

Sale FG-341-2021-W00550-01

District: Forest Grove Date: June 24, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,134,752.36	\$17,323.85	\$2,152,076.21
		Project Work:	(\$245,250.01)
		Advertised Value:	\$1,906,826.20

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6/24/20



Sale FG-341-2021-W00550-01

District: Forest Grove Date: June 24, 2020

Timber Description

Location: Portions of Sections 28 & 29, T3N, R6W, W.M., Tillamook County, Oregon, and portions of Sections 32 & 33, T3N, R6W, W.M., Washington County, Oregon.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	98
Western Hemlock / Fir	28	0	98
Alder (Red)	19	0	95

Volume by Grade	28	3S & 4S 6"- 11"	Camprun	Total
Douglas - Fir	3,834	761	0	4,595
Western Hemlock / Fir	175	26	0	201
Alder (Red)	0	0	85	85
Total	4,009	787	85	4,881

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

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$928.79/MBF = \$1,144/MBF - \$215.21/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added):

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

10 hours x \$150/hour = \$1.500

Machine Time to Pile Landing Slash and Sort Firewood:

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

Snag Creation by Topping: 80 Trees x \$60/Tree = \$4,800 Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000

Slash Disposal: 4 acres x \$200/acre = \$800

TOTAL Other Costs (No Profit & Risk added) = \$13,100

ROAD MAINTENANCE

General Road Maintenance(includes move-in,grader,roller): 9.7 miles x \$2,540.31/mile = \$24,641.00 TOTAL Road Maintenance: \$24,641.00/4,881 MBF = \$5.05/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 88.00%

Western Hemlock / Fir 88.00% Alder (Red) 88.00%

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

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

loads / day: 11 bd. ft / load: 4800

cost / mbf: \$117.42

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Large)

Combination#: 2 Douglas - Fir 12.00%

Western Hemlock / Fir 12.00% Alder (Red) 12.00%

Logging System: Shovel Process: Manual Delimbing

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

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

loads / day: 13 bd. ft / load: 4800

cost / mbf: \$53.32

machines: Shovel Logger



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Logging Costs

Operating Seasons: 1.00

Profit Risk: 15%

Project Costs: \$245,250.01

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$13,100.00

Miles of Road

Road Maintenance:

\$5.05

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	4.8	
Western Hemlock / Fir	\$0.00	2.0	5.0	
Alder (Red)	\$0.00	2.0	3.0	



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$109.73	\$5.15	\$0.90	\$67.29	\$0.00	\$27.46	\$0.00	\$2.00	\$2.68	\$215.21
Western H	Western Hemlock / Fir								
\$109.73	\$5.15	\$0.90	\$96.90	\$0.00	\$31.90	\$0.00	\$2.00	\$2.68	\$249.26
Alder (Red	l)								
\$109.73	\$5.30	\$0.90	\$166.25	\$0.00	\$42.33	\$0.00	\$2.00	\$2.68	\$329.19

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$667.04	\$451.83	\$0.00
Western Hemlock / Fir	\$0.00	\$540.77	\$291.51	\$0.00
Alder (Red)	\$0.00	\$533.00	\$203.81	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	4,595	\$451.83	\$2,076,158.85	
Western Hemlock / Fir	201	\$291.51	\$58,593.51	
Alder (Red)	85	\$203.81	\$17,323.85	

Gross Timber Sale Value

Recovery: \$2,152,076.21

Prepared By: Kenton Burns **Phone:** 503-359-7477

6/24/20

PROJECT COST SUMMARY SHEET

 Timber Sale:
 Sloopy

 Sale Number:
 FG-341-2021-W00550-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

 Road Segment
 Length
 Cost

 K to L
 1+50
 \$5,255.78

 1+50 stations
 0.03 miles

Total Rock =

278 cy Pit-run

Move-in = \$136.96

TOTAL PROJECT NO. 1 COST = \$5,255.78

PROJECT NO. 2: ROAD IMPROVEMENT

Road Segment	Length	Cost
A to B	257+20	\$184,568.68
C to D	45+20	\$33,462.96
E to F	9+40	\$7,131.84
G to H	5+30	\$5,519.76
I to J	3+15	\$3,215.93
·	317+10 stations	

