



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Miami
Sale TL-341-2024-W00971-01

District: Tillamook

Date: June 13, 2024

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$860,868.95	\$69,435.47	\$930,304.42
		Project Work:	(\$422,590.00)
		Advertised Value:	\$507,714.42



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Timber Description

Location: PORTIONS OF SECTIONS 11, 14, 15 of T2N R9W W.M.
TILLAMOOK COUNTY, OREGON

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	97
Western Hemlock / Fir	17	0	98
Sitka Spruce	19	0	93
Alder (Red)	15	0	90

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	1,949	546	0	0	0	0	2,495
Western Hemlock / Fir	269	282	0	0	0	0	551
Sitka Spruce	48	25	0	0	0	0	73
Alder (Red)	0	0	280	90	201	456	1,027
Total	2,266	853	280	90	201	456	4,146

Comments: Additional Costs – North Miami
 Pond Values Used: April 2024
 Region: Astoria, Forest Grove, and Tillamook
 Western red cedar and other cedars stumpage price = \$1,300/MBF - \$460.61/MBF = \$839.39/MBF
 Pulp (Conifer and Hardwood) Price = \$2.50/Ton
 FUEL COST ALLOWANCE = \$5.00/Gallon
 HAULING COST ALLOWANCE (\$120.00/hr x 10 hr.= \$ 1,200.00) = \$1,200/DAY
 BRANDING AND PAINTING ALLOWANCE = \$2.00/MBF

Other Costs with Profit and Risk Added:
 Non-project Rd. 1: 5+03 sta. \$250/sta. = \$1,258
 Lift trees 10 x \$350/tree = \$3,500

TOTAL Other Costs with Profit and Risk =4,758

Other Costs with no Profit and Risk Added:
 Slash piling and sorting to stable location: \$7/ac x 189 ac. = \$1,323
 Heliport Construction: \$500/unit x 2 unit = \$1,000
 Move-in Machine Cleaning: \$1,000/machine x 2 machines x 2season = \$4,000
 Machine time to block non-project spur: \$100/spur x 1 road = \$100

Ditch Cleaning and Bank Sluff Removal:
 Mobilization: two time – dump truck w/ tilt bed & small excavator: \$900 x 2 = \$1,800
 Small excavator (Cat 312 or equivalent): 40 @ \$145/ hour = \$5,800
 Dump truck: 40 hours @ \$95/ hour = \$3,800

TOTAL Other Costs with no Profit and Risk added = \$17,823

ODF Road Maintenance
 Spot Rocking: 20cy/MMBF/mile x 4.146 MMBF x \$28/cy x 9 miles /4,146 MBF = \$5.04/MBF
 Interim Grading (Unit 1): \$1,150/mile x 9 miles x 1 time/ 4,146 MBF = \$2.50/MBF
 Final Maintenance Grading: \$1,500/mile x 15 miles/ 4,146 MBF = \$5.43/MBF
 Final Maintenance Compaction: \$1,000/mile x 6 miles/4,146 MBF = \$1.45/MBF
 Total Road Maintenance: = \$14.42/MBF



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Timber Sale Appraisal North Miami Sale TL-341-2024-W00971-01

District: Tillamook

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Logging Conditions

Combination#: 1

Douglas - Fir	7.27%
Western Hemlock / Fir	9.00%
Sitka Spruce	3.96%
Alder (Red)	5.09%

Logging System: Shovel **Process:** Feller Buncher
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 16 **bd. ft / load:** 4100
cost / mbf: \$152.44
machines: Feller Buncher w/ Delimber

Combination#: 2

Douglas - Fir	70.00%
Western Hemlock / Fir	70.00%
Sitka Spruce	70.00%
Alder (Red)	70.00%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimiting
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10 **bd. ft / load:** 4100
cost / mbf: \$209.24
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Large)

Combination#: 3

Douglas - Fir	22.73%
Western Hemlock / Fir	21.00%
Sitka Spruce	26.04%
Alder (Red)	24.91%

Logging System: Cable: Large Tower >=70 **Process:** Stroke Delimber
yarding distance: Long (1,500 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 7 **bd. ft / load:** 4100
cost / mbf: \$298.92
machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)



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Date: June 13, 2024

Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$422,590.00	Other Costs (P/R): \$4,758.00
Slash Disposal: \$0.00	Other Costs: \$17,823.00

Miles of Road

Road Maintenance: \$14.42

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	3.8
Western Hemlock / Fir	\$0.00	3.0	4.5
Sitka Spruce	\$0.00	3.0	3.2
Alder (Red)	\$0.00	3.0	3.2



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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									
\$225.49	\$14.85	\$2.12	\$169.40	\$1.15	\$41.30	\$0.00	\$2.00	\$4.30	\$460.61
Western Hemlock / Fir									
\$222.96	\$14.71	\$2.12	\$94.44	\$1.15	\$33.54	\$0.00	\$2.00	\$4.30	\$375.22
Sitka Spruce									
\$230.34	\$15.43	\$2.12	\$139.32	\$1.15	\$38.84	\$0.00	\$2.00	\$4.30	\$433.50
Alder (Red)									
\$228.68	\$15.86	\$2.12	\$143.23	\$1.15	\$39.10	\$0.00	\$2.00	\$4.30	\$436.44

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$767.03	\$306.42	\$0.00
Western Hemlock / Fir	\$0.00	\$542.44	\$167.22	\$0.00
Sitka Spruce	\$0.00	\$491.21	\$57.71	\$0.00
Alder (Red)	\$0.00	\$504.05	\$67.61	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,495	\$306.42	\$764,517.90
Western Hemlock / Fir	551	\$167.22	\$92,138.22
Sitka Spruce	73	\$57.71	\$4,212.83
Alder (Red)	1,027	\$67.61	\$69,435.47

Gross Timber Sale Value

Recovery: \$930,304.42

Prepared By: Nathan Atchison

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: North Miami

CONSTRUCTION

Point	I to J	3+40	stations =	\$5,236.12
Point	S to T	2+60	stations =	\$6,324.73
SUBTOTAL CONSTRUCTION				\$11,560.85

IMPROVEMENT

Point	A to B	525+00	stations =	\$102,395.85
Point	C to D	207+00	stations =	\$8,409.50
Point	E to F	19+35	stations =	\$3,609.13
Point	K to L	390+65	stations =	\$213,154.28
SUBTOTAL IMPROVEMENT				\$327,568.76

RECONSTRUCTION

Point	M to N	1+90	stations =	\$1,666.86
Point	O to P	14+20	stations =	\$24,409.10
Point	Q to R	4+10	stations =	\$8,083.98
SUBTOTAL RECONSTRUCTION				\$34,159.94

SPECIAL PROJECTS

Brush	25.6	miles of road	\$29,824.00	
Closure	U to V	Close 46.50 stations of road	\$4,270.00	
Pit Work	6.0	hours of stripping & endhauling	\$2,310.00	
SUBTOTAL SPECIAL PROJECTS				\$36,404.00

MOVE IN

\$12,896.45

GRAND TOTAL **\$422,590.00**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **A to B**

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	525+00	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		9.94	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.143	acres @	\$955.00	per acre =	\$136.57
TOTAL CLEARING AND GRUBBING					\$136.57

IMPROVEMENT: EXCAVATION -

Pullback	548	cy. @	\$2.20	per c.y.=	\$1,205.60
Widening	798	cy. @	\$2.20	per c.y.=	\$1,755.60
TOTAL EXCAVATION					\$2,961.20

IMPROVEMENT: ENDHAUL -

Pullback	10+85	to	12+00	68	cy. @	\$2.18	per c.y.=	\$148.24
Pullback	411+10	to	411+75	38	cy. @	\$2.19	per c.y.=	\$83.22
Pullback	461+85	to	462+05	23	cy. @	\$2.60	per c.y.=	\$59.80
Pullback	463+20	to	463+60	8	cy. @	\$2.53	per c.y.=	\$20.24
Pullback	468+80	to	469+45	43	cy. @	\$2.35	per c.y.=	\$101.05
Pullback	490+00	to	490+50	20	cy. @	\$1.59	per c.y.=	\$31.80
Pullback	501+30	to	501+70	23	cy. @	\$1.64	per c.y.=	\$37.72
Pullback	297+25	to	299+05	325	cy. @	\$1.61	per c.y.=	\$523.25
Widening	410+60	to	412+15	281	cy. @	\$2.19	per c.y.=	\$615.39
Widening	502+30	to	503+25	343	cy. @	\$1.51	per c.y.=	\$517.93
Widening	524+10	to	525+00	174	cy. @	\$1.66	per c.y.=	\$288.84
Spread & compact				1346	cy. @	\$0.55	per c.y.=	\$740.30
TOTAL ENDHAUL								\$3,167.78

