

# Sale FG-341-2023-W00888-01

District: Forest Grove Date: January 10, 2023

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,840,512.99	\$0.00	\$2,840,512.99
		Project Work:	(\$114,856.00)
		Advertised Value:	\$2,725,656.99

1/10/23



# Sale FG-341-2023-W00888-01

District: Forest Grove Date: January 10, 2023

## **Timber Description**

#### Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	20	0	98	
Western Hemlock / Fir	18	0	98	

Volume by Grade	2\$	3S & 4S 6"- 11"	Total	
Douglas - Fir	3,996	1,761	5,757	
Western Hemlock / Fir	803	455	1,258	
Total	4,799	2,216	7,015	

Comments: LOCAL POND VALUES, NOVEMBER 2022

NOBLE FIR AND OTHER CONIFERS:

STUMPAGE PRICE = POND VALUE - WESTERN HEM/FIR LOGGING COST

\$189.97 = \$644.91 - \$454.94

WESTERN REDCEDAR AND OTHER CEDARS:

STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST

\$806.15 = \$1,218 - \$411.85

RED ALDER AND OTHER HARDWOODS:

STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST

\$204.15 = \$616 - \$411.85

BRANDING AND PAINTING ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$5.00/GAL

HAULING COST ALLOWANCE = \$1,200/DAY

OTHER COSTS (WITH PROFIT & RISK ADDED): N/A

OTHER COSTS (NO PROFIT & RISK ADDED):

EQUIPMENT CLEANING: 3 PIECES @ \$1,000/PIECE = \$3,000

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS:

20 HOURS X \$150/HOUR = \$3,000

WEYERHAEUSER ROAD MAINT & ROCKWEAR FEE: \$62,333.75

STIMSON LAND & TIMBER FEE: \$6,727.26

TOTAL OTHER COSTS (NO P&R) = \$75,061.01

SLASH TREATMENT: 25 ACRES X \$250/ACRE = \$6,250

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):

MOVE IN: \$3,461.11

GENERAL ROAD MAINT: 9.37 miles X \$2,078.69 = \$19,477.32

TOTAL ROAD MAINTENANCE: \$22,938.43 / 7,015 MBF = \$3.26/MBF

1/10/23



## Sale FG-341-2023-W00888-01

District: Forest Grove Date: January 10, 2023

## **Logging Conditions**

**Combination#: 1** Douglas - Fir 69.14%

Western Hemlock / Fir 46.00%

**Logging System:** Cable: Medium Tower >40 - <70 **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: 6 bd. ft / load: 4500

cost / mbf: \$290.44

machines: Log Loader (A)

Forwarder Harvester

Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 30.86%

Western Hemlock / Fir 54.00%

Logging System: Shovel 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: 8 bd. ft / load: 4600

cost / mbf: \$145.22 machines: Forwarder

Harvester



## Sale FG-341-2023-W00888-01

District: Forest Grove Date: January 10, 2023

## **Logging Costs**

**Operating Seasons: 2.00** 

Profit Risk: 15%

Project Costs: \$114,856.00

Other Costs (P/R): \$0.00

Slash Disposal: \$6,250.00

Other Costs: \$75,061.01

#### Miles of Road

Road Maintenance:

\$3.26

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	3.0	4.6		
Western Hemlock / Fir	\$0.00	2.0	3.9		



# Sale FG-341-2023-W00888-01

District: Forest Grove Date: January 10, 2023

## **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total	
Douglas - Fir										
\$245.63	\$3.33	\$4.96	\$92.39	\$0.00	\$51.95	\$0.89	\$2.00	\$10.70	\$411.85	
Western Hemlock / Fir										
\$212.02	\$3.33	\$4.96	\$163.47	\$0.00	\$57.57	\$0.89	\$2.00	\$10.70	\$454.94	

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$863.74	\$451.89	\$0.00
Western Hemlock / Fir	\$0.00	\$644.91	\$189.97	\$0.00



# Sale FG-341-2023-W00888-01

District: Forest Grove Date: January 10, 2023

## **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	5,757	\$451.89	\$2,601,530.73	
Western Hemlock / Fir	1,258	\$189.97	\$238,982.26	

## **Gross Timber Sale Value**

**Recovery:** \$2,840,512.99

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

#### TIMBER SALE SUMMARY Two Windy #FG-341-2023-W00888-01

- 1. Location: Portions of Sections 15, 16, 21, and 22, T1S, R6W, W.M., Washington County, Oregon.
- 2. Type of Sale: This timber sale is 152 net acres of Modified Clearcut and less than 1 acre of Right-of-Way Timber removal. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF; 100% Washington County.
- 4. Sale Acreage: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcGIS Pro software.
- 5. Cruise: The timber sale was cruised by ODF Cruisers in October of 2022. For more information, see Cruise Report.
- 6. Timber Description: The Timber Sale Area consists of a well-stocked, thinned 65-year-old stand of Douglas-fir and western hemlock with minor components of red alder. These timber stands have an average of 241 ft<sup>2</sup> of basal area, an average Douglas-fir DBH of 20 inches. The estimated average net Douglas-fir volume is approximately 46.0 MBF per acre.
- 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 Unit 2. Unit 1 is 54% ground-based yarding and 46% cable-based yarding. Unit 2 is 100% cable-based yarding. Unit 3 is 100% groundbased yarding. The average cable corridor length is approximately 700 feet and the maximum is approximately 2000 feet. The average horizontal skid trail length is approximately 300 feet and the maximum is approximately 600 feet.
- 8. Access: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, proceed south on Highway 47 for 15 miles. Turn right onto Pike Road and continue for 4.5 miles. Pike Road then becomes Turner Creek Road. Continue down Turner Creek Road for 4 miles and there is a Weyerhaeuser gate that requires a key. Continue through this gate on Turner Creek Road for 4.5 miles. Turn right onto North Fork Trask River Road and continue for 1.5 miles and there is a Weyerhaeuser gate that requires a key. Continue through this gate on North Fork Trask River Road for 4.5 miles to the junction with Williams Road. Turn right on Williams Road and continue for 0.9 miles to access the southern portion of Unit 1. To access Unit 2, continue on Williams Road for 2.4 miles to Windy Point Road and turn right. Continue on Windy Point Road for 0.8 miles to a Stimson Gate that requires a key. Continue on Windy Point Road for 0.5 miles to a new construction road and turn right. Continue on spur road for 0.2 miles to Unit 2. To access Unit 3, proceed west for approximately 300 feet from the intersection of Williams Road and Windy Point Road. Turn left on a spur road and continue for 0.1 miles to Unit 3. There are gates along this route that will require a key which can be obtained at the Forest Grove District Office.

#### 9. Projects:

Project No. 1: Rocked Road Construction Project No. 2: Road Improvement

Total Credit for all Projects

\$114,856.00

\$44,092.34

\$70,763.66

#### PROJECT COST SUMMARY SHEET

Timber Sale: Two Windy
Sale Number: FG-341-2023-W00888-01

Sale Number:	FG-341-2023		
PROJECT NO. 1: ROAD CONSTRUCTION			
	Road Segment	Length	Cost
<del>-</del>	D to E	11+50	\$33,073.15
	J to K	3+50	\$3,421.09
-		15+00 stations	•
		0.28 miles	
Total Rock =			
	127 cy	1½" - 0	
	1,296 cy	4" - 0	
		Move-in =	\$3,589.71
		TOTAL PROJECT COST =	\$40,083.95
		10% FUEL ADJUSTMENT =	\$44,092.34
_	Road Segment	Length	Cost
<u>-</u>			
	A to B	116+00	\$17,358.98
	C to D	63+80	\$25,643.68
	F to G	9+50	\$6,009.23
<del>-</del>	H to I	15+60 204+90 stations	\$9,557.59
		204+90 stations 3.88 miles	
Total Rock =		3.66 miles	
i olai Rock =	144 cy	1½" - 0	
	2,775 cy	4" - 0	
	2,773 cy 12 cy	Pit-run	
	24 cy	Riprap	
		Move-in =	\$5,761.11
		TOTAL PROJECT COST =	\$64,330.59
		10% FUEL ADJUSTMENT =	\$70,763.66
	,	10707 OLL ADOUGH MENT =	ψι υ,ι υυ.υυ

TOTAL CREDITS WITH ADJUSTMENT = \$114,856.00

Timber Sale		Two Windy			Sale Number:	FG-341-2023-W00888-01	
Road Segment	:	A to B			mprovement:		stations miles
PROJECT NO. 2: ROAD IMPROVEMENT							
IMPROVEMENT							
Clearing & grubbing (scatter)	1.34	ac @	\$1,078.00	per acre =		\$1,444.52	
Clean ditch & scatter waste material	116.00	sta @	\$60.00	per sta =		\$6,960.00	
Clean culvert inlet & outlet, scatter waste	4	ea @	\$25.00	per ea =		\$100.00	
Construct settling pond	6	ea @	\$25.00	per ea =		\$150.00	
Improve turnout	10	ea @	\$33.00	per ea =		\$330.00	
Grade, ditch, & roll	116.00	sta @	\$36.00	per sta =		\$4,176.00	
CULVERTS				TOTAL I	MPROVEMEN	NT COSTS =	\$13,160.52
Culverts and Bands	_						
18" Diameter	30	LF @	\$20.00	per LF =		\$600.00	
	50 50			•		·	
30" Diameter	50	LF @	\$39.00	per LF =		\$1,950.00	
Markers & Stakes Culvert markers	6	ea @	\$10.00	per ea =		\$60.00	
	-		*******	F			
DOOK				<u>TC</u>	TAL CULVER	RT COSTS =	\$2,610.00
ROCK	_			1		1	
	Rock	Base	Haul Cost		Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Processing Cost \$/6	cy Total C1	NOCK COSt	
Subgrade rock		1	1				
Bedding and backfill	1½" - 0	\$5.27	\$4.93	\$0.50	72	\$770.40	
Energy dissipator	Riprap	\$2.16	\$4.93	\$1.60	24	\$208.56	
				Subtota	I = 96	\$978.96	
			Totals	All Rock	= 96	1	
				1½"	- 0 72		
				Ripr	ap 24	]	
					TOTAL ROC	CK COSTS =	\$978.96
EROSION CONTROL						·	
Grass seed & fertilizer	1.34	ac @	\$425.00	per ac =		\$569.50	
Straw mulch bale	4	ea@	\$10.00	per ea =		\$40.00	
				TOTAL EROS	ION CONTRO	OL COSTS =	\$609.50
				I	OTAL PROJE	ECT COST =	\$17,358.98
						-	