6.01 miles

Total Rock =

2,281 cy 1½" - 0 310 cy 3" - 0 14,669 cy Pit-run

Move-in = \$6,095.05

\$239,994.23

TOTAL PROJECT NO. 2 COST =

TOTAL CREDITS \$245,250.00

	Timber Sale:		Sloop	у	S	ale Number:	FG-341-202	1-W00550-01
	Road Segment:		A to E	3	Ir	mprovement:	257+20	stations
	_				_		4.87	miles
PROJECT NO. 2								
Improvement								
Clean ditch & scatter waste ma	aterial	251.20	sta @	\$60.00	per sta =		\$15,072.00	
Clean culvert inlet & outlet		29	ea @	\$25.00	per ea =		\$725.00	
End-haul								
Excavate & load		100	cy @	\$1.60	per cy =		\$160.00	
Haul		131	cy @	\$0.77	per cy =		\$100.87	
Compact waste area		131	cy @	\$0.30	per cy =		\$39.30	
Improve Turnarounds		1	ea @	\$41.25			\$41.25	
Construct Roadside 50' landing	9	1	ea @		per ea =		\$165.00	
Grade, ditch, & roll		257.20	sta @	\$36.00	per sta =		\$9,259.20	
					TOTAL I	MPROVEME	NT COSTS =	\$25,562.62
CULVERTS		_					_	
Culverts and Bands								
18" Diameter		300	LF @	\$18.37			\$5,511.00	
24" Diameter		120	LF@	\$29.43	per LF =		\$3,531.60	
Markers & Stakes								
Culvert Markers		23	ea @	\$10.00	per ea =		\$230.00	
Additional Installation Cost								
Culvert No. 1		2	hrs @	\$175.00	per hr =		\$350.00	
					TC	TAL CHIVE	RT COSTS =	\$9,622.60
ROCK					<u>10</u>	TAL COLVE	<u> </u>	ψ3,022.00
		-	_		T 5: .	, 1		
		Rock	Base	Haul Cost	Placement		D 10 1	
		Size	Cost	\$/cy	Processing	Total CY	Rock Cost	
			\$/cy		Cost \$/cy			
Subgrade rock		41/1 0	£4.40	T #40.05	¢ο το	240	Φ0 7 05 54	
Bedding and backfill		1½" - 0	\$1.19	\$10.25	\$0.50 Subtotal =	312 312	\$3,725.54 \$3,725.54	
Surfacing rock		1			Subtotal =	312	φ3,723.54	
Surfacing rock		1½" - 0	\$1.19	\$9.64	\$1.22	1,969	\$23,722.06	
Base Rock		3"- 0	\$1.19	\$6.70	\$1.22	310	\$2,824.36	
Surfacing rock		Pit-run	\$3.47	\$6.57	\$1.10	10,266	\$114,321.07	
Junction		Pit-run	\$3.47	\$6.57	\$1.10	264	\$2,939.85	
Junction		Pit-run	\$3.47	\$6.57	\$1.10	48	\$534.52	
Turnaround		Pit-run	\$3.47	\$6.57	\$1.10	16	\$178.17	
Roadside landing		Pit-run	\$3.47	\$6.57	\$1.10	95	\$1,057.90	
				•	Subtotal =	12,968	\$145,577.92	
				Totals	All Rock	= 13,280		
					1½" - 0	, -		
					3" - 0) = 310		
					Pit-run	10,689		
						TOTAL DO	OK COSTS -	#440 202 40
EDOGION CONTEST						TOTAL RO	CK COSTS =	\$149,3U3.4b
EROSION CONTROL			0	#40.00			#00.00	
Straw Mulch Bale		8	ea @	\$10.00	per ea =		\$80.00	400.00
					TOTAL EROS	ION CONTR	OL COSTS =	\$80.00
					<u>T</u>	OTAL PROJ	ECT COST =	\$184,568.68
							=	

Timber Sa	ale:	: Sloopy		Sale Number:		FG-341-202	1-W00550-01
Road Segme	ent:	C to D)	_ _	provement:	45+20	stations
						0.86	miles
PROJECT NO. 2							
Improvement							
Clearing & grubbing (scatter)	0.52	ac @	\$1,078.00	per acre =		\$559.29	
Clean ditch & scatter waste material	45.20	sta @	\$60.00	per sta =		\$2,712.00	
Clean culvert inlet & outlet	7	ea @	\$25.00	per ea =		\$175.00	
Improve Turnouts	5	ea @	\$33.00	per ea =		\$165.00	
Improve 50' landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	45.20	sta @	\$36.00	per sta =		\$1,627.20	
				TOTAL II	MPROVEME	NT COSTS =	\$5,348.49
ROCK							φο,ο .οο
		Base		Placement/			
	Rock	Cost	Haul Cost	Processing	Total CY	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy	Total CT	NOCK COSt	
Surfacing rock		,. J	1	1 2 1	ı		
Surfacing rock	Pit-run	\$3.47	\$5.94	\$1.10	2,396	\$25,167.65	
Turnout	Pit-run	\$3.47	\$5.94	\$1.10	120	\$1,260.69	
70' Landing	Pit-run	\$3.47	\$5.94	\$1.10	150	\$1,575.87	
				Subtotal =	2,666	\$28,004.22	
			T. (.)	All Dools	0.000	Ī	
			Totals	All Rock =	,		
				Fit-full	- 2,000		
					TOTAL RO	CK COSTS =	\$28,004.22
EROSION CONTROL							
Grass seed & fertilizer	0.26	ac @	\$425.00	per ac =		\$110.25	
		J	•	TOTAL EROS	ION CONTR	ROL COSTS =	\$110.25
				T	OTAL PROJ	ECT COST =	\$33,462.96

Timber Sal		Sloop	ру С		ale Number:	FG-341-202	21-W00550-01
Road Segmer	t:	E to	F	In	nprovement:	9+40	stations
				_		0.18	miles
PROJECT NO. 2							
Improvement							
Clearing & grubbing (scatter)	0.11	ac @	\$1,078.00	per acre =		\$116.31	
Clean ditch & scatter waste material	9.40	sta @	\$60.00	per sta =		\$564.00	
Improve Turnouts	1	ea @	\$33.00	per ea =		\$33.00	
Improve 50' landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	9.40	sta @	\$36.00	per sta =		\$338.40	
				TOTAL IMF	PROVEMEN	T COSTS =	\$1,161.71
ROCK							
	Rock	Base	Haul Cost	Placement/			
		Cost		Processing	Total CY	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy			
Surfacing rock							
Surfacing rock	Pit-run	\$3.47	\$5.31	\$1.10	498	\$4,920.12	
Turnout	Pit-run	\$3.47	\$5.31	\$1.10	24	\$237.02	
50' Landing	Pit-run	\$3.47	\$5.31	\$1.10	80	\$790.06	
				Subtotal =	602	\$5,947.20	
			Totals	All Rock	= 602	1	
				Pit-run]	
				<u> </u>	OTAL ROC	K COSTS =	\$5,947.20
EROSION CONTROL						_	
Grass seed & fertilizer	0.05	ac @	\$425.00	per ac =		\$22.93	
			<u>T</u>	OTAL EROSIO	N CONTRO		\$22.93
				<u>TO</u>	TAL PROJE	CT COST =	\$7,131.84