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	230	LF of 18"	\$5,807.50	100	LF of 24"	\$3,825.00
			\$5,807.50			\$3,825.00
<u>Culvert Stakes & Markers</u>						
16 markers			\$144.00			
TOTAL CULVERTS						\$9,776.50

ROCK

18" Culvert Backfill/Bedding	20yds/ culvert	140	cy. of	Crushed	@	\$15.19	per c.y. =	\$2,126.60
18" Energy Dissipator	5yds/Culvert	35	cy. of	Rip Rap	@	\$12.33	per c.y. =	\$431.55
24" Culvert Backfill/Bedding	20yds/ culvert	20	cy. of	Crushed	@	\$15.20	per c.y. =	\$304.00
24" Energy Dissipator	5yds/Culvert	15	cy. of	Rip Rap	@	\$12.33	per c.y. =	\$184.95
Culvert Backfill/Bedding	276+65	30	cy. of	Crushed	@	\$11.34	per c.y. =	\$340.20
Culvert Backfill/Bedding	285+85	30	cy. of	Crushed	@	\$11.15	per c.y. =	\$334.50
Culvert Backfill/Bedding	314+35	30	cy. of	Crushed	@	\$10.54	per c.y. =	\$316.20
Landing Rock	502+80	25	cy. of	Jawrun	@	\$5.58	per c.y. =	\$139.50
Landing Rock	525+00	10	cy. of	Jawrun	@	\$6.05	per c.y. =	\$60.50
Energy Dissipator	303+80	10	cy. of	Rip Rap	@	\$11.76	per c.y. =	\$117.60
Spot Rock	As Directed	300	cy. of	Crushed	@	\$33.22	per c.y. =	\$9,966.00
Leveling Rock	As Directed	100	cy. of	Crushed	@	\$11.04	per c.y. =	\$1,104.00
Energy Dissipator	316+35	10	cy. of	Rip Rap	@	\$9.35	per c.y. =	\$93.50
TOTAL ROCK								\$15,519.10

SPECIAL PROJECTS

Cut culvert @ station 11+65	1.00	hours @	\$45.00	per hour	\$45.00
Remove waste station 412+55 -	0.25	hours @	\$385.00	per hour	\$96.25
Construct waste areas -	6.00	hours @	\$220.00	per hour	\$1,320.00
Construct ditchouts -	7.00	@	\$60.00	each	\$420.00
Construct/Clean Ditches-No Endhaul	4.00	hours @	\$220.00	per hour	\$880.00
Construct/ Clean Ditches-Endhaul	60.00	hours @	\$385.00	per hour	\$23,100.00
Remove flume 316+25	1.00	hours @	\$45.00	per hour	\$45.00
Grade and shape road -	525.00	stations @	\$24.40	per station	\$12,810.00
Widening(297+45 to 299+05) Large excavator with rock hammer & dump	40.00	hours @	\$452.50	per hour	\$18,100.00
Clean Culvert-	3.00	@	\$36.00	each	\$108.00
Roll subgrade w/ vibratory roller-45+40-171+60	525.00	stations @	\$19.40	per station	\$10,185.00
Remove large stumps -	3.00	@	\$110.00	each	\$330.00
Remove culverts from state lands	5.00	@	\$919.20	total	\$919.20
Grass seed -	4.50	acres @	\$310.00	per acre	\$1,395.00
Mulching -	1.250	acres @	\$865.00	per acre	\$1,081.25
TOTAL SPECIAL PROJECTS					\$70,834.70

GRAND TOTAL **\$102,395.85**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **C to D**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>207+00</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		3.92	miles		0.00	miles

ROCK

Spot Rock	0+00 - 113+10	50	cy. of	Crushed	@	\$11.32 per c.y.=	\$566.00	TOTAL ROCK	\$566.00
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SPECIAL PROJECTS

Clean culverts	3.00	@	\$60.00	each	\$180.00
Grade and shape road -	207.00	stations @	\$24.40	per station	\$5,050.80
Constrcut/Clean ditch & endhaul	2.90	stations @	\$145.00	per station	\$420.50
Roll subgrade w/ vibratory roller prior to rocking -	113.00	stations @	\$19.40	per station	\$2,192.20
				TOTAL SPECIAL PROJECTS	\$7,843.50

GRAND TOTAL **\$8,409.50**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **E to F**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>19+35</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.37	miles		0.00	miles

ROCK

Spot Rock	As Directed	100	cy. of	Crushed	@	\$11.92 per c.y.=	\$1,192.00	
Turnaround	12+00	30	cy. of	Jawrun	@	\$5.16 per c.y.=	\$154.80	
Landing Rock	19+35	80	cy. of	Jawrun	@	\$5.31 per c.y.=	\$424.80	
							TOTAL ROCK	\$1,771.60

SPECIAL PROJECTS

Remove trees at Landing and endhaul-	2.00	hours @	\$385.00	per hour	\$770.00	
Remove vegetation from turnaround(12+00)-	1.00	hours @	\$220.00	per hour	\$220.00	
Grade and shape road -	19.35	stations @	\$24.40	per station	\$472.14	
Roll subgrade -	19.35	stations @	\$19.40	per station	\$375.39	
					TOTAL SPECIAL PROJECTS	\$1,837.53

GRAND TOTAL **\$3,609.13**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **I to J**

Construction -	3+40	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.06	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch Crown	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		3+40	25%			\$229				\$778.60
									TOTAL	\$778.60

ROCK

0+00 to	3+40	180	cy. of	Jawrun	@	\$5.50 per c.y.=	\$990.00	
Approach Widening	0+00	30	cy. of	Jawrun	@	\$5.47 per c.y.=	\$164.10	
Landing Rock	3+40	60	cy. of	Jawrun	@	\$5.54 per c.y.=	\$332.40	
							TOTAL ROCK	\$1,486.50

SPECIAL PROJECTS

Landing Construction-	1.00	hours @	\$220.00	per hour	\$220.00	
Construct fill-	2.00	hours @	\$440.00	per hour	\$880.00	
Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00	
Grade and shape road -	3.40	stations @	\$24.40	per station	\$82.96	
Roll subgrade -	3.40	stations @	\$19.40	per station	\$65.96	
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00	
Remove large stumps -	7.00	@	\$110.00	each	\$770.00	
Grass seed -	0.41	acres @	\$310.00	per acre	\$127.10	
					TOTAL SPECIAL PROJECTS	\$2,971.02

GRAND TOTAL **\$5,236.12**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **K to L**

Construction -	0+00	stations	Improvement -	390+65	stations	Reconstruction -	0+00	stations
	0.00	miles		7.40	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.054	acres @	\$955.00	per acre =	\$51.57
Widening	0.304	acres @	\$955.00	per acre =	\$290.32
TOTAL CLEARING AND GRUBBING					\$341.89

IMPROVEMENT: EXCAVATION -

Pullback	406	cy. @	\$2.20	per c.y.=	\$893.20
Widening	2296	cy. @	\$2.20	per c.y.=	\$5,051.20
TOTAL EXCAVATION					\$5,944.40

IMPROVEMENT: ENDDHAUL -

Pullback	91+90	to	93+15	302	cy. @	\$2.16	per c.y.=	\$652.32
Pullback	265+60	to	266+80	104	cy. @	\$2.03	per c.y.=	\$211.12
Widening	265+60	to	267+85	260	cy. @	\$2.03	per c.y.=	\$527.80
Widening	326+70	to	327+80	86	cy. @	\$2.00	per c.y.=	\$172.00
Widening	335+80	to	336+65	13	cy. @	\$1.91	per c.y.=	\$24.83
Widening	354+55	to	355+95	21	cy. @	\$1.44	per c.y.=	\$30.24
Widening	357+55	to	359+00	1222	cy. @	\$1.53	per c.y.=	\$1,869.66
Widening	359+00	to	360+20	26	cy. @	\$1.57	per c.y.=	\$40.82
Widening	377+00	to	390+65	296	cy. @	\$1.49	per c.y.=	\$441.04
Widening	91+60	to	93+80	372	cy. @	\$1.77	per c.y.=	\$658.44
Spread & compact				2702	cy. @	\$0.55	per c.y.=	\$1,486.10
TOTAL ENDDHAUL								\$6,114.37

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>		220	LF of 18"	\$5,555.00	30	LF of 24"	\$1,147.50
		30	LF of 30"	\$1,500.00			
				\$7,055.00			\$1,147.50
<u>Culvert Stakes & Markers</u>							
		34	markers	\$306.00			
TOTAL CULVERTS							\$8,508.50