	SUMN	MARY OF (	CONSTRUC	CTION COST			
Timber Sale:		Two Wind	ly		Sale Number	: FG-341-202	3-W00888-01
Road Segment:		C to D		•	Improvement	: 63+80	stations
_				•		1.21	miles
PROJECT NO. 2: ROAD IMPROVEMENT							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.74	ac @	\$1,078.00	per acre =		\$797.72	
Roadside brushing	1.21		\$1,550.00	•		\$1,875.50	
Clean ditch & scatter waste material	63.80	sta @	\$60.00	per sta =		\$3,828.00	
Clean culvert inlet & outlet, scatter waste	3	ea @	\$25.00	per ea =		\$75.00	
Improve turnout	8	ea @	\$33.00	per ea =		\$264.00	
Construct roadside landing	3	ea @	\$165.00	per ea =		\$495.00	
Improve roadside landing	1	ea @	\$82.50	per ea =		\$82.50	
Grade, ditch, & roll	63.80	sta @	\$36.00	per sta =		\$2,296.80	
				TOTAL	IMPROVEME	NT COSTS =	\$9,714.52
ROCK	<b>-</b>					-	
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost	\$/cy Total CY	Rock Cost	
Subgrade rock							
Subgrade reinforcement	Pit-run	\$1.36	\$6.29	\$0.75	12	\$100.80	
	I.	, ,		Subto		\$100.80	
Surfacing rock					<u> </u>		
Surfacing rock	4" - 0	\$1.35	\$6.29	\$1.22	1,271	\$11,261.06	
Junction	4" - 0	\$1.35	\$6.29	\$1.22	36	\$318.96	
Turnout	4" - 0	\$1.35	\$6.29	\$1.22	112	\$992.32	
Roadside landing	4" - 0	\$1.35	\$6.29	\$1.22	332	\$2,941.52	
				Subto	otal = 1,751	\$15,513.86	
			Totals	All Ro	ck = 1,763	1	
			Totals		4" - 0 1,751	-	
					it-run 12		
					11-1411 12		
					TOTAL RO	CK COSTS =	\$15,614.66
EROSION CONTROL							
Grass seed & fertilizer	0.74	ac @	\$425.00	per ac =		\$314.50	
				TOTAL ERO	SION CONTR	OL COSTS =	\$314.50
					TOTAL PROJ	ECT COST =	\$25,643.68

	SUMM	ARY OF CC	NSTRUCT	ION COST			
Timber Sale:		Two Windy		S	Sale Number:	FG-341-202	23-W00888-01
Road Segment:		D to E			Construction:	11+50	stations
-				=	- -	0.22	miles
PROJECT NO. 1: ROAD CONSTRUCTIO	N						
CONSTRUCTION							
Clearing & grubbing (scatter)	1.33	ac @	\$1,078.00	per ac =		\$1,433.74	
Balanced road construction	10.10	sta @		per sta =		\$1,111.00	
<b>Drift</b>	1.40	sta @		•		\$252.00	
Y" Junction Full Bench Road Construction	(0+00 too 1+	20)	·	•		•	
Excavate & load	` 506	cy @	\$1.64	per cy =		\$829.84	
Haul to Waste Area No. 1	658	cy @	\$2.27	per cy =		\$1,493.66	
Shape and compact waste material	658	cy @	\$0.30	per cy =		\$197.40	
Full Bench Road Construction (3+40 to 8+5		٥, ٥	ψ0.00	po. 0)		Ψ.σσ	
Excavate & load	2,782	cy @	\$1.64	per cy =		\$4,562.48	
Haul to Waste Area No. 1	3,617	cy @		per cy =		\$9,295.69	
Shape and compact waste material	3,617	cy @		per cy =		\$1,085.10	
Furnout	2	ea @		per cy = per ea =		\$1,000.10	
Furnaround	1			•			
		ea @		per ea =		\$82.50	
Landing	1	ea @		per ea =		\$314.00	
Grade, ditch, & roll	11.50	sta @	\$36.00	per sta =	-	\$414.00	_
				TOTAL	CONSTRUCT	TION COSTS =	\$21,203.41
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 CULV	ERT COSTS =	\$1,220.00
ROCK							
		_		Placement/	,		]
	Rock Size	Base	Haul Cost	Processing		Rock Cost	
		Cost \$/cy	\$/cy	Cost \$/cy			
Surfacing rock		1	I				_
Base rock	4" - 0	\$1.35	\$6.50	\$1.22	747	\$6,775.29	
Traction rock	1½" - 0	\$1.35	\$6.50	\$1.22	127	\$1,151.89	
Turnout	4" - 0	\$1.35	\$6.50	\$1.22	58	\$526.06	1
Turnaround	4" - 0	\$1.35	\$6.50	\$1.22	20	\$181.40	1
Landing	4" - 0	\$1.35	\$6.50	\$1.22	180	\$1,632.60	
3			*	Subtota		\$10,267.24	i
							_
			Totals	All Rock			
				1½"			
				4" -	- 0 1,005		
					TOTAL	OCK COSTS	¢10.067.0
					TOTALR	OCK COSTS =	\$10,267.24
EROSION CONTROL	•						
Grass seed & fertilizer	0.67	ac @	\$500.00	per ac =		\$332.50	
Straw mulch (bale)	5	ea @	\$10.00	per ea =		\$50.00	
				TOTAL ERG	OSION CONT	ROL COSTS =	\$382.50
					TOTAL PRO	JECT COST =	\$33,073.15
					TOTAL FRO		ψου,στο. Τ