Timber Sale:			,		ale Number:	FG-341-202	1-W00550-01
Road Segment:		G to H		Im	nprovement:	5+30	stations
				_		0.10	miles
PROJECT NO. 2							
Improvement							
Heavy road improvement	5.3	sta @	\$110.00	per sta =		\$583.00	
Clearing & grubbing (scatter)	0.12	ac @	\$1,078.00	per acre =		\$131.16	
Clean ditch & scatter waste material	5.30	sta @	\$60.00	per sta =		\$318.00	
Improve Turnouts	1	ea @	\$33.00	per ea =		\$33.00	
Improve Roadside 50' landing	1	ea @	\$82.50	per ea =		\$82.50	
Improve 50' landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	5.30	sta @	\$36.00	per sta =		\$190.80	
				TOTAL IMF	PROVEMEN	T COSTS =	\$865.46
ROCK						_	
	Deels	Base	Llaul Caak	Placement/			
	Rock	Cost	Haul Cost	Processing	Total CY	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy			
Surfacing rock			•		•		
Surfacing rock	Pit-run	\$3.47	\$5.39	\$1.10	281	\$2,796.58	
Turnout	Pit-run	\$3.47	\$5.39	\$1.10	24	\$238.94	
Roadside landing	Pit-run	\$3.47	\$5.39	\$1.10	80	\$796.46	
50' Landing	Pit-run	\$3.47	\$5.39	\$1.10	80	\$796.46	
				Subtotal =	465	\$4,628.44	
			Totals	All Rock :	= 465	1	
			Totals	Pit-run			
				Fit-full	- 400	l	
				I	OTAL ROC	K COSTS =	\$4,628.44
EROSION CONTROL						_	
Grass seed & fertilizer	0.06	ac @	\$425.00	per ac =		\$25.86	
-		•		OTAL EROSIO	N CONTRO		\$25.86
							•
				TOI	TAL PROJE	CT COST =	\$5,519.76
				<u>101</u>		- 	ψ5,010.70

Timber Sale	·	Sloop	ру	Sa	le Number:	FG-341-202	21-W00550-01
Road Segment		I to .	J	Im	provement:	3+15	stations
				_		0.06	miles
PROJECT NO. 2							
Improvement	_						
Clearing & grubbing (scatter)	0.11	ac @	\$1,078.00	per acre =		\$116.93	
Clean ditch & scatter waste material	3.15	sta @	\$60.00	per sta =		\$189.00	
Improve 50' landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	3.15	sta @	\$36.00	per sta =		\$113.40	
				TOTAL IMPI	ROVEMEN	T COSTS =	\$529.33
ROCK							•
		Base		Placement/			
	Rock	Cost	Haul Cost	Processing	Total CV	Rock Cost	
	Size	\$/cy	\$/cy	Cost \$/cy	Total O1	TOOK COSt	
Surfacing rock							
Surfacing rock	Pit-run	\$3.47	\$6.57	\$0.75	167	\$1,800.69	
50' Landing	Pit-run	\$3.47	\$6.57	\$0.75	80	\$862.86	
			-	Subtotal =	247	\$2,663.55	
						<u> </u>	
			Totals	All Rock =	247		
				Pit-run =	247		
				<u>T(</u>	OTAL ROCI	K COSTS =	\$2,663.55
EROSION CONTROL						· -	
Grass seed & fertilizer	0.05	ac @	\$425.00	per ac =		\$23.05	
				OTAL EROSION	I CONTRO		\$23.05
							·

TOTAL PROJECT COST = \$3,215.93

Timber Sale:		Sloopy		_	Sale Number:	FG-341-2021-W00550-		
Road Segment:		K to L		_	Construction:			
				-		0.03	miles	
PROJECT NO. 1								
CONSTRUCTION								
Clearing & grubbing (scatter)	0.50		\$1,078.00			\$539.00		
Balanced road construction	1.50	sta @	\$110.00	per sta =		\$165.00		
Drift road material	1.50	sta @	\$180.00	per sta =		\$270.00		
70' Landing Construction								
Drift & Compact Landing	544	cy @	\$1.40	per cy =		\$1,075.60		
Grade, ditch, & roll	1.50	sta @	\$36.00	per sta =		\$54.00		
				TOTAL C	ONSTRUCTIO	N COSTS =	\$2,103.60	
ROCK								
		1		Placeme	nt/			
	Rock	Base	Haul Cost	Processi		Rock Cost		
	Size	Cost \$/cy	\$/cy	Cost \$/c		NOCK COST		
Surfacing rock		l .		C03t \$/0	,у			
Surfacing rock	Pit-run	\$3.47	\$6.57	\$1.10	98	\$1,085.74	ì	
70' Landing	Pit-run	\$3.47	\$6.57	\$0.75		\$1,941.44		
70 Landing	Titridii	ψ0.47	ψ0.01	Subtotal		\$3,027.18		
			Totals	All Ro	ck = 278			
				Pit-r	un = 278			
					TOTAL ROC	K COSTS =	\$3,027.18	
EROSION CONTROL								
Grass seed & fertilizer	0.25	ac @	\$500.00	per ac =		\$125.00	<u>.</u>	
			Ţ	OTAL EROS	SION CONTRO	L COSTS =	\$125.00	

TOTAL PROJECT COST = \$5,255.78

Timber Sale: Sloopy	Sale Number: <u>FG-341-2021-W00550-01</u>
MOVE-IN & EQUIPMENT CLEANING COSTS	
Equipment	Total
Grader	\$1,033.69
Roller (smooth/grid) & Compactor	\$716.89
Excavator (Large) - Equipment Cleaning	\$2,033.69
Dozer (Large) - Equipment Cleaning	\$2,078.27

Dump Truck (10cy +)

Water Truck (2,500 Gal)

TOTAL MOVE-IN COSTS = \$6,232.01

\$184.63

\$184.84

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Sloopy
Sale Number: FG-341-2021-W00550-01

Quarry Name: Wolf Creek Grade Road Quarry

Pit-run: 14,946 cy (truck measure)