ROCK

292+95	to	376+55	1,870	cy. of	Crushed	@	\$30.23	per c.y.=	\$56,530.10
353+25	to	390+65	2,690	cy. of	Pitrun	@	\$22.59	per c.y.=	\$60,767.10
Spot Rock		As Directed	500	cy. of	Crushed	@	\$28.84	per c.y.=	\$14,420.00
Culvert Backfill/Bedding		20yds/ culvert	160	cy. of	Crushed	@	\$26.88	per c.y.=	\$4,300.80
Energy Dissipator		5yds/Culvert	40	cy. of	Rip Rap	@	\$10.60	per c.y.=	\$424.00
Fill Repair		157+05	160	cy. of	Pitrun	@	\$14.30	per c.y.=	\$2,288.00
Fill Armor		157+05	80	cy. of	Rip Rap	@	\$8.69	per c.y.=	\$695.20
Fill Repair		186+30	565	cy. of	Pitrun	@	\$13.68	per c.y.=	\$7,729.20
Fill Armor		186+30	200	cy. of	Rip Rap	@	\$8.29	per c.y.=	\$1,658.00
Widening		265+60	10	cy. of	Pitrun	@	\$12.00	per c.y.=	\$120.00
Widening		353+25	25	cy. of	Pitrun	@	\$12.73	per c.y.=	\$318.25
Widening		357+55	70	cy. of	Pitrun	@	\$12.82	per c.y.=	\$897.40
Landing Rock		390+65	80	cy. of	Pitrun	@	\$14.39	per c.y.=	\$1,151.20
Widening		91+60	170	cy. of	Pitrun	@	\$15.66	per c.y.=	\$2,662.20
Widening		91+60	30	cy. of	Crushed	@	\$38.55	per c.y.=	\$1,156.50
Energy Dissipator		92+90	50	cy. of	Rip Rap	@	\$9.74	per c.y.=	\$487.00
TOTAL ROCK									\$155,604.95

SPECIAL PROJECTS

Remove material from road	2.50	hours @	\$385.00	per hour	\$962.50
Clean Culverts	3.00	@	\$36.00	each	\$108.00
Construct waste areas -	4.00	hours @	\$220.00	per hour	\$880.00
Construct Landing -	1.00	hours @	\$220.00	per hour	\$220.00
ROW Tree Plucking & Endhauling(353+25 to 376+55)	3.00	hours @	\$335.00	per hour	\$1,005.00
Roadwork Station 186+30(W/O Rock)-	5.00	hours @	\$385.00	per hour	\$1,925.00
Roadwork Station 265+60(W/O Rock)-	1.50	hours @	\$85.00	per hour	\$127.50
Grade and shape road -	390.65	stations @	\$24.40	per station	\$9,531.86
Construct Ditchouts	7.00	@	\$65.00	each	\$455.00
Construct/Clean Ditches-No Endhaul	16.00	hours @	\$220.00	per hour	\$3,520.00
Construct/ Clean Ditches-Endhaul	13.00	hours @	\$285.00	per hour	\$3,705.00
Roll subgrade w/ vibratory roller prior to rocking -	390.65	stations @	\$19.40	per station	\$7,578.61
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Remove large stumps -	4.00	@	\$110.00	each	\$440.00
Remove culverts from state lands	1.00	@	\$476.70	total	\$476.70
Grass seed -	6.00	acres @	\$310.00	per acre	\$1,860.00
Mulching -	4.00	acres @	\$865.00	per acre	\$3,460.00
TOTAL SPECIAL PROJECTS					\$36,640.17

GRAND TOTAL **\$213,154.28**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **M to N**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>1+90</u>	stations
	0.00	miles		0.00	miles		0.04	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -
Avg. Dist.

ROCK								
Approach Widening	0+00		50	cy. of	Pitrun	@	\$13.26 per c.y.=	\$663.00
								TOTAL ROCK
								\$663.00

SPECIAL PROJECTS								
Remove Vegetation		2.00	hours @				\$220.00 per hour	\$440.00
Construct Waste areas -		2.00	hours @				\$220.00 per hour	\$440.00
Grade and shape road -		1.90	stations @				\$24.40 per station	\$46.36
Grass seed -		0.25	acres @				\$310.00 per acre	\$77.50
								TOTAL SPECIAL PROJECTS
								\$1,003.86
GRAND TOTAL								\$1,666.86

SUMMARY OF CONSTRUCTION COST

Sale:	North Miami				Road:	O to P				
<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	0+00	stations	<u>Reconstruction -</u>	14+20	stations		
	0.00	miles		0.00	miles		0.27	miles		
RECONSTRUCTION: CLEARING AND GRUBBING -										
Widening				0.213	acres @	\$955.00	per acre =	\$203.42		
							TOTAL CLEARING AND GRUBBING	\$203.42		
RECONSTRUCTION: EXCAVATION -										
Widening				896	cy. @	\$2.20	per c.y. =	\$1,971.20		
							TOTAL EXCAVATION	\$1,971.20		
RECONSTRUCTION: ENDHAUL -										
Widening	8+00		to	14+20		896	cy. @	\$1.27	per c.y. =	\$1,137.92
Spread & compact						896	cy. @	\$0.55	per c.y. =	\$492.80
							TOTAL ENDHAUL	\$1,630.72		
ROCK										
0+00 to	14+20		1,030	cy. of	Pitrun	@	\$14.18	per c.y. =	\$14,605.40	
Approach Widening	0+00		60	cy. of	Pitrun	@	\$13.96	per c.y. =	\$837.60	
Landing Rock	14+20		70	cy. of	Pitrun	@	\$14.39	per c.y. =	\$1,007.30	
							TOTAL ROCK	\$16,450.30		
SPECIAL PROJECTS										
Construct Landing				2.00	hours @	\$220.00	per hour	\$440.00		
Remove all vegetative material from roadway				5.00	hours @	\$413.00	per hour	\$2,065.00		
Grade and shape road -				14.20	stations @	\$24.40	per station	\$346.48		
Roll subgrade w/ vibratory roller prior to rocking -				14.20	stations @	\$19.40	per station	\$275.48		
Remove large stumps -				4.00	lump sum @	\$110.00		\$440.00		
Endhaul stumps from landing -				1.00	hours @	\$385.00	per hour	\$385.00		
Grass seed and fertilize -				0.65	acres @	\$310.00	per acre	\$201.50		
							TOTAL SPECIAL PROJECTS	\$4,153.46		
								GRAND TOTAL	\$24,409.10	

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **Q to R**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>4+10</u>	stations
	0.00	miles		0.00	miles		0.08	miles

ROCK

0+00 to	4+10	290	cy. of	Pitrun	@	\$14.05 per c.y.=	\$4,074.50	
Approach Widening	0+00	30	cy. of	Pitrun	@	\$13.99 per c.y.=	\$419.70	
Landing Rock	4+10	80	cy. of	Pitrun	@	\$14.11 per c.y.=	\$1,128.80	
							TOTAL ROCK	\$5,623.00

SPECIAL PROJECTS

Remove Vegetative Material from road	2.00	hours @	\$220.00	per hour	\$440.00	
Construct Landing	2.00	hours @	\$220.00	per hour	\$440.00	
Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00	
Grade and shape road -	4.10	stations @	\$24.40	per station	\$100.04	
Roll subgrade w/ vibratory roller prior to rocking -	4.10	stations @	\$19.40	per station	\$79.54	
Remove large stumps -	4.00	@	\$110.00	each	\$440.00	
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$385.00	
Grass seed and fertilize -	0.44	acres @	\$310.00	per acre	\$136.40	
					TOTAL SPECIAL PROJECTS	\$2,460.98

GRAND TOTAL **\$8,083.98**

SUMMARY OF CONSTRUCTION COST

Sale: **North Miami**

Road: **S to T**

Construction -	2+60	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.05	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		1+20	50%			\$636	=			\$763.20
1+20		2+60	20%			\$193	=			\$270.20
TOTAL										\$1,033.40

ROCK

0+00 to	2+60	220	cy. of	Pitrun	@	\$14.20	per c.y.=	\$3,124.00
Approach Widening	0+00	30	cy. of	Pitrun	@	\$14.16	per c.y.=	\$424.80
Landing Rock	2+60	60	cy. of	Pitrun	@	\$14.23	per c.y.=	\$853.80
TOTAL ROCK								\$4,402.60

SPECIAL PROJECTS

Construct approach	1.00	hours @	\$220.00	per hour	\$220.00
Construct Landing	1.00	hours @	\$220.00	per hour	\$220.00
Grade and shape road -	2.60	stations @	\$24.40	per station	\$63.44
Roll subgrade w/ vibratory roller prior to rocking -	2.60	stations @	\$19.40	per station	\$50.44
Remove large stumps -	2.00	@	\$110.00	each	\$220.00
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25
Grass seed and fertilize -	0.06	acres @	\$310.00	per acre	\$18.60
TOTAL SPECIAL PROJECTS					\$888.73

GRAND TOTAL **\$6,324.73**

ROCK SUMMARY

Pit:	Rip Rap Source(See Exhibit A)	Location:	Varies
Sale:	North Miami	Road:	440 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	440 c.y.
Drill Pct.:	0%	In Place Total:	314 c.y.