Improve turnout	Timber Sale:		Two Wind	ły	Sal	e Number:	FG-341-202	23-W00888-01
MPROJECT NO. 2: ROAD IMPROVEMENT	Road Segment:		F to G		Imp	rovement:	9+50	stations
MPROVEMENT   Clearing & grubbing (scatter)   0.11   ac @ \$1,078.00 per acre = \$118.580					_		0.18	miles
Clearing & grubbing (scatter)	PROJECT NO. 2: ROAD IMPROVEMENT							
Clearing & grubbing (scatter)	IMPROVEMENT							
Roadside brushing		0.11	ac @	\$1.078.00	per acre =		\$118.580	
Clean ditch & scatter waste material   9.50   sta		0.18						
Construct turnaround	Clean ditch & scatter waste material	9.50					\$570.000	
Improve landing	Improve turnout	1	ea @	\$33.00	per ea =		\$33.000	
Grade, ditch, & roll         9.50         sta @ \$36.00         per sta = \$342.000         \$1,582.080           CULVERTS           Culverts and Bands 18" Diameter         30         LF @ \$20.00         per LF = \$600.00         \$600.00           Markers & Stakes Culvert markers         1         ea @ \$10.00         per ea = \$10.00         \$10.00           ROCK         ROCK         TOTAL CULVERT COSTS = \$610.00           Subgrade rock         Bedding and backfill         1½" - 0         \$5.27         \$5.98         \$0.50         24         \$282.00           Surfacing rock         4" - 0         \$1.35         \$5.98         \$1.22         294         \$2,513.70           Turnaround         4" - 0         \$1.35         \$5.98         \$1.22         14         \$119.70           Turnaround         4" - 0         \$1.35         \$5.98         \$1.22         14         \$119.70           Landing         4" - 0         \$1.35         \$5.98         \$1.22         90         \$769.50           EROSION CONTROL         Grass seed & fertilizer         0.11         ac @ \$425.00         per ac =\$46.75        \$46.75        \$46.75	Construct turnaround	1	ea@	\$82.50	per ea =		\$82.500	
CULVERTS   CUlverts and Bands   18" Diameter   30	Improve landing	1	ea@	\$157.00	per ea =		\$157.000	
CULVERTS           Culverts and Bands         18" Diameter         30         LF @ \$20.00 per LF =         \$600.00           Markers & Stakes         1         ea @ \$10.00 per ea =         \$10.00           ROCK         TOTAL CULVERT COSTS = \$610.00           ROCK         Rock Size Cost \$/cy   Placement/	Grade, ditch, & roll	9.50	sta @	\$36.00	per sta =		\$342.000	
CULVERTS           Culverts and Bands         18" Diameter         30         LF @ \$20.00 per LF =         \$600.00           Markers & Stakes         1         ea @ \$10.00 per ea =         \$10.00           ROCK         TOTAL CULVERT COSTS = \$610.00           ROCK         Rock Size Cost \$/cy   Placement/					TOTAL IMPE	ROVEMEN	T COSTS =	\$1 582 080
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         Base Cost \$/cy         Haul Cost Placement/ Processing Cost \$/cy         Total CY Rock Cost           Subgrade rock           Bedding and backfill         1½" - 0         \$5.27         \$5.98         \$0.50         24         \$282.00           Surfacing rock           Surfacing rock         4" - 0         \$1.35         \$5.98         \$1.22         294         \$2,513.70           Turnout         4" - 0         \$1.35         \$5.98         \$1.22         14         \$119.70           Turnout         4" - 0         \$1.35         \$5.98         \$1.22         14         \$119.70           Turnout         4" - 0         \$1.35         \$5.98         \$1.22         19         \$769.50           Landing         4" - 0         \$1.35         \$5.98         \$1.22         10         \$85.50           Totals         All Rock = 432         1½" - 0         24	CULVERTS				101712 11111 1	<del>(OVEIVIEIT</del>		ψ1,002.000
18" Diameter   30		•						
Markers & Stakes   Culvert markers   1   ea @ \$10.00   per ea =   \$10.00		30	LF @	\$20.00	per LF =		\$600.00	
Rock   Size   Cost \$/cy   \$/cy   Processing Cost \$/cy   Total CY   Rock Cost	Markers & Stakes		_	,			*	
Rock   Size   Cost \$/cy   Placement/   Processing Cost \$/cy   Total CY   Rock Cost	Culvert markers	1	ea @	\$10.00	per ea =		\$10.00	
Rock   Size   Cost \$/cy   Placement/   Processing Cost \$/cy   Total CY   Rock Cost								
Rock   Base   Haul Cost   Placement/   Processing Cost \$/cy   Total CY   Rock Cost					TOTAL	CULVER	T COSTS =	\$610.00
Size   Cost \$/cy   \$/cy   Processing Cost \$/cy   Footal CY   Rock Cost	ROCK						_	
Size   Cost \$/cy   \$/cy   Processing Cost \$/cy   Footal CY   Rock Cost								
Size   Cost \$/cy   S/cy   Processing Cost \$/cy						Total CY	Rock Cost	
Surfacing rock   Surf		Size	Cost \$/cy	\$/cy	Processing Cost \$/cy	. otal o i	Trook Goot	
Subtotal =   24   \$282.00	Subgrade rock		I	I	L	1	<u> </u>	
Surfacing rock	Bedding and backfill	1½" - 0	\$5.27	\$5.98	\$0.50	24	\$282.00	
Surfacing rock       4" - 0       \$1.35       \$5.98       \$1.22       294       \$2,513.70         Turnout       4" - 0       \$1.35       \$5.98       \$1.22       14       \$119.70         Turnaround       4" - 0       \$1.35       \$5.98       \$1.22       10       \$85.50         Landing       4" - 0       \$1.35       \$5.98       \$1.22       90       \$769.50         Subtotal = 408       \$3,488.40     Totals  All Rock = 432  1½" - 0 24  4" - 0 408  TOTAL ROCK COSTS = \$3,770.40  EROSION CONTROL  Grass seed & fertilizer  0.11 ac @ \$425.00 per ac = \$46.75  TOTAL EROSION CONTROL COSTS = \$46.75  TOTAL EROSION CONTROL COSTS = \$46.75		-	•	•	Subtotal =	24	\$282.00	
Turnout 4"-0 \$1.35 \$5.98 \$1.22 14 \$119.70 Turnaround 4"-0 \$1.35 \$5.98 \$1.22 10 \$85.50 Landing 4"-0 \$1.35 \$5.98 \$1.22 90 \$769.50  Totals All Rock = 432 1½"-0 24 4"-0 408  EROSION CONTROL  Grass seed & fertilizer 0.11 ac @ \$425.00 per ac = \$46.75  TOTAL EROSION CONTROL COSTS = \$46.75	Surfacing rock							
Turnaround 4" - 0 \$1.35 \$5.98 \$1.22 10 \$85.50 Landing 4" - 0 \$1.35 \$5.98 \$1.22 90 \$769.50  Subtotal = 408 \$3,488.40  Totals All Rock = 432 1½" - 0 24 4" - 0 408  EROSION CONTROL  Grass seed & fertilizer 0.11 ac @ \$425.00 per ac = \$46.75  TOTAL EROSION CONTROL COSTS = \$46.75	Surfacing rock		\$1.35	\$5.98	\$1.22	294	\$2,513.70	
Landing	Turnout					_		
Subtotal =   408   \$3,488.40     Totals								
Totals  All Rock = 432  1½" - 0 24  4" - 0 408   TOTAL ROCK COSTS = \$3,770.40  EROSION CONTROL  Grass seed & fertilizer  0.11 ac @ \$425.00 per ac = \$46.75  TOTAL EROSION CONTROL COSTS = \$46.75	Landing	4" - 0	\$1.35	\$5.98	· .			
1½" - 0   24     4" - 0   408					Subtotal =	408	\$3,488.40	
1½" - 0   24     4" - 0   408						1 400	1	
# 4" - 0 408    TOTAL ROCK COSTS = \$3,770.40				Totals				
TOTAL ROCK COSTS = \$3,770.40								
EROSION CONTROL  Grass seed & fertilizer  0.11 ac @ \$425.00 per ac =\$46.75					4" - (	408	]	
EROSION CONTROL  Grass seed & fertilizer  0.11 ac @ \$425.00 per ac =\$46.75					TC	TAL BOC	K COSTS -	¢2 770 40
Grass seed & fertilizer 0.11 ac @ \$425.00 per ac = \$46.75  TOTAL EROSION CONTROL COSTS = \$46.75	EDGGLOV GOVERNO				<u>10</u>	TAL ROC	1.00313=	φυ,ττυ.40
TOTAL EROSION CONTROL COSTS = \$46.75			_	<b>0.40</b> = 0.5			<b>0.40</b> ==	
	Grass seed & fertilizer	0.11	ac @	\$425.00	per ac =		\$46.75	
					TOTAL EROSION	CONTRO	L COSTS =	\$46.75
<u>TOTAL PROJECT COST = \$6,009.23</u>								ψ.σ., σ
101AL PROJECT COST = \$6,009.23					TOT	VI DDQ !=	OT 000T	<b>#</b> C 000 00
					<u>1017</u>	AL PROJE	<u> </u>	\$6,009.23

Timber Sale:		Two Wind	.,		Sale Number:	EC 241 202	2 11100000 0
		H to I	цу	-			
Road Segment:		пюі		-	Improvement	0.30	stations miles
PROJECT NO. 2: ROAD IMPROVEMENT						0.00	Times
MPROVEMENT							
Clearing & grubbing (scatter)	0.18	ac @	\$1,078.00	per acre =		\$194.04	
Roadside brushing	0.30		\$1,100.00	•		\$330.00	
Clean ditch & scatter waste material	15.60	sta @		per sta =		\$936.00	
Clean culvert inlet & outlet, scatter waste	2	ea @		per ea =		\$50.00	
Improve turnout	2	ea @		per ea =		\$66.00	
Improve turnaround	1	ea @		•		\$41.25	
Construct roadside landing	1	ea @				\$165.00	
Grade, ditch, & roll	15.60	sta @		per sta =		\$561.60	
Orado, ditori, di fori	10.00	ola e	ψου.σσ	•	IMPROVEMEN	,	¢0 242 00
CULVERTS				IOTAL	<u>. IMPROVEMEN</u>	11 00313 =	\$2,343.89
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	
				•			
				٦	OTAL CULVER	T COSTS =	\$1,220.00
ROCK				<del>-</del>			+ ,
	- 	1	l	1	<u> </u>	1	
	Rock	Base	Haul Cost	Placement	/	Deels Coot	
	Size	Cost \$/cy	\$/cy	Processing Cos	t \$/cy	Rock Cost	
Cubanada nadi							
Subgrade rock  Bedding and backfill	1½" - 0	<b>₾E 07</b>	<b>ተ</b> ራ 00	<b>\$0.50</b>	40	<b>\$560.00</b>	
bedding and backlill	1/2 - 0	\$5.27	\$6.08	\$0.50	48 total = 48	\$568.80	
Companies mank	1			Sub	total = 48	\$568.80	
Surfacing rock	411 0	04.05	<b>#0.00</b>	<b>0.4.00</b>	400	M 4 4 7 7 0 5	
Surfacing rock	4" - 0	\$1.35	\$6.08	\$1.22	483	\$4,177.95	
Turnout	4" - 0	\$1.35	\$6.08	\$1.22	28	\$242.20	
Turnaround	4" - 0	\$1.35	\$6.08	\$1.22	10	\$86.50	
Roadside landing	4" - 0	\$1.35	\$6.08	\$1.22	95	\$821.75	
				Sub	total = 616	\$5,328.40	
			Totals	All R	ock = 664	1	
			Totalo		1/2" - 0 48	1	
				'	4" - 0 616	1	
					4 - 0 010		
					TOTAL ROC	K COSTS =	\$5,897.20
EROSION CONTROL	_					- <u>-</u>	
Grass seed & fertilizer	0.18	ac @	\$425.00	per ac =		\$76.50	
Straw mulch bale	2	ea@	\$10.00	per ea =		\$20.00	
				TOTAL EDG	NOION CONTRO	N COCTC	<b>#</b> 00 F0
				TOTAL ERC	SION CONTRO	<u> </u>	\$96.50
					TOTAL 222:	OT 000T	Φ0 F57 F0
					TOTAL PROJE	CLCOST=	\$9,557.59

