

Sale FG-341-2021-W00244-01

District: Forest Grove Date: November 24, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$3,208,173.34	\$23,845.26	\$3,232,018.60
		Project Work:	(\$73,510.62)
		Advertised Value:	\$3,158,507.98



Sale FG-341-2021-W00244-01

District: Forest Grove Date: November 24, 2020

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	98
Western Hemlock / Fir	23	0	98
Alder (Red)	14	0	95

Volume by Grade	2\$	3S & 4S 6"- 11"	Camprun	Total
Douglas - Fir	4,191	1,554	0	5,745
Western Hemlock / Fir	77	21	0	98
Alder (Red)	0	0	113	113
Total	4,268	1,575	113	5,956

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

Noble fir and Other Conifers Stumpage Price = Pond Value minus Logging Cost:

\$280.73/MBF = \$562.29/MBF - \$281.56/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:

\$921.48/MBF = \$1,125/MBF - \$203.52/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

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

Slash Disposal: 30 acres x \$200/acre = \$6,000

TOTAL Other Costs (No Profit & Risk added) = \$13,500

ROAD MAINTENANCE

Normal Road Maintenance (includes move-in, grading, rolling, and spot rocking):

General Road Maintenance: 3.02 Miles X \$3,116.56 = \$9,412.01 TOTAL Road Maintenance: \$9,412.01/5,956MBF = \$1.57/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 67.13%

Western Hemlock / Fir 88.00% Alder (Red) 74.37%

yarding distance: Long (1,500 ft) downhill yarding: No

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

loads / day: 10 bd. ft / load: 4800

cost / mbf: \$125.00

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 32.87%

Western Hemlock / Fir 12.00% Alder (Red) 25.63%

Logging System: Shovel Process: Manual Delimbing

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

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

loads / day: 12 bd. ft / load: 4800

cost / mbf: \$57.77

machines: Shovel Logger



Sale FG-341-2021-W00244-01

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Logging Costs

Operating Seasons: 2.00

Profit Risk: 15%

Project Costs: \$73,510.62

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$13,500.00

Miles of Road

Road Maintenance:

\$1.57

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	4.0	
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								
\$102.90	\$1.60	\$1.47	\$67.29	\$0.00	\$25.99	\$0.00	\$2.00	\$2.27	\$203.52
Western H	emlock	/ Fir							
\$116.93	\$1.60	\$1.47	\$121.12	\$0.00	\$36.17	\$0.00	\$2.00	\$2.27	\$281.56
Alder (Red	l)								
\$107.77	\$1.65	\$1.47	\$166.25	\$0.00	\$41.57	\$0.00	\$2.00	\$2.27	\$322.98

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$757.16	\$553.64	\$0.00
Western Hemlock / Fir	\$0.00	\$562.29	\$280.73	\$0.00
Alder (Red)	\$0.00	\$534.00	\$211.02	\$0.00



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District: Forest Grove Date: November 24, 2020

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,745	\$553.64	\$3,180,661.80
Western Hemlock / Fir	98	\$280.73	\$27,511.54
Alder (Red)	113	\$211.02	\$23,845.26

Gross Timber Sale Value

Recovery: \$3,232,018.60

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

TIMBER SALE SUMMARY Devil Ray #FG-341-2021-W00244-01

- **1.** <u>Location</u>: Portions of Sections 34 & 35, T2N, R6W, W.M., and portions of Section 3, T1N, R6W, W.M., Tillamook County, Oregon.
- 2. <u>Type of Sale</u>: This timber sale is 186 acres of Modified Clearcut in three units. Unit 1 is 109 acres, Unit 2 is 18 acres, and Unit 3 is 59 acres. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF, 100% Tillamook County, Tax Code 56.
- **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 was cruised by ODF Cruisers Kenton Burns and Mark Savage in October and November of 2020. For more information, see Cruise Report.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists of three units of 64-year-old Douglas-fir timber, with minor amounts of red alder, western hemlock, noble fir and western red cedar.

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

Sale Unit	Net Acres	Average DBH	Trees/Acre	Net MBF/Acre
Unit 1	109	21	63	29
Unit 2	18	20	89	38
Unit 3	59	19	108	38

7. <u>Topography and Logging Method</u>: Slopes within the Timber Sale Area range from 5% to 70% and are variable in aspect. Elevations range from 1,300 to 2,320 feet. The following table summarizes the estimated maximum and average horizontal cable corridor length, the estimated maximum and average tractor skid trail length, and the percent harvest method for each Sale Unit.

	Tractor			Cable		
Sale Unit	Average	Maximum	%	Average	Maximum	%
Unit 1	150	350	12	700	2,000	88
Unit 2	200	500	100	NA	NA	0
Unit 3	150	350	40	450	1,000	60

- **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 continue west approximately 10.5 miles to Rutherford Road. Turn left and proceed 0.1 mile to the bottom of Unit 3 of the Timber Sale Area.
- 9. Projects:

Project No. 1: New Construction	\$25,734.97
Project No. 2: Road Improvement	\$33,271.07
Project No. 3: Gate Installation	\$8,106.97
Project No. 4: Road Maintenance	\$6,397.61
Total Credits:	\$73,510.62

PROJECT COST SUMMARY SHEET

Timber Sale: Devil Ray FG-341-2020-W00244-01 Sale Number: PROJECT NO. 1: ROCKED ROAD CONSTRUCTION Road Segment Length Cost A to B 4+40 \$3,595.33 C to D 4+70 \$4,095.29 E to F 4+15 \$3,729.30 G to H 13+20 \$12,473.98 26+45 stations 0.50 miles Total Rock = 264 cy 1½" - 0 3" - 0 2,432 cy Move-in = \$1,841.08 **TOTAL PROJECT COST =** \$25,734.97 PROJECT NO. 2: ROAD IMPROVEMENT Road Segment Length Cost I to J 102+80 \$18,040.37 K to L 13+20 \$1,325.64 M to N 31+05 \$3,220.80 O to P 20+65 \$2,484.50 Q to R 18+80 \$5,819.54 186+50 stations 3.53 miles Total Rock = 1,123 cy 1½" - 0 84 cy 3" - 0 Move-in = \$2,380.21 **TOTAL PROJECT COST =** \$33,271.07 **PROJECT NO. 3: GATE INSTALLATION** Location Gate Size Cost Point S 20' \$6,397.61 1½" - 0 Total Rock = 36 cy 12 cy **Boulders** \$492.95 Move-in = **TOTAL PROJECT COST =** \$6,397.61 **PROJECT NO. 4: PROJECT ROAD MAINTENANCE** Move-in = \$624.66 TOTAL PROJECT COST = \$8,106.97

TOTAL CREDITS =

\$73,510.62

Timber Sale: _		Devil Ray	/	Sale	e Number:	FG-341-20	020-W00244-01
Road Segment:		A to B		Col	nstruction:	4+40	stations
_				_		0.08	miles
PROJECT NO. 1							_
CONSTRUCTION							
Clearing & grubbing (scatter)	0.51	ac @	\$1,078.00	per ac =		\$549.78	
Balanced road construction	4.40	sta @	\$110.00	per sta =		\$484.00	
70' Landing	1	ea @	\$157.00	per ea =		\$157.00	
Grade, ditch, & roll	4.40	sta @		per sta =		\$158.40	•
				TOTAL CONS	TRUCTION	N COSTS =	\$1,349.18
ROCK							
				Placement/		I	
	Rock	Base	Haul Cost	Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy	Total O1	TOOK COSt	
Surfacing rock					•		
Surfacing rock	3" -0	\$1.21	\$4.15	\$1.22	286	\$1,881.78	
Junction	3" -0	\$1.21	\$4.15	\$1.22	36	\$236.87	
Landing	3" -0	\$1.21	\$4.15	\$1.22	180	\$1,184.34	
				Subtotal =	502	\$2,118.65	
						1	
			Totals	All Rock =			
				3" -0 =	502		
				<u>TO</u>	TAL ROCI	COSTS =	\$2,118.65
EROSION CONTROL							
Grass seed & fertilizer	0.26	ac @	\$500.00	per ac =		\$127.50	
		O		•			•
			<u>T</u>	OTAL EROSION	CONTRO	L COSTS =	\$127.50
				TOTA	L PROJE	CT COST =	\$3,595.33

Timber Sale:	_		,		le Number	EC 3/1 2	020-W00244-01
·				-			
Road Segment:		C to D		_	nstruction:	<u>4+70</u> 0.09	stations miles
						0.09	Tilles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	0.54	ac @	\$862.40	per ac =		\$465.70	
Balanced road construction	3.00	sta @	\$110.00	per sta =		\$330.00	
Drift	1.70	sta @	\$180.00	per sta =		\$306.00	
70' Landing	1	ea @	\$314.00	per ea =		\$314.00	
Grade, ditch, & roll	4.70	sta @	\$36.00	per sta =		\$169.20	_
				TOTAL CONS	TRUCTION	N COSTS =	\$1,584.90
ROCK							
ſ				Placement/			1
	Rock	Base	Haul Cost	Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy			
Surfacing rock					•		.
Surfacing rock	3" -0	\$1.21	\$4.29	\$1.22	306	\$2,052.85	
Junction	3" -0	\$1.21	\$4.29	\$1.22	48	\$322.54	
Landing	3" -0	\$1.21	\$4.29	\$1.22	180	\$1,209.54	
				Subtotal =	534	\$2,375.40]
			T-4-1-	All Deels	504	1	
			Totals	All Rock = 3" -0 =			
				3 -0 -	- 00+	1	
				<u>TC</u>	TAL ROCI	K COSTS =	\$2,375.40
EROSION CONTROL							
Grass seed & fertilizer	0.27	ac @	\$500.00	per ac =		\$135.00	
G. a. s. a.	0		4000.00	p =		ψ.σσ.σσ	•
			<u>T</u>	OTAL EROSION	I CONTRO	L COSTS =	\$135.00
				тот	AL PROJE	CT COST =	\$4,095.29
					•	•	

Timber Sale:	_	Devil Ray			e Number:	FG-341-2	020-W00244-01
Road Segment:	E to F		Construction: 4		4+15	4+15 stations	
· .				_		0.08	miles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	0.48	ac @	\$1,078.00	per ac =		\$517.44	
Balanced road construction	4.15		\$110.00			\$456.50	
Turnarounds	1		\$82.50			\$82.50	
70' Landing	1		\$314.00			\$314.00	
Grade, ditch, & roll	4.15	sta @		per sta =		\$149.40	_
				TOTAL CONS	TRUCTION	N COSTS =	\$1,519.84
ROCK							· · ·
				Placement/			1
	Rock	Base	Haul Cost	Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy	Total OT	TROOK GOOL	
Surfacing rock		1		- +- /			1
Surfacing rock	3" -0	\$1.21	\$4.23	\$1.22	270	\$1,796.44	
Junction	3" -0	\$1.21	\$4.23	\$1.22	24	\$159.83	
Turnaround	3" -0	\$1.21	\$4.23	\$1.22	20	\$133.19	
Landing	3" -0	\$1.21	\$4.23	\$1.22	180	\$1,198.74	
				Subtotal =	494	\$2,089.46	
			Totals	All Rock =	494		
			Totals	3" -0 =			
				TO	TAL ROCK	· 〈 COSTS =	\$2,089.46
				10	/I/IL INOUI	(00010 -	Ψ2,000.40
EROSION CONTROL	0.04	_	# 500.60			# 400.60	
Grass seed & fertilizer	0.24	ac @	\$500.00	per ac =		\$120.00	-
			<u>T</u>	OTAL EROSION	CONTRO	L COSTS =	\$120.00
				<u>TOT</u>	AL PROJE	CT COST =	\$3,729.30

Timber	Sale:	Devil Ra	у	S	ale Number:	FG-341-20	20-W00244-01
Road Seg	ment:	G to H			construction:	13+20	stations
				_		0.25	miles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	1.52	ac @	\$1,078.00	per ac =		\$1,638.56	
Balanced road construction	4.30		\$110.00			\$473.00	
Drift	8.90		\$180.00			\$1,602.00	
Turnouts	1	ea @				\$66.00	
Turnarounds	1	ea @				\$82.50	
Roadside 50' landing	1		\$165.00			\$165.00	
70' Landing	1		\$314.00			\$314.00	
Grade, ditch, & roll	13.20			per sta =		\$475.20	
Grade, ditori, & roil	10.20	31a W	ψ30.00	per sta –		ψ+73.20	
				TOTAL CON	STRUCTION	N COSTS =	\$4,816.26
CULVERTS							
Culverts and Bands							
18" Diameter	30	LF @	\$20.00	per LF =		\$600.00	
Markers & Stakes							
Culvert markers	1	ea @	\$10.00	per ea =		\$10.00	
				TOTA	AL CHILVED	T COCTC -	# C40.00
DOCK				1017	AL CULVER	1 00818 =	\$610.00
ROCK	<u> </u>						
	Rock	Base	Haul Cost	Placement/			
	Size			Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	ф/Су	Cost \$/cy			
Surfacing rock				_			
Base rock	3" -0		\$4.33	\$1.22	554	\$3,747.55	
Traction rock	1½" -		\$4.33	\$1.22	264	\$1,784.55	
Junction	3" -0	\$1.21	\$4.33	\$1.22	24	\$162.23	
Turnout	3" -0	\$1.21	\$4.33	\$1.22	29	\$196.03	
Turnaround	3" -0		\$4.33	\$1.22	20	\$135.19	
Roadside landing	3" -0	\$1.21	\$4.33	\$1.22	95	\$642.17	
Landing	3" -0	\$1.21	\$4.33	\$1.22	180	\$1,216.74	
-	-			Subtotal =	1,166	\$6,667.72	
			Totals	All Rock	= 1,166		
				1½" - 0	= 264		
				3" - 0	= 902	1	
				<u>I</u>	OTAL ROCI	K COSTS =	\$6,667.72
EROSION CONTROL							
Grass seed & fertilizer	0.76	ac @	\$500.00	per ac =		\$380.00	
	3.70	40 W	4000.00	F 5. 5.5		+++++++++++++++++++++++++++++++++++++	
			Т	OTAL EROSIO	N CONTRO	L COSTS =	\$380.00
			_				
				<u>TO</u> 1	TAL PROJE	CT COST =	\$12,473.98
						=	· · · · · · · · · · · · · · · · · · ·

	SUMIN	IARY OF C	ONSTRUC				
Timber Sale:		Devil Ray		_ Sal	e Number:	FG-341-202	20-W00244-01
Road Segment		I to J		Imp	rovement:	102+80	stations
Ţ.				-		1.95	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	1.18	ac @	\$1.078.00	per acre =		\$1,272.04	
Clean ditch & scatter waste material	102.80	sta @		per sta =		\$6,168.00	
Clean culvert inlet & outlet, scatter waste	3	ea @		per ea =		\$75.00	
Cutslope layback		O	•	•		,	
Excavate & load	200	cy @	\$1.90	per cy =		\$380.00	
Haul	260	cy @		per cy =		\$208.00	
Shape and compact waste material	260	cy @		per cy =		\$78.00	
Construct Settling Ponds	2	ea @		per ea =		\$50.00	
Improve Turnouts	14	ea @		per ea =		\$452.32	
Grade, ditch, & roll	102.80	sta @		per sta =		\$3,700.80	
Grade, diteri, & roll	102.00	314 (6)	ψ50.00	per sta –		ψ5,700.00	
				TOTAL IMPE	ROVEMEN	T COSTS =	\$12,384.16
CULVERTS						_	
Culverts and Bands	_						
18" Diameter	40	LF @	\$20.00	per LF =		\$800.00	
Markers & Stakes		O		•			
Culvert Markers	5	ea @	\$10.00	per ea =		\$50.00	
		O	•	•			
				ΤΟΤΔΙ	CHIVER	T COSTS =	\$850.00
ROCK				<u>10174</u>	OOLVER	1 00010 =	ψ000.00
ROOK		1	1				
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy	\$/cy	Processing Cost \$/cy	Total CY	Rock Cost	
	GIZE	Ουσι φισγ	φ/оу	1 100000mig 000t ¢/oy			
Subgrade rock							
Bedding and backfill	1½" - 0	\$1.21	\$4.50	\$0.50	24	\$149.03	
	_			Subtotal =	24	\$149.03	
Surfacing rock						_	
Spot rock	1½" - 0	\$1.21	\$4.89	\$1.22	500	\$3,659.82	
Base Rock	3" -0	\$1.21	\$4.89	\$1.22	42	\$307.43	
Surfacing Rock	1½" - 0	\$1.21	\$4.89	\$1.22	60	\$439.18	
				Subtotal =	602	\$4,406.43	
			Totals	All Rock =	626		
				1½" - 0 =	584	1	
				3" - 0 =	42	1	
						_	
				TC	TAL ROC	K COSTS =	\$4,555.46
EDOSION CONTROL				<u> </u>			, ,
EROSION CONTROL	- 0.50	@	#40 F 00				
Grass seed & fertilizer	0.59	ac @	\$425.00	per ac =		\$250.75	
				TOTAL EROSION	CONTRO	L COSTS =	\$250.75
				TOTAL LINGUION	JOHINO		Ψ200.10
				<u>TOT</u>	AL PROJE	CT COST =	\$18,040.37
					· <u> </u>	_=	