Rip Rock:	\$3.35	/cu.yd.	x	314	cu.yds.	=	\$1,051.90
Load Dump Truck:	\$2.20	/cu.yd.	x	440	cu.yds.	=	\$968.00
Sort Rock	\$1.20	/cu.yd.	x	440	cu.yds.	=	\$528.00

Subtotal \$2,547.90

Base Cost= \$5.79 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$2,547.90

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST	
A to B 18" Energy Dissipator (Rip Rap)	4.84	1.70	5.79	12.33	35	\$431.55	
A to B 24" Energy Dissipator (Rip Rap)	4.84	1.70	5.79	12.33	15	\$184.95	
A to B Energy Dissipator (Rip Rap)	4.27	1.70	5.79	11.76	10	\$117.60	
A to B Energy Dissipator (Rip Rap)	1.86	1.70	5.79	9.35	10	\$93.50	
K to L Energy Dissipator (Rip Rap)	3.91	0.90	5.79	10.60	40	\$424.00	
K to L Fill Armor (Rip Rap)	2.00	0.90	5.79	8.69	80	\$695.20	
K to L Fill Armor (Rip Rap)	1.60	0.90	5.79	8.29	200	\$1,658.00	
K to L Energy Dissipator (Rip Rap)	3.05	0.90	5.79	9.74	50	\$487.00	
				Total C.Y.	440	Sub Total	\$4,091.80

TOTAL ROCKING COSTS \$4,091.80

ROCK SUMMARY

Pit:	Commercial	Location:	
Sale:	North Miami	Road:	2860 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	2860 c.y.
Drill Pct.:	0%	In Place Total:	2043 c.y.
Purchase Cost=	\$18.25	Per Cu.Yd.	

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Purchase \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Spot Rock (Crushed)	13.27	1.70	18.25	33.22	300	\$9,966.00
K to L 29295 37655 (Crushed)	8.43	3.55	18.25	30.23	1870	\$56,530.10
K to L Spot Rock (Crushed)	7.04	3.55	18.25	28.84	500	\$14,420.00
K to L Culvert Backfill/Bedding (Crushed)	7.73	0.90	18.25	26.88	160	\$4,300.80
K to L Widening (Crushed)	16.75	3.55	18.25	38.55	30	\$1,156.50
			Total C.Y.		2860	Sub Total
						\$86,373.40

TOTAL ROCKING COSTS	\$86,373.40
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ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Lower Miami		Location:	Sec. 22, T2N, R9W, W.M.
Sale:	North Miami		Road:	5690 c.y.
Swell:	1.40		Stockpile:	c.y.
Shrinkage	1.16		Total Truck Loads:	5690 c.y.
Drill Pct.:	50%		In Place Total:	4064 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$11,550.00

Drill & Shoot:	\$3.60	/cu.yd.	x	2032	cu.yds.	=	\$7,315.20
Push Rock:	\$1.20	/cu.yd.	x	5690	cu.yds.	=	\$6,828.00
Load Dump Truck:	\$1.20	/cu.yd.	x	5690	cu.yds.	=	\$6,828.00

Subtotal \$39,328.40

Move In and set up Drill and Compressor	1		@	\$1,609.17	=	\$1,609.17
Move in Grader	1		@	\$1,670.91	=	\$1,670.91
Move in Excavator	1		@	\$1,781.14	=	\$1,781.14
Move in Trucks	4		@	\$475.95	=	\$1,903.80
Move in Water Truck	1		@	\$475.95	=	\$475.95

Subtotal \$7,440.97

TOTAL PRODUCTION COSTS \$46,769.37

Base Cost= \$8.22 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
K to L 35325 39065 (Pitrun)	12.42	1.95	8.22	22.59	2690	\$60,767.10
K to L Fill Repair (Pitrun)	4.13	1.95	8.22	14.30	160	\$2,288.00
K to L Fill Repair (Pitrun)	3.51	1.95	8.22	13.68	565	\$7,729.20
K to L Widening (Pitrun)	1.83	1.95	8.22	12.00	10	\$120.00
K to L Widening (Pitrun)	2.56	1.95	8.22	12.73	25	\$318.25
K to L Widening (Pitrun)	2.65	1.95	8.22	12.82	70	\$897.40
K to L Landing Rock (Pitrun)	4.22	1.95	8.22	14.39	80	\$1,151.20
K to L Widening (Pitrun)	5.49	1.95	8.22	15.66	170	\$2,662.20
M to N Approach Widening (Pitrun)	3.09	1.95	8.22	13.26	50	\$663.00
O to P 0 1420 (Pitrun)	4.01	1.95	8.22	14.18	1030	\$14,605.40
O to P Approach Widening (Pitrun)	3.79	1.95	8.22	13.96	60	\$837.60
O to P Landing Rock (Pitrun)	4.22	1.95	8.22	14.39	70	\$1,007.30
Q to R 0 410 (Pitrun)	3.88	1.95	8.22	14.05	290	\$4,074.50
Q to R Approach Widening (Pitrun)	3.82	1.95	8.22	13.99	30	\$419.70
Q to R Landing Rock (Pitrun)	3.94	1.95	8.22	14.11	80	\$1,128.80
S to T 0 260 (Pitrun)	4.03	1.95	8.22	14.20	220	\$3,124.00
S to T Approach Widening (Pitrun)	3.99	1.95	8.22	14.16	30	\$424.80
S to T Landing Rock (Pitrun)	4.06	1.95	8.22	14.23	60	\$853.80
				Total C.Y.	5690	Sub Total \$103,072.25

TOTAL ROCKING COSTS \$103,072.25

ROCK SUMMARY

Pit:	Upper Miami Pit Stockpile	Location:	Sec. 11 , T2N, R9W, W.M.
Sale:	North Miami	Road:	415 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	415 c.y.
Drill Pct.:	0%	In Place Total:	296 c.y.

Load Dump Truck: \$1.20 /cu.yd. x 415 cu.yds. = \$498.00

Subtotal \$498.00

Base Cost= \$1.20 Per Cu.Yd. TOTAL PRODUCTION COSTS \$498.00

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Landing Rock (Jawrun)	2.48	1.90	1.20	5.58	25	\$139.50
A to B Landing Rock (Jawrun)	2.95	1.90	1.20	6.05	10	\$60.50
E to F Turnaround (Jawrun)	2.06	1.90	1.20	5.16	30	\$154.80
E to F Landing Rock (Jawrun)	2.21	1.90	1.20	5.31	80	\$424.80
I to J 0 340 (Jawrun)	2.40	1.90	1.20	5.50	180	\$990.00
I to J Approach Widening (Jawrun)	2.37	1.90	1.20	5.47	30	\$164.10
I to J Landing Rock (Jawrun)	2.44	1.90	1.20	5.54	60	\$332.40
Total C.Y.					415	Sub Total \$2,266.10

TOTAL ROCKING COSTS \$2,266.10

ROCK SUMMARY

Pit:	Crushed Stockpiles	Location:	Sec. 11 , T2N, R9W, W.M.
Sale:	North Miami	Road:	500 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	500 c.y.
Drill Pct.:	100%	In Place Total:	357 c.y.

