



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Lost Mountain
Sale TL-341-2020-W00319-01

District: Tillamook

Date: December 04, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,224,741.20	\$181,011.56	\$1,405,752.76
		Project Work:	(\$318,940.00)
		Advertised Value:	\$1,086,812.76



Timber Sale Appraisal Lost Mountain Sale TL-341-2020-W00319-01

District: Tillamook

Date: December 04, 2019

Timber Description

Location: Sections 21, 22, 23, 26, 27, and 28 of T3N R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 100%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	95
Western Hemlock / Fir	17	0	95
Sitka Spruce	23	0	95
Alder (Red)	15	0	90
Maple	17	0	90

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Camprun	Total
Douglas - Fir	1,605	1,167	0	0	0	0	0	2,772
Western Hemlock / Fir	1,391	1,030	0	0	0	0	0	2,421
Sitka Spruce	0	11	0	0	0	0	0	11
Alder (Red)	0	0	100	198	426	409	0	1,133
Maple	0	0	0	0	0	0	32	32
Total	2,996	2,208	100	198	426	409	32	6,369

Comments: Pond Values Used: October 2019
Region: Astoria, Forest Grove, and Tillamook

Western Red Cedar and Other Cedars Stumpage Price = Pond Value – Logging Cost
 $\$1152/\text{MBF} - (\$366/\text{MBF} + \$50/\text{MBF} \text{ extra haul}) = \$736/\text{MBF}$

Pulp (Conifer and Hardwood) Price = \$ 2.50/ Ton

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

FUEL COST ALLOWANCE = \$3.00/ Gallon

HAULING COST ALLOWANCE

Hauling cost equivalent to \$950 daily truck cost
($\$95.00/\text{hr} \times 10 \text{ hr.} = \950)

Other Costs with Profit and Risk to be added:

Truck Assist (Area 1): $1000 \text{ MBF} \times \$17/\text{MBF} = \$17,000$

TOTAL Other Costs with profit and Risk to be added = \$17,000

Other Costs with No Profit and Risk Added:

Move-in Machine Cleaning: $\$1,000/\text{machine} \times 2 \text{ machines} \times 2 \text{ seasons} = \$4,000$

Slash piling and sorting (Cable Settings): $\$5/\text{ac} \times 183 \text{ ac.} = \915

Heliport Construction: $\$1,500 (\$500/\text{area} \times 3 \text{ areas})$

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two times – dump truck w/ tilt bed & small excavator: $\$900 \times 2 = \$1,800$

Small excavator (Cat 312 or equivalent): 40 hours @ $\$135/\text{hour} = \$5,400$

Dump truck: 40 hours @ $\$90/\text{hour} = \$3,600$

TOTAL Other Costs no Profit and Risk added = \$17,215

ROAD MAINTENANCE:

Spot Rocking: $20\text{cy}/\text{MMBF}/\text{mile} \times 6.369 \text{ MMBF} \times \$8/\text{cy} \times 11.5 \text{ miles} / 6,369 \text{ MBF} = \$1.84/\text{MBF}$

Interim Grading: $\$1,150/\text{mile} \times 11.5 \text{ miles} \times 3 \text{ times} / 6,369 \text{ MBF} = \$6.22/\text{MBF}$

Final Maintenance Grading: $\$1,500 \times 11.5 \text{ miles} / 6,369 \text{ MBF} = \$2.71/\text{MBF}$

Final Maintenance Compaction: $\$950/\text{mile} \times 11 \text{ miles} / 6,369 \text{ MBF} = \$1.64/\text{MBF}$

Total Road Maintenance: $\$12.41/\text{MBF}$

$\$12.41 \times 6,369 \text{ MBF} = \$79,039$



Timber Sale Appraisal
Lost Mountain
Sale TL-341-2020-W00319-01

District: Tillamook

Date: December 04, 2019

Logging Conditions

Combination#: 1

Douglas - Fir	18.77%
Western Hemlock / Fir	14.82%
Sitka Spruce	5.00%
Alder (Red)	9.59%
Maple	5.00%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 18 **bd. ft / load:** 4100
cost / mbf: \$72.41
machines: Forwarder
Harvester