Т	imber Sale:		Devil Ray	/		ale Number:	FG-341-202	20-W00244-01
Roa	d Segment:		K to L			mprovement:	13+20 0.25	stations miles
PROJECT NO. 2								
IMPROVEMENT								
Clearing & grubbing (scatter)		0.16	ac @	\$1,078.00	per acre =		\$172.48	
Grade, ditch, & roll		13.20	sta @	\$36.00	per sta =		\$475.20	
					TOTAL IM	PROVEMEN	T COSTS =	\$647.68
ROCK							_	
		Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/	cy Total CY	Rock Cost	
Surfacing rock								
Spot rock		1½" - 0	\$1.21	\$4.01	\$1.22	100	\$643.96	
					Subtotal =	100	\$643.96	
				Totals	All Rock]	
						TOTAL ROC	K COSTS =	\$643.96
Grass seed & fertilizer		0.08	ac @	\$425.00	per ac =		\$34.00	
					TOTAL EROSIG	ON CONTRO	L COSTS =	\$34.00
					то	TAL PROJE	CT COST =	\$1,325.64

Timber Sale:		Devil Ray	/	Sal	e Number:	FG-341-202	20-W00244-01
Road Segment:		M to N		Imp	rovement:		stations
						0.59	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.36	ac @	\$1,078.00	per acre =		\$388.08	
Roadside brushing (light)	0.59	mi @	\$850.00	per mi =		\$499.86	
Improve Turnouts	4	ea @	\$33.00	per ea =		\$136.62	
Grade, ditch, & roll	31.05	sta @	\$36.00	per sta =		\$1,117.80	
				TOTAL IMPE	ROVEMEN	T COSTS =	\$2,142.36
ROCK						_	
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock		I			- L	<u> </u>	
Spot rock	1½" - 0	\$1.21	\$4.25	\$1.22	150	\$1,001.95	
				Subtotal =	150	\$1,001.95	
			Totals	All Rock = 1½" - 0 =			
				TC	TAL ROC	K COSTS =	\$1,001.95
EROSION CONTROL Grass seed & fertilizer	0.18	ac @	\$425.00	per ac =		\$76.50	
				TOTAL EROSION	CONTRO	L COSTS =	\$76.50
				<u> 101/</u>	AL PROJE	CT COST =	\$3,220.80

			0.1000	711014 0001			
Timber Sale:		Devil Ray	/	_ Sale	e Number:	FG-341-202	20-W00244-01
Road Segment:		O to P		Imp	rovement:	20+65	stations
•				<u>-</u>		0.39	miles
PROJECT NO. 2							
IMPROVEMENT	_						
Clearing & grubbing (scatter)	0.24	ac @	\$1,078.00	per acre =		\$258.72	
Roadside brushing (light)	0.39	mi @		per mi =		\$332.43	
Improve Turnouts	3	ea @	\$33.00	per ea =		\$99.00	
Grade, ditch, & roll	20.65	sta @	\$36.00	per sta =		\$743.40	
				TOTAL IMPR	OVEMEN	T COSTS =	\$1,433.55
CULVERTS	_						
Markers & Stakes			040.00			# 40.00	
Culvert Markers	1	ea @	\$10.00	per ea =		\$10.00	
				TOTAL	CUI VER	T COSTS =	\$10.00
ROCK	<u>-</u>			<u>101712</u>	OOLVER	_	Ψ10.00
	Rock	Base	Haul Cost	Placement/	T-4-1 0V	Darla Oart	
	Size	Cost \$/cy	\$/cy	Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock							
Spot rock	1½" - 0	\$1.21	\$4.17	\$1.22	150	\$989.95	
				Subtotal =	150	\$989.95	
			Totals	All Rock =	150		
				1½" - 0 =			
				TO	TAL DOC	/ COSTS =	\$989.95
EDOSION CONTROL				<u>10</u>	TAL ROCI	K COSTS =	ф909.95
Grass seed & fertilizer	0.12	ac @	\$425.00	per ac =		\$51.00	
		Ü		TOTAL EROSION	CONTRO		\$51.00
				TOTAL LINUSION	CONTRO	<u> </u>	φ51.00
				TOT 4	I DDO 15	CT COST -	CO 404 FO
				<u>1014</u>	L PROJE	CT COST =	\$2,484.50

	SUMN	MARY OF C	ONSTRUC	TION COST			
Timber Sale:		Devil Ray	y	5	Sale Number:	FG-341-202	0-W00244-01
Road Segment:		Q to R		- Ii	mprovement:	18+80	stations
				_		0.36	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.22	ac @	\$1,078,00	per acre =		\$237.16	
Roadside brushing (light)	0.34	mi @		•		\$287.36	
Cutslope layback			*************	F		+ ==:::==	
Excavate & load	739	cy @	\$1.60	per cy =		\$1,182.22	
Haul	961	cy @		per cy =		\$1,056.61	
Shape and compact waste material	961	cy @	\$0.30	per cy =		\$288.17	
Improve Turnouts	2	ea @		per ea =		\$66.00	
Grade, ditch, & roll	18.80	sta @		per sta =		\$676.80	
		Ū		TOTALINA		T 000T0	#0.704.00
CHIVEDTS				<u>IOIAL IM</u>	PROVEMEN [®]	1 00818 =	\$3,794.32
CULVERTS Culverts and Bands	-						
18" Diameter	40	LF @	\$20.00	per LF =		\$800.00	
Markers & Stakes	40	LF @	φ20.00	per Lr –		\$600.00	
Culvert Markers	2	ea @	\$10.00	per ea =		\$20.00	
Culvert Markers	2	ea w	φ10.00	per ea –		\$20.00	
				TOT	AL CULVER	T COSTS -	\$820.00
ROCK				<u>101</u>	AL CULVER	1 00313 =	Φ020.00
NOCK		,					
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy		Processing Cost \$/	cv Total CY	Rock Cost	
		, ,	. ,	J - ,.	<u> </u>		
Subgrade rock	41/11 0	04.04	#0.70	#0.50	0.4	#404.00	
Bedding and backfill	1½" - 0	\$1.21	\$3.79	\$0.50	24	\$131.99	
Comfacina wash	1			Subtotal =	24	\$131.99	
Surfacing rock Spot rock	1½" - 0	\$1.21	\$3.79	\$1.22	100	¢624.06	
Base rock	3" -0	\$1.21	\$3.79	\$1.22	42	\$621.96 \$261.23	
Surfacing rock	1½" - 0	\$1.21	\$3.79	\$1.22	15	\$93.29	
Surfacing rock	1/2 - 0	φ1.Δ1	φ3.79	Subtotal =	157	\$976.48	
				Oubtotal –	107	Ψ510.40	
			Totals	All Rock	c = 1 181]	
			rotato	1½" -			
				3" -			
					0 1 .2	I	
					TOTAL ROCI	COSTS =	\$1,108.48
EROSION CONTROL				•			, ,
Grass seed & fertilizer	0.11	ac @	\$425.00	per ac =		\$46.75	
Straw Mulch Bale	5	ea @	\$10.00	per ac =		\$50.00	
Staw Mulon Balo	J	ca w	ψ10.00	poi ea –		Ψ00.00	
				TOTAL EROSIO	ON CONTRO	L COSTS =	\$96.75
				TO	TAL PROJE	CT COST -	\$5,819.54
				<u>10</u>	TAL FRUJE	<u> </u>	φυ,υ 13.04

Timber Sale:		Devil Ray	/	Sa	le Number:	FG-341-2020-W00	244-01
Road Segment:		Point S					
PROJECT NO. 3							
GATE CONSTRUCTION							
20' Gate, Metal, Paint and Shop Supplies	1	ea @	\$1,960.00	per ea =		\$1,960.00	
Cutting, Welding and Painting	16.00	hr @	\$75.00	per hr =		\$1,200.00	
GATE INSTALLATION							
Equipment time, Labor & Welding	1	ea @	\$1,200.00	per ea =		\$1,200.00	
Painting and Concrete	1	ea @	\$1,725.00	per ea =		\$1,725.00	
ROCK							
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock						· · · · · · · · · · · · · · · · · · ·	
Blocking Boulders	36"-24"	\$2.01	\$3.78	\$1.60	12	\$88.71	
Surfacing rock	1½" - 0	\$1.21	\$3.79	\$1.22	36	\$223.91	
				Subtotal =	48	\$312.61	

Totals

All Rock =	48
Blocking Boulders =	12
1½" - 0 =	36

TOTAL ROCK COSTS = \$312.61

TOTAL PROJECT COST = \$6,397.61

Timber Sale: Devil Ray Sale Number: FG-341-2020-W00244-01 194+14 Maintenance stations 3.68 miles **PROJECT NO. 4** ROAD MAINTENACE 194.14 sta @ Grade, ditch, & roll \$36.00 per sta = \$6,989.04 TOTAL IMPROVEMENT COSTS = \$6,989.04 ROCK Placement/ Rock Base Haul Cost Processing Total CY Rock Cost Cost \$/cy Size \$/cy Cost \$/cy Surfacing rock 1½" - 0 \$1.21 \$1.22 \$1,117.93 Spot rock \$3.16 200 Subtotal = 200 \$1,117.93

Totals

All Rock =	200
1½" - 0 =	200

TOTAL ROCK COSTS = \$1,117.93

TOTAL PROJECT COST = \$8,106.97

Timber Sale: Devil Ray Sale Number: FG-341-2020-W00244-01

PROJECT No. 1, 2, 3 & 4 MOVE-IN & CLEANING COSTS
--

Equipment	Total	
Brush Cutter	\$453.26	
Grader	\$747.62	
Roller (smooth/grid) & Compactor	\$453.26	
Excavator (Large) - Equipment Cleaning	\$1,747.62	
Dozer (Large) - Equipment Cleaning	\$1,792.20	
Dump Truck (10cy +)	\$144.93	
	TOTAL MOVE-IN COSTS =	\$5,338.89

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Devil Ray Sale Number: FG-341-2020-W00244-01 Stockpile Name: Beaverdam Stockpile & Quarry 1 1/2" - 0: 1,423 cy (truck measure) (truck measure) 3" -0: 2,432 cy Boulders: 12 Each Total truck yardage: 3,867 cy

Move-in Move in excavator \$686.11 Move in loader \$618.88 Move in Dump Trucks \$288.57 Subtotal = \$1,593.56 Per CY = \$0.41/cy **Base Cost** Load dump truck \$0.80 / cy x 3,855 cy = \$3,083.72 Subtotal = \$3,083.72 Per CY = \$0.80 **Boulder Base Cost** \$19.20 Load dump truck \$1.60 / cy x 12 cy = Subtotal = \$19.20 Per CY = \$1.60 Total = \$4,677.28

> 1 1/2"-0 Cost = \$1.21/cy 3"-0 Cost = \$1.21/cy Boulder Cost = \$2.01/cy

Timber Sale: Devil Ray			Sale Number: FG-341-2020-W00244-01				
Road Segment:		A to B		Col	nstruction:	4+40	stations
_				_		0.08	miles
PROJECT NO. 1							_
CONSTRUCTION							
Clearing & grubbing (scatter)	0.51	ac @	\$1,078.00	per ac =		\$549.78	
Balanced road construction	4.40	sta @	\$110.00	per sta =		\$484.00	
70' Landing	1	ea @	\$157.00	per ea =		\$157.00	
Grade, ditch, & roll	4.40	sta @		per sta =		\$158.40	•
				TOTAL CONS	TRUCTION	N COSTS =	\$1,349.18
ROCK							
				Placement/		I	
	Rock	Base	Haul Cost	Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy	Total O1	TOOK COSt	
Surfacing rock					•		
Surfacing rock	3" -0	\$1.21	\$4.15	\$1.22	286	\$1,881.78	
Junction	3" -0	\$1.21	\$4.15	\$1.22	36	\$236.87	
Landing	3" -0	\$1.21	\$4.15	\$1.22	180	\$1,184.34	
				Subtotal =	502	\$2,118.65	
						1	
			Totals	All Rock =			
				3" -0 =	502		
				<u>TO</u>	TAL ROCI	COSTS =	\$2,118.65
EROSION CONTROL							
Grass seed & fertilizer	0.26	ac @	\$500.00	per ac =		\$127.50	
		O		•			•
			<u>T</u>	OTAL EROSION	CONTRO	L COSTS =	\$127.50
				TOTA	L PROJE	CT COST =	\$3,595.33

Timber Sale:	_		,		le Number	EC 3/1 2	020-W00244-01
·			/	-			
Road Segment:		C to D		_	nstruction:	<u>4+70</u> 0.09	stations miles
						0.09	Tilles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	0.54	ac @	\$862.40	per ac =		\$465.70	
Balanced road construction	3.00	sta @	\$110.00	per sta =		\$330.00	
Drift	1.70	sta @	\$180.00	per sta =		\$306.00	
70' Landing	1	ea @	\$314.00	per ea =		\$314.00	
Grade, ditch, & roll	4.70	sta @	\$36.00	per sta =		\$169.20	_
				TOTAL CONS	TRUCTION	N COSTS =	\$1,584.90
ROCK							
ſ				Placement/			1
	Rock	Base	Haul Cost	Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy			
Surfacing rock					•		.
Surfacing rock	3" -0	\$1.21	\$4.29	\$1.22	306	\$2,052.85	
Junction	3" -0	\$1.21	\$4.29	\$1.22	48	\$322.54	
Landing	3" -0	\$1.21	\$4.29	\$1.22	180	\$1,209.54	
				Subtotal =	534	\$2,375.40]
			T-4-1-	All Deels	504	1	
			Totals	All Rock = 3" -0 =			
				3 -0 -	- 00+	J	
				<u>TC</u>	TAL ROCI	K COSTS =	\$2,375.40
EROSION CONTROL							
Grass seed & fertilizer	0.27	ac @	\$500.00	per ac =		\$135.00	
G. a. s. a.	0		4000.00	p =		ψ.σσ.σσ	•
			<u>T</u>	OTAL EROSION	I CONTRO	L COSTS =	\$135.00
				тот	AL PROJE	CT COST =	\$4,095.29
					•	•	