Load Dump Truck: \$1.20 /cu.yd. x 500 cu.yds. = \$600.00

Subtotal \$1,795.95

Move in Loader 1 @ \$1,072.43 = \$1,072.43

Subtotal \$1,072.43

Base Cost= \$5.74 Per Cu.Yd. TOTAL PRODUCTION COSTS \$2,868.38

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base/load Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 18" Culvert Backfill/Bedding (Crus	8.55	0.90	5.74	15.19	140	\$2,126.60
A to B 24" Culvert Backfill/Bedding (Crus	8.56	0.90	5.74	15.20	20	\$304.00
A to B Culvert Backfill/Bedding (Crushed)	4.70	0.90	5.74	11.34	30	\$340.20
A to B Culvert Backfill/Bedding (Crushed)	4.51	0.90	5.74	11.15	30	\$334.50
A to B Culvert Backfill/Bedding (Crushed)	3.90	0.90	5.74	10.54	30	\$316.20
A to B Leveling Rock (Crushed)	3.60	1.70	5.74	11.04	100	\$1,104.00
C to D Spot Rock (Crushed)	2.03	3.55	5.74	11.32	50	\$566.00
E to F Spot Rock (Crushed)	2.63	3.55	5.74	11.92	100	\$1,192.00
				Total C.Y.	500	Sub Total
						\$6,283.50

TOTAL ROCKING COSTS \$6,283.50

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **North Miami**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
37.2	Pavement	30
10.3	Main Lines	7
4.4	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Brush Cutter	\$866.40		\$4.00	0.00	20.00	20	\$80.00	\$946.40
1	Graders	\$1,113.94		\$3.65	0.00	14.00	14	\$51.10	\$1,165.04
1	Excavators (Med.)	\$1,084.28		\$35.50	0.00	14.00	14	\$497.00	\$1,581.28
2	Excavators (Large)	\$2,374.86	1	\$44.80	0.00	14.00	14	\$1,254.40	\$3,629.26
1	Tractor (D8)	\$1,261.83	2	\$15.10	0.00	14.00	14	\$211.40	\$1,473.23
3	Dump Truck (Off Hiway)	\$3,483.04	1	\$4.75	0.00	14.00	14	\$199.50	\$3,682.54
1	Water Truck (2500 Gal)	\$367.40		\$2.85	0.00	18.00	18	\$51.30	\$418.70
TOTAL MOVE-IN COSTS:									\$12,896.45



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT North Miami

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

Section(s) Section(s) 11, 14, and 15 of T2N R9W. Tillamook County, W.M.

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	147	95
Unit 2 (Modified Clearcut)	133	94
 Total	 281	 189

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

Timber Sale Area was cruised using variable plot sampling. The unit was cruised by ODF Staff in December 2022. All conifers 8” DBH and greater containing 20 board feet and all hardwoods 10” DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6” and 7” outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1	33.61	235’ x 395’
2	33.61	175’ x 700’

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40’ lengths.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	95	41	7.2	46.4
2	94	30	11.8	63.3
Project Total	189	71	6.4	54.2

6. Hidden Defect and Breakage

A 2% reduction for conifers and a 4% reduction for hardwood volumes were applied for hidden defect and breakage.

7. Timber Description

Timber Sale Area is modified clearcuts. Unit 1 is mixed stand with (60%) Douglas-fir, (17%) of Red alder and (19%) Hemlock. Unit 2 is a mixed stand comprised of (50%) Douglas-fir and (40%) Red alder.

Past Management: None has taken place.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	61	Douglas-fir	21	73	5
1	61	Red alder	15	40	6
1	61	Western hemlock	18	60	5
1	61	Sitka spruce	19	29	5
1	61	Big leaf maple	12	37	6
2	61	Douglas-fir	25	84	5
2	61	Red alder	16	35	6
2	61	Western hemlock	14	35	5
2	61	Sitka spruce	20	33	5
2	61	Big leaf maple	14	27	6

Above data derived from Statistics (type) report using SuperAce 2008, developed by

Atterbury consultants, Inc.

8. Cruiser /Dates

ODF Staff Cruised; December 2022.

9. Revenue Distribution

BOF – 100%

Tax Code: 5600 (100%)

Deed Numbers: 15

10. Attachments

Volume Summary Table

Stand Table

Log Stock Table

Statistics Table

Logging Plan

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take

RA – Red alder take

OC – Other Conifer

BM – Big leaf maple leave

SS – Sitka spruce take

WH – Western hemlock take

WL – Western hemlock leave

TC		TLOGSTVB		Log Stock Table - MBF																
Project:										NMIAMI										
T02N R09W S14 T0100										T02N R09W S14 T0100										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2											
02N	09W	14	606	0100	95.00	41	304	Date	6/13/2023											
								Time	3:04:10PM											
Spp	T	S	So Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA	H	4	35		13		13	2.7			13									
RA	H	4	36		16	2.9	16	3.3			12	3								
RA	H	4	37		4		4	.9			4									
RA	H	4	38		8		8	1.7			8									
RA	H	4	40		277		277	57.2			121	118	27	10						
RA	Totals				489		485	17.1			259	136	58	32						
WH	CO	2	40		249		249	49.8					16	41	102	90				
WH	CO	3	29		2		2	.3			2									
WH	CO	3	30		2		2	.4			2									
WH	CO	3	40		183		183	36.5			9	48	74	52						
WH	CO	4	12		1		1	.1		1										
WH	CO	4	13		1		1	.2			1									
WH	CO	4	15		5		5	1.0		3	2									
WH	CO	4	18		3		3	.6		3										
WH	CO	4	20		3		3	.5			1	1								
WH	CO	4	24		2		2	.3			2									
WH	CO	4	28		5		5	1.0		5										
WH	CO	4	30		9		9	1.8		9										
WH	CO	4	36		7		7	1.4		7										
WH	CO	4	40		29		29	5.9		5	11	14								
WH	Totals				500		500	17.6		32	26	66	74	69	41	102	90			
SS	CO	2	40		13		13	55.6							13					
SS	CO	3	30		2		2	6.3			2									
SS	CO	3	40		5		5	20.0			5									
SS	CO	4	16		3	33.3	2	9.0			2									
SS	CO	4	18		2		2	9.2			2									
SS	Totals				25	4.3	24	.9			4	6				13				
BM	H	4	37		18		18	100.0			18									
BM	Totals				18		18	.6			18									
WL	CO	2	40		36		36	94.8								12				24
WL	CO	3	26		2		2	5.2					2							
WL	Totals				38		38	1.3					2			12				24
Total All Species					2,853		2,838	100.0		100	353	326	249	246	206	660	469	205		24

UNIT 1

Species, Sort Grade - Board Foot Volumes (Type)

Project: North MIAMI

Page 1
Date 11/6/2023
Time 10:39:45AM

T02N R09W S14 T0100 **T02N R09W S14 T0100**
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt
02N 09W 14 606 0100 95.00 41 304 S W

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre		
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf			
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99							
DF		CO	2	78	.7	14,780	14,682	1,395				27	73				100	40	17	508	2.67	28.9	
DF		CO	3	15	.1	2,821	2,817	268			88	12			1	7	8	84	37	9	111	0.92	25.4
DF		CO	4	7		1,176	1,176	112	61	39				10	28	17	45	29	6	38	0.43	31.0	
DF	Totals			63	.5	18,777	18,674	1,774	4	16	23	57		1	3	2	94	35	11	219	1.45	85.4	
RA		H	3	10		547	547	52		59	41						100	40	11	183	1.49	3.0	
RA		H	4	90	.9	4,596	4,554	433		98	2			8	15	7	71	31	7	56	0.71	81.2	
RA	Totals			17	.8	5,143	5,101	485		93	7			7	13	6	74	31	7	61	0.75	84.2	
WH		CO	2	49		2,620	2,620	249			31	69					100	40	17	458	2.62	5.7	
WH		CO	3	38		1,960	1,960	186			72	28				2	98	40	9	131	1.07	14.9	
WH		CO	4	13		680	680	65	50	50				19	25		56	28	6	37	0.46	18.2	
WH	Totals			18		5,260	5,260	500	6	33	26	34		2	4		94	34	9	135	1.10	38.9	
SS		CO	2	55		141	141	13				100					100	40	18	530	3.50	.3	
SS		CO	3	26		67	67	6		100						24	76	36	9	97	1.56	.7	
SS		CO	4	19	19.9	58	46	4		100			100					17	7	24	0.78	1.9	
SS	Totals			1	4.3	266	254	24		44	56			18	6		76	24	8	88	1.49	2.9	
BM		H	4	100		187	187	18		100							100	37	6	60	0.49	3.1	
BM	Totals			1		187	187	18		100							100	37	6	60	0.49	3.1	
WL		CO	2	94		376	376	36				100					100	40	28	1450	7.10	.3	
WL		CO	3	6		21	21	2			100					100		26	13	160	1.90	.1	
WL	Totals			1		397	397	38			5	95				5	95	35	23	1020	5.83	.4	
Type Totals					.5	30,029	29,873	2,838	4	33	20	44		2	5	2	90	33	9	139	1.12	214.8	