Combination#: 2

Douglas - Fir	11.35%
Western Hemlock / Fir	39.06%
Sitka Spruce	95.00%
Alder (Red)	48.06%
Maple	79.06%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimbing
yarding distance: Long (1,500 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 9 **bd. ft / load:** 4100
cost / mbf: \$216.27
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Large)

Combination#: 3

Douglas - Fir	63.42%
Western Hemlock / Fir	30.50%
Alder (Red)	37.85%
Maple	15.94%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing
yarding distance: Long (1,500 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8 **bd. ft / load:** 4100
cost / mbf: \$237.21
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 4

Douglas - Fir	6.46%
Western Hemlock / Fir	15.61%
Alder (Red)	4.50%

Logging System: Cable: Small Tower <=40 **Process:** Harvester Head Delimbing

yarding distance:	Short (400 ft)	downhill yarding:	No
tree size:	Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF		
loads / day:	9	bd. ft / load:	3700
cost / mbf:	\$221.63		
machines:	Log Loader (A) Forwarder Harvester Tower Yarder (Small)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Lost Mountain Sale TL-341-2020-W00319-01

District: Tillamook

Date: December 04, 2019

Logging Costs

Operating Seasons: 2.00	Profit Risk: 13%
Project Costs: \$318,940.00	Other Costs (P/R): \$17,000.00
Slash Disposal: \$0.00	Other Costs: \$17,215.00

Miles of Road

Road Maintenance: \$12.41

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$95.00	2.0	4.2
Western Hemlock / Fir	\$95.00	2.0	4.2
Sitka Spruce	\$95.00	1.0	4.2
Alder (Red)	\$95.00	2.0	4.2
Maple	\$95.00	1.0	4.2



Timber Sale Appraisal
Lost Mountain
Sale TL-341-2020-W00319-01

District: Tillamook

Date: December 04, 2019

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$202.89	\$13.03	\$1.38	\$99.75	\$2.67	\$41.56	\$0.00	\$2.00	\$2.70	\$365.98
Western Hemlock / Fir									
\$202.17	\$13.03	\$1.38	\$99.75	\$2.67	\$41.47	\$0.00	\$2.00	\$2.70	\$365.17
Sitka Spruce									
\$209.08	\$13.03	\$1.38	\$99.75	\$2.67	\$42.37	\$0.00	\$2.00	\$2.70	\$372.98
Alder (Red)									
\$210.65	\$13.65	\$1.38	\$104.50	\$2.67	\$43.27	\$0.00	\$2.00	\$2.70	\$380.82
Maple									
\$212.41	\$13.65	\$1.38	\$104.50	\$2.67	\$43.50	\$0.00	\$2.00	\$2.70	\$382.81

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$656.21	\$290.23	\$0.00
Western Hemlock / Fir	\$0.00	\$538.19	\$173.02	\$0.00
Sitka Spruce	\$0.00	\$495.00	\$122.02	\$0.00
Alder (Red)	\$0.00	\$540.38	\$159.56	\$0.00
Maple	\$0.00	\$390.00	\$7.19	\$0.00



Timber Sale Appraisal
Lost Mountain
Sale TL-341-2020-W00319-01

District: Tillamook

Date: December 04, 2019

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
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,772	\$290.23	\$804,517.56
Western Hemlock / Fir	2,421	\$173.02	\$418,881.42
Sitka Spruce	11	\$122.02	\$1,342.22
Alder (Red)	1,133	\$159.56	\$180,781.48
Maple	32	\$7.19	\$230.08