Timber Sale:	: Devil Ray			Sal	020-W00244-01		
Road Segment:		E to F		- Co	Construction:		stations
· .				_		0.08	miles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	0.48	ac @	\$1,078.00	per ac =		\$517.44	
Balanced road construction	4.15		\$110.00			\$456.50	
Turnarounds	1		\$82.50			\$82.50	
70' Landing	1		\$314.00			\$314.00	
Grade, ditch, & roll	4.15	sta @		per sta =		\$149.40	_
				TOTAL CONS	TRUCTION	N COSTS =	\$1,519.84
ROCK							· · ·
				Placement/			1
	Rock	Base	Haul Cost	Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Cost \$/cy	Total OT	TROOK GOOL	
Surfacing rock		1		- +- /			1
Surfacing rock	3" -0	\$1.21	\$4.23	\$1.22	270	\$1,796.44	
Junction	3" -0	\$1.21	\$4.23	\$1.22	24	\$159.83	
Turnaround	3" -0	\$1.21	\$4.23	\$1.22	20	\$133.19	
Landing	3" -0	\$1.21	\$4.23	\$1.22	180	\$1,198.74	
				Subtotal =	494	\$2,089.46	
			Totals	All Rock =	494		
			Totals	3" -0 =			
				TO	TAL ROCK	· 〈 COSTS =	\$2,089.46
				10	/I/IL INOUI	(00010 -	Ψ2,000.40
EROSION CONTROL	0.04	_	# 500.60			# 400.60	
Grass seed & fertilizer	0.24	ac @	\$500.00	per ac =		\$120.00	-
			<u>T</u>	OTAL EROSION	CONTRO	L COSTS =	\$120.00
				<u>TOT</u>	AL PROJE	CT COST =	\$3,729.30

Timber	Sale:	Devil Ra	у	S	ale Number:	FG-341-20	20-W00244-01
Road Seg	ment:	G to H			construction:	13+20	stations
				_		0.25	miles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	1.52	ac @	\$1,078.00	per ac =		\$1,638.56	
Balanced road construction	4.30		\$110.00			\$473.00	
Drift	8.90		\$180.00			\$1,602.00	
Turnouts	1	ea @				\$66.00	
Turnarounds	1	ea @				\$82.50	
Roadside 50' landing	1		\$165.00			\$165.00	
70' Landing	1		\$314.00			\$314.00	
Grade, ditch, & roll	13.20			per sta =		\$475.20	
Grade, ditori, & roil	10.20	31a W	ψ30.00	per sta –		ψ+73.20	
				TOTAL CON	STRUCTION	N COSTS =	\$4,816.26
CULVERTS							
Culverts and Bands							
18" Diameter	30	LF @	\$20.00	per LF =		\$600.00	
Markers & Stakes							
Culvert markers	1	ea @	\$10.00	per ea =		\$10.00	
				TOTA	AL CHILVED	T COCTC -	# C40.00
DOCK				1017	AL CULVER	1 00818 =	\$610.00
ROCK	<u> </u>						
	Rock	Base	Haul Cost	Placement/			
	Size			Processing	Total CY	Rock Cost	
	Size	Cost \$/cy	ф/Су	Cost \$/cy			
Surfacing rock				_			
Base rock	3" -0		\$4.33	\$1.22	554	\$3,747.55	
Traction rock	1½" -		\$4.33	\$1.22	264	\$1,784.55	
Junction	3" -0	\$1.21	\$4.33	\$1.22	24	\$162.23	
Turnout	3" -0	\$1.21	\$4.33	\$1.22	29	\$196.03	
Turnaround	3" -0		\$4.33	\$1.22	20	\$135.19	
Roadside landing	3" -0	\$1.21	\$4.33	\$1.22	95	\$642.17	
Landing	3" -0	\$1.21	\$4.33	\$1.22	180	\$1,216.74	
-	-			Subtotal =	1,166	\$6,667.72	
			Totals	All Rock	= 1,166		
				1½" - 0	= 264		
				3" - 0	= 902	1	
				<u>I</u>	OTAL ROCI	K COSTS =	\$6,667.72
EROSION CONTROL							
Grass seed & fertilizer	0.76	ac @	\$500.00	per ac =		\$380.00	
	3.70	40 W	4000.00	F 5. 5.5		+++++++++++++++++++++++++++++++++++++	
			Т	OTAL EROSIO	N CONTRO	L COSTS =	\$380.00
			_				
				<u>TO</u> 1	TAL PROJE	CT COST =	\$12,473.98
						=	· · · · · · · · · · · · · · · · · · ·

	SUMIN	IARY OF C	ONSTRUC				
Timber Sale:		Devil Ray		_ Sal	e Number:	FG-341-202	20-W00244-01
Road Segment		I to J		Imp	rovement:	102+80	stations
Ţ.				-		1.95	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	1.18	ac @	\$1.078.00	per acre =		\$1,272.04	
Clean ditch & scatter waste material	102.80	sta @		per sta =		\$6,168.00	
Clean culvert inlet & outlet, scatter waste	3	ea @		per ea =		\$75.00	
Cutslope layback		O	•	•		,	
Excavate & load	200	cy @	\$1.90	per cy =		\$380.00	
Haul	260	cy @		per cy =		\$208.00	
Shape and compact waste material	260	cy @		per cy =		\$78.00	
Construct Settling Ponds	2	ea @		per ea =		\$50.00	
Improve Turnouts	14	ea @		per ea =		\$452.32	
Grade, ditch, & roll	102.80	sta @		per sta =		\$3,700.80	
Grade, diteri, & roll	102.00	314 (6)	ψ50.00	per sta –		ψ5,700.00	
				TOTAL IMPE	ROVEMEN	T COSTS =	\$12,384.16
CULVERTS						_	
Culverts and Bands	_						
18" Diameter	40	LF @	\$20.00	per LF =		\$800.00	
Markers & Stakes		O		•			
Culvert Markers	5	ea @	\$10.00	per ea =		\$50.00	
		O	•	•			
				ΤΟΤΔΙ	CHIVER	T COSTS =	\$850.00
ROCK				<u>10174</u>	OOLVER	1 00010 =	ψ000.00
ROOK		1	1				
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy	\$/cy	Processing Cost \$/cy	Total CY	Rock Cost	
	GIZE	Ουσι φισγ	φ/оу	1 100000mig 000t ¢/oy			
Subgrade rock							
Bedding and backfill	1½" - 0	\$1.21	\$4.50	\$0.50	24	\$149.03	
	_			Subtotal =	24	\$149.03	
Surfacing rock						_	
Spot rock	1½" - 0	\$1.21	\$4.89	\$1.22	500	\$3,659.82	
Base Rock	3" -0	\$1.21	\$4.89	\$1.22	42	\$307.43	
Surfacing Rock	1½" - 0	\$1.21	\$4.89	\$1.22	60	\$439.18	
				Subtotal =	602	\$4,406.43	
			Totals	All Rock =	626		
				1½" - 0 =	584	1	
				3" - 0 =	42	1	
						_	
				TC	TAL ROC	K COSTS =	\$4,555.46
EDOSION CONTROL				<u> </u>			, ,
EROSION CONTROL	- 0.50	@	#40 F 00				
Grass seed & fertilizer	0.59	ac @	\$425.00	per ac =		\$250.75	
				TOTAL EROSION	CONTRO	L COSTS =	\$250.75
				TOTAL LINGUION	JOHINO		Ψ200.10
				<u>TOT</u>	AL PROJE	CT COST =	\$18,040.37
					· <u> </u>	_=	

Т	imber Sale:		Devil Ray	/	Sale Number: _F		FG-341-202	FG-341-2020-W00244-01	
Roa	d Segment:		K to L			mprovement:	13+20 0.25	stations miles	
PROJECT NO. 2									
IMPROVEMENT									
Clearing & grubbing (scatter)		0.16	ac @	\$1,078.00	per acre =		\$172.48		
Grade, ditch, & roll		13.20	sta @	\$36.00	per sta =		\$475.20		
					TOTAL IM	PROVEMEN	T COSTS =	\$647.68	
ROCK							_		
		Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/	cy Total CY	Rock Cost		
Surfacing rock									
Spot rock		1½" - 0	\$1.21	\$4.01	\$1.22	100	\$643.96		
					Subtotal =	100	\$643.96		
				Totals	All Rock]		
						TOTAL ROC	K COSTS =	\$643.96	
Grass seed & fertilizer		0.08	ac @	\$425.00	per ac =		\$34.00		
					TOTAL EROSIG	ON CONTRO	L COSTS =	\$34.00	
					то	TAL PROJE	CT COST =	\$1,325.64	

Timber Sale:		Devil Ray	/	Sal	FG-341-202	20-W00244-01	
Road Segment:		M to N		Imp	rovement:		stations
						0.59	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.36	ac @	\$1,078.00	per acre =		\$388.08	
Roadside brushing (light)	0.59	mi @	\$850.00	per mi =		\$499.86	
Improve Turnouts	4	ea @	\$33.00	per ea =		\$136.62	
Grade, ditch, & roll	31.05	sta @	\$36.00	per sta =		\$1,117.80	
				TOTAL IMPE	ROVEMEN	T COSTS =	\$2,142.36
ROCK						_	
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock		I			- L	<u> </u>	
Spot rock	1½" - 0	\$1.21	\$4.25	\$1.22	150	\$1,001.95	
				Subtotal =	150	\$1,001.95	
			Totals	All Rock = 1½" - 0 =			
				TC	TAL ROC	K COSTS =	\$1,001.95
EROSION CONTROL Grass seed & fertilizer	0.18	ac @	\$425.00	per ac =		\$76.50	
				TOTAL EROSION	CONTRO	L COSTS =	\$76.50
				<u> 101/</u>	AL PROJE	CT COST =	\$3,220.80

			0.1000	711014 0001			
Timber Sale:		Devil Ray	/	_ Sale	e Number:	FG-341-202	20-W00244-01
Road Segment:		O to P		Imp	rovement:	20+65	stations
•				<u>-</u>		0.39	miles
PROJECT NO. 2							
IMPROVEMENT	_						
Clearing & grubbing (scatter)	0.24	ac @	\$1,078.00	per acre =		\$258.72	
Roadside brushing (light)	0.39	mi @		per mi =		\$332.43	
Improve Turnouts	3	ea @	\$33.00	per ea =		\$99.00	
Grade, ditch, & roll	20.65	sta @	\$36.00	per sta =		\$743.40	
				TOTAL IMPR	OVEMEN	T COSTS =	\$1,433.55
CULVERTS	_						
Markers & Stakes			040.00			# 40.00	
Culvert Markers	1	ea @	\$10.00	per ea =		\$10.00	
				TOTAL	CUI VER	T COSTS =	\$10.00
ROCK	<u>-</u>			<u>101712</u>	OOLVER	_	Ψ10.00
	Rock	Base	Haul Cost	Placement/	T-4-1 0V	Darla Oart	
	Size	Cost \$/cy	\$/cy	Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock							
Spot rock	1½" - 0	\$1.21	\$4.17	\$1.22	150	\$989.95	
				Subtotal =	150	\$989.95	
			Totals	All Rock =	150		
				1½" - 0 =			
				TO	TAL DOC	/ COSTS =	\$989.95
EDOCION CONTROL				<u>10</u>	TAL ROCI	K COSTS =	ф909.95
Grass seed & fertilizer	0.12	ac @	\$425.00	per ac =		\$51.00	
		Ü		TOTAL EROSION	CONTRO		\$51.00
				TOTAL LINUSION	CONTRO	<u> </u>	φ51.00
				TOT 4	I DDO 15	CT COST -	CO 404 FO
				<u>1014</u>	L PROJE	CT COST =	\$2,484.50

	SUMN	MARY OF C	ONSTRUC	TION COST			
Timber Sale:		Devil Ray	y	5	Sale Number:	FG-341-202	0-W00244-01
Road Segment:		Q to R		- Ii	mprovement:	18+80	stations
				_		0.36	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.22	ac @	\$1,078,00	per acre =		\$237.16	
Roadside brushing (light)	0.34	mi @		•		\$287.36	
Cutslope layback			***************************************	F		4 =0.100	
Excavate & load	739	cy @	\$1.60	per cy =		\$1,182.22	
Haul	961	cy @		per cy =		\$1,056.61	
Shape and compact waste material	961	cy @	\$0.30	per cy =		\$288.17	
Improve Turnouts	2	ea @		per ea =		\$66.00	
Grade, ditch, & roll	18.80	sta @		per sta =		\$676.80	
		Ū		TOTALINA		T 000T0	#0.704.00
CHIVEDTS				<u>IOIAL IM</u>	PROVEMEN [®]	1 00818 =	\$3,794.32
CULVERTS Culverts and Bands	-						
18" Diameter	40	LF @	\$20.00	per LF =		\$800.00	
Markers & Stakes	40	LF @	φ20.00	per Lr –		\$600.00	
Culvert Markers	2	ea @	\$10.00	per ea =		\$20.00	
Culvert Markers	2	ea w	φ10.00	per ea –		\$20.00	
				TOT	AL CULVER	T COSTS -	\$820.00
ROCK				<u>101</u>	AL CULVER	1 00313 =	Φ020.00
NOCK		,					
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy		Processing Cost \$/	cv Total CY	Rock Cost	
		, ,	. ,	J - ,.	<u> </u>		
Subgrade rock	41/11 0	04.04	#0.70	#0.50	0.4	#404.00	
Bedding and backfill	1½" - 0	\$1.21	\$3.79	\$0.50	24	\$131.99	
Comfacina wash	1			Subtotal =	24	\$131.99	
Surfacing rock Spot rock	1½" - 0	\$1.21	\$3.79	\$1.22	100	¢624.06	
Base rock	3" -0	\$1.21	\$3.79	\$1.22	42	\$621.96 \$261.23	
Surfacing rock	1½" - 0	\$1.21	\$3.79	\$1.22	15	\$93.29	
Surfacing rock	1/2 - 0	φ1.Δ1	φ3.79	Subtotal =	157	\$976.48	
				Oubtotal –	107	Ψ510.40	
			Totals	All Rock	c = 1 181]	
			rotato	1½" -			
				3" -			
					0 1 .2	I	
					TOTAL ROCI	COSTS =	\$1,108.48
EROSION CONTROL				•			, ,
Grass seed & fertilizer	0.11	ac @	\$425.00	per ac =		\$46.75	
Straw Mulch Bale	5	ea @	\$10.00	per ac =		\$50.00	
Staw Mulon Balo	J	ca w	ψ10.00	poi ea –		Ψ00.00	
				TOTAL EROSIO	ON CONTRO	L COSTS =	\$96.75
				TO	TAL PROJE	CT COST -	\$5,819.54
				<u>10</u>	TAL FRUJE	<u> </u>	φυ,υ 13.04

Timber Sale:		Devil Ray	/	Sa	le Number:	FG-341-2020-W00	244-01
Road Segment:		Point S					
PROJECT NO. 3							
GATE CONSTRUCTION							
20' Gate, Metal, Paint and Shop Supplies	1	ea @	\$1,960.00	per ea =		\$1,960.00	
Cutting, Welding and Painting	16.00	hr @	\$75.00	per hr =		\$1,200.00	
GATE INSTALLATION							
Equipment time, Labor & Welding	1	ea @	\$1,200.00	per ea =		\$1,200.00	
Painting and Concrete	1	ea @	\$1,725.00	per ea =		\$1,725.00	
ROCK							
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock						· · · · · · · · · · · · · · · · · · ·	
Blocking Boulders	36"-24"	\$2.01	\$3.78	\$1.60	12	\$88.71	
Surfacing rock	1½" - 0	\$1.21	\$3.79	\$1.22	36	\$223.91	
				Subtotal =	48	\$312.61	

Totals

All Rock =	48
Blocking Boulders =	12
1½" - 0 =	36

TOTAL ROCK COSTS = \$312.61

TOTAL PROJECT COST = \$6,397.61

Timber Sale: Devil Ray Sale Number: FG-341-2020-W00244-01 194+14 Maintenance stations 3.68 miles **PROJECT NO. 4** ROAD MAINTENACE 194.14 sta @ Grade, ditch, & roll \$36.00 per sta = \$6,989.04 TOTAL IMPROVEMENT COSTS = \$6,989.04 ROCK Placement/ Rock Base Haul Cost Processing Total CY Rock Cost Cost \$/cy Size \$/cy Cost \$/cy Surfacing rock 1½" - 0 \$1.21 \$1.22 \$1,117.93 Spot rock \$3.16 200 Subtotal = 200 \$1,117.93