Total truck yardage: 14,946 cy
Total in place yardage: 11,497 cy

Swell: <u>130%</u> Compaction: <u>116%</u>

Move-in & Other Base Cost

Quarry development & overburden removal\$10,131.46Move in excavator with cleaning\$1,976.63Move in dozer with cleaning\$1,955.43Move in loader\$866.00Move in Dump Trucks\$270.00Clean up quarry\$500.00

Subtotal = \$15,699.52 Per CY = \$1.05/cy

Pit-run Base Cost

 Rip rock
 \$2.10
 / cy x
 11,497
 cy =
 \$24,143.94

 Load dump truck
 \$0.80
 / cy x
 14,946
 cy =
 \$11,957.00

Subtotal = \$36,100.94

Per CY = \$2.42/cy

Total = \$51,800.46

Pit-run Base Cost = \$3.47/cy

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Sloopy
Sale Number: FG-341-2021-W00550-01
Stockpile Name: Rock Creek Ridge Stockpile

1 1/2" - 0: 2,281 cy (truck measure) 3" -0: 310 cy (truck measure)

Total truck yardage: 2,901 cy

Move-in

 Move in loader
 \$723.12

 Move in Dump Trucks
 \$410.49

 Subtotal =
 \$1,133.61

Per CY = $\frac{\$1,133.61}{\$0.39/cy}$

1 1/2"-0 and 3"-0 Base Cost

Load dump truck \$0.80 / cy x 2,901 cy = \$2,320.40 Subtotal = \$2,320.40 Per CY = \$0.80

Total = \$3,454.01

1 1/2"-0 Cost = \$1.19/cy 3"-0 Cost = \$1.19/cy

TIMBER SALE SUMMARY Sloopy #FG-341-2021-W00550-01

- **1.** <u>Location</u>: Portions of Sections 28 & 29, T3N, R6W, W.M., Tillamook County, Oregon, and portions of Sections 32 & 33, T3N, R6W, W.M., Washington County, Oregon.
- **2.** <u>Type of Sale</u>: This timber sale is 66 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- **3.** Revenue Distribution: 100% BOF. 56% Washington County, 44% Tillamook County (Tax Code 56-1).
- **4.** <u>Sale Acreage</u>: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
- **5.** <u>Cruise</u>: The Timber Sale Area was cruised by ODF Cruisers in May of 2020. For more information see Cruise Report.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists of an over-stocked 80 year old Douglas-fir stand with minor amounts of western redcedar, true firs, and hardwoods. The stand has an average of 312 ft² of basal area all species, an average Douglas-fir DBH of 24 inches, and an estimated average net Douglas-fir volume of approximately 75 MBF per acre.
- 7. <u>Topography and Logging Method</u>: Slopes within the sale areas range from 5% to 70%, and variable in aspect. The timber sale is 12% ground-based yarding and 88% cable yarding. The average cable corridor length is approximately 800 feet and the maximum is approximately 1,300 feet. The average horizontal skid trail length is approximately 200 feet and the maximum is approximately 800 feet.
- 8. Access: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 8 to its junction with Highway 6. Turn left and travel west approximately 3.5 miles to Timber Road. Turn right, proceed north on Timber Road approximately 6.5 miles and turn onto Cochran Road. Continue on the Cochran Road approximately 7 miles to the Standard Grade Road. Turn left on the Standard Grade Road and continue 1.2 miles to the Standard Grade Loop. Turn right, and continue approximately 3 miles to the Timber Sale Area.

9. Projects:

Project No. 1: Rocked Road Construction \$5,255.78
Project No. 2: Road Improvement \$239,994.23

Total Credit for all Projects \$245,250.01

CRUISE REPORT Sloopy #FG-341-2021-W00550-01

- **1. LOCATION:** Portions of Sections 28 & 29, T3N, R6W, W.M., Tillamook County, Oregon, and Portions of Sections 32 & 33, T3N, R6W, W.M., Washington County, Oregon.
- **2. CRUISE DESIGN:** Pre-cruise evaluation indicated that the stand's average DBH is approximately 20 inches with a Coefficient of Variation of about 52%. 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. Statistical analysis indicated that 32 variable radius plots utilizing a 40 BAF prism would produce an adequate sample size.
- **3. SAMPLING METHOD:** The Timber Sale Area was cruised in May of 2020. The Timber Sale Area was sampled with 33 variable radius grade plots laid out on a 4 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.
- **4. CRUISE RESULTS:** 257 trees were measured and graded producing a cumulative Sampling Error of 6.4% on the Basal Area and 6.5% on the Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

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

- a) **Height Standards:** Total tree heights were measured to the nearest foot. For conifers, bole heights were calculated to a six inch top. For hardwoods, bole heights were calculated to a seven 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 Super Ace 2008 cruise software.
- b) **Deductions:** For conifers, two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage. For hardwoods, five percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.
- **7. CRUISERS:** The sale was cruised by ODF cruiser Kenton Burns.

Prepared by:	Kenton Burns Name	5/28/2020 Date
Reviewed by:	Mark Savage Name	6/02/2020 Date