UNIT 1														Stand Table Summary		
Project														North MIAMI		
T02N R09W S14 T0100										T02N R09W S14 T0100						
Twp	Rge	Sec	Tract	Type			Acres	Plots	Sample Trees			Page:	1			
02N	09W	14	606	0100			95.00	41	304			Date:	06/13/2021			
														Time:	3:04:09PM	
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		9	1	81	64	3.551	1.57	3.55	9.3	30.0	.94	33	107	89	31	10
DF		10	2	75	33	5.753	3.14	5.75	7.5	25.0	1.23	43	144	117	41	14
DF		12	1	77	36	1.998	1.57	2.00	10.8	30.0	.61	21	60	58	20	6
DF		13	1	81	57	1.702	1.57	1.70	21.2	40.0	1.03	36	68	98	34	6
DF		14	1	83	97	1.468	1.57	2.94	17.7	60.0	1.48	52	176	141	49	17
DF		15	3	80	86	3.835	4.71	6.39	23.0	72.0	4.19	147	460	398	140	44
DF		16	2	77	106	2.247	3.14	4.49	25.6	87.5	3.28	115	393	311	109	37
DF		17	1	81	105	.995	1.57	1.99	28.0	95.0	1.59	56	189	151	53	18
DF		18	3	85	108	2.664	4.71	5.33	33.0	123.3	5.02	176	657	476	167	62
DF		19	2	77	87	1.594	3.14	3.19	31.4	90.0	2.85	100	287	271	95	27
DF		20	2	82	111	1.438	3.14	2.88	41.6	145.0	3.41	120	417	324	114	40
DF		24	2	85	121	.999	3.14	3.00	44.7	195.0	3.82	134	584	363	127	56
DF		25	1	82	118	.460	1.57	1.38	46.6	190.0	1.83	64	262	174	61	25
DF		26	5	83	120	2.128	7.84	5.96	55.6	229.3	9.45	331	1,366	897	315	130
DF		27	5	84	132	1.973	7.84	5.92	59.8	264.0	10.18	354	1,563	967	336	148
DF		28	4	84	133	1.468	6.28	4.40	65.4	270.8	8.21	288	1,192	780	274	113
DF		29	4	83	147	1.368	6.28	4.10	74.7	340.8	8.74	307	1,399	830	291	133
DF		30	5	84	134	1.598	7.84	4.47	81.6	381.4	10.40	365	1,707	988	347	162
DF		31	4	84	136	1.197	6.28	3.59	82.3	385.8	8.43	296	1,386	800	281	132
DF		32	4	82	133	1.124	6.28	2.81	99.8	464.0	7.99	280	1,303	759	266	124
DF		33	3	83	146	.792	4.71	2.38	95.8	445.6	6.49	228	1,059	617	216	101
DF		34	3	85	135	.747	4.71	2.24	99.4	486.7	6.34	223	1,090	603	211	104
DF		35	2	84	139	.470	3.14	1.17	115.3	612.0	4.12	135	719	391	129	68
DF		36	2	84	137	.444	3.14	1.33	112.7	561.7	4.28	150	748	406	143	71
DF		37	2	83	122	.420	3.14	1.26	106.6	490.0	3.83	134	618	364	128	59
DF		38	1	87	136	.199	1.57	.60	128.9	693.3	2.20	77	414	209	73	39
DF		40	1	81	117	.180	1.57	.54	124.0	566.7	1.91	67	306	181	64	29
DF		Totals	67	81	94	42.812	105.12	85.37	50.7	218.8	123.82	4,332	18,674	11,763	4,116	1,774
WH		10	1	78	50	3.108	1.69	3.11	10.2	30.0	1.02	32	93	97	30	9
WH		13	2	79	41	3.678	3.39	3.68	16.9	35.0	1.99	62	129	189	59	12
WH		14	3	84	71	4.757	5.08	7.93	18.0	56.0	4.57	143	444	434	136	42
WH		16	2	80	87	2.428	3.39	3.64	30.3	93.3	3.53	110	340	336	105	32
WH		18	2	82	85	1.918	3.39	2.88	38.3	126.7	3.53	110	364	335	105	35
WH		19	1	82	113	.861	1.69	1.72	38.1	135.0	2.10	66	232	199	62	22
WH		20	2	80	89	1.554	3.39	3.11	37.4	122.5	3.71	116	381	353	110	36
WH		21	2	84	90	1.409	3.39	2.82	42.6	145.0	3.84	120	409	365	114	39
WH		23	1	80	59	.587	1.69	.59	73.7	150.0	1.39	43	88	132	41	8
WH		24	1	85	114	.540	1.69	1.62	44.8	190.0	2.32	73	308	220	69	29
WH		26	1	80	131	.460	1.69	1.38	57.0	233.3	2.51	79	322	239	75	31
WH		28	2	83	120	.793	3.39	2.38	63.5	271.7	4.91	151	646	467	143	61
WH		29	2	83	106	.739	3.39	1.85	74.8	310.0	4.46	138	573	424	131	54
WH		31	2	83	120	.647	3.39	1.62	93.5	410.0	4.84	151	663	460	144	63
WH		33	1	80	107	.285	1.69	.57	121.5	470.0	2.22	69	268	211	66	25
WH		Totals	25	81	76	23.763	42.37	38.88	37.6	135.3	46.94	1,463	5,260	4,459	1,390	500
RA		10	1	75	50	2.428	1.32	2.43	10.7	30.0	.71	26	73	68	25	7
RA		11	5	78	60	10.032	6.62	10.03	14.0	46.0	3.85	140	461	366	133	44
RA		12	7	75	69	11.802	9.27	11.80	18.8	50.0	6.10	222	590	579	211	56
RA		13	5	79	55	7.183	6.62	5.75	19.3	47.5	3.04	111	273	289	105	26
RA		14	10	79	67	12.387	13.24	17.34	19.5	60.7	9.46	338	1,053	899	321	100
RA		15	6	77	61	6.474	7.95	9.71	20.6	60.0	5.54	200	583	527	190	55
RA		16	8	78	57	7.587	10.59	9.48	26.7	66.0	6.95	253	626	660	240	59

TC		TSTNDSUM											Stand Table Summary				
Project													NMIAMI				
T02N R09W S14 T0100										T02N R09W S14 T0100							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	2		Date:	06/13/2022					
02N	09W	14	606	0100	95.00	41	304	Time:	3:04:09PM								
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
RA		17	4	80	62	3.360	5.30	5.04	27.4	75.0	3.80	138	378	361	131	36	
RA		18	6	72	48	4.496	7.95	5.25	32.9	55.7	4.75	173	292	451	164	28	
RA		19	3	70	44	2.018	3.97	2.02	41.0	53.3	2.33	83	108	221	79	10	
RA		20	2	84	75	1.214	2.65	1.82	42.6	136.7	2.21	78	249	210	74	24	
RA		22	1	81	45	.502	1.32	.50	53.8	70.0	.74	27	35	71	26	3	
RA		23	4	79	56	1.836	5.30	2.29	56.4	118.0	3.61	129	271	343	123	26	
RA		24	1	81	43	.421	1.32	.42	60.9	70.0	.71	26	30	67	24	3	
RA		27	1	81	59	.333	1.32	.33	93.6	240.0	.95	31	80	90	30	8	
RA	Totals		64	77	60	72.073	84.75	84.22	23.4	60.6	54.76	1,973	5,101	5,203	1,875	485	
WL		48	1	82	131	.130	1.63	.39	205.8	1020.0	2.56	80	397	243	76	38	
WL	Totals		1	82	131	.130	1.63	.39	205.8	1020.0	2.56	80	397	243	76	38	
SS		14	1	67	19	1.143	1.22	1.14	10.7	20.0	.32	12	23	30	12	2	
SS		17	1	75	21	.775	1.22	.78	16.6	30.0	.33	13	23	32	12	2	
SS		23	1	79	54	.424	1.22	.42	71.7	120.0	.79	30	51	75	29	5	
SS		29	1	81	89	.266	1.22	.53	86.0	295.0	1.19	46	157	113	44	15	
SS	Totals		4	73	32	2.609	4.89	2.88	35.2	88.4	2.63	101	254	250	96	24	
BM		12	1	77	64	3.113	2.44	3.11	18.2	60.0	1.50	57	187	142	54	18	
BM	Totals		1	77	64	3.113	2.44	3.11	18.2	60.0	1.50	57	187	142	54	18	
OC		20	1	77	43	.374	.81										
OC		22	1	85	19	.309	.81										
OC		23	1	81	36	.282	.81										
OC		24	1	83	112	.259	.81										
OC		25	1	80	18	.239	.81										
OC		27	1	79	102	.205	.81										
OC		28	1	82	52	.191	.81										
OC		29	2	81	85	.355	1.63										
OC	Totals		9	81	57	2.214	7.33										
Totals			171	79	73	146.713	248.54	214.84	37.3	139.0	232.22	8006	29,873	22,061	7,606	2,838	