Totals

All Rock =	200
1½" - 0 =	200

TOTAL ROCK COSTS = \$1,117.93

TOTAL PROJECT COST = \$8,106.97

Timber Sale: Devil Ray Sale Number: FG-341-2020-W00244-01

Equipment	Total	
Brush Cutter	\$453.26	
Grader	\$747.62	
Roller (smooth/grid) & Compactor	\$453.26	
Excavator (Large) - Equipment Cleaning	\$1,747.62	
Dozer (Large) - Equipment Cleaning	\$1,792.20	
Dump Truck (10cy +)	\$144.93	
	TOTAL MOVE-IN COSTS =	\$5,338.89

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Devil Ray Sale Number: FG-341-2020-W00244-01 Stockpile Name: Beaverdam Stockpile & Quarry 1 1/2" - 0: 1,423 cy (truck measure) (truck measure) 3" -0: 2,432 cy Boulders: 12 Each Total truck yardage: 3,867 cy

Move-in Move in excavator \$686.11 Move in loader \$618.88 Move in Dump Trucks \$288.57 Subtotal = \$1,593.56 Per CY = \$0.41/cy **Base Cost** Load dump truck \$0.80 / cy x 3,855 cy = \$3,083.72 Subtotal = \$3,083.72 Per CY = \$0.80 **Boulder Base Cost** \$19.20 Load dump truck \$1.60 / cy x 12 cy = Subtotal = \$19.20 Per CY = \$1.60 Total = \$4,677.28

> 1 1/2"-0 Cost = \$1.21/cy 3"-0 Cost = \$1.21/cy Boulder Cost = \$2.01/cy

CRUISE REPORT Devil Ray #FG-341-2021-W00244-01

- **1. LOCATION:** Portions of Sections 34 & 35, T2N, R6W, W.M., and portions of Section 3, T1N, R6W, W.M., Tillamook County, Oregon.
- **2. CRUISE DESIGN:** Pre-cruise evaluation indicated that the stand's average DBH is approximately 17 inches with a Coefficient of Variation of about 57%. 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 40 variable radius plots utilizing a 40 BAF prism would produce an adequate sample size.
- **3. SAMPLING METHOD:** The Timber Sale Area was cruised in October and November of 2020. Unit 1 had 22 plots laid out on a 7 chain X 5 chain grid. Unit 2 had 5 plots laid out on a 5 chain x 5 chain grid. Unit 3 had 13 plots laid out on a 5 chain x 7 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.
- **4. CRUISE RESULTS:** 179 trees were measured and graded producing a cumulative Sampling Error of 7.1% on the Basal Area and 7.7% 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 cruisers Kenton Burns and Mark Savage.

Prepared by:	Kenton Burns	11-16-2020
•	Name	Date
Reviewed by:	Mark Savage	11-24-2020
•	Name	Date

1					JECT S OJECT	TATIS DEV				PAGE DATE	1 11/10/2020	
TWP	RGE	SC	TRACT	7	ГҮРЕ		ACI	RES	PLOTS	TREES	CuFt	BdFt
TIN TIN TIN	R6 R6W R6W	03 03 03	00U1 00U2 00U3	(00MC 00MC 00MC		1	86.00	40	179	S	W
						TREES	I	ESTIMATED TOTAL		ERCENT AMPLE		
		F	PLOTS	TREES		PER PLOT		TREES		TREES		
REFO COU BLA	IISE I COUNT OREST INT NKS		40 40	179 179		4.5 4.5		14,872		1.2		
100 9	%0 				STA	ND SUMN	MARY					
		C A	AMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
			TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOI	JG FIR		165	69.2	20.8	119	35.7	162.8	31,667	31,508	7,026	7,026
	LDER		9	9.1	13.5	75	2.5	9.1	640	640	195	195
	EMLOCK		3	1.1	22.6	98	0.7	3.2	541	541	128	128
WR	CEDAR		1	.4	22.0	80	0.2	1.1	93	93	34	
NOE	3 FIR		1	.2	35.0	131	0.2	1.1	231	231	47	
TOT	ΓAL		179	80.0	20.2	113	39.5	177.2	33,173	33,013	7,432	7,432
COI				THE SAMP T OF 100 T		JME WILL	BE WITI	HIN THE SA	MPLE ERRO	OR	<u> </u>	
CL	68.1		COEFF			SAMPL	E TREE	S - BF	#	OF TREES		INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW	AVG	HIGH		5	10	15
	JG FIR		62.1	4.8		605	636	667				
	LDER EMLOCK		69.0 52.5	24.4 36.3		61 365	81 573	101 781				
WR	EMLOCK CEDAR B FIR	-	32.3	30.3		303	373	701				
	TAL		66.5	5.0		579	609	640		177	44	20
CL	68.1		COEFF			SAMPI	E TREE	S - CF	1	OF TREES	PEO	DIE DOD
SD:			COEFF						1	OF TREE	KEŲ.	INF. POP.
	1 ()			S.E.%		LOW	AVG	HIGH	ħ	5	10	1NF. POP.
DO	210		VAR.% 55.8	S.E.% 4.3			AVG 139		-			
	<u>I.U</u> UG FIR LDER		VAR.%			LOW	139 24	HIGH 145 29				
R A WH WR	UG FIR LDER EMLOCK CEDAR		VAR.% 55.8	4.3		LOW 133	139	HIGH 145	, n			
R A WH WR NO	UG FIR LDER EMLOCK		VAR.% 55.8 57.3	4.3 20.2		133 19	139 24	HIGH 145 29		5 143	36	15
R A WH WR NO! TO	UG FIR LDER EMLOCK CEDAR B FIR		VAR.% 55.8 57.3 50.0	4.3 20.2 34.6		133 19 88 127 TREES.	139 24 135 133 /ACRE	HIGH 145 29 181		5 143 # OF PLOTS	36 S REQ.	15 16 INF. POP.
R A WH WR NOI TO' CL SD:	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.%	4.3 20.2 34.6 4.5 S.E.%		133 19 88 127 TREES	139 24 135 133 /ACRE AVG	HIGH 145 29 181 139 HIGH		5 143	36	15 16 INF. POP.
R A WH WR NO! TO' CL SD:	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3	4.3 20.2 34.6 4.5 S.E.% 9.4		133 19 88 127 TREES LOW 63	139 24 135 133 /ACRE AVG 69	HIGH 145 29 181 139 HIGH 76		5 143 # OF PLOTS	36 S REQ.	15 16 INF. POP.
R A WH WR NO! TO' CL SD: DO R A	UG FIR LDER IEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2		133 19 88 127 TREES LOW 63 3	139 24 135 /33 /ACRE AVG 69 9	HIGH 145 29 181 139 HIGH 76 16		5 143 # OF PLOTS	36 S REQ.	15
R A WH WR NOOD TO' CL SD: DO R A WH	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER IEMLOCK		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2		133 19 88 127 TREES LOW 63	139 24 135 133 /ACRE AVG 69	HIGH 145 29 181 139 HIGH 76		5 143 # OF PLOTS	36 S REQ.	15 16 INF. POP.
R A WH WR NO! TO' CL SD: DO' R A WH	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER LDER EMLOCK		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2		133 19 88 127 TREES. LOW 63 3 0	139 24 135 /33 /ACRE AVG 69 9	HIGH 145 29 181 139 HIGH 76 16 2		5 143 # OF PLOTS	36 S REQ.	15 16 INF. POP.
R A WH NO! CL SD: DO R A WH WR NO!	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER IEMLOCK		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9		133 19 88 127 TREES. LOW 63 3 0	139 24 135 /ACRE AVG 69 9 1	HIGH 145 29 181 139 HIGH 76 16 2 1		5 143 # OF PLOTS	36 S REQ.	15 16 INF. POP.
R A WH WR NOI TO' CL SD: DO R A WH WR NO TO	UG FIR LDER IEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER IEMLOCK CEDAR B FIR TAL		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 63.9	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 99.9		133 19 88 127 TREES LOW 63 3 0 0 0 72	139 24 135 /ACRE AVG 69 9 1 0 0 80	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88	#	5 143 # OF PLOTS 5	36 S REQ. 10	16 INF. POP. 15
R A WH WR NOI TO' CL SD: DO R A WH NO TO CL	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 632.5 COEFF	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 99.9		133 19 88 127 TREES LOW 63 3 0 0 0 72	139 24 135 /ACRE AVG 69 9 1 0	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88	#	5 143 # OF PLOTS 5	36 S REQ. 10	16 INF. POP. 15
R A WH WR NO! CL SD: TO CL SD: CL SD:	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 63.9	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 99.9		133 19 88 127 TREES. LOW 63 3 0 0 0 72 BASAL	139 24 135 /ACRE AVG 69 9 1 0 0 80	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88	#	5 143 # OF PLOT: 5 163 # OF PLOT	36 S REQ. 10	15 16 INF. POP. 15 INF. POP.
R A WH WR NO! CL SD: DO TO CL SD: DO DO DO DO	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 63.9 COEFF VAR.%	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 99.9 10.1		133 19 88 127 TREES LOW 63 3 0 0 0 72 BASAL	139 24 135 /ACRE AVG 69 9 1 0 0 80 AREA/A	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88 ACRE HIGH	#	5 143 # OF PLOT: 5 163 # OF PLOT	36 S REQ. 10	16 INF. POP. 15 INF. POP.
R A WH WR NO CL SD: DO TO TO TO CL SD: DO R A WH NO TO CL SD: DO R A R A R A R A R A R A R A R A R A R	UG FIR LDER IEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER IEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LOCK CEDAR B FIR TAL 68.1		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 63.9 COEFF VAR.% 50.2	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 10.1 S.E.% 7.9 66.7 56.2		133 19 88 127 TREES LOW 63 3 0 0 72 BASAL LOW 150 3	139 24 135 /ACRE AVG 69 9 1 0 0 80 AREA/A AVG 163 9 3	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88 ACRE HIGH 176 15 5	#	5 143 # OF PLOT: 5 163 # OF PLOT	36 S REQ. 10	15 16 INF. POP. 15 INF. POP.
R A WH WR NO TO CL SD: DO R A WH WR	UG FIR LDER LEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER LDER LEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LUEF LEMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER LOER LOER LOER LOER LOER LOER LOER LO		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 632.5 422.5 355.7 632.5	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 10.1 S.E.% 7.9 66.7 56.2 99.9		133 19 88 127 TREES LOW 63 3 0 0 72 BASAL LOW 150 3 1 0	139 24 135 133 /ACRE AVG 69 9 1 0 0 80 AREA/A AVG 163 9 3	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88 ACRE HIGH 176 15 5 2	#	5 143 # OF PLOT: 5 163 # OF PLOT	36 S REQ. 10	15 16 INF. POP. 15 INF. POP.
R A WH WR NO TO CL SD: DO R A WH WR NO	UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LDER EMLOCK CEDAR B FIR TAL 68.1 1.0 UG FIR LUDER UG FIR UG FIR LUDER HEMLOCK		VAR.% 55.8 57.3 50.0 59.8 COEFF VAR.% 59.3 457.3 387.5 632.5 632.5 632.5 COEFF VAR.% 50.2 422.5 355.7	4.3 20.2 34.6 4.5 S.E.% 9.4 72.2 61.2 99.9 10.1 S.E.% 7.9 66.7 56.2		133 19 88 127 TREES LOW 63 3 0 0 72 BASAL LOW 150 3	139 24 135 /ACRE AVG 69 9 1 0 0 80 AREA/A AVG 163 9 3	HIGH 145 29 181 139 HIGH 76 16 2 1 0 88 ACRE HIGH 176 15 5	#	5 143 # OF PLOT: 5 163 # OF PLOT	36 S REQ. 10	15 16 INF. POP. 15 INF. POP.

TC	PSTATS

PROJECT STATISTICS PROJECT DEVRAY

PAGE **2**DATE 11/10/2020

					PROJECT	DE	VRAY			DATE	11/10/2020
TWP	RGE	SC	TRACT	TY	PE	A	CRES	PLOTS	TREES	CuFt	BdFt
T1N T1N T1N	R6 R6W R6W	03 03 03	00U1 00U2 00U3	001	MC MC MC		186.00	40	179	S	W
CL	68.1		COEFF			F/ACRE			# OF PLOTS F	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
	G FIR		53.1	8.4	28,866	31,508	34,150				
	DER		350.9	55.4	285	640	995				
	EMLOCK		362.0	57.2	232	541	850				
WR (CEDAR		632.5	99.9	0	93	186				
NOB	FIR		632.5	99.9	0	231	462				
TOT	ΆL		49.0	7.7	30,460	33,013	35,567		96	24	11
CL	68.1		COEFF		NET C	CUFT FT	/ACRE		# OF PLOTS I	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
	JG FIR		52.2	8.2	6,447	7,026	7,605				
R AL	LDER		387.1	61.2	76	195	315				
WHE	EMLOCK		357.6	56.5	56	128	201				
WR	CEDAR		632.5	99.9	0	34	69				
NOB	3 FIR		632.5	99.9	. 0	47	94				
тот	ΓAL		47.0	7.4	6,881	7,432	7,983		88	22	10

TC F	PSPCSTGR		Sı	pecies, S	Sort Gi	rade - Board	l Foot V	olum/	es (P	roject)							
TT1	N RR6W S0: N RR6W S0: N RR6W S0:	3 Ty001	МC	09.00 18.00 59.00		Project: Acres	DEVR 186							D	Page Date Time		1 /10/2 :14:02	
		%					Percent	of Net B	oard Fo	oot Volu	me				Averag			Logs
	S So Gr	Net	Bd. F	t. per Acre	:	Total	Log S	cale Dia	١.		Log Le	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5 6-1	1 12-16	5 17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	CU													12 1			0.00	5.
DF	2M	72	.5	23,108	22,985	4,275		50	50	0	0	1	98	40 1			1.97	60.
DF	3M	25	.5	7,713	7,677	1,428	10			0	1	4	95	1		100	0.69	76.
DF	4M	3		846	846	157	10	0		39	61			19	6	23	0.35	36.
DF	Totals	95	.5	31,667	31,508	5,860	2	7 36	37	1	2	2	95	34 1	10	176	1.14	178.
*****	2). (70		426	426	79		28	72				100	40 1	15	371	1.98	1.
WH WH	2M 3M	78 16		86	86	16	10		72				100	39 1				
WH	4M	6		29	29	5	10			38	62			21	6	25	0.47	1.
WH		2		541	541	101	2	1 22	56	2	3		95	32	11	190	1.41	2.
RC RC	2M 4M	86 14		81 12	81 12	15 2	10	100			100		100	40 2	12 6		1.84 0.49	
RC	Totals	0		93	93	17	1	3 87			13		87	32	9	115	1.33	
RA RA	CU R	100		640	640	119	8	31 19		6		21	73	17 27	8	58	0.00 0.64	2 11
RA	Totals	2		640	640	119	8	31 19		6		21	73	26	8	49	0.57	13
NF NF NF	CU 2M 3M	94 6		218 13	218 13	41 2	10		100		26		74 100	6 32 36	22 8		1.06	
NF	Totals	1		231	231	43		6	94		25		75	27	17	362	2.79	
Tota	ıls		0.5	33,173	33,013	6,140	2	8 36	37	1	2	2	94	34	10	168	1.12	196

Page **Stand Table Summary** TC PSTNDSUM 11/10/2020 Date: Time: 1:14:03PM DEVRAY TT1N RR6W S03 Ty00MC 109.00 Project TT1N RR6W S03 Ty00MC
TT1N RR6W S03 Ty00MC 18.00 Grown Year: Acres 186.00 59.00