 TC PLOGSTVB
 Log Stock Table - MBF

 T03N R06W S28 Ty00MC
 66.00
 Project: SLOOPY
 Date 5/20/2020

 Acres
 66.00
 Time 7:03:05AM

						1											03:05AM
S	So Gr			Def	Net	%					_		r in Inche		1		
Spp T	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11		14-15	16-19	20-23	24-29	30-39 40+
DF	2M				2							2					
DF	2M			4.8	18							7			11	***	
DF	2M	40	3,956	1.6	3,892	83.0						371	613	1501	1093	300	13
DF	3M	20	1		1	.0				1							
DF	3M	24	1		1	.0				1							
DF	3M	32	16		16	.3			16								
DF	3M	34	10		10	.2			9	1							
DF	3M	36	16		16	.4			15	1							
DF	3M	38	36		36	.8			18	18							
DF	3M	40	634		630	13.4			121	191	313			6			
DF	4M	12	10		10	.2			8	2							
DF	4M	14	7		7	.1			7								
DF	4M	16	5		5	.1			5	0							
DF	4M	18	3		3	.1			3	0							
DF	4M	20	3		3	.1			3	1							
DF	4M	22	10		10	.2			10								
DF	4M	24	5		5	.1			5								
DF	4M	26	5		5	.1			5								
DF	4M	28	9		9	.2			9								
DF	4M	30	6		6	.1			6								
DF	4M	32	2		2	.0			2								
DF	4M	40	2		2	.0			2								
DF	Totals		4,758	1.5	4,688	94.1			243	215	313	380	613	1507	1104	300	13
RA	R	20	1		1	1.4			1								
RA	R	26	2		2	1.8			2								
RA	R	28	3		3	2.8			3								
RA	R	30	3		3	3.6			3								
RA	R	38			2				2								
RA	R	40	80		79	88.4			5		10	28	25	12			
RA	Totals		90		90	1.8			15		10	28	25	12			
NF	2M	20	5		5	2.6									5		
NF	2M	32	7		7	3.6								7			
NF	2M	40	169	1.7	166	81.2						4	32	53	41	36	
NF	3M	34	2		2	.8			2								
NF	3M	36	1		1	.4				1							
NF	3M	40	21		21	10.4			3	5	11	3					

TC PLOGSTVB Log Stock Table - MBF																	
T03N R	06W S28 Ty	y00MC	6		Project: SLOOPY Acres 66.00							Page Date Time	5/2	2 0/2020 03:05A			
S		Log	Gross	Def	Net	%				Ť	caling Diamet			1		l	
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+
NF	4M	14	0		0	.1				0							
NF	4M	18	1		1	.5			1	0							
NF	4M	20	0		0	.2			0								
NF	Totals	3	207	1.4	204	4.1			5	6	11	32	61	46	36		
Total	All Specie	es .	5,055	1.4	4,982	100.0			263	221	333 41:	670	1580	1150	336	13	

