	214		214	79.8						8	32	107	43	24		
WH		3M	30	1		1	.5				1								
WH		3M	40	39		39	14.6				19	13	8						
WH		4M	13	1		1	.4			1									
WH		4M	16	2		2	.9			2									
WH		4M	20	4		4	1.6			4									
WH		4M	22	3		3	.9			3									
WH		4M	23	1		1	.4			1									
WH		4M	24	1		1	.4			1									
WH		4M	28	1		1	.3			1									
WH		Totals		267		267	4.7			14	20	13	15	32	107	43	24		
Total		All Species		5,694		5,668	100.0			559	499	483	810	704	1371	816	364	63	

TC PSTATS

PROJECT STATISTICS

PROJECT UNPAR

DATE 11/17/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	06	35	00U1	00MC	77.00	26	153	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	26	153	5.9		
CRUISE	26	153	5.9	8,980	1.7
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	133	93.0	20.1	115	45.7	204.6	42,978	42,762	9,125	9,125
DOUG FIR-S	4	12.8	9.4	47	2.0	6.2				
WHEMLOCK	10	7.7	19.1	84	3.5	15.4	3,198	3,198	671	671
NOB FIR	5	1.1	35.8	140	1.3	7.7	2,068	2,032	389	389
R ALDER	1	2.0	12.0	92	0.4	1.5	176	176	40	40
TOTAL	*153*	*116.6*	*19.2*	*106*	*53.7*	*235.4*	*48,420*	*48,168*	*10,225*	*10,225*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	73.4	6.4	748	799	850			
DOUG FIR-S								
WHEMLOCK	67.6	22.5	559	722	885			
NOB FIR	58.8	29.2	1,653	2,336	3,019			
R ALDER								
TOTAL	*82.9*	*6.7*	*764*	*819*	*874*	*274*	*69*	*30*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	65.0	5.6	155	164	173			
DOUG FIR-S								
WHEMLOCK	59.5	19.8	116	145	174			
NOB FIR	54.9	27.3	319	439	559			
R ALDER								
TOTAL	*74.0*	*6.0*	*157*	*167*	*177*	*218*	*55*	*24*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	60.2	12.0	82	93	104			
DOUG FIR-S	459.4	91.9	1	13	25			
WHEMLOCK	206.1	41.2	5	8	11			
NOB FIR	230.6	46.1	1	1	2			
R ALDER	509.9	102.0		2	4			
TOTAL	*66.6*	*13.3*	*101*	*117*	*132*	*185*	*46*	*21*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	39.2	7.8	189	205	221			
DOUG FIR-S	353.3	70.6	2	6	11			
WHEMLOCK	165.7	33.1	10	15	20			
NOB FIR	209.0	41.8	4	8	11			
R ALDER	509.9	102.0		2	3			
TOTAL	*34.4*	*6.9*	*219*	*235*	*252*	*49*	*12*	*5*

PROJECT STATISTICS

PROJECT UNPAR

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	06	35	00U1	00MC	77.00	26	153	S	W

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	38.9	7.8	39,432	42,762	46,092			
DOUG FIR-S								
WHEMLOCK	192.3	38.4	1,968	3,198	4,428			
NOB FIR	211.0	42.2	1,175	2,032	2,889			
R ALDER	509.9	102.0		176	356			
TOTAL	*34.5*	*6.9*	*44,847*	*48,168*	*51,488*	*49*	*12*	*5*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	38.2	7.6	8,428	9,125	9,822			
DOUG FIR-S								
WHEMLOCK	181.1	36.2	428	671	915			
NOB FIR	209.6	41.9	226	389	552			
R ALDER	509.9	102.0		40	80			
TOTAL	*32.9*	*6.6*	*9,553*	*10,225*	*10,898*	*45*	*11*	*5*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T02N R06W S35 Ty00MC 77.00