IIIN	KK6W S	S03 Ty00N	ис	39	.00											
S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht		Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	e Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	мвғ
DF	11	1	85	63		1.615	1.07	1.61	13.4	60.0	.61	22	97	114	40	
DF	12	1	82	89		1.357	1.07	2.71	11.4	40.0	.88	31	109	164	57	1
DF	13	6	85	90		6.231	5.74	11.62	14.2	55.9	4.71	165	650	877	308	
DF	14	6	87			5.268	5.63	10.54	17.8	76.1	5.34	187	802	994 197	349 69	1
DF	15	2	87		1	1.499	1.84	2.13	17.4	74.4	1.06		159		520	
DF	16	8		112		5.512	7.70	11.02	25.3	107.4	7.96		1,183	1,481 1,690	593	
DF	17	8		118		5.053	7.96	12.02	26.5	110.7	9.09		1,331 1,653	2,134	749	
DF	18	10		121		5.561	9.83	13.93	28.9	118.6	11.47 8.48		1,033	1,578	554	
DF	19	7		121		3.652	7.19	9.92	30.0	123.4 148.5	5.87			1,091	383	
DF	20	5		119	- 1	2.267	4.95	5.87	35.1	148.3	10.84			2,016	707	
DF	21	9		121		3.754	9.03 10.78	10.86 12.25	35.0 39.4	179.5	13.76			2,560	898	
DF	22	11		127		4.084				213.8	16.75			3,116	1,093	
DF	23	14	89			4.572	13.19 5.63	12.61 5.38	46.6 48.0	213.8	7.35			1,367	480	
DF	24	6	88			1.793	17.58	15.16	54.6	248.9	23.60			4,390	1,540	
DF	25	17		137	- 1	5.156	9.32	7.58	57.7	271.9	12.48			2,322	815	
DF	26	9	88 87		- 1	2.528 2.249	8.94	6.75	64.4	295.0	12.38			2,303	808	
DF	27	9		14:	- 1	1.821	7.79	5.46	68.5	312.4	1			1,984	696	5 317
DF	28	8		13:	- 1	1.780	8.17	5.34	68.9	315.4	1			1,950	684	4 313
DF	29 30	8 5		, 13. 5 14'		.948	4.66	3.06	76.2	370.6	i		-	1,237	434	4 211
DF	31	4		7 13:		.740	3.88	2.22	81.7	390.4	1			962	33′	7 161
DF	32	3	85		- 1	.572	3.20	1.72	84.2	397.8				767	269	9 127
DF	33	3	86			.440	2.61	1.45	87.2	445.7			647	670	23:	5 120
DF	34	2	84			.338	2.13		103.2	495.0			5 502	555	19:	5 93
DF DF	35	1	8:			.146	.98		112.9	553.3	1.4	1 49	242	262	93	2 45
DF	38	1	8:		- 1	.124	.98		85.5	490.0	1.2	1 42	2 243	225	7:	9 45
DF	41	1		3 13		.106	.98	.32	143.8	723.3	1.3	1 40	5 231	244	8	5 43
	Totals		87		+	69.166	162.80	173.48	40.5	181.6	200.2	5 7,026	5 31,508	37,247	13,06	9 5,860
DF					+				+							
RA	11	1	7.			1.479	.98 .98		1	60.0	.6	5 2	4 75	121	4	4 14
RA	12	1	7		- 1	1.243 3.274	3.02							409		
RA	13	3	8			.913	.98				1			62		
RA	14	1	7 9		- 1	.868	1.07		1		1			134		9 19
RA	15 16	1 1	7		- 1	.699	.98		1					115		2 12
RA	18	1		9 10		.603	1.07						1 121	157	5	57 22
RA	Totals				5	9.079		5 11.10	-				5 640	1,000	36	53 119
RA	_			9 8	-	.603	1.07		+		+		7 139	219	(58 26
WH	18	1		2 11		.313	1.07						7 219	278		37 41
WH	25	1 1		2 11	- 1	.232	1.07				1		5 184	267		33 34
WH	29				-									764	23	39 101
WH	Totals				8	1.148	3.20				+		7 231	211		38 43
NF	35	1		5 13	_	.159	1.07						7 231	211		88 43
NF	Total			5 13	-+	.159	1.07						7 231 34 93			64 17
RC	22				30	.404	1.07						4 93			64 17
RC	Total				30	.404	1.0									
Totals	1	179	8	36 1	13	79.955	177.18	3 188.7	1 39.4	174.	9 211.	08 /,43	33,013	39,372	. 13,84	0,140

TT1N	RR6W S03	3 Ty00)MC 5	9.00	·										1.	14:UZF	TAT
s			Gross	Def Net	%				ıme by	-		neter in					
Spp T			+	% MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23		30-39	40+
DF	1	1 16	ı												14		
DF	2N		1		1									10			
DF	2N		1		1						18			24			
DF	2N	1 40	4,233	4,210	71.8						802	955	1792	573	88		
DF	3N	1 20	1	1	.0				1								
DF	3N	1 20	5 1	. 1	.0				1								
DF	3N	1 28	3 4	. 4	.1			4									
DF	3N	A 30	4	4	.1			2		2							
DF	3N	A 32	2 48	48	.8			46	2								
DF	3N	A 34	14	14	.2			14									
DF	31	A 30	73		1			46	27								
DF	31	A 3	80		1			60	14	6							
DF	31	Л 40	1,208	1,201	20.5			167	476	559							
DF	41	и 12	2 17	17	.3			16	0								
DF	41	л 1	4 16	5 16	.3			16									
DF	41	л 1	6 8	8	.1			8									
DF	41	M 1	8 12	2 12	.2			12									
DF	41	И 2	0 7	7	.1			7									
DF	41	M 2	2 26	5 26	.4			25	1	i.							
DF	41	M 2	4 22	2 22	.4			21	1								
DF	41	M 2	6 14	14	.2	i		14									
DF	41	M 2	8 12	2 12	.2			12									
DF	41	М 3	0 22	2 22	.4			22									
DF	Tota	ıls	5,890	5,860	95.4			493	525	567	820	955	1792	607	102		
WH	21	M 4	0 79	79	78.7						22		57				
WH	31	M 3	3 7	7 7	7.3					7							
WH	31	м 4	0 9) 9	8.7					9						ļ	
WH	41	M 1:	2 1	<u> </u>	.9			1									
WH		м 1		- 1 1				1									
WH	ı	м 2		3				3									
WH	Tota	ıls	103	1 101	1 1.6	 		5		16	22	:	57	-		 	
RC		M 4						1			15						
RC	41	M 2	4 2	2 2	2 13.0			2									
						ļ		ļ			1.7			-		├─	
RC	Tota	us	1'	7 17	7 .3	-		2		 	15	1		 		 	
			1		1			1						1			

TC PLO	GSTVB					Log	Stock	Table	- MB	F								
TT1N F	RR6W S03 RR6W S03 RR6W S03	3 Ty00	MC 1	9.00 8.00 9.00		Proje Acre		DEV	VRAY 186	.00					Page Date Time	11/	2 10/202 14:02F	
s	So Gr	Log	Gross	Def	Net	%		1	Net Vol	ume by	Scalin	g Diam	eter in l	Inches			1	
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+
RA	R	16	7		7	5.7				7								
RA	R	32	26		26	21.5			14	12								
RA	R	36	12		12	9.9			12									
RA	R	40	75		75	62.9			14	39		22						
RA	Tota	ls	119		119	1.9			39	57		22						
NF	2N	Л 24	- 11		11	24.8								11				
NF	2N	Л 40	30	١	30	69.7										30		
NF	3N	И 36	2		2	5.5				2								
NF	Tota	ls	43		43	.7				2				11		30		
Total	All Spec	eies	6,170)	6,140	100.0			541	585	583	880	955	1859	607	132		

TC PSTATS TWP RGE TIN R6					JECT S OJECT	TATIS DEV				PAGE DATE	1 11/10/202
TWP RGI	E SO	C TRACT	-	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
T1N R6	03	3 00U1	(00MC		1	109.00	22	84	S	W
					TREES	I	ESTIMATED TOTAL		ERCENT SAMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOTAL		22	84		3.8						
CRUISE DBH COUN REFOREST COUNT BLANKS 100 %		22	84		3.8		6,875		1.2		
				STA	.ND SUMN	IARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
DOLIC EID		TREES 76	/ACRE 55.7	DBH 21.3	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR WHEMLOC	'I'	3	2.0	22.6	118 98	29.9 1.1	138.2 5.5	27,384 923	27,202 923	5,991 219	5,991 219
R ALDER	IX.	3	4.5	14.9	98 85	1.1	5.5 5.5	561	923 561	142	142
WR CEDAF	₹	1	.7	22.0	80	0.4	1.8	158	158	59	59
NOB FIR		1	.3	35.0	131	0.3	1.8	395	395	81	81
TOTAL		84	63.1	21.1	114	33.3	152.7	29,421	29,240	6,492	6,492
CL 68.1		COFFE									
SD: 1.0		COEFF VAR.%	S.E.%	L	SAMPLI .OW	E TREES AVG	S - BF HIGH	#	FOF TREES 5	REQ. 10	INF. POP.
			6.4	L				#			
SD: 1.0 DOUG FIR WHEMLOO)	VAR.% 56.0 52.5	6.4 36.3	L	620 365	AVG 663 573	706 781				
SD: 1.0 DOUG FIR	CK	VAR.% 56.0	6.4	L	620	AVG 663	HIGH 706	1			INF. POP.
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF	CK	VAR.% 56.0 52.5	6.4 36.3	L	620 365	AVG 663 573	706 781	#			1
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR	CK R	VAR.% 56.0 52.5 41.6	6.4 36.3 28.8	L	620 365 97	AVG 663 573 137	HIGH 706 781 176		5	35	1
DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.%	6.4 36.3 28.8 6.5		620 365 97 604 SAMPLI	AVG 663 573 137 645 E TREES AVG	HIGH 706 781 176 687 6-CF HIGH		5 140	35	1 INF. POP.
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR	CK R	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1	6.4 36.3 28.8 6.5 S.E.% 5.9		620 365 97 604 SAMPLI	AVG 663 573 137 645 E TREES AVG 143	HIGH 706 781 176 687 S - CF HIGH 152		5 140 # OF TREES	35 REQ.	1 INF. POP.
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO	CK R	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6		620 365 97 604 SAMPLI 60W 135 88	AVG 663 573 137 645 E TREES AVG 143 135	HIGH 706 781 176 687 6-CF HIGH 152 181		5 140 # OF TREES	35 REQ.	1 INF. POP.
DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1	6.4 36.3 28.8 6.5 S.E.% 5.9		620 365 97 604 SAMPLI	AVG 663 573 137 645 E TREES AVG 143	HIGH 706 781 176 687 S - CF HIGH 152		5 140 # OF TREES	35 REQ.	1 INF. POP.
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6		620 365 97 604 SAMPLI 60W 135 88	AVG 663 573 137 645 E TREES AVG 143 135	HIGH 706 781 176 687 6-CF HIGH 152 181		5 140 # OF TREES	35 REQ.	1 INF. POP.
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6		620 365 97 604 SAMPLI 60W 135 88	AVG 663 573 137 645 E TREES AVG 143 135	HIGH 706 781 176 687 6-CF HIGH 152 181		5 140 # OF TREES	35 REQ.	INF. POP.
DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3		604 SAMPLI 608 135 88 24	AVG 663 573 137 645 E TREES AVG 143 135 35	HIGH 706 781 176 687 S - CF HIGH 152 181 45	#	5 140 FOF TREES 5	35 REQ. 10	1 INF. POP. 1
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3	L	604 SAMPLI 50W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE	HIGH 706 781 176 687 S - CF HIGH 152 181 45	#	140 FOF TREES 5 116 FOF PLOTS	35 REQ. 10	INF. POP. INF. POP.
SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAR NOB FIR TOTAL CL 68.1	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3	L	604 SAMPLI 50W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35	HIGH 706 781 176 687 S - CF HIGH 152 181 45	#	5 140 FOF TREES 5	35 REQ. 10	INF. POP. INF. POP.
SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 CL 68.1 SD: 1.0	CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.%	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3	L	604 604 SAMPLI 604 SAMPLI 50W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH	#	140 FOF TREES 5 116 FOF PLOTS	35 REQ. 10	INF. POP. INF. POP.
DOUG FIR WHEMLOC R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 12.8 61.5 58.3	L	604 SAMPLI 608 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG 56	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63	#	140 FOF TREES 5 116 FOF PLOTS	35 REQ. 10	INF. POP. INF. POP.
DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF WHEMLOC R ALDER WR CEDAF	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 12.8 61.5 58.3 102.2	L	600 620 365 97 604 SAMPLI 60W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG 56 2 4 1	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1	#	140 FOF TREES 5 116 FOF PLOTS	35 REQ. 10	
SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR WHEMLOC R ALDER WR CEDAF NOB FIR	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 61.5 58.3 102.2 102.2	L	600 620 365 97 604 SAMPLI 50W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG 56 2 4 1 0	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1	#	140 FOF TREES 5 116 FOF PLOTS 5	35 REQ. 10 29 REQ. 10	INF. POP. INF. POP. 1
SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF WHEMLOC R ALDER WR CEDAF	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 12.8 61.5 58.3 102.2	L	600 620 365 97 604 SAMPLI 60W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG 56 2 4 1	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1	#	140 FOF TREES 5 116 FOF PLOTS	35 REQ. 10	INF. POP. INF. POP.
DOUG FIR WHEMLOC R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAR NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAR NOB FIR WHEMLOC R ALDER WR CEDAR NOB FIR WHEMLOC R ALDER WR CEDAR NOB FIR TOTAL CL 68.1	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0 63.0 COEFF	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 12.8 61.5 58.3 102.2 102.2	L	620 365 97 604 SAMPLI 50W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG 56 2 4 1 0 63 AREA/A	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1 72 CRE	#	140 FOF TREES 5 116 FOF PLOTS 5	35 REQ. 10 29 REQ. 10	INF. POP. INF. POP. 1
DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 CR ALDER CEDAF	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0 63.0 COEFF VAR.%	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 61.5 58.3 102.2 102.2 13.7	L	620 365 97 604 SAMPLI 50W 135 88 24 132 TREES/A	AVG 663 573 137 645 E TREES AVG 143 135 35 140 ACRE AVG 56 2 4 1 0 63 AREA/A AVG	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1 72 CRE HIGH	#	140 # OF TREES 5 116 # OF PLOTS 5	35 REQ. 10 29 REQ. 10	1 INF. POP. 1 INF. POP. 1
DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOC R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 DOUG FIR DOUG FIR	CK R	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0 63.0 COEFF VAR.% 49.5	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 61.5 58.3 102.2 102.2 13.7 S.E.%	L	620 365 97 604 SAMPLI OW 135 88 24 132 TREES/A OW 49 1 2 54 BASAL A	AVG 663 573 137 645 E TREES AVG 143 135 35 ACRE AVG 56 2 4 1 0 63 AREA/A AVG 138	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1 72 CRE HIGH 153	#	140 FOF TREES 5 116 FOF PLOTS 5	35 REQ. 10 29 REQ. 10 42 REQ.	INF. POP. INF. POP. INF. POP.
DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R OB FIR TOTAL	CK R	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0 63.0 COEFF VAR.% 49.5 257.6	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 61.5 58.3 102.2 102.2 13.7 S.E.% 10.8 56.1	L	60W 620 365 97 604 SAMPLI OW 135 88 24 132 TREES/A OW 49 1 2 54 BASAL A OW 123 2	AVG 663 573 137 645 E TREES AVG 143 135 35 ACRE AVG 56 2 4 1 0 63 AREA/A AVG 138 5	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1 72 CRE HIGH 153 9	#	140 FOF TREES 5 116 FOF PLOTS 5	35 REQ. 10 29 REQ. 10 42 REQ.	INF. POP. INF. POP. INF. POP.
DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0 63.0 COEFF VAR.% 49.5 257.6 257.6	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 61.5 58.3 102.2 102.2 13.7 S.E.% 10.8 56.1 56.1	L	620 365 97 604 SAMPLI OW 135 88 24 132 TREES/A OW 49 1 2 54 BASAL A	AVG 663 573 137 645 E TREES AVG 143 135 35 ACRE AVG 56 2 4 1 0 63 AREA/A AVG 138 5 5	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1 72 CRE HIGH 153 9 9	#	140 FOF TREES 5 116 FOF PLOTS 5	35 REQ. 10 29 REQ. 10 42 REQ.	INF. POP. INF. POP. INF. POP.
DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R ALDER WR CEDAF NOB FIR TOTAL CL 68.1 SD: 1.0 DOUG FIR WHEMLOO R OB FIR TOTAL	CK CK	VAR.% 56.0 52.5 41.6 59.3 COEFF VAR.% 51.1 50.0 42.4 53.8 COEFF VAR.% 58.9 282.2 267.3 469.0 469.0 63.0 COEFF VAR.% 49.5 257.6	6.4 36.3 28.8 6.5 S.E.% 5.9 34.6 29.3 5.9 S.E.% 61.5 58.3 102.2 102.2 13.7 S.E.% 10.8 56.1	L	60W 620 365 97 604 SAMPLI OW 135 88 24 132 TREES/A OW 49 1 2 54 BASAL A OW 123 2	AVG 663 573 137 645 E TREES AVG 143 135 35 ACRE AVG 56 2 4 1 0 63 AREA/A AVG 138 5	HIGH 706 781 176 687 S - CF HIGH 152 181 45 149 HIGH 63 3 7 1 1 72 CRE HIGH 153 9	#	140 FOF TREES 5 116 FOF PLOTS 5	35 REQ. 10 29 REQ. 10 42 REQ.	INF. POP. INF. POP. INF. POP.