UNIT 2

Log Stock Table - MBF
Project: North MIAMI

T02N R09W S14 T0100

T02N R09W S14 T0100

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 02N 09W 14 373 0100 94.00 30 170 Date 6/13/2023
 Time 3:01:49PM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
RA	H	2	14			16		16	2.7					4		11				
RA	H	2	18			13		13	2.3						13					
RA	H	2	20			14		14	2.4						14					
RA	H	2	22			16		16	2.8						16					
RA	H	2	36			15		15	2.6					15						
RA	H	2	40			45		45	7.7						45					
RA	H	3	20			10		10	1.8					10						
RA	H	3	28			17		17	2.9						17					
RA	H	3	40			47		47	8.1					17	30					
RA	H	4	12			2		2	.3			2								
RA	H	4	15			6		6	1.0				6							
RA	H	4	16			18		18	3.1			11		7						
RA	H	4	17			3	50.0	2	.3											
RA	H	4	18			9		9	1.6											
RA	H	4	20			5		5	.9											
RA	H	4	21			7		7	1.2											
RA	H	4	22			15		15	2.5											
RA	H	4	23			8		8	1.4											
RA	H	4	24			63		63	10.8			20	34		10					
RA	H	4	25			7		7	1.1											
RA	H	4	26			16		16	2.7											
RA	H	4	27			9		9	1.5											
RA	H	4	28			13		13	2.2											
RA	H	4	29			6	25.0	4	.7											
RA	H	4	30			27		27	4.7											
RA	H	4	31			7		7	1.1											
RA	H	4	32			7		7	1.2											
RA	H	4	34			9		9	1.5											
RA	H	4	35			5		5	.9											
RA	H	4	37			8		8	1.3											
RA	H	4	39			6		6	1.0											
RA	H	4	40			138		138	23.7			58	81							
RA	Totals					586		583	39.5			230	144	34	76	88	11			
DF	CO	2	40			587	.6	584	75.7					47	45	260	200	32		
DF	CO	3	30			2		2	.2			2								
DF	CO	3	32			3		3	.3				3							
DF	CO	3	38			3		3	.3											
DF	CO	3	40			147	.4	146	19.0			6	24	80	22		15			
DF	CO	4	13			1		1	.1											
DF	CO	4	14			1		1	.1											
DF	CO	4	15			1		1	.2											
DF	CO	4	17			2		2	.2											
DF	CO	4	19			2		2	.3			2								
DF	CO	4	20			4		4	.6											
DF	CO	4	28			2		2	.3											
DF	CO	4	30			5		5	.7			5								
DF	CO	4	32			3		3	.4											
DF	CO	4	34			4		4	.5											
DF	CO	4	36			9		9	1.1			9								

Log Stock Table - MBF
Project: NMIAMI

T02N R09W S14 T0100

T02N R09W S14 T0100

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
02N 09W 14 373 0100 94.00 30 170 Date 6/13/2023
Time 3:01:49PM

SPP	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
									MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
	DF	Totals			775		771	52.2		16	17	37	80	68	45	274	200	32		
SS	CO	2	24		11		11	21.3									11			
SS	CO	2	26		9		9	17.6							9					
SS	CO	2	40		16		16	31.9									16			
SS	CO	3	40		2		2	4.6			2									
SS	CO	4	20		2		2	4.6		2										
SS	CO	4	23		1		1	1.9		1										
SS	CO	4	28		4		4	7.4		1	3									
SS	CO	4	40		5		5	10.8				5								
SS	Totals				50		50	3.4		4	3	8			9		26			
WH	CO	2	40		25		25	40.5					10		15					
WH	CO	3	40		12		12	18.6			9	3								
WH	CO	4	22		8		8	12.8		8										
WH	CO	4	26		7		7	12.0		7										
WH	CO	4	40		10		10	16.0		4	6									
WH	Totals				62		62	4.2		20	14	3		10		15				
BM	H	4	25		12		12	100.0			12									
BM	Totals				12		12	.8			12									
Total All Species					1,485		1,478	100.0		40	276	191	114	155	133	310	226	32		

T02N R09W S14 T0100 **T02N R09W S14 T0100**
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt
02N 09W 14 373 0100 94.00 30 170 S W

S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf	
				Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	
RA	H	2	20		1,263	1,263	119		100				36	14	50	25	14	183	1.66	6.9
RA	H	3	13		791	791	74		37	63			14	23	63	32	12	155	1.36	5.1
RA	H	4	67	.8	4,184	4,151	390	97	3				11	43	7 39	28	7	48	0.74	86.5
RA Totals			39	.5	6,238	6,205	583	70	30				16	35	5 44	28	8	63	0.83	98.5
DF	CO	2	75	.6	6,244	6,209	584		26	74					100	40	17	490	2.64	12.7
DF	CO	3	20	.4	1,636	1,630	153		76	14 10				1 2 97		39	10	147	1.08	11.1
DF	CO	4	5		359	359	34	48	52				33	22	19 26	26	6	34	0.49	10.5
DF Totals			52	.5	8,240	8,198	771	2	17	23 58			1	1	1 96	35	11	239	1.60	34.3
SS	CO	2	70		374	374	35		25	75				55	45	29	19	493	3.46	.8
SS	CO	3	5		24	24	2		100						100	40	9	120	1.54	.2
SS	CO	4	25		130	130	12	35	65				19	38	44	27	6	36	1.00	3.7
SS Totals			3		528	528	50	9	21	18 53			5	48	47	28	8	114	1.46	4.6
WH	CO	2	40		268	268	25		40	60					100	40	14	304	2.27	.9
WH	CO	3	19		123	123	12		100						100	40	7	74	0.73	1.7
WH	CO	4	41		270	270	25	78	22					61	39	27	5	30	0.56	9.0
WH Totals			4		662	662	62	32	28	16 24			25	75		30	6	57	0.77	11.6
BM	H	4	100		126	126	12		100					100		25	7	40	0.67	3.1
BM Totals			1		126	126	12		100					100		25	7	40	0.67	3.1
Type Totals				.5	15,794	15,719	1,478	3	39	25 33			7	18	2 72	29	8	103	1.05	152.1

Stand Table Summary																
UNIT 2																
Project North MIAMI																
T02N R09W S14 T0100										T02N R09W S14 T0100						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
02N	09W	14	373	0100	94.00	30	170	Date:	06/13/2021							
								Time:	3:01:48PM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		13	1	83	47	2.325	2.14	2.33	16.6	40.0	1.10	39	93	103	36	9
DF		18	1	85	88	1.213	2.14	2.43	28.3	105.0	1.96	69	255	184	65	24
DF		19	1	85	125	1.089	2.14	3.27	29.3	116.7	2.73	96	381	256	90	36
DF		20	1	71	110	.982	2.14	1.96	41.6	120.0	2.33	82	236	219	77	22
DF		24	2	88	124	1.364	4.29	4.09	47.6	206.7	5.55	195	846	522	183	80
DF		25	1	83	146	.629	2.14	1.89	56.6	253.3	3.04	107	478	286	100	45
DF		26	4	83	107	2.325	8.57	5.81	56.2	222.0	9.31	327	1,290	875	307	121
DF		27	1	88	112	.539	2.14	1.62	53.5	233.3	2.47	87	377	232	81	35
DF		28	2	83	109	1.002	4.29	2.00	83.0	332.5	4.74	166	667	446	156	63
DF		29	1	75	37	.467	2.14									
DF		30	1	82	136	.437	2.14	1.31	75.6	346.7	2.82	99	454	265	93	43
DF		31	3	84	123	1.227	6.43	3.68	77.2	338.9	8.09	284	1,247	761	267	117
DF		32	1	88	138	.384	2.14	1.15	92.0	470.0	3.02	106	541	284	100	51
DF		34	3	84	128	1.020	6.43	2.72	107.0	490.0	8.30	291	1,333	780	274	125
DF	Totals		23	83	103	15.003	49.29	34.26	56.8	239.3	55.45	1,946	8,198	5,212	1,829	771
RA		10	1	73	46	3.482	1.90	3.48	9.0	30.0	.90	31	104	85	29	10
RA		11	2	80	40	5.755	3.80	5.75	10.6	35.0	1.68	61	201	158	57	19
RA		12	5	72	39	12.089	9.49	9.67	11.2	35.0	2.99	109	338	281	102	32
RA		13	3	77	34	6.180	5.70	6.18	15.0	33.3	2.54	92	206	239	87	19
RA		14	6	78	63	10.658	11.39	14.21	18.0	48.7	7.11	256	693	668	241	65
RA		15	9	76	46	13.926	17.09	13.93	22.7	48.9	8.74	316	681	822	297	64
RA		16	6	80	48	8.160	11.39	9.52	24.0	52.9	6.27	228	503	590	214	47
RA		17	4	80	40	4.819	7.60	4.82	26.3	75.0	3.55	127	361	334	119	34
RA		18	9	82	62	9.671	17.09	15.04	28.3	87.1	11.77	426	1,311	1,107	400	123
RA		19	2	72	54	1.929	3.80	1.93	28.5	60.0	1.51	55	116	142	52	11
RA		20	5	79	66	4.352	9.49	6.96	30.2	91.3	5.78	210	635	543	197	60
RA		21	2	84	63	1.579	3.80	1.58	50.0	195.0	2.17	79	308	204	74	29
RA		22	3	78	61	2.158	5.70	2.88	52.2	120.0	4.16	150	345	391	141	32
RA		23	1	80	104	.658	1.90	1.97	37.0	130.0	2.01	73	257	189	69	24
RA		24	1	82	66	.604	1.90	.60	86.6	240.0	1.44	52	145	135	49	14
RA	Totals		59	78	50	86.018	112.03	98.53	23.0	63.0	62.63	2,265	6,205	5,887	2,129	583
WH		11	3	72	34	6.366	4.20	6.37	9.8	23.3	2.00	63	149	188	59	14
WH		14	1	79	64	1.310	1.40	1.31	26.7	70.0	1.12	35	92	105	33	9
WH		15	1	75	55	1.141	1.40	1.14	30.7	40.0	1.12	35	46	105	33	4
WH		16	1	75	57	1.003	1.40	1.00	35.5	60.0	1.14	36	60	107	33	6
WH		22	1	77	80	.530	1.40	1.06	42.7	115.0	1.45	45	122	136	43	11
WH		27	1	79	101	.352	1.40	.70	77.8	275.0	1.75	55	194	165	52	18
WH	Totals		8	74	47	10.703	11.20	11.59	23.2	57.1	8.58	268	662	807	252	62
SS		13	1	75	24	1.215	1.12	1.22	10.6	20.0	.33	13	24	31	12	2
SS		17	1	73	19	.711	1.12									
SS		18	2	77	48	1.268	2.24	.63	46.4	90.0	.76	29	57	72	28	5
SS		20	2	75	30	1.027	2.24	1.03	31.3	25.0	.83	32	26	78	30	2
SS		22	1	78	33	.424	1.12	.42	39.7	30.0	.44	17	13	41	16	1
SS		24	1	81	65	.357	1.12	.71	40.8	145.0	.76	29	103	71	27	10
SS		32	2	86	83	.401	2.24	.60	110.7	506.7	1.73	67	305	163	63	29
SS	Totals		10	77	38	5.403	11.20	4.62	40.5	114.4	4.86	187	528	457	176	50
BM		14	1	80	34	3.144	3.36	3.14	16.7	40.0	1.39	53	126	131	49	12
BM	Totals		1	80	34	3.144	3.36	3.14	16.7	40.0	1.39	53	126	131	49	12