				711014 0031			
Timber Sale:		Two Wind	dy	_	e Number:		23-W00888-01
Road Segment:		J to K		_ Co	nstruction:		stations
					,	0.07	miles
PROJECT NO. 1: ROAD CONSTRUCTIO	N						
CONSTRUCTION							
Clearing & grubbing (scatter)	0.41	ac @	\$1,078.00	per ac =		\$441.98	
Balanced road construction	1.90	sta @	\$110.00	per sta =		\$209.00	
Drift	1.60	sta @	\$180.00	per sta =		\$288.00	
Grade, ditch, & roll	3.50	sta @	\$36.00	per sta =		\$126.00	
				TOTAL COM	NCTDI ICTI	ON COSTS =	<b>-</b> \$1,064.98
ROCK				TOTAL COL	NSTRUCTI	<u> </u>	\$1,064.96
ROOK			1	T			7
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy	\$/cy	Processing	Total CY	Rock Cost	
		·		Cost \$/cy			]
Surfacing rock				T			7
Base rock	4" - 0	\$1.35	\$5.14	\$1.22	227	\$1,750.17	
Curve widening	4" - 0	\$1.350	\$5.140	\$1.220	64	\$493.44	
				Subtotal =	291	\$2,243.61	J
			T. ().	All Deal	004	1	
			Totals	All Rock = 4" - 0			
				4" - 0	291		
				:	TOTAL RO	CK COSTS =	\$2,243.61
EROSION CONTROL							
Grass seed & fertilizer	0.21	ac @	\$500.00	ner ac -		\$102.50	
Straw mulch (bale)	1	ea @	\$10.00	per ac =		\$102.30	
Straw mulch (bale)	1	ea w	φ10.00	per ea =	,	\$10.00	-
				TOTAL EROSIO	ON CONTR	OL COSTS =	\$112.50
						_	
				<u>TO</u>	TAL PROJ	ECT COST =	\$3,421.09

Timber Sale: Two Windy Sale Number: FG-341-2023-W00888-01

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

Equipment	Total
Brush Cutter	\$829.93
Grader	\$1,301.28
Loader (Med. & Large)	\$1,133.02
Roller (smooth/grid) & Compactor	\$829.93
Excavator (Large) - Equipment Cleaning	\$2,301.28
Dozer (Large) - Equipment Cleaning	\$2,345.86
Dump Truck (10cy +)	\$609.52

TOTAL MOVE-IN COSTS = \$9,350.82

#### **QUARRY DEVELOPMENT & CRUSHING COST SUMMARY**

Timber Sale: Two Windy Sale Number: FG-341-2023-W00888-01 Stockpile Name: Barney Stockpile & Quarry 4" - 0: 4,071 cy (truck measure) Pit-run: 12 cy (truck measure) Riprap: 24 cy (truck measure) Total truck yardage: 4,107 cy

Move-in & within area move Move in excavator \$1,074.16 Move in loader \$939.03 Move in Dump Trucks \$262.72 Subtotal = \$2,275.91 Per CY = \$0.55/cy 4"-0 Base Cost Load dump truck \$0.80 4,071 / cy x \$3,256.80 cy = Subtotal = \$3,256.80 Per CY = \$0.79 Pit-run Base Cost Load dump truck \$0.80 / cy x 12 cy = \$9.60 Subtotal = \$9.60 Per CY = \$0.80 Riprap Base Cost Load dump truck \$1.60 / cy x 24 cy = \$38.40 Subtotal = \$38.40 Per CY = \$1.60

4"-0 Cost = \$1.35/cy
Pit-Rrun Cost = \$1.36/cy
Riprap Cost = \$2.16/cy

#### **QUARRY DEVELOPMENT & CRUSHING COST SUMMARY**

Timber Sale: Two Windy
Sale Number: FG-341-2023-W00888-01 Stockpile Name: Trask 5.5 Stockpile 1 1/2" - 0: <u>271 cy</u> (truck measure) Total truck yardage: 271 cy Within area Move-in Move in loader \$945.88 Move in Dump Trucks \$263.33 Subtotal = \$1,209.21 Per CY = \$4.46/cy 1 1/2"-0 Base Cost Load dump truck \$0.80 / cy x 271 cy = \$216.80 Subtotal = \$216.80 Per CY = \$0.80

1 1/2"-0 Cost = **\$5.27/cy** 

#### CRUISE REPORT Two Windy #FG-341-2023-W00888-01

#### 1. LOCATION:

Portions of Sections 15, 16, 21, and 22, T1S, R6W, W.M., Washington County, Oregon.

#### 2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 53%, average stand diameter of 18 inches, sampling error (SE) of 9% and a minimum of 100 grade trees.

#### 3. SAMPLING METHOD:

The Timber Sale Area was cruised in October of 2022 with 34 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 6 chain x 6 chain grid for Unit 1 and 7 chain x 6 chain grid for Unit 2. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

#### 4. CRUISE RESULTS:

209 trees were measured and graded producing a sampling error of 8.6% on the Douglas-fir Basal Area. The sampling error of Douglas-fir Net Board Foot Volume is 8.4%.

#### 5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following the Official Log Scaling and Grading Rules as adopted by the NW Log Rules Advisory Group. Forty-foot segments were favored.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six-inch top.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors: 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 SuperAce 2008 cruise software.
- Deductions: The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted.
- **7. CRUISERS:** The sale was cruised by ODF cruisers Adrian Torres, Mark Savage, and Colton Turner.

Prepared by:	Adrian Torres	11-17-2022
Reviewed by:	Mark Savage	11-17-2022
, <u> </u>		Date

TC PSTA	ATS					PROJEC PROJEC			TICS OWINDY			PAGE DATE	1 11/1/2022
WP	RGE	SC	TRACT	1	TYPE			ACI	RES	PLOTS	TREES	CuFt	BdFt
01S 01S	06 06W	15 16	00U2 00U1		00MC 00MC	Comt	sined		152.00	34	220	S	W
						TRE	ES	1	ESTIMATED TOTAL		PERCENT SAMPLE		
			PLOTS	TREES		PER P			TREES		TREES		
TOTAL	L		34	220		6	5.5						
CRUIS	SE		34	220		6	5.5		20,659		1.1		
	COUNT												
REFOR													
COUN													
BLAN 100 %													
100 70						STAND SU	IMMAR						
		S	AMPLE	TREES	AVO			REL	BASAL	GROSS	NET	GROSS	NET
			TREES	/ACRE	DBH	H LE	EN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG	FIR		177	95.2		19.7	117	45.3	200.9	38,605	38,526	8,656	8,656
DOUG			11	17.5		11.2	66	3.6	12.1				
	MLOCK		32	23.3		17.8	114	9.5	40.3	8,445		1,855	1,855
ТОТА	L		220	135.9		18.5	110	58.9	253.3	47,050	46,971	10,510	10,510
CONF			IITS OF THE		. Wo-	D 4D ****	DE	–	ID 0 1 2 2 2 2 2	nne-			
	68	8.1	TIMES OUT	OF 100 TH	. VOLU	ME WILL	BE MIL	HIN TH	IE SAMPLE E	KROR			
CL	68.1		COEFF				MPLE TI				# OF TREES R	**************************************	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW		VG	HIGH		5	10	1
DOUG			64.5	4.8		566		595	624				
DOUG	MLOCK		40.4	7.1		419		451	483				
TOTA			69.0	4.6		519		545	570		190	48	2
CL	68.1		COEFF			SAN	MPLE TI	REES -	CF		# OF TREES R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW	A'	VG	HIGH		5	10	1
DOUG			57.9	4.3		125		131	137				
DOUG			26.0			00		00	10.5				
TOTA	MLOCK		36.8 63.0	6.5 4.2		92 115		99 120	105 125		159	40	1
0.0000000000000000000000000000000000000			100000000000000000000000000000000000000	4.2					123				
CL	68.1		COEFF	0.504			EES/ACI				# OF PLOTS R		INF. POP.
SD: DOUG	1.0		VAR.% 76.2	S.E.% 13.1		LOW 83		VG 95	HIGH 108		5	10	1
	FIR-S		352.3	60.4		7		93 17	28				
	MLOCK		230.1	39.4		14		23	32				
TOTA			73.6	12.6		119		136	153		216	54	2
CL	68.1		COEFF			BAS	SAL ARI	EA/ACI	RE		# OF PLOTS R	REO.	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW		VG	HIGH		5	10	1
DOUG	FIR		50.5	8.6		184		201	218				
	FIR-S		271.9	46.6		6		12	18				
	MLOCK		204.2	35.0		26		40	54		10	10	
ТОТА			31.6	5.4		240		253	267		40	10	
CL SD:	68.1 1.0		COEFF VAR.%	S.E.%		NE'	Γ BF/AC	RE VG	HIGH		# OF PLOTS R 5	EQ. 10	INF. POP.
DOUG			49.2	8.4		35,279		,526	41,773			10	1
	FIR-S					10000E000000							
	MLOCK		203.4	34.9		5,501		445	11,389				
TOTA	L		31.4	5.4		44,446	46,	971	49,495		39	10	-
CL	68.1		COEFF			NE	r cuft	FT/AC	RE		# OF PLOTS R	EQ.	INF. POP.
an	1.0		VAR.%	S.E.%		LOW	A'	VG	HIGH		5	10	1
SD: DOUG			48.9	8.4		7,930		656	9,381				

TC PST	ATS			i.e	PROJEC <sup>*</sup> PROJECT		STICS OWINDY			PAGE DATE	2 11/1/2022
TWP	RGE	SC	TRACT	ТҮРЕ		AC	CRES	PLOTS	TREES	CuFt	BdFt
01S 01S	06 06W	15 16	00U2 00U1	00MC 00MC			152.00	34	220	S	W
CL	68.1		COEFF		NET C	CUFT FT/AC	Service Co.		# OF PLOT		INF. POP
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
WHE	MLOCK		201.8	34.6	1,213	1,855	2,496				
TOTA	AL		30.4	5.2	9,963	10,510	11,058		37	9	4