TC PSTATS

PROJECT STATISTICS PROJECT DEVRAY

PAGE

2 DATE 11/10/2020

TWP	RGE	SC	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt
T1N	R6	03	00U1	00Me	C		109.00	22	84	S	W
CL	68.1		COEFF		NET	BF/ACRE			# OF PLOTS	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
	IG FIR		56.7	12.4	23,842	27,202	30,562				
WHE	EMLOCK		262.5	57.2	395	923	1,451				
R AL	LDER		258.3	56.3	245	561	877				
WR	CEDAR		469.0	102.2		158	320				
NOB	B FIR		469.0	102.2		395	798				
тот	TAL		53.4	11.6	25,839	29,240	32,640		119	30	13
CL	68.1		COEFF		NET	CUFT FT/	ACRE		# OF PLOTS	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DOL	JG FIR		54.0	11.8	5,286	5,991	6,697				
WHI	EMLOCK		259.1	56.5	95	219	343				
R AI	LDER		258.5	56.3	62	142	222				
WR	CEDAR		469.0	102.2		59	119				
NOE	3 FIR		469.0	102.2		81	163				
тот	ΓAL		50.8	11.1	5,773	6,492	7,210		108	27	12

TC I	PSPCSTGR		Sı	pecies, S	Sort Gi	rade - Board	l Foot Vo	lume	es (Pi	roject)							
TT1	N RR6W S0	3 Ty00N	MC 10	09.00		Project: Acres	DEVRA 109.0]	Page Date Time		1 /10/20 07:50	
		%					Percent of	Net Bo	ard Fo	ot Volu	ime					ge Lo		Logs
	S So Gr	Net	Bd. F	t. per Acre		Total	Log Sca	ale Dia.			Log Le					Bd		Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5 6-11	12-16	17+	12-20	21-30	31-35 3	36-99	Ft	In	Ft	Lf	/Acre
DF DF DF DF	CU 2M 3M 4M	76 21 3	.8 .2	20,992 5,770 621	20,824 5,757 621	2,270 628 68	100 100	46	54	48	1 52	1 5	99 95	24 40 39 18	15 16 8 6	99	0.00 1.99 0.71 0.36	2.9 53.1 57.9 29.2
DE	Totals	93	.7	27,384	27,202	2,965	23	35	41	1	1	2	96	35	11	190	1.21	143.1
WH WH WH	2M 3M 4M	78 16 6		726 147 49	726 147 49	79 16 5	100 100	28	72	38	62		100	21	10 6	159 25	1.98 1.22 0.47	2.0 .9 2.0
RC	Totals 2M 4M	86		923 138 21	923 138 21	101	100	100	56	2	100		95	32 40 24		200	1.84 0.49	.7
RC RC	Totals	1		158	158	17	13	87			13		87	32	9	115	1.33	1.4
RA RA	CU R	100		561	561	61	63						100	37 28 29	7 8 8		0.00 0.64 0.55	1.0 7.9 9.0
RA	Totals	2		301	501	01	1 03							+-				
NF NF NF	CU 2M 3M	94 6		373 22	373 22	1	100	ı	100		26		74 100	32 36	18 22 8	80	0.00 4.03 1.06	.3 .5 .3
NF	Totals	1		395	395	43	6		94		25		75	27	17	362	2.79	1.1
Tota	als		0.6	29,421	29,240	3,187	24	35	41	1	2	2	96	34	10	183	1.19	159.4

TC	PSTNDSUM		Stand Tabl	e Summary	Page	1
					Date:	11/10/2020
TT	IN RR6W S03 Ty00MC	109.00	Project	DEVRAY	Time:	1:07:51PM

Acres 109.00 Grown Year:

				Tot				Averag	re Log		Net	Net		A.S	
S		Sample	FF	Av	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.			Totals	
Spc T	DBH	Trees	16'	Ht	Acre		Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF
DF	11	1	85	63	2.755	1.82	2.76	13.4	60.0	1.05	37	165	114	40	18
DF	12	1	82	89	2.315	1.82	4.63	11.4	40.0	1.50	53	185	164	57	20
DF	13	1	86	74	1.973	1.82	3.95	11.8	45.0	1.33	47	178	145	51	19
DF	14	2	87	106	3.402	3.64	6.80	18.6	82.5	3.60	126	561	393	138	61
DF	15	1	86	81	1.482	1.82	1.48	9.6	30.0	.41	14	44	44	16	5
DF	16	1	88	96	1.302	1.82	2.60	23.3	90.0	1.73	61	234	188	66	26
DF	17	4	88		4.614	7.27	10.38	26.8	112.2	7.92	278	1,165	863	303	127
DF	18	3	89		3.087	5.45	7.20	30.2	122.9	6.20	218	885	676	237	96
DF	19	4	89		3.694	7.27	10.16	30.1	127.3	8.71	305	1,293	949	333	141
DF	20	3	89		2.500	5.45	6.67	33.9	142.5	6.44	226	950	702	246	
DF	21	. 5	89		3.780	9.09	11.34	34.8	156.0	11.25	395	1,769	1,226	430	193
DF	22	5	89		3.444	9.09	10.33	38.5	176.0	11.35	398	1,818	1,237	434	198
DF	23	6	89		3.781	10.91	9.45	49.7	225.3	13.40	470	2,130	1,461	513	232
DF	24	2	89	125	1.157	3.64	3.47	47.2	211.7	4.67	164	735	510	179	80
DF	25	11	88	138	5.867	20.00	17.07	56.0	258.1	27.22	955	4,406	2,967	1,041	480
DF	26	6	88	141	2.959	10.91	8.88	56.1	266.7	14.20	498	2,367	1,548	543	258
DF	27	4	88	145	1.829	7.27	5.49	65.9	311.7	10.31	362	1,710	1,123	394	186
DF	28	2	86	134	.850	3.64	2.55	66.5	315.0	4.84	170	804	527	185	88
DF	29	4	86	135	1.586	7.27	4.76	72.1	333.3	9.78	343	1,586	1,066	374	173
DF	30	2	86	152	.741	3.64	2.59	71.2	345.7	5.26	185	896	574	201	98
DF	31	2	87	136	.694	3.64	2.08	82.3	405.0	4.88	171	843	532	187	92
DF	32	3	85	134	.977	5.45	2.93	84.2	397.8	7.03	247	1,165	767	269	127
DF	33	1	87	148	.306	1.82	.92	99.0	496.7	2.59	91	456	283	99	50
DF	34	2	84	145	.577	3.64	1.73	103.2	495.0	5.09	179	856	555	195	93
DF	Totals	76	88	118	55.669	138.18	140.21	42.7	194.0	170.75	5,991	27,202	18,612	6,531	2,965
WH	18	1	89		1.029	1.82	2.06	30.5	115.0	2.01	63	237	219	68	26
WH	25	1	92	111	.533	1.82	1.60	49.9	233.3	2.55	80	373	278	87	
WH	29	1	82	110	.396	1.82	1.19	64.4	263.3	2.45	77	313	267	83	34
WH	Totals	3	88	98	1.959	5.45	4.85	45.2	190.5	7.01	219	923	764	239	101
RA	13	1	92		1.973	1.82	3.95	11.3	45.0	1.23	45	178	134	49	19
RA	15	1	91		1.482	1.82	2.96	15.1	60.0	1.23	45	178	134	49	19
RA	18	1	89	103	1.029	1.82	1.03	51.1	200.0	1.44	53	206	157	57	22
RA	Totals	3	91	85	4.483	5.45	7.94	17.9	70.7	3.91	142	561	426	155	61
NF	35	1	85	131	.272	1.82	.82	98.6	483.3	1.93	81	395	211	88	43
NF	Totals	1	85	131	.272	1.82	.82	98.6	483.3	1.93	81	395	211	88	43
RC	22	1	81	80	.689	1.82	1.38	42.6	115.0	1.38	59	158	150	64	17
RC	Totals	1	81	80	.689	1.82	1.38	42.6	115.0	1.38	59	158	150	64	17
Totals		84	88	114	63.072	152.73	155.19	41.8	188.4	184.98	6,492	29,240	20,163	7,076	3,187

<u></u>	C. C	_	T	<u> </u>	Dof.	NT-4	%		7	Net Vali	ıme l	hv '	Scaling I	Diam	eter in I	nches				
Spp T	So Gr rt de			Gross MBF	Def %	Net MBF	Spc	2-3	4-5	6-7	8-9		10-11 12		14-15		20-23	24-29	30-39	40+
OF	2N		2	24		24	.8										24			
OF	2N		.0	2,264		2,246	75.7							352	588	916	358	32		
OF	3N	1 2	8	4		4	.1			4										
OF	3N	1 3	32	26		26	.9			24		2								
OF	3N	1 3	34	2		2	.1			2										
DF	3N	1 3	36	38		38	1.3			21	1	7								
DF	3N	А	38	58		58	2.0			38	1	4	6							
DF	3N	Λ	10	500		499	16.8			69	21	3	217						ļ	
DF	41	И	12	12		12	.4			12										
DF	41	Л	14	8		8	.3			8										
DF	41	M	16	2		2	.1			2										
DF	41	M	18	4		4	.1			4									1	
DF	41	M	20	6		6	l .			6										
DF	41	M	22	7		7	1	1		5		1								
DF	41	M	24	5		5		1		3		1								
DF	4]	M	26	8	;	8				8										
DF	4]	M	28	2		2	1	1		2										
DF	4]	M	30	13	3	13	.4			13										
DF	Tota	als		2,985	5	2,965				224	2	49	222	352			382	32		
WH	2	M	40	79)	79	78.7							22		57	-		-	
WH	3	M	38	7	7	7	7.3	:					7							
WH	3	M	40	g	€	ġ	8.7	7					9						_	
WH	4	M	12		1		2.)												
WH	4	M	14		1		1 1.2	2			l									
WH	4	М	28		3	:	3.3	3			3								1	
WH	Tot	tals		10	1	10					5		16	22		57	_		-	
RC	2	2M	40	1.	5	1	5 87.0	0						15				-	-	
RC -	4	lМ	24		2		2 13.	0			2									
RC	То	tals			7			5			2			15						
RA		₹	40	6	1	6	1 100.	0				39		22						
RA	То	tals			1		1 1.	_				39		22	2				\bot	
NF	- 2	2M	24		1		1 24.	1								11		_		
NF		2M	40	3	0	3	0 69.	7										3	0	

TC PLO	GSTVB				Log	Stock	Table	- MBl	₹							
TT1N R	RR6W S03 Ty001	MC 109	9.00		Proje Acre		DEV	/RAY 109	.00			4 1 5 Table 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Page Date Time		2 10/2020 07:49PM
s	So Gr Log	Gross	Def	Net	%		ľ	Net Volu	ıme by	Scalin	g Dian	eter in I	nches			
Spp T		MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23 2	24-29	30-39 40+
NF	3M 36	2	;	2	5.5				2							
NF	Totals	43		43	1.3				2				11		30	
Total	All Species	3,207	,	3,187	100.0			231	290	238	412	588	984	382	62	