Project: UNPAR
Acres 77.00

Page 1
Date 11/17/2021
Time 6:13:56AM

Spp	S T	So Gr rd	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU														8	9		0.00	18.6
DF		2M	75	.6	32,582	32,396	2,495			40	60	1	1		98	39	16	430	2.15	75.4
DF		3M	19	.4	8,229	8,198	631		100				0	2	97	40	8	102	0.68	80.8
DF		4M	6		2,168	2,168	167		100			14	22	34	30	28	6	40	0.38	54.7
DF	**Totals**		89	.5	42,978	42,762	3,293		24	30	45	2	2	2	95	34	10	186	1.17	229.5
NF		2M	96	1.8	1,996	1,960	151			14	86				100	40	21	836	3.79	2.3
NF		3M	3		55	55	4		63	37					100	38	7	81	1.08	.7
NF		4M	1		17	17	1		100			35	65			19	9	40	0.79	.4
NF	**Totals**		4	1.7	2,068	2,032	156		3	14	83	0	1		99	37	17	590	3.06	3.4
RA		CR	100		176	176	14		100						100	27	8	45	0.37	3.9
RA	**Totals**		0		176	176	14		100						100	27	8	45	0.37	3.9
WH		2M	79		2,542	2,542	196			30	70				100	40	17	480	2.22	5.3
WH		3M	15		480	480	37		80	20			3		97	39	9	130	0.97	3.7
WH		4M	6		176	176	14		100			58	42			20	6	24	0.41	7.5
WH	**Totals**		7		3,198	3,198	246		17	27	55	3	3		94	31	10	194	1.33	16.5
Totals				0.5	48,420	48,168	3,709		23	29	48	2	2	2	95	34	10	190	1.20	253.3

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 11/17/2021

T02N R06W S35 Ty00MC 77.00

Project UNPAR
Acres 77.00

Time: 6:13:57AM
Grown Year:

Spe	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		7	2	75	38	11.513	3.08									
DF		10	4	87	74	11.283	6.15	11.28	11.9	55.0	3.82	134	621	294	103	48
DF		11	2	86	87	4.662	3.08	4.66	15.5	65.0	2.07	72	303	159	56	23
DF		12	2	88	85	3.918	3.08	5.88	13.5	53.3	2.26	79	313	174	61	24
DF		13	5	87	98	8.345	7.69	15.02	15.7	62.2	6.71	235	935	516	181	72
DF		14	4	87	103	5.757	6.15	11.51	18.4	80.0	6.05	212	921	466	163	71
DF		15	2	88	95	2.507	3.08	3.76	25.2	100.0	2.70	95	376	208	73	29
DF		16	4	88	119	4.407	6.15	9.92	23.3	102.2	6.58	231	1,014	507	178	78
DF		17	3	88	114	2.928	4.62	6.83	26.6	112.9	5.18	182	771	399	140	59
DF		18	6	87	122	5.224	9.23	12.19	31.1	127.9	10.81	379	1,558	832	292	120
DF		19	6	89	127	4.688	9.23	13.28	30.6	132.4	11.58	406	1,758	892	313	135
DF		20	9	89	129	6.347	13.85	16.22	33.7	151.7	15.58	547	2,461	1,200	421	190
DF		21	5	87	127	3.198	7.69	8.32	40.0	175.4	9.47	332	1,458	729	256	112
DF		22	9	89	137	5.245	13.85	13.99	41.8	196.3	16.65	584	2,745	1,282	450	211
DF		23	6	88	136	3.199	9.23	9.06	48.6	220.6	12.56	441	2,000	967	339	154
DF		24	6	88	135	2.938	9.23	8.81	49.2	222.2	12.35	433	1,959	951	334	151
DF		25	4	86	136	1.805	6.15	5.42	54.3	241.7	8.38	294	1,309	645	226	101
DF		26	4	87	134	1.669	6.15	5.01	57.5	257.5	8.21	288	1,289	632	222	99
DF		27	7	88	146	2.709	10.77	8.51	63.7	308.6	15.47	543	2,627	1,191	418	202
DF		28	7	87	137	2.518	10.77	7.56	68.2	318.1	14.69	515	2,403	1,131	397	185
DF		29	7	87	143	2.348	10.77	7.04	75.0	367.6	15.05	528	2,589	1,159	407	199
DF		30	9	87	143	2.821	13.85	8.46	81.6	396.7	19.68	691	3,357	1,516	532	258
DF		31	1	90	156	.294	1.54	.88	95.2	506.7	2.39	84	446	184	65	34
DF		32	6	88	143	1.653	9.23	4.96	94.1	463.3	13.30	467	2,297	1,024	359	177
DF		33	4	86	142	1.036	6.15	3.11	96.5	466.7	8.54	300	1,451	658	231	112
DF		34	3	89	155	.732	4.62	2.68	92.6	524.5	7.08	249	1,408	546	191	108
DF		35	4	89	155	.921	6.15	2.99	112.6	620.8	9.60	337	1,858	739	259	143
DF		36	2	90	146	.435	3.08	1.31	121.3	676.7	4.52	158	884	348	122	68
DF		37	1	85	141	.206	1.54	.62	119.5	593.3	2.11	74	367	162	57	28
DF		39	1	90	141	.185	1.54	.56	137.2	763.3	2.18	76	425	168	59	33
DF		40	1	86	147	.176	1.54	.53	147.3	780.0	2.22	78	413	171	60	32
DF		41	1	89	150	.168	1.54	.50	160.4	886.7	2.30	81	446	177	62	34
DF		Totals	137	86	107	105.836	210.77	210.87	43.3	202.8	260.07	9,125	42,762	20,025	7,026	3,293
WH		10	1	77	35	2.821	1.54	2.82	7.4	20.0	.67	21	56	52	16	4
WH		16	1	85	76	1.102	1.54	2.20	20.9	70.0	1.48	46	154	114	36	12
WH		20	1	86	119	.705	1.54	2.12	32.3	133.3	2.19	68	282	168	53	22
WH		21	1	92	126	.640	1.54	1.92	39.5	193.3	2.43	76	371	187	58	29
WH		24	3	93	121	1.469	4.62	4.41	50.7	246.7	7.15	224	1,087	551	172	84
WH		27	1	93	127	.387	1.54	1.16	66.7	340.0	2.48	77	395	191	60	30
WH		29	1	93	122	.335	1.54	1.01	75.7	390.0	2.44	76	392	188	59	30
WH		32	1	93	131	.275	1.54	.83	100.5	556.7	2.66	83	460	205	64	35
WH		Totals	10	85	84	7.734	15.38	16.46	40.8	194.3	21.49	671	3,198	1,655	517	246
NF		28	1	91	142	.360	1.54	1.08	72.7	340.0	1.88	79	367	145	60	28
NF		32	1	91	125	.275	1.54	.83	85.2	446.7	1.69	70	369	130	54	28
NF		36	1	88	140	.218	1.54	.65	114.9	580.0	1.80	75	379	139	58	29
NF		44	1	91	159	.146	1.54	.58	149.4	860.0	2.09	87	501	161	67	39
NF		53	1	85	146	.100	1.54	.30	259.9	1380.0	1.88	78	416	145	60	32
NF		Totals	5	90	140	1.099	7.69	3.44	113.1	590.2	9.34	389	2,032	719	300	156
RA		12	1	93	92	1.959	1.54	3.92	10.1	45.0	1.09	40	176	84	30	14
RA		Totals	1	93	92	1.959	1.54	3.92	10.1	45.0	1.09	40	176	84	30	14

TC PSTNDSUM

Stand Table Summary

Date: 11/17/2021

T02N R06W S35 Ty00MC 77.00

Project UNPAR

Acres 77.00

Time: 6:13:57AM

Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
Totals			153	86	105	116.628	235.38	234.69	43.6	205.2	291.98	10,225	48,168	22,483	7,874	3,709