TC	PSPCSTGR		SI	oecies, S	ort Gra	de - Board Fo	oot V	'olum	es (Pr	oject	)								
	S R06W S15 T S R06W S16 T			42.00		Project: Acres	TV	VOWI 152.0								Page Date Time		1 /1/202 :12:17	
		%					Per	cent of N	let Boar	d Foot	Volume					Avera	ge Lo	3	Logs
	S So Gr	Net	Bd. Ft.	per Acre		Total		Log Sca	ale Dia.			Log I	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	CU														13	8		0.00	29.7
DF	2M	69	.2	26,807	26,743	4,065			58	42	0		0	99	40	15	361	1.91	74.0
DF	3M	25	.2	9,747	9,732	1,479		99	1			0	2	98	40	8	110	0.70	88.6
DF	4M	6		2,051	2,051	312		100			14	38	21	27	26	6	36	0.39	56.3
DF	Totals	82	.2	38,605	38,526	5,856		30	40	29	1	2	2	95	33	10	155	1.04	248.6
S/ YOMOUN	9000H170																•••		
WH	2M	63		5,394	5,394	820		0.6	88	12				100 99	40	14 9	301 117	1.54 0.72	17.9 22.3
WH	3M	31		2,613 439	2,613 439	397 67		96 100	4		29	49	22	99	21	6	28	0.72	15.8
WH	4M	6		439	439	67	_	100			29	47	22		21	U	20	0.33	15.0
WH	Totals	18		8,445	8,445	1,284		35	57	8	1	3	1	95	35	10	151	0.96	56.0
Total	ls		0.2	47,050	46,971	7,140		31	43	25	1	2	2	95	34	10	154	1.03	304.6

TC I	PSTNDSU	JM				S	Stand T	Table Si	ımmary				Page Date:	1 11/1/2	022
		5 Ty00MC 6 Ty00MC		42. 110.			Project Acres	Т	WOWINI 152.0				Time: Grown Year:		18AM
S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	5	1	88	88	7.369	1.00									
OF	7	1	86	70	3.760	1.00									
OF	8	1	85	66	2.878	1.00	34								
OF .	10	3	88	84	5.992	3.27	7.83	9.9	48.2	2.22	78	378	337	11	3
OF .	11	2	87	74	3.430	2.26	3.43	14.3	61.1	1.40	49	210	213	7	5
OF	12	3	84	62	4.161	3.27	1.60	8.8	40.0	.40	14	64	61	2	1
)F	13	4	91	79	4.360	4.02	6.54	15.4	68.3	2.88	101	447	438	15	4
)F	14	6	90	90	6.589	7.04	10.82	18.8	82.0	5.79	203	887	880	30	9
DF	15	8	88	106	7.377	9.05	12.70	22.4	98.7	8.12	285	1,254	1,234	43	3
DF	16	7	88	100	5.764	8.05	10.09	25.5	108.9	7.33	257	1,099	1,115	39	1

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

35

36

37

40

Totals

8

15

16

17

18

19

20

21

22

23

24

Totals

DF

DF DF

DF

DF

DF DF

DF DF

WH

WH

WH

WH

WH WH

WH

WH

WH

WH

WH WH

Totals

8

8

13

12

14

7

16

13

7

11

7

8

5

7

4

3

4

2

1

1

1

188

1

3

2

2

3

5

1

7

4

3

1

32

220

88 118

87 119

88 124

87 127

88

86 123

87

86 129

85 126

85 139

86 137

87 139

85 143

86 137

86 139

84 150

88 140

57 30

85 149

86 145

85 138

87 109

87 56

93

92 121

90 126

90 119

87 119

93 130

89 129

87 135

91 129

90 145

89 114

87 110

119

134

132

5.422

5.410

7.150

6.341

6.693

2.857

6.452

4.643

2.361

3.480

2.088

2.117

1.372

1.640

.864

.585

.719

.377

.142

.135

.115

112.642

3.606

3.077

1.803

1.597

2.137

3.196

.577

3.663

1.907

1.309

.401

23.271

135.913

8.55

9.56

14.08

13.83

16.10

7.54

18.61

14.58

8.05

12.83

8.30

9.05

6.29

8.05

4.53

3.27

4.27

2.52

1.00

1.00

1.00

1.26

3.78

2.52

2.52

3.78

6.29

1.26

8.81

5.03

3.78

1.26

40.27

253.28

213.01

10.84

12.25

19.66

18.45

19.14

7.62

18.92

13.29

6.20

10.44

6.26

6.12

4.12

4.92

2.59

1.76

2.16

.43

.40

.35

218.91

3.61

6.15

4.51

4.79

5.70

7.67

1.73

10.99

5.72

3.93

1.20

55.99

274.91

30.6

31.9

30.5

32.5

39.0

41.8

45.3

48.5

53.7

58.1

62.4

69.4

74.6

78.3

83.8

94.0

99.1

121.8

85.4

141.7

39.5

5.1

26.6

25.6

25.0

28.7

35.7

36.2

39.0

43.9

48.0

58.1

33.1

38.2

127.1

130.3

126.5

136.2

180.3

177.0

201.9

211.5

235.2

258.4

279.5

333.8

351.3

368.1

398.5

442.3

497.8

623.3

450.0

726.7

176.0

30.0

125.0

116.0

108.3

121.2

149.2

180.0

182.4

199.2

230.0

276.7

150.8

170.9

9.47

11.14

17.09

17.10

21.29

9.08

24.44

18.38

9.48

17.27

11.15

12.09

8.75

10.97

6.19

4.70

6.10

1.48

.98

1.40

.59

5.23

3.69

3.83

5.24

8.75

2.01

13.72

8.04

6.03

2.23

59.36

306.04

246.68

332

391

600

600

747

319

857

645

333

606

391

424

307

385

217

165

214

52

34

49

18

163

115

120

164

274

63

429

251

189

70

1,855

10,510

8,656

1,378

1,596

2,487

2,513

3,450

1,348

3,820

2,810

1,458

2,697

1,751

2,041

1,446

1,811

1,032

776

1,074

266

182

251

108

769

523

519

691

1,144

312

2,004

1,139

903

333

8,445

46,971

38,526

1,439

1,693

2,598

2,599

3,236

1,380

3,714

2,793

1,441

2,625

1,694

1,838

1,330

1,668

941

715

927

225

149

212

89

795

560

582

797

1,331

305

2,085

1,222

917

340

9,022

46,518

37,496

505

594

912

912

1,135

484

1,303

980

506

921

594

645

467

585

330

251

325

79

52

74

28

248

175

182

249

416

95

652

382

287

106

2,819

15,976

13,156

209

243

378

382

524

205

581

427

222

410

266

310

220

275

157

118

163

40

28

38

16

117

79

79

105

174

47

305

173

137

51

1,284

7,140

5,856

			-											Time	/:	12:10A	IVI
S		Log	Gross	Def Net	%							r in Inch					
Ѕрр Т	rt de	Len	MBF	% MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	2M	20	l	15	l .										15		
DF	2M	32	l .	11	1							11					
DF	2M	40	4,048	4,039	69.0						978	1037	1278	617	128		
DF	3M	29	2	2	.0			2									
DF	3М	30	2	2	.0			2									
DF	3M	32	4	4	.1				2	2	2						
DF	3M	33	7	7	.1			7									
DF	3M	34	2	2	.0			2									
DF	3M	35	11	11	.2			9	2								
DF	3M	36	4	4	.1			4									
DF	3M	37	28	28	.5			28									
DF	3M	38	20	20	.3			20									
DF	3M	39	11	11	.2			9	2								
DF	3M	40	1,391	1,388	23.7			210	447	720	)	11					
DF	4M	12	6	6	.1			6									
DF	4M	13	3	3	.0			3									
DF	4M	14	1	1	.0			1									
DF	4M	1 15	8	8	.1			8									
DF	4M	16	11	11	.2			2	10					1			
DF	4M	17	5	5	.1			5									
DF	4M	18	7	7	.1			7									
DF	4M	19	3	3	.0			3									
DF	4M	20	I	1	.0			1									
DF	4N	21	7	7	.1			7									
DF	4N	22	! 19	19	.3			19									
DF	4N	23	12	12	.2			12									
DF	4N	24	11	11	.2			11									
DF	4M	25	7	7	.1			7									
DF	4N	26	17	17	.3			17									
DF	41/	27	8	8	.1			8									
DF	4N	28	3		.0			1	2								
DF	4N	1 29	24	24	.4			24									
DF	41/	1 30	11	11	.2			11									
DF	4N	1 31	18	18	.3			18									
DF	4N	1 32	23	23	.4			23									
DF	4N	1 33	7	7	.1			7									
DF	41	1 34	8	8	.1			8									

	06W S15 Ty0 06W S16 Ty0			2.00	Proje Acres		OWIND 152						Page Date Time		2 1/2022 12:16AN
S	So Gr	Log	Gross	Def Net	%		Net Volu	ne by S	caling Di	amete	r in Inche	es			
Spp T	La company of the com	Len	MBF	% MBF	Spc	2-3 4-5	6-7	8-9	10-11 1	2-13	14-15	16-19	20-23	24-29	30-39
DF	4M	35	8	8	.1		8								
DF	4M	36	47	47	.8		45	2							
DF	4M	38	15	15	.3		15								
DF	4M	40	20	20	.3		20								
DF	Totals		5,868	5,856	82.0		591	466	722	978	1059	1278	617	143	
WH	2M	40	820	820	63.9					293	249	278			
WH	3M	35	3	3	.3		3								
WH	3M	40	394	394	30.7		60	113	206	14					
WH	4M	12	1	1	.1		1								
WH	4M	13	7	7	.6		7								
WH	4M	15	1	1	.1		1								
WH	4M	17		4	.3		4								
WH	4M	18	2	2	.2		2								
WH	4M	19	2	2	.2		2								
WH	4M	20	2	2	.1		2								
WH	4M	21	2	2	.2		2								
WH	4M	22	21	21	1.6		21								
WH	4M	23	5	5	.4		5								
WH	4M	25	3	3	.2		3								
WH	4M	27	2	2	.2		2								
WH	4M	32	4	4	.3		4								
WH	4M	33	4	4	.3		4								
WH	4M	34	7	7	.6		7								
WH	Totals		1,284	1,284	18.0		130	113	206	307	249	278			
Total	All Species		7,152	7,140	100.0		722	579	928	1285	1308	1556	617	143	