Gross Timber Sale Value

Recovery: \$1,405,752.76

Prepared By: Nathan Atchison

Phone: 503-815-7031



PROJECT SUMMARY SHEET

Sale: Lost Mountain

CONSTRUCTION

Point	A to B	12+35	stations =	\$1,905.53
Point	G to H	6+00	stations =	\$1,357.15
Point	I to J	6+65	stations =	\$1,620.58
Point	K to L	3+55	stations =	\$7,100.55
Point	M to N	9+00	stations =	\$4,062.82
Point	O to P	5+80	stations =	\$7,777.51
Point	Q to R	28+45	stations =	\$100,093.18
Point	W to X	10+40	stations =	\$42,962.60
SUBTOTAL CONSTRUCTION				\$166,879.92

IMPROVEMENT

Point	A to B	262+25	stations =	\$18,157.88
Point	C to D	277+15	stations =	\$44,544.96
Point	E to F	65+80	stations =	\$5,079.90
Point	K to L	5+15	stations =	\$4,270.27
Point	O to P	14+50	stations =	\$17,500.79
Point	S to T	13+50	stations =	\$1,530.15
Point	U to V	47+00	stations =	\$36,280.18
Point	Point AA	0+00	stations =	\$199.60
SUBTOTAL IMPROVEMENT				\$127,563.73

RECONSTRUCTION

Point	E to F	25+20	stations =	\$2,935.73
Point	G to H	3+55	stations =	\$890.11
Point	M to N	3+70	stations =	\$1,112.23
Point	U to V	2+30	stations =	\$1,529.88
SUBTOTAL RECONSTRUCTION				\$6,467.95

SPECIAL PROJECTS

Brush	10.9	miles of road	\$9,492.09
Point Y & Point Z Pullback	5.0	Hours with Large Excavator	\$1,000.00
SUBTOTAL SPECIAL PROJECTS			\$10,492.09

MOVE IN

\$7,536.31

GRAND TOTAL

\$318,940.00

SUMMARY OF CONSTRUCTION COST

Sale:		Lost Mountain			Road:		A to B				
Construction -		12+35	stations	Improvement -		262+25	stations	Reconstruction -		0+00	stations
		0.23	miles			4.97	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			
262+25			274+60	5%		Outslope		\$93		=	\$1,148.55
										TOTAL	\$1,148.55
IMPROVEMENT: EXCAVATION -											
Pullback						537	cy. @	\$2.00	per c.y.=	\$1,074.00	
										TOTAL EXCAVATION	\$1,074.00
IMPROVEMENT: ENDHAUL -											
Pullback		158+30	to	160+95		537	cy. @	\$1.38	per c.y.=	\$741.06	
Spread & compact						537	cy. @	\$0.50	per c.y.=	\$268.50	
										TOTAL ENDHAUL	\$1,009.56
ROCK											
260+10		to	262+25	170	cy. of	Jawrun	@	\$5.01	per c.y.=	\$851.70	
Spot Rock			0+00 to 9+95	100	cy. of	Crushed	@	\$8.69	per c.y.=	\$869.00	
Spot Rock			9+95 to 260+10	130	cy. of	Crushed	@	\$7.79	per c.y.=	\$1,012.70	
Berms			9+95	20	cy. of	Crushed	@	\$7.29	per c.y.=	\$145.80	
Landing Rock			120+30	50	cy. of	Jawrun	@	\$4.40	per c.y.=	\$220.00	
Landing Rock			167+50	100	cy. of	Jawrun	@	\$5.21	per c.y.=	\$521.00	
										TOTAL ROCK	\$3,620.20
SPECIAL PROJECTS											
Landing Construction				10.00	hours @	\$180.00	per hour	\$1,800.00			
WA #2 prep				2.00	hours @	\$180.00	per hour	\$360.00			
Grade and shape road -				274.60	stations @	\$22.00	per station	\$6,041.20			
Roll subgrade w/ vibratory roller prior to rocking -				274.60	stations @	\$17.50	per station	\$4,805.50			
Grass seed and fertilize -				0.73	acres @	\$280.00	per acre	\$204.40			
										TOTAL SPECIAL PROJECTS	\$13,211.10
										GRAND TOTAL	\$20,063.41