TC PLOGSTVB

Log Stock Table - MBF

T02N R06W S35 Ty00MC 77.00

Project: UNPAR
Acres 77.00

Page 1
Date 11/17/2021
Time 6:13:55AM

Spp	S T	So Grade	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	14	7		7	.2						7						
DF		2M	15	10		10	.3										10		
DF		2M	18	9		9	.3								9				
DF		2M	20	2		2	.1							2					
DF		2M	25	14		14	.4										14		
DF		2M	36	13		13	.4							13					
DF		2M	40	2,454		2,440	74.1						342	417	813	596	251	21	
DF		3M	28	1		1	.0				1								
DF		3M	30	1		1	.0				1								
DF		3M	32	5		5	.2			4	1								
DF		3M	34	5		5	.1			3	2								
DF		3M	35	4		4	.1			2			2						
DF		3M	36	6		6	.2			5	2								
DF		3M	37	6		6	.2			4	2								
DF		3M	38	10		10	.3			10									
DF		3M	39	2		2	.0			2									
DF		3M	40	594		592	18.0			123	236	232							
DF		4M	12	0		0	.0				0								
DF		4M	13	1		1	.0			1									
DF		4M	14	6		6	.2			6									
DF		4M	15	5		5	.2			5									
DF		4M	16	1		1	.0				1								
DF		4M	17	3		3	.1			3									
DF		4M	18	2		2	.1			2									
DF		4M	19	1		1	.0			1									
DF		4M	20	3		3	.1			3									
DF		4M	21	5		5	.1			4	1								
DF		4M	22	2		2	.0			2									
DF		4M	24	3		3	.1			3									
DF		4M	25	8		8	.3			8									
DF		4M	26	2		2	.1			2									
DF		4M	27	1		1	.0			1									
DF		4M	28	5		5	.1			5									
DF		4M	29	7		7	.2			7									
DF		4M	30	4		4	.1			4									
DF		4M	31	15		15	.5			15									
DF		4M	32	7		7	.2			7									

TC PLOGSTVB

Log Stock Table - MBF

T02N R06W S35 Ty00MC 77.00

Project: UNPAR
Acres 77.00

Page 2
Date 11/17/2021
Time 6:13:55AM

Spp	S T	So Grt	Grade	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	33		5		5	.2			5									
DF		4M	34		12		12	.4			12									
DF		4M	35		18		18	.5			18									
DF		4M	36		13		13	.4			13									
DF		4M	37		4		4	.1			4									
DF		4M	38		2		2	.1			2									
DF		4M	40		31		31	.9			24	7								
DF		Totals			3,309		3,293	88.8			310	254	234	349	432	822	596	275	21	
NF		2M	40		154	1.8	151	96.5							21	9	37	43	42	
NF		3M	36		2		2	1.1			2									
NF		3M	40		3		3	1.6			1			2						
NF		4M	12		0		0	.3					0							
NF		4M	22		1		1	.5				1								
NF		Totals			159	1.7	156	4.2			3	1	0	2	21	9	37	43	42	
RA		CR	40		14		14	100.0				14								
RA		Totals			14		14	.4				14								
WH		2M	40		196		196	79.5						8	32	89	43	24		
WH		3M	30		1		1	.5				1								
WH		3M	40		36		36	14.5				15	13	8						
WH		4M	13		1		1	.4			1									
WH		4M	16		2		2	1.0			2									
WH		4M	20		4		4	1.8			4									
WH		4M	22		3		3	1.0			3									
WH		4M	23		1		1	.5			1									
WH		4M	24		1		1	.5			1									
WH		4M	28		1		1	.4			1									
WH		Totals			246		246	6.6			14	16	13	15	32	89	43	24		
Total		All Species			3,728		3,709	100.0			327	285	247	365	485	920	675	342	63	