TC PST	ATS		PROJECT STATISTICS PROJECT SLOOPY										
ГWР	RGE	SC TRACT	,	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt		
03N	06	28 00U1		00MC			66.00	33	257	S	W		
					TREES		ESTIMATED TOTAL		ERCENT SAMPLE				
		PLOTS	TREES		PER PLOT		TREES		TREES				
TOTA	A L	33	257		7.8								
	COUNT PREST NT NKS	33	257		7.8		6,856		3.7				
				STA	ND SUMM	IARY							
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET		
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC		
DOUG	G FIR	240	96.6	23.5	138	60.0	290.9	72,085	71,028	14,572	14,572		
NOB I	FIR	10	2.8	28.2	149	2.3	12.1	3,137	3,095	621	621		
R ALI	DER	7	4.4	18.7	96	2.0	8.5	1,364	1,358	327	327		
TOTA	AL	257	103.9	23.4	136	64.3	311.5	76,586	75,481	15,520	15,520		
C			Γ OF 100 THE	VOLUME			HE SAMPLE E		OF TREES		DIE DOD		
CL SD:	68.1 1.0	COEFF VAR.%	S.E.%	Ţ	SAMPL. OW	E TREES - AVG	· BF HIGH	#	OF TREES R	.EQ. 10	INF. POP.		
DOUG	110	50.9	3.E.% 3.3	L	968	1,001	1,034		3	10	1.		
NOB I		39.0	13.0		1,104	1,269	1,434						
R ALI		38.2	15.5		282	334	386						
TOTA	AL	52.0	3.2		961	993	1,025		108	27	12		
CL	68.1	COEFF			SAMPL	E TREES -	· CF	#	OF TREES R	EO.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	1:		
DOUG	G FIR	46.4	3.0		195	201	207						
NOB I		35.2	11.7		222	252	281						
NOB I	DER	35.2	14.3		69	80	92						
NOB I	DER								89	22	10		
NOB I	DER	35.2	14.3		69	80 200	92	#	89 OF PLOTS R		INF. POP.		
NOB I R ALI TOTA CL SD:	DER AL 68.1 1.0	35.2 47.2 COEFF VAR.%	14.3	L	69 194	80 200	92	#			INF. POP.		
NOB I R ALI TOTA CL SD: DOUG	DER AL 68.1 1.0 G FIR	35.2 47.2 COEFF VAR.% 63.9	14.3 2.9 S.E.%	L	69 194 TREES/OW 86	80 200 ACRE AVG 97	92 206 HIGH 107	#	OF PLOTS R	EQ.	INF. POP.		
NOB I R ALI TOTA CL SD: DOUG NOB I	DER AL 68.1 1.0 G FIR FIR	35.2 47.2 COEFF VAR.% 63.9 192.0	14.3 2.9 S.E.% 11.1 33.4	L	69 194 TREES/ OW 86 2	80 200 ACRE AVG 97 3	92 206 HIGH 107 4	#	OF PLOTS R	EQ.	INF. POP.		
NOB I R ALI TOTA CL SD: DOUG NOB I R ALI	DER AL 68.1 1.0 G FIR FIR DER	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8	14.3 2.9 S.E.% 11.1 33.4 72.0	L	69 194 TREES/ OW 86 2 1	80 200 ACRE AVG 97 3 4	92 206 HIGH 107 4 8	#	OF PLOTS R	EQ. 10	INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA	68.1 1.0 G FIR FIR DER	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5	14.3 2.9 S.E.% 11.1 33.4	L	69 194 TREES/ OW 86 2 1 93	80 200 /ACRE AVG 97 3 4 104	92 206 HIGH 107 4 8 114		OF PLOTS R 5	EQ. 10	INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL	68.1 1.0 G FIR FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF	S.E.% 11.1 33.4 72.0 10.2		69 194 TREES/ OW 86 2 1 93 BASAL	80 200 ACRE AVG 97 3 4 104 AREA/AC	92 206 HIGH 107 4 8 114		OF PLOTS R 5 137 OF PLOTS R	EQ. 10 34 EQ.	INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD:	68.1 1.0 G FIR DER AL 68.1 1.0	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.%	S.E.% S.E.% 11.1 33.4 72.0 10.2 S.E.%		69 194 TREES/ OW 86 2 1 93 BASAL OW	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG	92 206 HIGH 107 4 8 114 RE HIGH		OF PLOTS R 5	EQ. 10	INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF	S.E.% 11.1 33.4 72.0 10.2		69 194 TREES/ OW 86 2 1 93 BASAL	80 200 ACRE AVG 97 3 4 104 AREA/AC	92 206 HIGH 107 4 8 114		OF PLOTS R 5 137 OF PLOTS R	EQ. 10 34 EQ.	INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0	14.3 2.9 S.E.% 11.1 33.4 72.0 10.2 S.E.%		69 194 TREES/ OW 86 2 1 93 BASAL OW 271	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291	92 206 HIGH 107 4 8 114 RE HIGH 311		OF PLOTS R 5 137 OF PLOTS R	EQ. 10 34 EQ.	INF. POP.		
NOB I R ALI TOTA CL SD: DOUG NOB I R ALI TOTA CL SD: DOUG NOB I NOB I	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 1.0 G FIR	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4		69 194 TREES/ OW 86 2 1 93 BASAL OW 271 8	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12	92 206 HIGH 107 4 8 114 RE HIGH 311 16		OF PLOTS R 5 137 OF PLOTS R	EQ. 10 34 EQ.	INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2		69 194 TREES/ OW 86 2 1 93 BASAL OW 271 8 2 292	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312	92 206 HIGH 107 4 8 114 RE HIGH 311 16	#	OF PLOTS R 5 137 OF PLOTS R 5	EQ. 10 34 EQ. 10	INF. POP. 13 INF. POP. 15		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL CL CL CL CL	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2	L	69 194 TREES/ OW 86 2 1 93 BASAL OW 271 8 2	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312	92 206 HIGH 107 4 8 114 RE HIGH 311 16	#	OF PLOTS R 5 137 OF PLOTS R 5	EQ. 10 34 EQ. 10	INF. POP. 1: 1: INF. POP. 1:		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL CL CL	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR 68.1 1.0 68.1 1.0 68.1	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4	L	69 194 TREES/ OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R	EQ. 10 34 EQ. 10 13 EQ.	INF. POP. 1: INF. POP. 1: INF. POP.		
NOB I R ALI TOTA CL SD: DOUG NOB I R ALI TOTA CL SD: DOUG NOB I R ALI TOTA CL SD:	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR 68.1 1.0 G FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF VAR.%	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4 S.E.%	L	69 194 TREES/ OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312 VACRE AVG	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R	EQ. 10 34 EQ. 10 13 EQ.	INF. POP. 1: INF. POP. 1: INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA	68.1 1.0 G FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF VAR.% 40.1 177.1 416.2	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4 S.E.% 7.0 30.8 72.4	L L	69 194 TREES/OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF OW 66,071 2,141 375	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312 VACRE AVG 71,028 3,095 1,358	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331 HIGH 75,986 4,048 2,341	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R 5	EQ. 10 34 EQ. 10 13 EQ. 10	INF. POP. 1: INF. POP. 1: INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA	68.1 1.0 G FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF VAR.% 40.1	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4 S.E.% 7.0 30.8	L L	69 194 TREES/OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF OW 66,071 2,141	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312 VACRE AVG 71,028 3,095	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331 HIGH 75,986 4,048	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R	EQ. 10 34 EQ. 10 13 EQ.	INF. POP. 1: INF. POP. 1: INF. POP.		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA	68.1 1.0 G FIR DER AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF VAR.% 40.1 177.1 416.2	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4 S.E.% 7.0 30.8 72.4	L L	69 194 TREES/OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF OW 66,071 2,141 375 70,554	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312 VACRE AVG 71,028 3,095 1,358	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331 HIGH 75,986 4,048 2,341 80,408	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R 5	EQ. 10 34 EQ. 10 13 EQ. 10	INF. POP. 1: INF. POP. 1: INF. POP. 1:		
NOB I R ALL TOTA CL SD: DOUG NOB I R ALL TOTA CL SD: DOUG NOB I R ALL TOTA CL SD: DOUG NOB I R ALL TOTA	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 AL	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF VAR.% 40.1 177.1 416.2 37.5	S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4 S.E.% 7.0 30.8 72.4	L	69 194 TREES/OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF OW 66,071 2,141 375 70,554	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312 VACRE AVG 71,028 3,095 1,358 75,481	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331 HIGH 75,986 4,048 2,341 80,408	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R 5	EQ. 10 34 EQ. 10 13 EQ. 10	INF. POP. 1: INF. POP. 1: INF. POP. 1:		
NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: DOUC NOB I R ALI TOTA CL SD: CL	68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 1.0 G FIR DER AL 68.1 1.0 G FIR 68.1 1.0 G FIR 68.1 1.0 G FIR 68.1 1.0	35.2 47.2 COEFF VAR.% 63.9 192.0 413.8 58.5 COEFF VAR.% 40.0 174.7 421.0 36.7 COEFF VAR.% 40.1 177.1 416.2 37.5 COEFF	14.3 2.9 S.E.% 11.1 33.4 72.0 10.2 S.E.% 7.0 30.4 73.2 6.4 S.E.% 7.0 30.8 72.4 6.5	L	69 194 TREES/OW 86 2 1 93 BASAL OW 271 8 2 292 NET BF OW 66,071 2,141 375 70,554 NET CU	80 200 ACRE AVG 97 3 4 104 AREA/AC AVG 291 12 8 312 VACRE AVG 71,028 3,095 1,358 75,481 UFT FT/AC	92 206 HIGH 107 4 8 114 RE HIGH 311 16 15 331 HIGH 75,986 4,048 2,341 80,408	#	OF PLOTS R 5 137 OF PLOTS R 5 54 OF PLOTS R 5	EQ. 10 34 EQ. 10 13 EQ. 10 14 EQ.	INF. POP. IST OF THE POP. INF. POP. INF. POP. INF. POP.		