TC PS	TATS					JECT S	STATIS DEVI				PAGE DATE	1 11/10/2020
TWP	RGE	SC	TRACT	Т	YPE		ACI	RES	PLOTS	TREES	CuFt	BdFt
T1N	R6	03	00U2	C	0MC			18.00	5	25	S	W
-						TREES	E	STIMATED TOTAL		ERCENT SAMPLE		
			DI OTC	TREES		TREES ER PLOT		TREES		TREES		
TOT	4.7		PLOTS 5	25	г	5.0		TREES		TREES		
TOT			5	25		5.0		1,600		1.6		
	COUNT											
REF	OREST											
COL												
BLA 100	NKS											
					STAN	ND SUM	MARY					
		S	AMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
			TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOU	JG FIR		25	88.9	20.3	113	44.4	200.0	38,298	38,191	8,451	8,451
TO	ΓAL		25	88.9	20.3	113	44.4	200.0	38,298	38,191	8,451	8,451
CL	68.1	8.1	COEFF			SAMPI	LE TREES	S - BF	#	FOF TREES		INF. POP.
SD:	1.0		VAR.%	S.E.%	1.0	\XX/						
DO						OW	AVG	HIGH		5	10	13
TO	UG FIR		63.4	12.9		535	615	694				
	TAL		63.4 63.4		L	535 535	615 615	694 694		167	42	19
CL	68.1	1.7	63.4 63.4 COEFF	12.9 12.9		535 535 SAMPI	615 <i>615</i> L E TREE S	694 694 S - CF	#	<i>167</i> # OF TREES	<i>42</i> S REQ.	19 INF. POP.
CL SD:	68.1 1.0		63.4 63.4 COEFF VAR.%	12.9 12.9 S.E.%		535 535	615 615	694 694	#	167	42	19 INF. POP.
CL SD:	68.1		63.4 63.4 COEFF	12.9 12.9		535 535 SAMPI OW	615 615 L E TREE S AVG	694 694 S - CF HIGH	‡	<i>167</i> # OF TREES	<i>42</i> S REQ.	19 INF. POP. 15
CL SD: DO	68.1 1.0 UG FIR TAL		63.4 63.4 COEFF VAR.% 57.2	12.9 12.9 S.E.%		535 535 SAMPI OW 117 117	615 615 LE TREES AVG 133	694 694 S - CF HIGH 148		167 # OF TREES 5	42 S REO. 10	19 INF. POP. 15
CL SD:	68.1 1.0 UG FIR TAL 68.1		63.4 63.4 COEFF VAR.% 57.2 57.2	12.9 12.9 S.E.%	Lo	535 535 SAMPI OW 117 117 TREES	615 615 LE TREES AVG 133 133 6/ACRE AVG	694 694 S - CF HIGH 148 148		167 # OF TREES 5	42 S REO. 10	19 INF. POP. 15 INF. POP.
CL SD: TO CL SD:	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5	Lo	535 535 SAMPI OW 117 117 TREES OW 69	615 615 LE TREES AVG 133 133 6/ACRE AVG 89	694 694 S - CF HIGH 148 148 HIGH 109		167 # OF TREES 5 136 # OF PLOTS 5	42 S REO. 10 34 S REO. 10	15 15 INF. POP.
CL SD: TO CL SD: DO	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2	12.9 12.9 S.E.% 11.7 11.7	Lo	535 535 SAMPI OW 117 117 TREES OW 69 69	615 615 LE TREES AVG 133 133 8/ACRE AVG 89 89	694 694 S - CF HIGH 148 148 HIGH 109	1	167 # OF TREES 5 136 # OF PLOTS 5	42 S REO. 10 34 S REO. 10	19 INF. POP. 15 INF. POP. 15
CL SD: TO CL SD: TO	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5	L	535 535 SAMPI OW 117 117 TREES OW 69 69 BASAI	615 615 LE TREES AVG 133 /33 S/ACRE AVG 89 89	694 694 S - CF HIGH 148 148 HIGH 109 109	1	167 # OF TREES 5 136 # OF PLOTS 5 101 # OF PLOTS	42 S REO. 10 34 S REO. 10 25 S REO.	19 INF. POP. 15 INF. POP. 15 INF. POP.
CL SD: TO CL SD: TO	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.%	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5	L	535 535 SAMPI OW 117 117 TREES OW 69 69	615 615 LE TREES AVG 133 133 8/ACRE AVG 89 89	694 694 S - CF HIGH 148 148 HIGH 109	1	167 # OF TREES 5 136 # OF PLOTS 5	42 S REO. 10 34 S REO. 10	19 INF. POP. 15 INF. POP. 15 INF. POP.
CL SD: TO CL SD: TO CL SD	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5	L	535 535 SAMPI OW 117 117 TREES OW 69 69 69 BASAI OW	615 615 LE TREES AVG 133 133 6/ACRE AVG 89 89 89	694 694 S - CF HIGH 148 148 HIGH 109 109	1	167 # OF TREES 5 136 # OF PLOTS 5 101 # OF PLOTS	42 S REO. 10 34 S REO. 10 25 S REO.	19 INF. POP. 15 INF. POP. 15 INF. POP. 15
CL SD: DO TO CL SD: DO TO TO TO	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.% 24.5	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5 S.E.% 12.2	L	535 535 SAMPI OW 117 117 TREES OW 69 69 BASAI OW 176 176	615 615 LE TREES AVG 133 133 S/ACRE AVG 89 89 200 200 200	694 694 S - CF HIGH 148 148 HIGH 109 109 ACRE HIGH 224 224	;	# OF PLOTS 5 101 # OF PLOTS 5 30 # OF PLOTS	42 S REO. 10 34 S REO. 10 25 S REO. 10	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP.
CL SD: DO TO CL SD	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.% 24.5 24.5 COEFF VAR.%	12.9 12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5 22.5 S.E.%	L	535 535 SAMPI OW 117 117 TREES OW 69 69 69 BASAI OW 176 176 176 NET B	615 615 LE TREES AVG 133 133 S/ACRE AVG 89 89 200 200 200 F/ACRE AVG	694 694 S - CF HIGH 148 148 HIGH 109 109 ACRE HIGH 224 224	;	167 # OF TREES 5 136 # OF PLOTS 5 101 # OF PLOTS 5	42 S REO. 10 34 S REO. 10 25 S REO. 10	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP.
CL SD: TO CL SD: DO TO CL SD DO DO TO DO T	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.% 24.5 24.5 COEFF VAR.%	12.9 12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5 22.5 S.E.% 12.2 12.2		535 535 SAMPI OW 117 117 TREES OW 69 69 69 BASAI OW 176 176 176 NET B	615 615 AVG 133 133 6/ACRE AVG 89 89 200 200 F/ACRE AVG 38,191	694 694 8 - CF HIGH 148 148 HIGH 109 109 CRE HIGH 224 224 HIGH 41,338	;	# OF PLOTS 5 101 # OF PLOTS 5 30 # OF PLOTS 5 30	42 S REO. 10 34 S REO. 10 25 S REO. 10	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 3
CL SD: DO TO CL SD: SD DO TO	68.1 1.0 UG FIR TAL 0UG FIR TAL		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.% 24.5 24.5 COEFF VAR.% 16.6	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5 22.5 S.E.% 12.2 12.2 S.E.% 8.2 8.2		535 535 SAMPI OW 117 117 TREES OW 69 69 BASAI OW 176 176 NET B OW 35,045 5,045	615 615 AVG 133 133 6/ACRE AVG 89 89 200 200 F/ACRE AVG 38,191 38,191	694 694 694 S - CF HIGH 148 148 HIGH 109 109 ACRE HIGH 224 224 HIGH 41,338 41,338	1	# OF PLOTS 5 101 # OF PLOTS 5 30 # OF PLOTS 5 14	42 S REO. 10 34 S REO. 10 25 S REO. 10 7 S REO. 10 3	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15
CL SD: TO TO CL SD DO TO TO TO CL SD DO TO	68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1 1.0 UG FIR TAL 68.1		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.% 24.5 24.5 COEFF VAR.% 16.6 16.6	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5 22.5 12.2 12.2 12.2 8.2 8.2	L. L. 3 3.3.	535 535 SAMPI OW 117 117 TREES OW 69 69 69 BASAI OW 176 176 176 NET B OW 55,045 5,045	615 615 AVG 133 133 6/ACRE AVG 89 89 200 200 F/ACRE AVG 38,191 38,191	694 694 694 S - CF HIGH 148 148 HIGH 109 109 ACRE HIGH 224 224 HIGH 41,338 41,338	1	# OF PLOTS 5 101 # OF PLOTS 5 30 # OF PLOTS 5 30	42 S REO. 10 34 S REO. 10 25 S REO. 10 7 S REO. 10 3	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15
CL SD: DO TO CL SD: SD TO CL SD CL SD CCL SD	68.1 1.0 UG FIR TAL 0UG FIR TAL		63.4 63.4 COEFF VAR.% 57.2 57.2 COEFF VAR.% 45.2 45.2 COEFF VAR.% 24.5 24.5 COEFF VAR.% 16.6	12.9 12.9 S.E.% 11.7 11.7 S.E.% 22.5 22.5 22.5 12.2 12.2 12.2 8.2 8.2	L. L. 3. 3. 1. L.	535 535 SAMPI OW 117 117 TREES OW 69 69 BASAI OW 176 176 NET B OW 35,045 5,045	615 615 AVG 133 133 6/ACRE AVG 89 89 200 200 F/ACRE AVG 38,191 38,191	694 694 694 S - CF HIGH 148 148 HIGH 109 109 ACRE HIGH 224 224 HIGH 41,338 41,338	1	# OF PLOTS 5 101 # OF PLOTS 5 30 # OF PLOTS 5 14 # OF PLOTS	42 S REO. 10 34 S REO. 10 25 S REO. 10 7 S REO. 10 3 S REO.	19 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP. 15 INF. POP.

TC	PSPCSTGR		Sı	pecies,	Sort G	rade - Boar	d Foo	ot Vo	olume	es (P	roject)							
TT	1N RR6W S0	3 Ty00	MC	18.00		Project: Acres	DE	VRA 18.0								Page Date Time	11	1 /10/2 :10:0	
		%					Perc	ent of	Net Bo	ard Fo	ot Volu	me				Avera	ige Lo	g	Logs
	S So Gr	Net	Bd. F	t. per Acre	•	Total	L	og Sca	ale Dia.			Log Le	ngth		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 DF DF DF	CU 2M 3M 4M	68 28 4	.4	26,198 10,699 1,402	26,091 10,699 1,402	470 193 25		100 100	57	43	16	2 1 84	2	98 98		19 16 9 6	389 112 28	0.00 2.01 0.72 0.38	1.3 67.1 95.7 51.0
DF	Totals	100	.3		38,191	687		32	39	30	1	5	1	94	35			1.13	215.1
Tota	ıls		0.3	38,298	38,191	687		32	39	30	1	5	1	94	35	10	178	1.13	215.1

TC PSTNDSUM	Stand Table Summary	Page Date:	1 11/10/2020
TT1N RR6W S03 Ty00MC 18.00	Project DEVRAY Acres 18.00	Time: Grown Year	1:10:09PM
	Acres 18.00	Grown Tear	•

S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	e Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	13	1	86	72	8.679	8.00	8.68	21.1	70.0	5.21	183	608	94	33	11
DF	14	2	88	97	14.967	16.00	29.93	17.6	75.0	15.04	528	2,245	271	95	40
DF	15	1	89	108	6.519	8.00	13.04	22.8	105.0	8.48	298	1,369	153	54	25
DF	16	1	89	105	5.730	8.00	11.46	24.4	105.0	7.97	280	1,203	143	50	22
DF	17	1	90	119	5.075	8.00	10.15	32.3	130.0	9.36	328	1,320	168	59	24
DF	18	1	89	113	4.527	8.00	9.05	34.1	135.0	8.81	309	1,222	159	56	22
DF	20	1	89	133	3.667	8.00	11.00	34.0	156.7	10.65	374	1,723	192	67	31
DF	21	1	88	112	3.326	8.00	9.98	32.0	133.3	9.10	319	1,330	164	57	24
DF	22	2	89	129	6.061	16.00	18.18	38.9	180.0	20.15	707	3,273	363	127	59
DF	23	5	89	129	13.864	40.00	41.59	44.2	203.3	52.39	1,838	8,457	943	331	152
DF	24	2	88	121	5.093	16.00	15.28	45.5	206.7	19.82	695	3,158	357	125	57
DF	27	1	84	128	2.012	8.00	6.04	59.2	253.3	10.19	358	1,529	183	64	28
DF	28	1	86	127	1.871	8.00	5.61	64.2	270.0	10.27	360	1,515	185	65	27
DF	30	2	87	139	3.259	16.00	9.78	78.1	381.7	21.77	764	3,732	392	137	67
DF	31	1	86	125	1.526	8.00	4.58	77.5	346.7	10.12	355	1,587	182	64	29
DF	33	2	86	140	2.694	16.00	9.43	80.1	415.7	21.53	756	3,919	388	136	71
DF	Totals	25	88	113	88.870	200.00	213.78	39.5	178.6	240.85	8,451	38,191	4,335	1,521	687
Totals		25	88	113	88.870	200.00	213.78	39.5	178.6	240.85	8,451	38,191	4,335	1,521	687

TC ¹	PLO	GSTVB					Log S	Stock	Table	- MB	F								
TT1	N R	R6W S03	Ty00	MC 1	8.00		Proje Acre		DEV	/RAY 18	.00					Page Date Time		1 10/202 10:08P	
	s	So Gr	Log	Gross	Def	Net	%		N	let Voli	ıme by	Scalin	g Diam	eter in	nches				
Spp	T		Len		%	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	24	10)	10	1.5									10			
DF		2M	40	461	l	459	66.8		,				64	104	181	111			
DF		3M	1 26	1		1	.2				1								
DF		3M	1 32	2	2	2	.3			2									
DF		3M	1 34	1	2	2	.3			2									
DF		3N	1 36	22	2	22	3.2			16	6								
DF		3N	1 40	160	5	166	24.1			23	38	104							
DF		4N	1 12		1	1	.2			1	0								
DF		4N	1 14		1	1	.1			1									
DF		4N	1 16		1	1	.1			1									
DF		4N	1 20		1	1	.1			1									
DF		4N	1 22		6	6	.8			6									
DF		4N	1 24	1	0	10	1.5			10									
DF		4N	1 26	5	6	6	.8			6									
DF		Total	ls	68	9	687	100.0			68	46	104	64	104	181	121			
Total		All Spec	ies	68	— — 9	687	100.0			68	46	104	64	104	181	121			