TC PST	ATS					PROJ PROJE		STATIS TWO	STICS DWINDY			PAGE DATE	1 10/31/2022
WP	RGE	SC	TRACT		TYPE			AC	RES	PLOTS	TREES	CuFt	BdFt
01S	06	16	00U1		00MC	Unit	.		110.00	23	127	S	W
						TI	REES		ESTIMATED TOTAL		PERCENT SAMPLE		
			PLOTS	TREES			PLOT		TREES		TREES		
mom						PEN			IKEES		TREES		
CRU			23 23	127 127			5.5 5.5		11,581		1.1		
	COUNT		23	127			3.3		11,561		1.1		
	DREST												
COU													
BLA													
100 %	6												
						STAND	SUMM.	ARY					
		S	AMPLE	TREES	AVO	G В	OLE	REL	BASAL	GROSS	NET	GROSS	NET
			TREES	/ACRE	DBI		LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOU	G FIR		91	69.6		20.4	119	35.0	158.3	30,607	30,515	6,903	6,903
	G FIR-S		4	3.6		18.9	47	1.6	7.0				
WHE	MLOCK		32	32.2		17.8	114	13.2	55.7	11,669	11,669	2,563	2,563
TOT	AL		127	105.3		19.6	115	49.9	220.9	42,276	42,185	9,466	9,466
CON			TIMES OUT		E VOLU	JME WII	L BE V	VITHIN T	HE SAMPLE E	ERROR			
CL	68.1		COEFF					E TREES		i	# OF TREES F		INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW		AVG	HIGH		5	10	1
	G FIR G FIR-S		54.2	5.7		3	60	594	628				
	MLOCK		40.4	7.1		4	19	451	483				
тот			57.3	5.1			12	539	567		131	33	1.
0.000							4 N 4 D 7 1	C TRREE	OF		# OF TREES	NEO.	INIC DOD
CL	68.1		COEFF	0.00				ETREES			# OF TREES F 5		INF. POP.
SD:	1.0 IG FIR		VAR.% 49.8	S.E.% 5.2		LOW	26	AVG 133	HIGH 140		3	10	1
	G FIR-S		47.0	5.2			20	133	140				
	EMLOCK		36.8	6.5			92	99	105				
тот			53.6	4.7		1	14	120	126		115	29	1.
- CI	(0.1		COEFF			7	REES/A	ACDE			# OF PLOTS F	PEO	INF. POP.
	68.1 1.0		VAR.%	S.E.%		LOW		AVG	HIGH		5	10	1
	IG FIR		74.6	15.9			59	70	81			10	
	IG FIR-S		338.8	72.2			1	4	6				
	EMLOCK		181.6	38.7			20	32	45				
TOT	AL		54.2	11.6			93	105	117		123	31	1
CL	68.1		COEFF			F	ASAL	AREA/AC	RE		# OF PLOTS I	REO.	INF. POP.
	1.0		VAR.%	S.E.%		LOW		AVG	HIGH		5	10	1
0.000	JG FIR		56.8	12.1			39	158	177				
	JG FIR-S		373.9	79.7			1	7	12				
WHI	EMLOCK		158.9	33.8			37	56	74				
ТОТ	AL		31.3	6.7		2	06	221	236		41	10	
CL	68.1		COEFF			N	ET BF	/ACRE			# OF PLOTS I	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW		AVG	HIGH		5	10	1
DOU	JG FIR		52.6	11.2		27,0	95	30,515	33,936				
	JG FIR-S		Mayout one	Al description of the second		german		Transport Process					
	EMLOCK		158.2	33.7			137	11,669	15,602		20	0	
TOT	TAL		30.0	6.4		39,4	91	42,185	44,878		38	9	
	68.1		COEFF			N	ET CU	FT FT/A	CRE		# OF PLOTS I	REQ.	INF. POP.
CL				S.E.%		LOW	į.	AVG	HIGH		5	10	1
SD:	1.0		VAR.%										
SD: DOU	1.0 JG FIR JG FIR-S		VAR.% 54.1	11.5			07	6,903	7,698				

TC PST	ATS				PROJECT PROJECT		STICS OWINDY			PAGE DATE	2 10/31/2022
TWP	RGE	SC	TRACT	TYP	E	AC	CRES	PLOTS	TREES	CuFt	BdFt
01S	06	16	00U1	00Me	С		110.00	23	127	S	W
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOT	S REQ.	INF. POI
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
WHE	MLOCK		156.8	33.4	1,707	2,563	3,419				
TOTA	\L		29.9	6.4	8,863	9,466	10,068		37	9	

TC	PSPCSTGR		S	pecies, S	ort Gra	de - Board Fo	oot V	olum	es (Pr	oject	)								
TOI	S R06W S16	Ту00МС		110.00		Project: Acres	TW	110.0								Page Date Time		1 0/31/20 :19:13	
		%					Perc	ent of N	Net Boar	rd Foot	Volume					Avera	ige Lo	g	Logs
	S So Gr	Net	Bd. Ft	. per Acre		Total		Log Sca	ale Dia.			Log I	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	CU														18	10		0.00	11.6
DF	2M	71	.3	21,886	21,816	2,400			60	40				100	40	15	357	1.91	61.1
DF	3M	23	.3	7,008	6,987	769		100				0	1	98	40	8	110	0.71	63.4
DF	4M	6		1,713	1,713	188		100			11	37	21	31	27	6	40	0.40	42.6
DF	Totals	72	.3	30,607	30,515	3,357		29	43	29	1	2	1	96	35	10	171	1.09	178.8
				7.450	7.450				0.0	10				100			201	1.61	24.7
WH	2M 3M	63		7,453 3,610	7,453 3,610	820 397		96	88	12			1	100 99	40	14 9	301 117		24.7 30.8
WH	3M 4M	6		606	606	67		100	4		29	49	22	77	21	6	28		21.9
	Totals	28		11,669	11,669	1,284		35	57	8	1	3	1	95	35	10	151	0.96	77.4
Total	s		0.2	42,276	42,185	4,640		30	47	23	1	2	1	95	35	10	165	1.05	256.2

TC I	PSTNDSU	М				S	tand T	able Su	ımmary				Page Date:	1 10/31/202	.2
T01S F	R06W S10	6 Ту00МС		110.0	00		Project	Т	wowini	DY			Time:	3:19:15P	PM
							Acres		110.0	0	#5		Grown Year:		
s		Sample	FF	Tot Av	Trees/	BA/	Logs	Average Net	Log Net	Tons/	Net Cu.Ft.	Net Bd.Ft.		Totals	
Spc T	DBH	Trees	16'	Ht	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits M	1BF
DF	10	1	89	66	3.189	1.74	3.19	11.5	60.0	1.04	37	191	115	40	21
DF	11	1	89	90	2.635	1.74	2.64	16.3	70.0	1.22	43	184	134	47	20
DF	12	1	85	63	2.214	1.74	2.21	8.8	40.0	.56	20	89	61	21	10
DF	14	4	91	83	6.507	6.96	9.76	18.7	81.7	5.21	183	797	573	201	88
DF	15	4	88	103	5.669	6.96	8.50	21.8	93.3	5.28	185	794	581	204	87
DF	16	4	86	107	4.982	6.96	9.96	24.4	102.5	6.94	244	1,021	764	268	112
DF	17	2	85	115	2.207	3.48	4.41	29.1	120.0	3.66	129	530	403	141	58
DF	18	6	87	120	5.905 3.533	10.43	13.78	31.4	129.3 128.0	12.34	433 285	1,781 1,131	1,357 894	476 314	196 124
DF	19	4 7	87	120		6.96	8.83	32.3		8.13 14.75	518		1,623	569	231
DF	20 21	8	86 88	126 137	5.580 5.784	12.17 13.91	15.94	32.5 39.7	132.0 189.1	18.82	660	2,105 3,145	2,070	726	346
DF	22	2	83	114	1.318	3.48	16.63 2.64	51.3	190.0	3.85	135	501	424	149	55
DF	23	10	87	132	6.028	17.39	17.48	45.6	203.1	22.74	798	3,550	2,501	878	391
DF	24	6	86	137	3.321	10.43	9.96	49.3	216.7	14.01	491	2,159	1,541	541	237
DF DF	25	4	85	138	2.041	6.96	6.12	53.8	233.3	9.38	329	1,429	1,032	362	157
DF	26	7	85	140	3.302	12.17	9.91	58.1	259.5	16.42	576	2,571	1,806	634	283
DF	27	5	86	140	2.187	8.70	6.56	63.3	284.7	11.84	415	1,868	1,302	457	205
DF	28	4	88	142	1.627	6.96	4.88	70.1	335.8	9.76	342	1,639	1,073	377	180
DF	29	5	85	143	1.896	8.70	5.69	74.6	351.3	12.09	424	1,998	1,330	467	220
DF	30	4	85	134	1.417	6.96	4.25	75.9	348.3	9.19	323	1,481	1,011	355	163
DF	31	2	84	138	.664	3.48	1.99	82.1	373.3	4.66	163	743	513	180	82
DF	32	1	83	153	.311	1.74	.93	93.4	443.3	2.49	87	414	273	96	46
DF	33	1	85	133	.293	1.74	.88	93.6	450.0	2.34	82	395	258	90	43
DF	35	2	57	30	.521	3.48									
DF	Totals	95	87	116	73.130	165.22	167.16	41.3	182.6	196.72	6,903	30,515	21,640	7,593	3,357
WH	8	1	87	56	4.982	1.74	4.98	5.1	30.0	.81	25	149	89	28	16
WH	15	3	93	119	4.252	5.22	8.50	26.6	125.0	7.23	226	1,063	795	248	117
WH	16	2	92	121	2.491	3.48	6.23	25.6	116.0	5.09	159	722	560	175	79
WH	17	2	90	126	2.207	3.48	6.62	25.0	108.3	5.29	165	717	582	182	79
WH	18	3	90	119	2.952	5.22	7.87	28.7	121.2	7.24	226	955	797	249	105
WH	19	5	87	119	4.416	8.70	10.60	35.7	149.2	TO STATE OF THE PARTY OF THE PA	378	1,581	1,331	416	174
WH	20	1	93	2600,000,000	.797	1.74	2.39	36.2	180.0	10000000			305	95	47
WH	21	7	89	129	5.061	12.17	15.18	39.0	182.4	5000 3000	592		2,085	652	305
WH	22	4	87		2.635	6.96	7.91	43.9	199.2		347		1,222	382	173
WH	23	3	91	900000	1.808	5.22	5.42	48.0	230.0	8.34			917	287	137
WH	24	1	90	145	.554	1.74	1.66	58.1	276.7	3.09	96	459	340	106	51
WH	Totals	32	89	114	32.156	55.65	77.37	33.1	150.8	82.02	2,563	11,669	9,022	2,819	1,284
Totals		127	88	115	105.286	220.87	244.53	38.7	172.5	278.75	9,466	42,185	30,662	10,412	4,640