SUMMARY OF CONSTRUCTION COST

Sale: **Lost Mountain**

Road: **C to D**

Construction -	0+00	stations	Improvement -	277+15	stations	Reconstruction -	0+00	stations
	0.00	miles		5.25	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.166	acres @	\$860.00	per acre =	\$142.76	
Widening	0.059	acres @	\$860.00	per acre =	\$50.74	
TOTAL CLEARING AND GRUBBING						\$193.50

IMPROVEMENT: EXCAVATION -

Pullback	959	cy. @	\$2.00	per c.y.=	\$1,918.00	
Widening	494	cy. @	\$2.00	per c.y.=	\$988.00	
TOTAL EXCAVATION						\$2,906.00

IMPROVEMENT: ENDHAUL -

Pullback	35+10	to	35+65	64	cy. @	\$1.26	per c.y.=	\$80.64
Pullback	45+20	to	46+10	260	cy. @	\$1.26	per c.y.=	\$327.60
Pullback	53+00	to	53+65	113	cy. @	\$1.26	per c.y.=	\$142.38
Pullback	213+35	to	214+15	116	cy. @	\$1.58	per c.y.=	\$183.28
Pullback	250+40	to	251+60	406	cy. @	\$3.43	per c.y.=	\$1,392.58
Widening	212+70	to	214+30	494	cy. @	\$1.58	per c.y.=	\$780.52
Spread & compact				1453	cy. @	\$0.50	per c.y.=	\$726.50
TOTAL ENDHAUL								\$3,633.50

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	550	LF of 18"	\$11,000.00
			\$11,000.00
<u>Culvert Stakes & Markers</u>	18	markers	\$144.00
			\$144.00

TOTAL CULVERTS \$11,144.00

ROCK

Culvert Backfill	15yds/culvert	270	cy. of	Crushed	@	\$6.12	per c.y.=	\$1,652.40
Energy Dissipator	5yds/culvert	85	cy. of	Rip Rap	@	\$11.17	per c.y.=	\$949.45
Energy Dissipator	35+30	20	cy. of	Rip Rap	@	\$12.42	per c.y.=	\$248.40
Energy Dissipator	45+35	10	cy. of	Rip Rap	@	\$12.29	per c.y.=	\$122.90
Energy Dissipator	53+10	10	cy. of	Rip Rap	@	\$12.19	per c.y.=	\$121.90
Spot/Leveling Rock	0+00 to 277+15	1,200	cy. of	Crushed	@	\$7.82	per c.y.=	\$9,384.00
Road Widening	212+70	20	cy. of	Crushed	@	\$6.59	per c.y.=	\$131.80
Road Widening	212+70	40	cy. of	Jawrun	@	\$14.59	per c.y.=	\$583.60
Spot Rock	246+55	30	cy. of	Crushed	@	\$7.82	per c.y.=	\$234.60
Turnout rock	10yds/turnout	300	cy. of	Crushed	@	\$7.82	per c.y.=	\$2,346.00
Berms	As Directed	15	cy. of	Crushed	@	\$7.61	per c.y.=	\$114.15
TOTAL ROCK								\$15,889.20

SPECIAL PROJECTS

Ditchout Construction	5.00	@	\$30.00	each	\$150.00	
Ditching(no Endhaul)	10.40	stations @	\$80.00	per station	\$832.00	
Ditching(Endhaul)	10.50	stations @	\$130.00	per station	\$1,365.00	
Push up crushed rock at Stockpile #2	2.00	hours @	\$180.00	per hour	\$360.00	
Berm Removal	0.25	hours @	\$200.00	per hour	\$50.00	
Culvert Cleanout at 48+00	1.00	@	\$25.00	each	\$25.00	
Culvert Installation 214+50	0.50	hours @	\$200.00	per hour	\$100.00	
Grade and shape road -	277.15	stations @	\$22.00	per station	\$6,097.30	
Roll subgrade w/ vibratory roller prior to rocking -	0.00	stations @	\$17.50	per station	\$0.00	
Remove culverts from state lands	2.00	@	\$422.50	total	\$422.50	
Grass seed and fertilize -	2.132	acres @	\$280.00	per acre	\$596.96	
Mulching -	1.000	acres @	\$780.00	per acre	\$780.00	
TOTAL SPECIAL PROJECTS						\$10,778.76