TC PSTATS

PROJECT STATISTICS

PROJECT UNPAR

DATE 11/10/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	06	35	00U2	00MC	46.00	14	78	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	14	78	5.6		
CRUISE	14	78	5.6	5,917	1.3
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	73	115.4	18.2	122	48.9	208.6	42,276	42,121	9,156	9,156
DOUG FIR-S	4	12.4	13.0	62	3.2	11.4				
WHEMLOCK	1	.8	25.0	104	0.6	2.9	461	461	116	116
TOTAL	*78*	*128.6*	*17.8*	*116*	*52.8*	*222.9*	*42,737*	*42,582*	*9,272*	*9,272*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	64.5	7.5	499	539	580			
DOUG FIR-S								
WHEMLOCK								
TOTAL	*69.8*	*7.9*	*472*	*512*	*552*	*195*	*49*	*22*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	59.8	7.0	107	115	124			
DOUG FIR-S								
WHEMLOCK								
TOTAL	*65.1*	*7.4*	*102*	*110*	*118*	*169*	*42*	*19*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	38.6	10.7	103	115	128			
DOUG FIR-S	254.4	70.5	4	12	21			
WHEMLOCK	374.2	103.6		1	2			
TOTAL	*44.3*	*12.3*	*113*	*129*	*144*	*84*	*21*	*9*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	59.8	16.6	174	209	243			
DOUG FIR-S	213.9	59.3	5	11	18			
WHEMLOCK	374.2	103.6		3	6			
TOTAL	*58.4*	*16.2*	*187*	*223*	*259*	*146*	*37*	*16*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	67.6	18.7	34,233	42,121	50,008			
DOUG FIR-S								
WHEMLOCK	374.2	103.6		461	939			
TOTAL	*66.2*	*18.4*	*34,768*	*42,582*	*50,395*	*189*	*47*	*21*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	66.6	18.5	7,466	9,156	10,846			
DOUG FIR-S								

TC PSTATS

PROJECT STATISTICS

PROJECT UNPAR

DATE 11/10/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
02N	06	35	00U2	00MC	46.00	14	78	S	W

				NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
CL	68.1	COEFF							
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK		374.2	103.6		116	236			
TOTAL		*65.1*	*18.0*	*7,600*	*9,272*	*10,945*	*182*	*46*	*20*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T02N R06W S35 Ty00MC 46.00

Project: UNPAR
Acres 46.00

Page 1
Date 11/10/2021
Time 10:19:51AM

Spp	S T	So Grt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU														22	9		0.00	26.6
DF		2M	64	.4	27,246	27,138	1,248			61	39	2	1		97	39	15	326	1.69	83.2
DF		3M	31	.2	13,199	13,178	606		98	2			0	1	99	40	8	103	0.62	127.4
DF		4M	5	1.5	1,831	1,805	83		100			34	48	11	7	22	6	28	0.34	63.9
DF	**Totals**		99	.4	42,276	42,121	1,938		35	40	25	2	3	1	94	34	10	140	0.88	301.0
WH		2M	83		386	386	18				100				100	40	17	460	2.49	.8
WH		3M	17		75	75	3		100						100	40	8	90	0.96	.8
WH	**Totals**		1		461	461	21		16		84				100	40	13	275	1.73	1.7
Totals				0.4	42,737	42,582	1,959		35	39	26	2	3	1	94	34	10	141	0.89	302.7