TC TSTNDSUM

Stand Table Summary

Project NMIAMI

T02N R09W S14 T0100

T02N R09W S14 T0100

Twp Rge Sec Tract
02N 09W 14 373

Type Acres Plots Sample Trees
0100 94.00 30 170

Page: 2
Date: 06/13/2022
Time: 3:01:48PM

S Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
Totals			101	78	55	120.271	187.10	152.13	31.0	103.3	132.92	4719	15,719	12,494	4,435	1,478



"STEWARDSHIP IN FORESTRY"

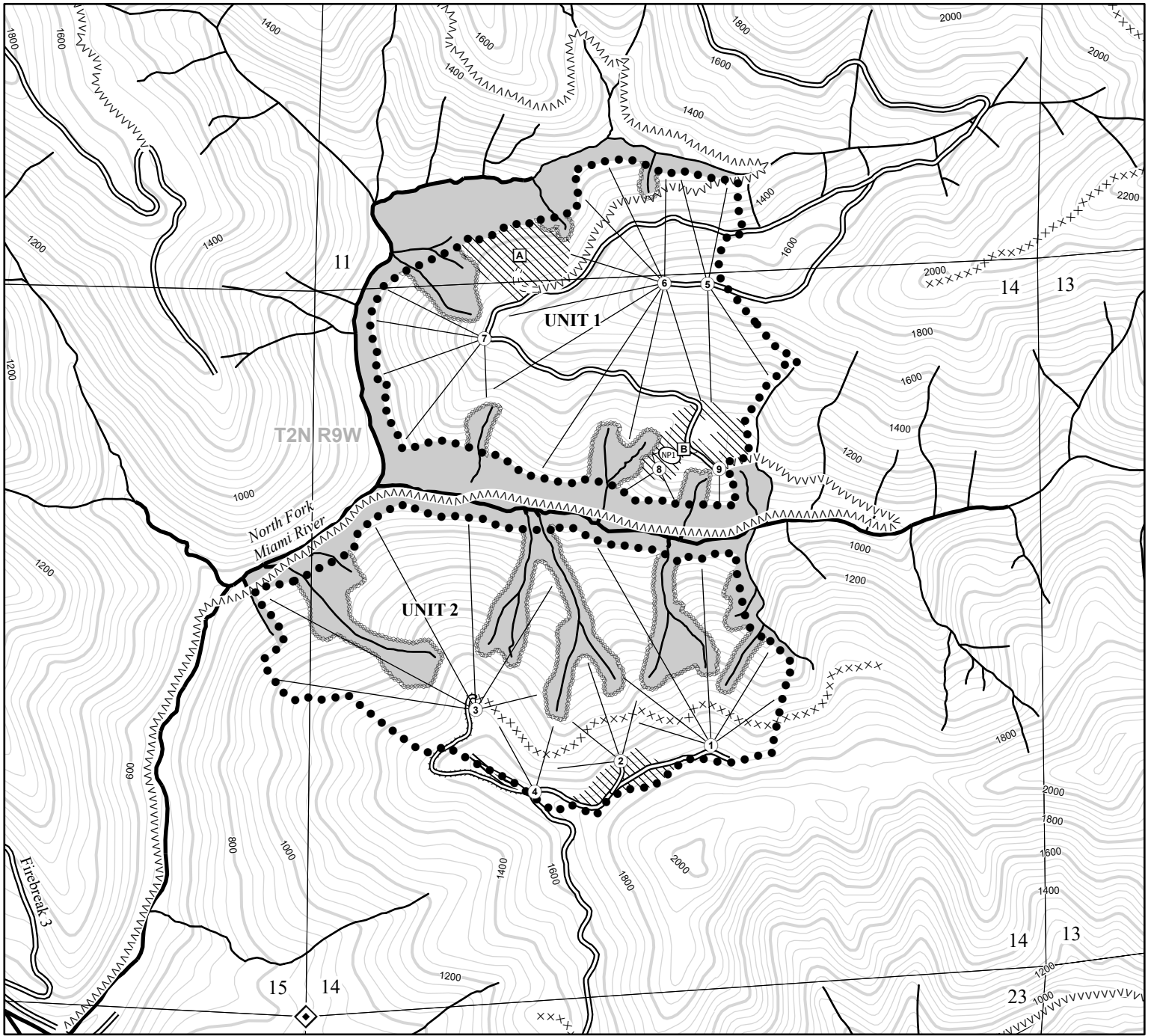
North Miami

Volume Summary

Unit 1-Modified Clearcut				
ID 606		95 acres		
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	18.674	1774	2%	1739
Hemlock	5.260	500	2%	490
Spruce	0.254	24	2%	24
Maple	0.000	0	4%	0
Alder	5.101	485	4%	466
TOTAL	29.289	2783.0		2719

Unit 2-Modified Clearcut				
ID 373		94 acres		
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	8.198	771	2%	756
Hemlock	0.662	62	2%	61
Spruce	0.528	50	2%	49
Maple		0	4%	0
Alder	6.205	583	4%	560
TOTAL	15.593	1466		1426

TOTAL SALE VOLUME		189	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)	
Douglas-fir	2545	2495	
Hemlock	562	551	
Spruce	74	73	
Big Leaf Maple	0	0	
Red Alder	1068	1027	
TOTAL	4249	4146	



- Legend**
- ◆ Corners
 - Cable Landing
 - Tractor Landing
 - Cable Logging
 - ▨ Ground Based
 - ▬ Surfaced Road
 - xxx Blocked Road
 - v v v v Abandoned Road
 - Type-F Stream
 - Type-N Stream
 - Sections
 - 200' Contour
 - 40' Contour
 - ▤ Riparian Boundary
 - Timber Sale Boundary
 - ┌ ┐ Property Line

LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2025-W00971-01
 NORTH MIAMI
 PORTIONS OF SECTIONS 11, 14, 15 of T2N R9W W.M.
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS
 NOVEMBER, 2023

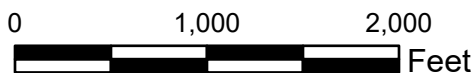
This product is for informational use and may not be
 suitable for legal, engineering, or surveying purposes.



NET ACRES

1:12,000

1 inch = 1,000 feet



	GROUND	CABLE	TOTAL
UNIT 1	11	84	95
UNIT 2	3	91	94
TOTAL	14	175	189