GRAND TOTAL \$44,544.96

SUMMARY OF CONSTRUCTION COST

Sale: **Lost Mountain**

Road: **E to F**

<u>Construction -</u>	<u>0+00</u>	<u>stations</u>	<u>Improvement -</u>	<u>65+80</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>25+20</u>	<u>stations</u>
	0.00	miles		1.25	miles		0.48	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.579	acres	@	\$1,275.00	per acre =	\$738.23	
TOTAL CLEARING AND GRUBBING							\$738.23

RECONSTRUCTION: EXCAVATION -

Road Earthwork	25.20	sta.	@	\$10.00	per sta. =	\$252.00	
TOTAL EXCAVATION							\$252.00

ROCK

0+00 to 8+15	170	cy. of	Crushed	@	\$8.00	per c.y.=	\$1,360.00
Spot Rock 8+15 to 53+75	50	cy. of	Crushed	@	\$7.09	per c.y.=	\$354.50
Spot Rock 53+75 to 65+80	30	cy. of	Crushed	@	\$6.01	per c.y.=	\$180.30
Intersection Widening 65+80	30	cy. of	Jaw Run	@	\$6.19	per c.y.=	\$185.70
TOTAL ROCK							\$2,080.50

SPECIAL PROJECTS

Landing Construction	1.00	hours	@	\$180.00	per hour	\$180.00	
Grade and shape road -	91.00	stations	@	\$22.00	per station	\$2,002.00	
Roll subgrade	91.00	stations	@	\$17.50	per station	\$1,592.50	
Grass seed and fertilize -	4.18	acres	@	\$280.00	per acre	\$1,170.40	
TOTAL SPECIAL PROJECTS							\$4,944.90

GRAND TOTAL	\$8,015.63
--------------------	-------------------

Sale:	<u>Lost Mountain</u>	Road:	<u>G to H</u>		
<u>Construction -</u>	<u>6+00</u> 0.11 stations miles	<u>Improvement -</u>	<u>0+00</u> 0.00 stations miles	<u>Reconstruction -</u>	<u>3+55</u> 0.07 stations miles

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>
3+55		9+55	15%		Outslope	\$134			\$804.00
TOTAL									\$804.00

RECONSTRUCTION: EXCAVATION -					
Road Earthwork	3.55	sta. @	\$100.00	per sta. =	\$355.00
				TOTAL EXCAVATION	\$355.00

SPECIAL PROJECTS					
Construct Landing	1.00	hours @	\$180.00	per hour	\$180.00
Grade and shape road -	9.55	stations @	\$22.00	per station	\$210.10
Roll subgrade	9.55	stations @	\$17.50	per station	\$167.13
Remove large stumps -	1.00	lump sum @	\$200.00		\$200.00
Grass seed and fertilize -	0.44	acres @	\$280.00	per acre	\$123.20
TOTAL SPECIAL PROJECTS					\$880.43
GRAND TOTAL					\$2,247.26

SUMMARY OF CONSTRUCTION COST

Sale:

Lost Mountain

Road:

I to J

<u>Construction -</u>	<u>6+65</u>	<u>stations</u>	<u>Improvement -</u>	<u>0+00</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	0.13	miles		0.00	miles		0.00	miles

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

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		
0+00		6+65	15%		Outslope	\$134	=	\$891.10
								TOTAL
								\$891.10

SPECIAL PROJECTS

Construct Landing	1.00	hours @	\$180.00	per hour	\$180.00
Grade and shape road -	6.65	stations @	\$22.00	per station	\$146.30
Roll subgrade	6.65	stations @	\$17.50	per station	\$116.38
Remove large stumps -	1.00	lump sum @	\$200.00		\$200.00
Grass seed and fertilize -	0.31	acres @	\$280.00	per acre	\$86.80
			TOTAL SPECIAL PROJECTS		\$729.48