TC PST	ATS				PROJECT PROJECT		STICS DOPY			PAGE DATE	2 5/20/2020
TWP	RGE	SC	TRACT	TY	PE	AC	CRES	PLOTS	TREES	CuFt	BdFt
03N	06	28	00U1	00M	IC		66.00	33	257	S	W
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOTS	S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
R AL	DER		415.9	72.3	90	327	563				
TOTA	AL		37.8	6.6	14,500	15,520	16,539		57	14	6

TC	TC PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																			
TO	3N R06W S	28 Ty	00MC		66.00		Project: SLOOPY Acres 66.00										Page Date Time		1 20/202 :03:06	20
Spp	S So Gr									26.00	. Ln Ft	ъ.	nge Log Bd Ft	CF/	Logs Per /Acre					
DF DF DF DF	C 21 31 41	U M M	83 15 2	1.6	60,258 10,816 1,011	59,270 10,747 1,011	3,912 709 67	4-3	99	33	67	0 0 42	0 0 52	4 3	99 96 3	18		457 102 24	0.00 2.19 0.71 0.36	2.4 129.6 105.0 41.6
DF	Totals	\perp	94	1.5	72,085	71,028	4,688		16	28	56	1	1	1	98	36	12	255	1.44	278.6
RA RA	R Totals	+	100	.5	1,364	1,358	90		28	59 59	13	1	8		90	35 35		153 153	1.04	8.9 8.9
NF NF NF NF	C 21 31 41	M M	87 12 1	1.6	2,749 361 27	2,706 361 27	179 24 2		87 100	20 13	80	3 100		4 7	93 93	39 39 18	16 18 9 7	551 117 24	0.00 2.68 0.86 0.44	.7 4.9 3.1 1.1
NF Tota	Totals	1.4 76,586 75,481 4,9							11	19	70 56	1	1	1	92 97	34			1.87	9.8

TC	PSTNDSUM		Stand Table S	Summary	Page	1
					Date:	5/20/2020
T03	N R06W S28 Ty00MC	66.00	Project	SLOOPY	Time:	7:03:07AM
			Acres	66.00	Grown Year	:

S	S				Average Log			Net Net			Totals				
Spc T	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF	9	1	88	81	2.744	1.21	2.74	8.7	50.0	.68	24	137	45	16	9
DF	11	2	87	85	3.673	2.42	3.67	15.5	65.0	1.63	57	239	107	38	16
DF	12	2	89	102	3.087	2.42	6.17	13.0	52.5	2.28	80	324	150	53	
DF	13	1	89	97	1.315	1.21	2.63	14.3	60.0	1.08	38	158	71	25	
DF	14	3	89	109	3.402	3.64	6.80	19.3	83.3	3.75	131	567	247	87	
DF	15	4	89	114	3.951	4.85	7.90	22.9	100.0	5.16	181	790	340	119	
DF	16	3	89	127	2.604	3.64	6.94	22.0	98.7	4.36	153	686 584	288	101	
DF	17	3 5	88 89		2.307	3.64	5.38	26.4	108.6	4.05	142		268	94	
DF	18 19	6	89	121 136	3.430 3.694	6.06 7.27	8.92 10.47	27.6 31.7	112.3 137.1	7.01 9.47	246 332	1,001 1,434	463 625	162 219	
DF DF	20	10	89	133	5.556	12.12	16.11	33.6	150.0	15.42	541	2,417	1,018	357	
DF	21	11	89	146	5.543	13.33	16.63	39.9	189.4	18.92	664	3,150	1,249	438	
DF	22	3	89	141	1.378	3.64	4.13	43.7	205.6	5.15	181	849	340	119	
DF	23	17	89	147	7.142	20.61	22.27	47.7	225.7	30.30	1,063	5,025	2,000	702	
DF	24	18	89	148	6.945	21.82	21.22	52.2	243.1	31.58	1,108	5,159	2,084	731	
DF	25	18	89	152	6.400	21.82	21.69	52.8	254.1	32.66	1,146	5,512	2,156	756	
DF	26	16	89		5.260	19.39	17.42	59.2	291.3	29.39	1,031	5,076	1,940	681	
DF	27	14	88	156	4.268	16.97	14.33	63.0	312.6	25.73	903	4,478	1,698	596	296
DF	28	18	88	156	5.102	21.82	17.57	65.9	337.3	33.03	1,159	5,927	2,180	765	391
DF	29	19	87	155	5.021	23.03	16.38	73.2	366.9	34.19	1,200	6,012	2,256	792	397
DF	30	14	87	156	3.457	16.97	11.61	76.2	381.7	25.22	885	4,430	1,664	584	292
DF	31	13	87	161	3.006	15.76	10.18	79.1	407.5	22.95	805	4,146	1,514	531	274
DF	32	7	87	155	1.519	8.48	5.43	82.5	426.4	12.76	448	2,314	842	296	153
DF	33	9	86	154	1.837	10.91	5.92	95.6	483.8	16.12	566	2,863	1,064	373	189
DF	34	7	86	159	1.346	8.48	4.42	101.2	515.7	12.76	448	2,280	842	295	150
DF	35	6	85	156	1.089	7.27	3.63	105.7	540.5	10.93	384	1,961	722	253	129
DF	36	2	86	167	.343	2.42	1.20	111.9	602.9	3.83	134	724	253	89	48
DF	37	4	86	163	.649	4.85	2.44	109.1	590.0	7.57	266	1,437	500	175	95
DF	38	2	84	167	.308	2.42	1.08	120.5	635.7	3.70	130	685	244	86	45
DF	39	1	81	154	.146	1.21	.44	140.1	700.0	1.75	61	307	115	41	20
DF	44	1	84	160	.115	1.21	.46	144.2	777.5	1.89	66	357	125	44	24
DF	Totals	240	88	138	96.636	290.91	276.18	52.8	257.2	415.29	14,572	71,028	27,409	9,617	4,688
NF	21	1	91	145	.504	1.21	1.51	40.2	196.7	1.46	61	297	96	40	20
NF	23	1	77	127	.420	1.21	1.26	40.1	143.3	1.21	50	181	80	33	12
NF	26	1	90	147	.329	1.21	.99	64.5	316.7	1.53	64	312	101	42	21
NF	27	1	88	151	.305	1.21	.91	66.9	320.0	1.47	61	293	97	40	19
NF	30	1	90	173	.247	1.21	.99	72.6	395.0	1.72	72	390	114	47	26
NF	31	2	88	163	.463	2.42	1.85	69.9	387.5	3.10	129	717	205	85	47
NF	34	1	87		.192	1.21	.58	108.7	540.0	1.50	63	311	99	41	
NF	36	2	87	146	.343	2.42	1.03	118.1	576.7	2.92	122	593	193	80	39
NF	Totals	10	87	149	2.802	12.12	9.12	68.1	339.5	14.91	621	3,095	984	410	204
RA	15	1	90		.988	1.21	1.98	23.8	100.0	1.29	47	198	85	31	
RA	17	1	90	95	.769	1.21	1.54	31.0	125.0	1.31	48	192	86	31	
RA	19	2	91	83	1.231	2.42	2.46	32.7	125.0	2.21	81	308	146	53	
RA	20	1	94		.556	1.21	1.11	46.9	215.0	1.43	52	239	95	34	
RA	21	1	94		.504	1.21	1.01	49.0	215.0	1.36	49	217	90	33	
RA	24	1	90	96	.386	1.21	.77	64.7	265.0	1.37	50	204	91	33	13
RA	Totals	7	91	96	4.433	8.48	8.87	36.8	153.1	8.98	327	1,358	593	216	90
Totals		257	88	136	103.871	311.52	294.17	52.8	256.6	439.19	15,520	75,481	28,986	10,243	4,982