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 11/10/2021

T02N R06W S35 Ty00MC 46.00

Project UNPAR
Acres 46.00

Time: 10:19:52AM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	3	85	70	19.402	8.57	12.93	9.0	45.0	3.32	116	582	153	54	27
DF		11	1	89	107	4.329	2.86	8.66	10.3	45.0	2.55	89	390	117	41	18
DF		12	2	89	117	7.276	5.71	10.91	13.6	63.3	4.24	149	691	195	68	32
DF		14	5	89	118	13.363	14.29	26.73	20.9	96.0	15.90	558	2,566	732	257	118
DF		15	2	89	67	4.656	5.71	4.66	23.6	105.0	3.13	110	489	144	50	22
DF		16	5	88	124	10.231	14.29	22.51	26.0	115.5	16.66	585	2,599	767	269	120
DF		17	8	90	123	14.501	22.86	29.00	25.5	111.2	21.09	740	3,226	970	340	148
DF		18	7	89	131	11.318	20.00	32.34	27.3	118.5	25.19	884	3,832	1,159	407	176
DF		19	7	89	129	10.158	20.00	29.02	30.2	130.5	24.99	877	3,787	1,150	403	174
DF		20	3	90	130	3.929	8.57	11.79	31.9	147.8	10.73	376	1,742	494	173	80
DF		21	3	90	132	3.564	8.57	10.69	36.4	173.3	11.08	389	1,853	510	179	85
DF		22	5	89	130	5.412	14.29	16.23	40.7	190.0	18.82	660	3,085	866	304	142
DF		23	4	89	135	3.961	11.43	11.88	46.5	218.3	15.76	553	2,594	725	254	119
DF		24	4	89	142	3.638	11.43	10.91	51.9	237.5	16.13	566	2,592	742	260	119
DF		25	1	87	119	.838	2.86	2.51	47.7	210.0	3.42	120	528	157	55	24
DF		26	4	88	138	3.100	11.43	9.30	57.6	268.3	15.26	535	2,495	702	246	115
DF		27	3	87	152	2.156	8.57	6.47	67.5	332.2	12.43	436	2,149	572	201	99
DF		28	3	86	147	2.005	8.57	6.01	70.7	342.2	12.11	425	2,058	557	196	95
DF		29	3	87	151	1.869	8.57	5.61	77.7	387.8	12.42	436	2,174	571	200	100
DF		30	1	86	152	.582	2.86	1.75	83.6	416.7	4.16	146	728	191	67	33
DF		31	1	86	120	.545	2.86	1.64	75.0	343.3	3.50	123	561	161	56	26
DF		33	2	87	143	.962	5.71	2.89	98.1	485.0	8.07	283	1,400	371	130	64
DF		Totals	77	88	116	127.793	220.00	274.44	33.4	153.5	260.95	9,156	42,121	12,004	4,212	1,938
WH		25	1	87	104	.838	2.86	1.68	69.1	275.0	3.71	116	461	171	53	21
WH		Totals	1	87	104	.838	2.86	1.68	69.1	275.0	3.71	116	461	171	53	21
Totals			78	88	116	128.632	222.86	276.11	33.6	154.2	264.66	9,272	42,582	12,174	4,265	1,959

TC PLOGSTVB

Log Stock Table - MBF

T02N R06W S35 Ty00MC 46.00

Project: UNPAR
Acres 46.00

Page 1
Date 11/10/2021
Time 10:19:50AM

Spp	ST	So Grade	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	16	19		19	1.0								19				
DF		2M	30	16		16	.8								16				
DF		2M	40	1,218		1,213	62.6						434	219	397	141	22		
DF		3M	29	1		1	.1				1								
DF		3M	34	2		2	.1			2									
DF		3M	35	4		4	.2			4									
DF		3M	36	2		2	.1			2									
DF		3M	38	3		3	.1			3									
DF		3M	39	12		12	.6			12									
DF		3M	40	584		583	30.1			127	209	235	11						
DF		4M	13	2		2	.1			2									
DF		4M	14	5		5	.3			5									
DF		4M	15	5		5	.3			5									
DF		4M	16	1		1	.1			1									
DF		4M	17	5		5	.2			5									
DF		4M	18	2		2	.1			2									
DF		4M	19	7		7	.3			7									
DF		4M	20	1		1	.1			1									
DF		4M	22	1		1	.0			1									
DF		4M	23	6		6	.3			6									
DF		4M	24	1		1	.1			1									
DF		4M	25	1		1	.1			1									
DF		4M	26	12		12	.6			12									
DF		4M	27	4		4	.2			4									
DF		4M	29	12	10.6	10	.5			10									
DF		4M	30	5		5	.2			5									
DF		4M	31	2		2	.1			2									
DF		4M	33	5		5	.3			5									
DF		4M	34	2		2	.1			2									
DF		4M	37	3		3	.2			3									
DF		4M	40	2		2	.1			2									
DF		Totals		1,945		1,938	98.9			233	210	235	445	219	433	141	22		
WH		2M	40	18		18	83.6								18				
WH		3M	40	3		3	16.4				3								
WH		Totals		21		21	1.1				3				18				