GRAND TOTAL

\$1,620.58

SUMMARY OF CONSTRUCTION COST

Sale: **Lost Mountain**

Road: **K to L**

<u>Construction -</u>	<u>3+55</u>	<u>stations</u>	<u>Improvement -</u>	<u>5+15</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	<u>0.07</u>	<u>miles</u>		<u>0.10</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>

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

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		<u>Drill & Shoot</u>	<u>Endhaul</u>		
5+15		6+95	26%		Ditch	\$274	=			\$493.20	
6+95		8+70	11%		Ditch	\$178	=		\$3,352.27	\$3,663.77	
										TOTAL	\$4,156.97

Sale: Lost Mountain			Road: M to N		
<u>Construction -</u>	<u>9+00</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations
	0.17	miles		0.00	miles
<u>Reconstruction -</u>	<u>3+70</u>	stations			
	0.07	miles			

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist. To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>			
3+70		5+50	7%			\$93	=	\$167.40	
5+50		7+00	23%			\$174	=	\$261.00	
7+00		9+30	6%			\$93	=	\$213.90	
9+30		11+20	37%			\$239	=	\$454.10	
11+20		12+70	20%			\$174	=	\$261.00	
								TOTAL	\$1,357.40

<u>Culverts</u>	30	LF of 18"	\$600.00
			\$600.00
<u>Culvert Stakes & Markers</u>			
	1	markers	\$8.00

ROCK									
0+00	to	3+70	220	cy. of	Jawrun	@	\$4.48 per c.y.=	\$985.60	
								TOTAL ROCK	\$985.60

Landing Construction	2.00	hours @	\$180.00	per hour	\$360.00
Road Clearing	2.00	hours @	\$200.00	per hour	\$400.00
Grade and shape road -	12.70	stations @	\$22.00	per station	\$279.40
Roll subgrade w/ vibratory roller prior to rocking -	12.70	stations @	\$17.50	per station	\$222.25
Remove large stumps -	4.00	lump sum @	\$200.00		\$800.00
Grass seed and fertilize -	0.58	acres @	\$280.00	per acre	\$162.40
			TOTAL SPECIAL PROJECTS		\$2,224.05

GRAND TOTAL	\$5,175.05
--------------------	-------------------

SUMMARY OF CONSTRUCTION COST

Sale: **Lost Mountain**

Road: **O to P**

Construction -	5+80	stations	Improvement -	14+50	stations	Reconstruction -	0+00	stations
	0.11	miles		0.27	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		
14+50		20+30	15%			\$134	=	\$777.20
								TOTAL
								\$777.20

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	80	LF of 18"	\$1,600.00					
			\$1,600.00					
<u>Culvert Stakes & Markers</u>	2	markers	\$16.00					
								TOTAL CULVERTS
								\$1,616.00

ROCK

0+00 to	20+30	1,160	cy. of	Jawrun	@	\$16.21 per c.y.=	\$18,803.60	
Truck Turnaround	6+80	30	cy. of	Jawrun	@	\$16.96 per c.y.=	\$508.80	
Landing Rock	20+30	50	cy. of	Jawrun	@	\$17.85 per c.y.=	\$892.50	
								TOTAL ROCK
								\$20,204.90

SPECIAL PROJECTS

Landing Construction	1.00	hours @	\$180.00	per hour	\$180.00	
Waste Area Construction	6.00	hours @	\$180.00	per hour	\$1,080.00	
Ditching(no Endhaul)	0.50	stations @	\$80.00	per station	\$40.00	
Ditching(Endhaul)	0.75	stations @	\$105.00	per station	\$78.75	
Grade and shape road -	20.30	stations @	\$22.00	per station	\$446.60	
Roll subgrade w/ vibratory roller prior to rocking -	20.30	stations @	\$17.50	per station	\$355.25	
Remove large stumps -	1.00	lump sum @	\$200.00		\$200.00	
Grass seed and fertilize -	1.07	acres @	\$280.00	per acre	\$299.60	
						TOTAL SPECIAL PROJECTS
						\$2,680.20