110.00

Time

3:19:13PM

Acres

		-													111110	<i>J</i> .	19,131	
S	So Gr Lo		Gross	Def	7200000	%							r in Inche		_			
Spp T	rt de Le	en	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11		14-15	16-19		24-29	30-39	40+
DF	2M	40	2,407		2,400	71.5						609	586	802	402			
DF	3M	29	2		2	.1			2									
DF	3M	30	2		2	.1			2									
DF	3М	33	7		7	.2			7									
DF	3М	35	3		3	.1			3									
DF	3M	36	4		4	.1			4									
DF	3М	37	13		13	.4			13									
DF	3М	38	12		12	.4			12		2							
DF	3M	39	6		6	.2			6									
DF	3М	40	722		720	21.4			97	213	410	)						
DF	4M	12	2		2	.1			2									
DF	4M	14	1		1	.0			1		8							
DF	4M	15	2		2	.1			2									
DF	4M	16	11		11	.3			2	10								
DF	4M	17	3		3	.1			3									
DF	4M	19	1		1	.0			1									
DF	4M	21	3		3	.1			3						1			
DF	4M	22	16		16	.5			16									
DF	4M	23	5		5	.1			5									
DF	4M	24	4		4	.1			4						1			
DF	4M	25	2		2	.0			2								1	
DF	4M	26	11		11	.3			11									
DF	4M	27	2		2	.0			2								1	
DF	4M	28	2		2	.0				2								
DF	4M	29			15		l		15									
DF	4M	30			11		ı		11									
DF	4M	31			14	l .	l		14									
DF	4M	32			12		1		12									
DF	4M	33			7		l		7						1			
DF	4M	34	200		7		1		7									
DF	4M	36			38		1		38									
DF	4M	40	20		20	.6			20		_				_			
DF	Totals		3,367		3,357	-	_		323	224	410		586	802	402		-	
WH	2M	40	820		820	63.9						293	249	278				
WH	3M	35	3		3	.3			3									
WH	3M	40	394		394	30.7			60	113	200	6 14						

TC I	PLO	GSTVB					Log S	tock T	able -	MBF									
Т015	S R0	6W S16 Ty	00MC		110.00		Proje Acres		TWO	OWIND 110.						Page Date Time	10/	2 31/202 19:13P	
	s	So Gr	Log	Gross	Def	Net	%			let Volun	ie by S	caling l	Diamete	r in Inch	es				
Spp	T	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
WH		4M	1 12		1	1	.1			1									
WH		4M	1 13		7	7	.6			7									
WH		4N	1 15		1	1	.1			1									
WH		4N	1 17		4	4	.3			4									
WH		4N	1 18		2	2	.2			2									
WH		41	1 19		2	2	.2			2									
WH		4N		1	2	2	.1			2									
WH		4N		1	2	2	.2			2									
WH		4N		1	21	21				21									
WH		4N			5	5	.4			5									
WH WH		4N 4N			2	3	.2			2									
WH		4N 4N			4	4	.3			4									
WH		4N			4	4	.3			4									
WH		4N			7	7	.6			7									
WH		Total	s	1,2	84	1,284	27.7			130	113	200	307	249	278				
Total		All Speci	es	4,6	50	4,640	100.0			454	337	610	917	835	1080	402			

TC PS	ΓATS					ROJ PROJI		STATIS TWO	STICS OWINDY				PAGE DATE	1 11/1/2022
rwp	RGE	SC	TRACT		TYPE			AC	CRES	PLOTS	TREE	s	CuFt	BdFt
018	06	15	00U2	3	00MC (	Init	2		42.00	11	,	93	S	W
						Т	REES		ESTIMATED TOTAL		PERCENT SAMPLE			
			PLOTS	TREES		PEI	R PLOT		TREES		TREES			
TOT	AL		11	93			8.5							
	COUNT OREST INT NKS		11	93			8.5		9,077		1.0			
					S	ΓAND	SUMM	ARY						
		SA	AMPLE	TREES	AVG	В	BOLE	REL	BASAL	GROSS	NE	ET	GROSS	NET
		-	TREES	/ACRE	DBH		LEN	DEN	AREA	BF/AC	BF/A	\C	CF/AC	CF/AC
DOU	IG FIR		86	162.2	18	8.8	114	72.1	312.7	59,552	59,	506	13,247	13,247
	IG FIR-S		7	54.0		0.3	69	8.3	25.5	100 000				
тот	AL		93	216.1	16	5.9	103	82.2	338.2	59,552	59,	506	13,247	13,247
CL	68.1	8.1	COEFF					E TREES	HE SAMPLE F		# OF TRE	EES R	REQ.	INF. POP.
	1.0 JG FIR JG FIR-S		74.1	S.E.% 8.0		LOW	549	596	HIGH 644		5		10	
тот			82.2	8.5		5	505	552	598		270		67	3
CL	68.1		COEFF			8	SAMPL	E TREES	- CF		# OF TRI	EES R	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW		AVG	HIGH		5		10	
DOU	JG FIR JG FIR-S		66.0	7.1			120	129	138		221			
TOT	AL		74.4	7.7		- 1	110	120	129		221		55	
CL	68.1		COEFF				TREES/				# OF PLC	OTS R	12.00	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW		AVG	HIGH		5		10	
	JG FIR JG FIR-S		62.7 225.8	19.8 71.3			130 15	162 54	194 92					
TOT			78.4	24.8			163	216	270		270		67	3
CI	(0.1		COEFF				DACAI	AREA/AC	CDE		# OF PLO	те г	DEO	INF. POP.
CL SD:	68.1 1.0		VAR.%	S.E.%		LOW		AVG	HIGH		# OF FEC	)13 F	10	INF. FOF.
	JG FIR		30.2	9.5			283	313	343		3		10	
	JG FIR-S		189.5	59.9			10	25	41					
	ΓAL		29.1	9.2		2	307	338	369		37		9	
CL	68.1		COEFF			1	NET BF	/ACRE			# OF PLO	OTS F	REO.	INF. POP.
SD:			VAR.%	S.E.%		LOW		AVG	HIGH		5		10	
	JG FIR		33.5	10.6		53,		59,506	65,801					
	JG FIR-S													
TOT	ΓAL		33.5	10.6		53,2		59,506	65,801		49		12	
CL	68.1		COEFF					FT FT/A			# OF PLO	OTS F		INF. POP.
SD:			VAR.%	S.E.%		LOV		AVG	HIGH		5		10	
	JG FIR		31.3	9.9		11,	936	13,247	14,557					
	JG FIR-S ΓAL		31.3	9.9		11.0	936	13,247	14,557		43		11	
101	.Au		31.3	7.9		11,3	.50	13,471	1-1,337		43		11	

TC	PSPCSTGR		Sį	oecies, So	ort Gra	de - Board Fo	oot Volum	es (Pr	oject	)								
ТО	IS R06W S15 T	v00MC		42.00		Project:	TWOW	NDY							Page		1	
		,				Acres	42.	00							Date Time	1000	/1/202 10:43	
		%					Percent of	Net Boar	rd Foot	Volume					Avera	ige Log	3	Logs
	S So Gr	Net	Bd. Ft.	per Acre		Total	Log Sc	ale Dia.			Log I	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5 6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acı
DF	CU													11	7		0.00	
DF	2M	66	.1	39,695	39,650	1,665		55	45	1		1	98	40	15	368	1.93	1
DF	3M	29		16,921	16,921	711	98	2				2	98	40	8	110	0.68	1
DF	4M	5		2,936	2,936	123	100			20	40	20	20	24	6	32	0.38	
DF	Totals	100	.1	59,552	59,506	2,499	33	37	30	2	2	2	94	31	9	138	0.98	4
Tota	als	ıl	0.1	59,552	59,506	2,499	33	37	30	2	2	2	94	31	9	138	0.98	4