TC PLOGSTVB

Log Stock Table - MBF

T02N R06W S35 Ty00MC 46.00

Project: UNPAR
Acres 46.00

Date 11/10/2021
Time 10:19:50AM

Spp	ST	So Grade	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+
Total		All Species		1,966		1,959	100.0			233	214	235	445	219	451	141	22		

VOLUME SUMMARY

Unparalleled
FG-341-2022-W00867-01

November 2021

VOLUMES IN MBF

UNIT 1: MC (77 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	2,495	631	167	0	3,293
	Hidden D&B (2%)	(50)	(13)	(3)	(0)	(66)
	NET TOTAL	2,445	618	164	0	**3,227**
	% of Total	76	19	5		
Western hemlock	Cruise Volume	196	37	14	0	247
	Hidden D&B (2%)	(4)	(1)	(0)	(0)	(5)
	NET TOTAL	192	36	14	0	**242**
	% of Total	79	15	6	0	
Noble fir	Cruise Volume	151	4	1	0	156
	Hidden D&B (2%)	(3)	(0)	(0)	(0)	(3)
	NET TOTAL	148	4	1	0	**153**
	% of Total	97	2	1	0	
Red alder	Cruise Volume	0	0	0	14	14
	Hidden D&B (5%)	(0)	(0)	(0)	(1)	(1)
	NET TOTAL	0	0	0	13	**13**
	% of Total	0	0	0	100	

UNIT 2: MC (46 ACRES)