VOLUME SUMMARY

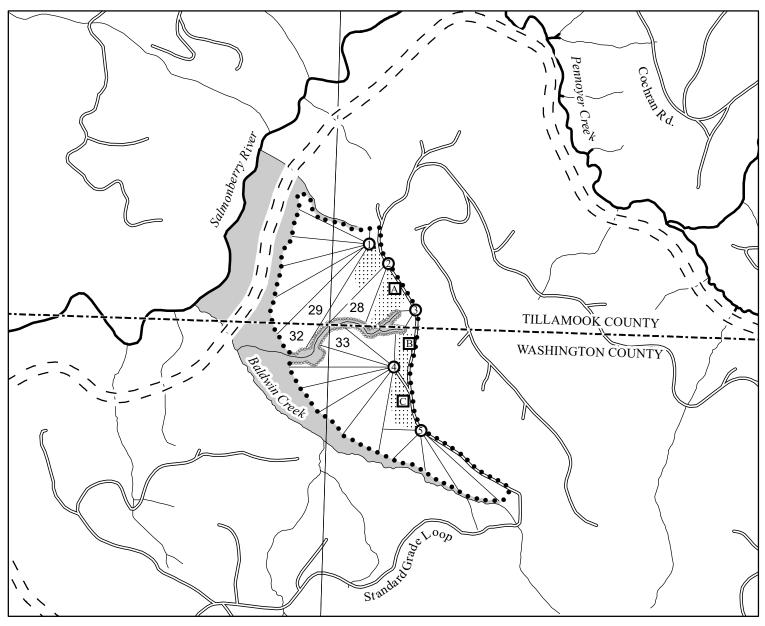
(Shown in MBF) Sloopy #FG-341-2021-W00550-01 May, 2020

MODIFIED CLEARCUT (66 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CAMP RUN	TOTAL
	Cruise Volume	3,912	709	67	0	4,688
Douglas fir	Hidden D&B (2%)	(78)	(14)	(1)	(0)	(93)
Douglas-fir	NET TOTAL	3,834	695	66	0	4,595
	% of Total	84	15	1	0	
	Cruise Volume	179	24	2	0	205
Noble fir	Hidden D&B (2%)	(4)	(0)	(0)	(0)	(4)
Noble III	NET TOTAL	175	24	2	0	201
	% of Total	87	12	1	0	
	Cruise Volume	0	0	0	90	90
Red Alder	Hidden D&B (5%)	(0)	(0)	(0)	(5)	(5)
Neu Aluei	NET TOTAL	0	0	0	85	85
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CAMP RUN	TOTAL
Douglas-fir	3,834	695	66	0	4,595
Noble fir	175	24	2	0	201
Red alder	0	0	0	85	85
TOTAL	4,009	719	68	85	4,881



Legend

ODF Ownership Boundary
Stream Buffer Boundary
Surfaced Road
New Road Construction
Type-N Stream
Stream Buffer
Cable Yarding Area
Tractor Yarding Area
O Cable Landing
Tractor Landing
Section Lines

County Line

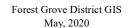
40 Foot Countour Band

200 Foot Countour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00550-01 SLOOPY

PORTIONS OF SECTIONS 28 & 29, T3N, R6W, W.M., TILLAMOOK COUNTY, OREGON, PORTIONS OF SECTIONS 32 & 33, T3N, R6W, W.M., WASHINGTON COUNTY, OREGON



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

1:12,000 1 inch = 1,000 feet APPROXIMATE NET ACRES

TRACTOR CABLE

TOTAL 8 58

0 250 500 1,000 1,500 2,000 Feet