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TC PS	TATS				DJECT S OJECT		STICS RAY			PAGE DATE	1 11/10/2020
TWP	RGE	SC TRACT	,	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
T1N	R6	03 00U3		00MC			59.00	13	70	S	W
					TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
тот	A T		70		5.4		TREES		TIGEES		
	ISE COUNT OREST INT NKS	13 13	70		5.4		6,397		1.1		
				STA	ND SUMN	MARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOU	JG FIR	64	88.1	20.2	122	43.8	196.9	37,557	37,423	8,504	8,504
	LDER	6	20.3	12.9	71	5.1	18.5	982	982	354	354
TOT	CAL	70	108.4	19.1	113	49.3	215.4	38,539	38,406	8,858	8,858
CON		CE LIMITS OF 8.1 TIMES OU			JME WILL	BE WIT	HIN THE SA	MPLE ERR	OR		
CL	68.1	COEFF			SAMPL	E TREE	S - BF		# OF TREES	REQ.	INF. POP.
SD:	1.0	VAR.%		I	LOW	AVG	HIGH		5	10	15
	JG FIR	69.7	8.7		559	613	666 67				
	LDER	57.7	25.7		40	53	0/				
		77.5	0.3		512	565	617		240	60	27
ТОТ		77.5	9.3		512	565	617		240	60	
CL	68.1	COEFF		т	SAMPL	E TREE	S - CF		# OF TREES	S REQ.	INF. POP.
CL SD:	68.1 1.0	COEFF VAR.%	S.E.%	I	SAMPL LOW	E TREE	S - CF HIGH				27 INF. POP. 15
CL SD: DOU	68.1 1.0 JG FIR	COEFF		I	SAMPL	E TREE	S - CF		# OF TREES	S REQ.	INF. POP.
CL SD: DOU	68.1 1.0 JG FIR LDER	COEFF VAR.% 61.7	S.E.% 7.7	I	SAMPL LOW 125	E TREE AVG 135	S - CF HIGH 146		# OF TREES	S REQ.	INF. POP.
CL SD: DOU R Al	68.1 1.0 JG FIR LDER	COEFF VAR.% 61.7 59.5 68.8	S.E.% 7.7 26.5 8.2	I	SAMPL LOW 125 14 115	AVG 135 19 125	S - CF HIGH 146 24		# OF TREES 5	3 REQ. 10	INF. POP. 15
CL SD: DOU R AI TOT	68.1 1.0 JG FIR LDER FAL 68.1	COEFF VAR.% 61.7 59.5 68.8 COEFF	S.E.% 7.7 26.5 8.2		SAMPL LOW 125 14 115 TREES	AVG 135 19 125	S - CF HIGH 146 24 136		# OF TREES 5	S REQ. 10 47 S REQ.	INF. POP. 15
CL SD: DOU R AI TOT CL SD:	68.1 1.0 JG FIR LDER	COEFF VAR.% 61.7 59.5 68.8	S.E.% 7.7 26.5 8.2		SAMPL LOW 125 14 115	AVG 135 19 125	S - CF HIGH 146 24		# OF TREES 5 189 # OF PLOTS	3 REQ. 10	INF. POP. 15
CL SD: DOU R AI TOT CL SD: DOU R AI	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR LDER	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9		SAMPL LOW 125 14 115 TREES LOW 73	AVG 135 19 125 ACRE AVG 88 20	S - CF HIGH 146 24 136 HIGH 103 41		# OF TREES 5 189 # OF PLOTS 5	3 REQ. 10 47 3 REQ. 10	INF. POP. 15
CL SD: DOU R AI TOT CL SD: DOU R AI	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5	S.E.% 7.7 26.5 8.2 S.E.% 16.9		SAMPL LOW 125 14 115 TREES	AVG 135 19 125 /ACRE AVG 88	S - CF HIGH 146 24 136 HIGH 103		# OF TREES 5 189 # OF PLOTS	S REQ. 10 47 S REQ.	INF. POP. 15 21 INF. POP. 15
CL SD: DOU R AI TOT CL SD: DOU R AI	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR LDER	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1		SAMPL LOW 125 14 115 TREES LOW 73 90	AVG 135 19 125 ACRE AVG 88 20	S - CF HIGH 146 24 136 HIGH 103 41 127		# OF TREES 5 189 # OF PLOTS 5	5 REQ. 10 47 5 REQ. 10	INF. POP. 15 21 INF. POP. 15
CL SD: DOU R AI TOT CL SD: DOU R AI TOT	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR LDER FAL 68.1 1.0 68.1 1.0	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6 59.4 COEFF VAR.%	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1	1	SAMPL LOW 125 14 115 TREES LOW 73 90 BASAL LOW	AVG AVG AVG AVG AREA/A AVG	S - CF HIGH 146 24 136 HIGH 103 41 127 ACRE HIGH		# OF TREES 5 189 # OF PLOTS 5	5 REQ. 10 47 5 REQ. 10	INF. POP. 15 21 INF. POP. 15 17 INF. POP.
CL SD: DOU R AI TOT CL SD: DOU R AI TOT CL SD: DOU DOU SD:	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR LDER FAL 68.1 1.0 UG FIR UG FIR	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6 59.4 COEFF VAR.%	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1 S.E.% 15.4	1	SAMPL LOW 125 14 115 TREES LOW 73 90 BASAL	AVG AVG AVG AVG AREA/A AVG 197	S - CF HIGH 146 24 136 HIGH 103 41 127 ACRE HIGH 227		# OF TREES 5 189 # OF PLOTS 5 153 # OF PLOTS	38 S REQ. 10 38 S REQ.	INF. POP. 15 21 INF. POP. 15 17 INF. POP.
CL SD: DOU R AI TOT CL SD: DOU R AI TOT CL SD: CL SD:	68.1 1.0 UG FIR LDER FAL 68.1 1.0 UG FIR LDER FAL 68.1 1.0 UG FIR LDER LDER LDER LDER LDER LDER LDER LDE	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6 59.4 COEFF VAR.% 53.4 360.6	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1 S.E.% 15.4 103.9	1	SAMPL LOW 125 14 115 TREES LOW 73 90 BASAL LOW 167	AVG 197 18	S - CF HIGH 146 24 136 HIGH 103 41 127 ACRE HIGH 227 38		# OF TREES 5 189 # OF PLOTS 5 153 # OF PLOTS 5	38 S REQ. 10 38 S REQ. 10	INF. POP. 15 21 INF. POP. 15 17 INF. POP. 15
CL SD: DOU R AI TO1 CL SD: DOU R AI TO1 CL SD: TO1 CL SD: TO1	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR LDER FAL 68.1 1.0 UG FIR LDER LDER TAL 1.0 UG FIR LDER	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6 59.4 COEFF VAR.% 53.4 360.6 40.5	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1 S.E.% 15.4 103.9 11.7	1	SAMPL LOW 125 14 115 TREES LOW 73 90 BASAL LOW 167	AVG 135 19 125 ACRE AVG 88 20 108 AREA/A AVG 197 18 215	S - CF HIGH 146 24 136 HIGH 103 41 127 ACRE HIGH 227		# OF TREES 5 189 # OF PLOTS 5 153 # OF PLOTS 5	38 S REQ. 10 38 S REQ. 10 10 38 S REQ. 10	INF. POP. 15 21 INF. POP. 15 17 INF. POP. 15
CL SD: DOU R AI TOT CL SD: DOU R AI TOT CL SD: CL CL CL CL CL CL CL	68.1 1.0 JG FIR LDER FAL 68.1 1.0 JG FIR LDER FAL 68.1 1.0 UG FIR LDER FAL 68.1 1.0 GRIP LDER FAL 68.1	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6 59.4 COEFF VAR.% 53.4 360.6 40.5 COEFF	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1 S.E.% 15.4 103.9 11.7	I	SAMPL LOW 125 14 115 TREES LOW 73 90 BASAL LOW 167 190 NET BI	AVG 135 19 125 ACRE AVG 88 20 108 AREA/A AVG 197 18 215	S - CF HIGH 146 24 136 HIGH 103 41 127 ACRE HIGH 227 38 241		# OF TREES 5 189 # OF PLOTS 5 153 # OF PLOTS 5	38 S REQ. 10 38 S REQ. 10 18 S REQ. 10	INF. POP. 15 INF. POP. 15 INF. POP. 15 8 INF. POP. 15
CL SD: DOU R AI TOT CL SD: DOU R AI TOT CL SD: CL SD: CL SD: CL SD: CL SD: CL SD:	68.1 1.0 UG FIR LDER FAL 68.1	COEFF VAR.% 61.7 59.5 68.8 COEFF VAR.% 58.5 360.6 59.4 COEFF VAR.% 53.4 360.6 40.5 COEFF VAR.%	S.E.% 7.7 26.5 8.2 S.E.% 16.9 103.9 17.1 S.E.% 15.4 103.9 11.7 S.E.% S.E.% S.E.%	J	SAMPL LOW 125 14 115 TREES LOW 73 90 BASAL LOW 167 190 NET BI	AVG 135 19 125 ACRE AVG 88 20 108 AREA/A AVG 197 18 215 F/ACRE AVG	S - CF HIGH 146 24 136 HIGH 103 41 127 ACRE HIGH 227 38 241 HIGH		# OF TREES 5 189 # OF PLOTS 5 153 # OF PLOTS 5	38 S REQ. 10 38 S REQ. 10 10 38 S REQ. 10	INF. POP. 15 INF. POP. 15 INF. POP. 15 8 INF. POP. 15
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TC	PSPCSTGR			pecies, S	Sort G	rade - Board				es (P	roject)				D		1	
TT	IN RR6W S0	3 Ty001	MC · :	59.00		Project: Acres	DEV :	59.00								Page Date Time		1 10/2/ 11:59	
		%					Percei	nt of l	Net Bo	ard Fo	ot Volu	me				Avera	ge Lo	g	Logs
	S So Gr	Net	Bd. F	t. per Acre	e	Total	Log	g Scal	le Dia.			Log L	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	8 8							36-99	Ft	In	Ft	Lf	/Acre	
DF	CU														6	13		0.00	10.3
DF	2M	69	.2	26,075	26,030	1,536			53	47	1		1	98	40	15	360	1.92	72.4
DF	3M	28	.8	10,390	10,302	608		100			0	1	5	94	39	8	98	0.66	105.0
DF	4M	3		1,092	1,092	64		100			38	62			20	6	24	0.32	45.3
DF	Totals	97	.4	37,557	37,423	2,208		30	37	33	2	2	2	94	34	10	161	1.07	232.9
RA	CU														9	8		0.00	4.7
RA	R	100		982	982	58		100			12		44	44	27	7	48	0.64	20.3
RA	Totals	3		982	982	58		100			12		44	44	24	8	39	0.60	25.0
Tota	ls		0.3	38,539	38,406	2,266		32	36	32	2	2	3	93	33	10	149	1.04	257.9

TC **Stand Table Summary** PSTNDSUM Page 1 11/10/2020 Date: 59.00 TT1N RR6W S03 Ty00MC Project **DEVRAY** Time: 1:12:00PM 59.00 Grown Year: Acres

				Tot				Averag	e Log		Net	Net	A STATE OF THE STA		
S		Sample	FF	Av	Trees/	BA/	Logs	Net	Net	Tons/		Bd.Ft.		Totals	
Spc T	DBH	Trees	16'	Ht	Acre	Acre	0	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF
DF	13	4	85	97	13.353	12.31	26.71	14.2	57.5	10.81	379	1,536	638	224	91
DF	14	2	85	100	5.757	6.15	11.51	17.1	70.0	5.60	196	806	330	116	48
DF	16	6	86	116	13.222	18.46	26.44	25.8	110.8	19.47	683	2,931	1,149	403	173
DF	17	3	88	127	5.856	9.23	15.62	25.1	105.0	11.15	391	1,640	658	231	97
DF	18	6	87	124	10.447	18.46	27.86	27.7	115.0	22.03	773	3,204	1,300	456	189
DF	19	3	85	119	4.688	9.23	12.50	29.9	117.5	10.66	374	1,469	629	221	87
DF	20	1	86	118	1.410	3.08	2.82	41.6	165.0	3.35	117	465	197	69	27
DF	21	3	85	121	3.838	9.23	10.23	36.4	140.0	10.62	373	1,433	626	220	85
DF	22	4	86	132	4.662	12.31	13.99	40.8	184.2	16.28	571	2,576	960	337	152
DF	23	3	87	143	3.199	9.23	9.60	44.1	206.7	12.07	424	1,984	712	250	117
DF	24	2	86	141	1.959	6.15	5.88	50.7	221.7	8.49	298	1,303	501	176	77
DF	25	6	85	137	5.416	18.46	16.25	52.1	231.1	24.11	846	3,755	1,422	499	222
DF	26	3	87	141	2.504	9.23	7.51	61.3	283.3	13.12	460	2,128	774	272	126
DF	27	4	86	140	3.095	12.31	9.29	63.8	285.0	16.88	592	2,647	996	350	156
DF	28	5	85	145	3.598	15.38	10.79	70.1	318.0	21.55	756	3,432	1,272	446	203
DF	29	4	83	134	2.683	12.31	8.05	65.4	295.8	15.00	526	2,381	885	310	140
DF	30	1	85	152	.627	3.08	1.88	85.7	416.7	4.60	161	784	271	95	46
DF	31	1	86	139	.587	3.08	1.76	83.7	393.3	4.20	147	693	248	87	41
DF	35	1	85	152	.461	3.08	1.38	112.9	553.3	4.45	156	764	262	92	45
DF	38	1	83	151	.391	3.08	1.56	85.5	490.0	3.81	134	766	225	79	45
DF	41	1	83	136	.336	3.08	1.01	143.8	723.3	4.13	145	728	244	85	43
DF	Totals	64	86	122	88.088	196.92	222.64	38.2	168.1	242.37	8,504	37,423	14,300	5,017	2,208
RA	11	1	74	72	4.662	3.08	4.66								
RA	12	1	74	75	3.918	3.08	3.92	19.0	60.0	2.05	75	235	121	44	
RA	13	2	74	74	6.676	6.15	6.68	25.4	65.0	4.66		434	275	100	
RA	14	1	74	56	2.878	3.08	2.88	13.4	40.0	1.06	38	115	62	23	7
RA	16	1	73	76	2.204	3.08	2.20	32.3	90.0	1.96	71	198	115	42	12
RA	Totals	6	74	71	20.338	18.46	20.34	17.4	48.3	9.72	354	982	574	209	58
Totals		70	84	112	108.426	215.38	242.97	36.5	158.1	252.09	8,858	38,406	14,873	5,226	2,266

 TC PLOGSTVB
 Log Stock Table - MBF

 TT1N RR6W S03 Ty00MC
 59.00
 Project: DEVRAY Acres
 DEVRAY Date 11/10/2020 Time 1:11:58PM

S					Def Net		%		N	Net Volu	me by	Scalin	g Dian	eter in l	<u>Inches</u>	т			
Spp T	rt de	Len	1	MBF	% MBF	S	рс	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	2N	1 1	6	14		14	.6										14		
DF	2N	1 3	2	18		18	.8						18			Ì			
DF	21	1 4	0	1,507	1,5	04	68.1		-				386	263	695	104	56		
DF	3N	1 2	0	1		1	.1				1								
DF	3N	<i>1</i> 3	0	4		4	.2			2		2				ì		i	
DF	3N	<i>A</i> 3	2	20		20	.9			20									
DF	3N	<i>A</i> 3	4	10		10	.5			10									
DF	3N	Л 3	6	13		13	.6			9	4								
DF	31	Л 3	8	22		22	1.0			22									
DF	31	Л 4	0	542	5	37	24.3			74	225	238							
DF	4N	А 1	2	4		4	.2			4									
DF	41	А 1	4	7		7	.3			7									
DF	41	Л 1	6	5		5	.2			5									
DF	41	Л 1	8	8		8	.4			8									
DF	41	A 2	22	14		14	.6			14									
DF	41	M 2	24	7		7	.3			7									
DF	41	M 2	28	10		10	.4			10									
DF	41	M 3	30	9		9	.4			9									
DF	Tota	ıls		2,216	2,2	208	97.4			202	230	240	404	263	695	104	70		
RA	R	1	6	7		7	11.7				7								
RA	R	3	32	26		26	44.1			14	12								
RA	R	3	36	12		12	20.4			12									
RA	R	۷	10	14		14	23.8			14									
RA	Tota	ıls		58		58	2.6			39	18								
Total	All Spec	cies		2,274	2,2	266	100.0			242	249	240	404	263	695	104	70		

VOLUME SUMMARY

(Volumes in MBF)

Devil Ray FG-341-2021-W00244-01 November 2020

UNIT 1: MC (109 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
	Cruise Volume	2,270	628	68	0	2,966
Douglas fir	Hidden D&B (2%)	(45)	(13)	(1)	(0)	(59)
Douglas-fir	NET TOTAL	2,225	615	67	0	2,907
	% of Total	77	21	2	0	
	Cruise Volume	79	16	5	0	100
Western	Hidden D&B (2%)	(2)	(0)	(0)	(0)	(2)
hemlock	NET TOTAL	77	16	5	0	98
	% of Total	79	16	5	0	
	Cruise Volume	0	0	0	61	61
Red alder	Hidden D&B (5%)	(0)	(0)	(0)	(3)	(3)
Red alder	NET TOTAL	0	0	0	58	58
	% of Total	0	0	0	100	

UNIT 2: MC (18 ACRES)

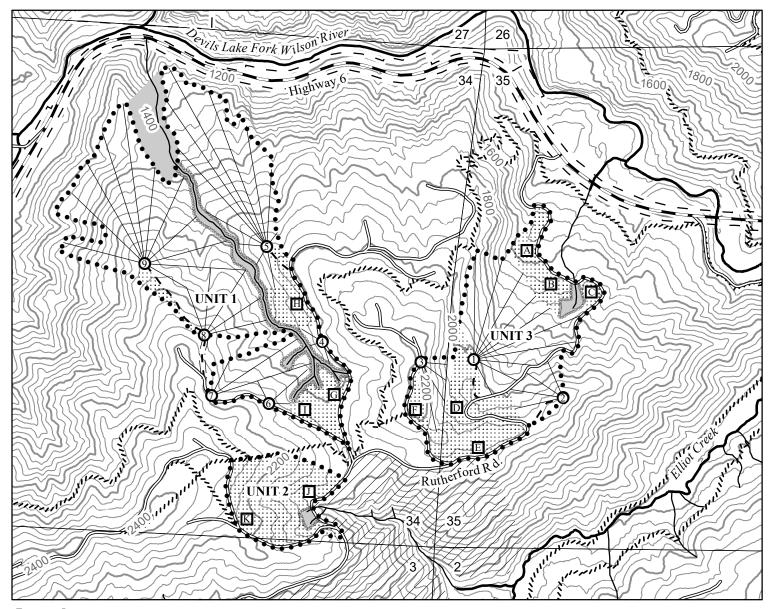
SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	470	193	25	0	688
	Hidden D&B (2%)	(9)	(4)	(1)	(0)	(14)
	NET TOTAL	461	189	24	0	674
	% of Total	68	28	4	0	

UNIT 3: MC (59 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	1,536	608	64	0	2,208
	Hidden D&B (2%)	(31)	(12)	(1)	(0)	(44)
	NET TOTAL	1,505	596	63	0	2,164
	% of Total	70	27	3	0	
Red alder	Cruise Volume	0	0	0	58	58
	Hidden D&B (5%)	(0)	(0)	(0)	(3)	(3)
	NET TOTAL	0	0	0	55	55
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	4,191	1,400	154	0	5,745
Western hemlock	77	16	5	0	98
Red alder	0	0	0	113	113
Total	4,268	1,416	159	113	5,956



Legend

Timber Sale Boundary Stream Buffer Boundary = Right of Way Boundary

¹ ODF Ownership Boundary

= Highways

Surfaced Roads

- New Road Construction

Recreation Trails

Type F-Stream

Type N-Stream

Stream Buffer

Cable Yarding Area

Tractor Yarding Area

Cable Landing

Tractor Landing

Reforestation Area

Section Lines

40 Foot Contour Band

200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00244-01 **DEVIL RAY**

PORTIONS OF SECTIONS 34 & 35, T2N, R6W, W.M., AND PORTIONS OF SECTION 3, T1N, R6W, W.M., TILLAMOOK COUNTY, OREGON

> Forest Grove District GIS November, 2020

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

1:12,000

1,000

0 250 500

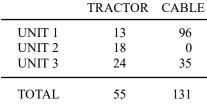
1 inch = 1,000 feet

1,500

2,000

TOTAL 55





APPROXIMATE NET ACRES