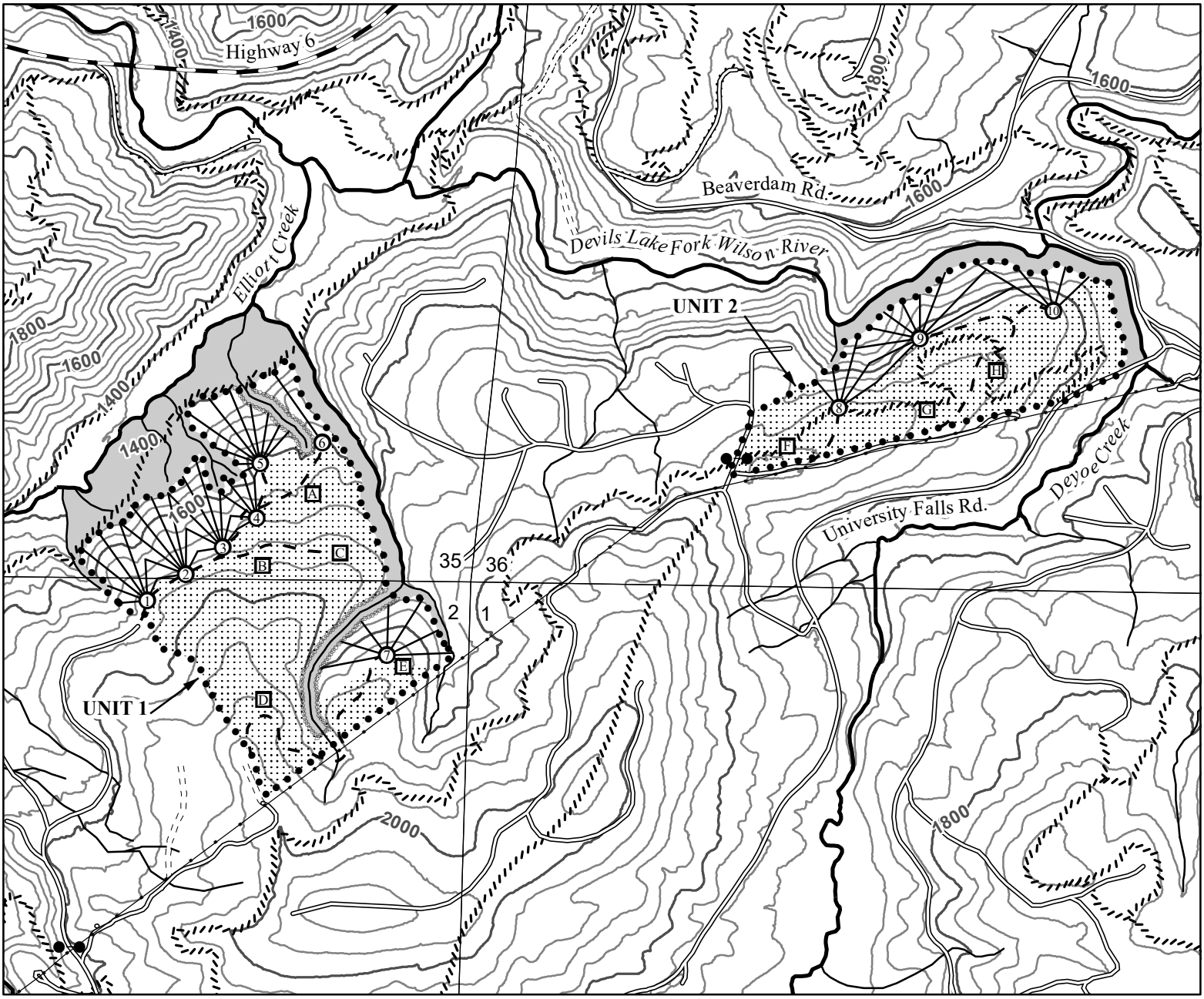
SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	1,248	606	83	0	1,937
	Hidden D&B (2%)	(25)	(12)	(2)	(0)	(39)
	NET TOTAL	1,223	594	81	0	**1,898**
	% of Total	65	31	4	0	
Western hemlock	Cruise Volume	18	3	0	0	21
	Hidden D&B (2%)	(0)	(0)	(0)	(0)	(0)
	NET TOTAL	18	3	0	0	**21**
	% of Total	86	14	0	0	

UNIT 3: R/W (1 ACRE)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	7	3	1	0	11
	Hidden D&B (2%)	(0)	(0)	(0)	(0)	(0)
	NET TOTAL	7	3	1	0	**11**
	% of Total	64	31	4	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	3,675	1,215	246	0	**5,136**
Western hemlock	210	39	14	0	**263**
Noble fir	148	4	1	0	**153**
Red alder	0	0	0	13	**13**
Total	4,033	1,258	261	13	**5,565**



Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- Paved Road
- Surfaced Road
- Unsurfaced Road
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Cable Landing
- Tractor Landing
- Cable Yarding Area
- Tractor Yarding Area
- Recreational Trail
- BPA Transmission Lines
- Gate
- Section Line
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2022-W00867-01
UNPARALLELED
PORTIONS OF SECTIONS 35 & 36, T2N, R6W, W.M.,
TILLAMOOK COUNTY, OREGON
PORTIONS OF SECTION 2, T1N, R6W, W.M.,
TILLAMOOK COUNTY, OREGON
PORTIONS OF SECTION 31, T2N, R5W, W.M.,
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
November, 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

0 500 1,000 2,000 Feet

APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	28	49
UNIT 2	13	33
UNIT 3	1	0
TOTAL	42	82