TC	PSTNDSU	M				5	Stand T	Table Si	ımmary				Page Date:	1 11/1/2	022
T01S	R06W S1:	5 Ty00MC		42.	00		Project Acres	t T	WOWINI 42.0				Time: Grown Year:		44AM
S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	5 7	1	88 86	88 70	26.669 13.606	3.64 3.64									
DF	8	1	85	66	10.417	3.64									
DF DF	10	2	88	96	13.334	7.27	20.00	9.3	43.3	5.30	186	867	223	7:	8 36
DF	11	1	84	55	5.510	3.64	5.51	11.9	50.0	1.86	65	276	78	2	
DF	12	2	83	62	9.260	7.27	5.51	11.2	50.0	1.00	03	270	76	2	1 12
DF	13	4	91	79	15.780	14.55	23.67	15.4	68.3	10.42	366	1,617	438	15	4 68
DF	14	2	88	107	6.803	7.27	13.61	18.8	82.5	7.30	256	1,123	307	10	
DF	15	4	88	111	11.853	14.55	23.71	23.0	103.7	15.54	545	2,459	653	22	
DF	16	3	91	87	7.813	10.91	10.42	28.1	125.0	8.36	293	1,302	351	12	
DF	17	6	89	119	13.842	21.82	27.68	31.3	130.0	24.67	866	3,599	1,036	36	4 151
DF	18	2	87	117	4.116	7.27	8.23	34.1	135.0	8.01	281	1,111	336	11	
DF	19	9	88	127	16.622	32.73	48.02	29.6	125.8	40.57	1,424	6,039	1,704	59	8 254
DF	20	5	88	129	8.334	18.18	25.00	32.6	143.3	23.25	816	3,584	977	34.	3 151
DF	21	6	87	128	9.071	21.82	25.70	37.9	165.3	27.75	974	4,248	1,165	40	9 178
DF	22	5	87	127	6.888	18.18	20.66	38.7	172.7	22.78	799	3,568	957	33	6 150
DF	23	6	87	133	7.562	21.82	22.69	44.7	199.4	28.87	1,013	4,525	1,213	42	6 190
DF	24	7	85	121	8.102	25.45	21.99	47.6	205.3	29.83	1,047	4,514	1,253	44	0 190
DF	25	3	86	106	3.200	10.91	6.40	53.4	240.0	9.74	342	1,536	409	14	4 65
DF	26	4	86	135	3.945	14.55	11.84	57.8	255.8	19.51	685	3,028	819	28	8 127
DF	27	2	87	131	1.829	7.27	5.49	59.6	263.3	9.32	327	1,445	392	13	7 61
DF	28	4	86	137	3.402	14.55	9.35	68.3	330.9	18.20	639	3,095	764	26	8 130
DF	30	3	87	144	2.222	10.91	6.67	82.3	401.1	15.63	549	2,674	657	23	0 112
DF	31	2	88	140	1.388	7.27	4.16	86.0	430.0	10.20	358	1,790	429	15	0 75
DF	32	2	85	148	1.302	7.27	3.91	94.4	441.7	10.51	369	1,725	441	15	5 72
DF	33	3	89	142	1.837	10.91	5.51	101.4	517.8	15.92	559	2,853	669	23	5 120
DF	36	1	85	149	.514	3.64	1.54	121.8	623.3	5.36	188	962	225	7	9 40
DF	37	1	86	145	.487	3.64	1.46	85.4	450.0	3.56	125	657	149	5.	2 28
DF	40	1	85	138	.417	3.64	1.25	141.7	726.7	5.05	177	908	212	7-	4 38
DF	Totals	93	87	103	216.125	338.18	354.47	37.4	167.9	377.53	13,247	59,506	15,856	5,56	4 2,499
Totals		93	87	103	216.125	338.18	354.47	37.4	167.9	377.53	13,247	59,506	15,856	5,56	4 2,499

PLOGSTVB TC Log Stock Table - MBF Page 42.00 T01S R06W S15 Ty00MC Project: TWOWINDY Date 11/1/2022 Acres 42.00 Time 7:10:42AM So Gr Log Gross Def Net % Net Volume by Scaling Diameter in Inches Spp rt de Len MBF % MBF Spc 2-3 4-5 6-7 8-9 10-11 12-13 14-15 16-19 20-23 24-29 30-39 40+ DF 20 15 2M15 .6 15 DF 2M 32 11 11 .4 11 DF 40 1,641 1,639 65.6 2M 368 451 476 215 128 2 DF 32 .2 3M 4 DF 34 3M 2 .1 2 DF 3M 35 8 2 DF 37 3M15 15 .6 15 DF 38 9 .3 3M 9 DF .2 39 4 3M 2 2 DF 40 669 26.8 3M 669 113 234 311 11 DF 4M12 4 .2 4 DF 13 4M3 3 DF 4M15 6 .2 6 17 DF 4M2 .1 2 DF 18 .3 4MDF 4M19 .1 DF 4M20 .0 DF 21 .2 4M DF 4M 22 .1 DF 4M23 .3 7 DF 4M24 .3 DF 25 .2 4M.2 DF 4M26 6 DF 27 .3 4M7 DF 4M28 .0 29 DF .3 4M9 DF 4M31 DF .5 4M32 12 12 DF 4M34 2 2 DF 35 8 4M.3 8

7

15

268

268

.6

100.0

100.0

15

2,499

2,499

2

242

242

313

313

368

368

473

473

476

476

215

215

143

143

DF

DF

DF

Total

4M 36

4M 38

Totals

All Species

10

15

2,501

2,501

#### **VOLUME SUMMARY**

(Shown in MBF)

#### Two Windy FG-341-2023-W00888-01 November 2021

**UNIT 1: Modified Clearcut (110 Acres)** 

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	2,400	769	188	3,357
Douglas-fir	Hidden D&B (2%)	(48)	(15)	(4)	(67)
Douglas-III	NET TOTAL	2,352	754	184	3,290
	% of Total	71	23	6	
	Cruise Volume	820	397	67	1,284
Western	Hidden D&B (2%)	(17)	(8)	(1)	(26)
hemlock	NET TOTAL	803	389	66	1,258
	% of Total	64	31	5	

**UNIT 2: Modified Clearcut (42 Acres)** 

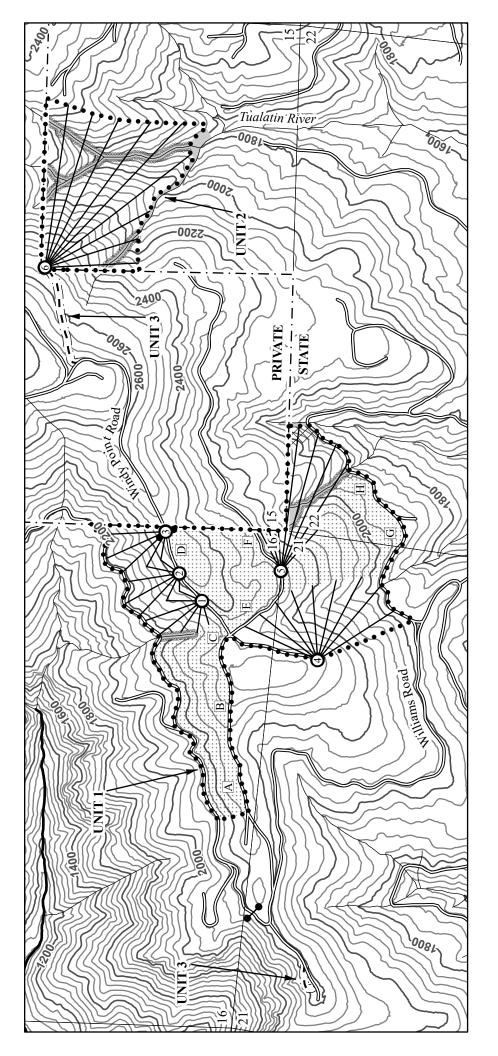
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	1,665	711	123	2,499
Douglas-fir	Hidden D&B (2%)	(33)	(14)	(3)	(50)
Douglas-III	NET TOTAL	1,632	697	120	2,449
	% of Total	67	28	5	

UNIT 3: Right-of-Way (<1 Acre)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	12	6	0	18
Douglas fir	Hidden D&B (2%)	(0)	(0)	(0)	(0)
Douglas-fir	NET TOTAL	12	6	0	18
	% of Total	67	33	0	

#### **SALE TOTAL**

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	3,996	1,457	304	5,757
Western hemlock	803	389	66	1,258
Total	4,799	1,846	370	7,015



# **LOGGING PLAN**

Stream Buffer Stream Buffer Boundary \_\_\_\_\_ Right-of-Way Boundary Timber Sale Boundary

Legend

Cable Landing

Cable Yarding Area Tractor Landing

ODF Ownership Boundary

Surfaced Road

Harvest Optional Area Tractor Yarding Area

New Road Construction

Section Lines

200 Foot Contour Band 40 Foot Contour Band

Type-F Stream Type-N Stream

Gate

FOR TIMBER SALE CONTRACT #FG-341-2023-W00888-01 TWO WINDY

PORTIONS OF SECTIONS 15, 16, 21 & 22, T1S, R6W, W.M., WASHINGTON COUNTY, OREGON

Forest Grove District GIS

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes. 1 inch = 1,000 feet November, 2022 1:12,000





TRACTOR CABLE APROXIMATE NET ACRES

51	45	0
59	0	\ 
UNIT 1	UNIT 2	UNIT 3

93

TOTAL