GRAND TOTAL **\$25,278.30**

SUMMARY OF CONSTRUCTION COST

Sale:

Lost Mountain

Road:

Q to R

Construction -	28+45	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.54	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		8+20	5%		Ditch	\$165	=			\$1,353.00
8+20		10+25	29%		Ditch	\$274	=			\$561.70
10+25		14+05	62%		Ditch	\$2,742	=		\$7,571	\$17,990.60
14+05		17+50	51%		Ditch	\$813	=		\$5,770	\$8,574.85
17+50		18+30	29%		Ditch	\$274	=			\$219.20
18+30		19+15	53%		Ditch	\$813	=			\$691.05
19+15		20+10	75%		Ditch	\$4,727	=		\$2,052	\$6,542.65
20+10		21+00	44%		Ditch	\$413	=		\$1,480	\$1,851.70
21+00		22+40	6%		Ditch	\$165	=	\$2,250		\$2,481.00
22+40		28+45	10%			\$113	=	\$18,750		\$19,433.65
										TOTAL
										\$59,699.40

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	60	LF of 18"	\$1,200.00
<u>Culvert Stakes & Markers</u>	2	markers	\$16.00

TOTAL CULVERTS **\$1,216.00**

ROCK

0+00	to	28+45	1,660	cy. of	Jawrun	@	\$16.53	per c.y.=	\$27,439.80
0+00	to	22+50	390	cy. of	Crushed	@	\$7.98	per c.y.=	\$3,112.20
Intersection Widening		0+00	30	cy. of	Jawrun	@	\$15.81	per c.y.=	\$474.30
Energy Dissipator		5yds/culvert	10	cy. of	Riprap	@	\$16.71	per c.y.=	\$167.10
Landing Rock		17+70	60	cy. of	Jawrun	@	\$16.95	per c.y.=	\$1,017.00
Landing Rock		22+50	60	cy. of	Jawrun	@	\$17.26	per c.y.=	\$1,035.60
Landing Rock		28+45	80	cy. of	Jawrun	@	\$17.64	per c.y.=	\$1,411.20
TOTAL ROCK									\$34,657.20

SPECIAL PROJECTS

Construct Landings	9.00	hours @	\$270.00	per hour	\$2,430.00
Grade and shape road -	28.45	stations @	\$22.00	per station	\$625.90
Roll subgrade w/ vibratory roller prior to rocking -	28.45	stations @	\$17.50	per station	\$497.88
Remove large stumps -	3.00	lump sum @	\$200.00		\$600.00
Grass seed and fertilize -	1.31	acres @	\$280.00	per acre	\$366.80
TOTAL SPECIAL PROJECTS					\$4,520.58

GRAND TOTAL **\$100,093.18**

SUMMARY OF CONSTRUCTION COST

Sale:		<u>Lost Mountain</u>		Road:		<u>S to T</u>		
<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>13+50</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	<u>0.00</u>	miles		<u>0.26</u>	miles		<u>0.00</u>	miles
ROCK								
Spot Rock	As Directed	30	cy. of	Jawrun	@	\$15.68 per c.y.=	\$470.40	
							TOTAL ROCK	\$470.40
SPECIAL PROJECTS								
Grade and shape road -		13.50	stations @		\$22.00	per station	\$297.00	
Ditching(Endhaul)		4.05	stations @		\$130.00	per station	\$526.50	
Roll subgrade w/ vibratory roller prior to rocking -		13.50	stations @		\$17.50	per station	\$236.25	
							TOTAL SPECIAL PROJECTS	\$1,059.75
							GRAND TOTAL	\$1,530.15

SUMMARY OF CONSTRUCTION COST

Sale:			<u>Lost Mountain</u>			Road:			<u>U to V</u>		
<u>Construction -</u>		<u>0+00</u>	stations	<u>Improvement -</u>		<u>47+00</u>	stations	<u>Reconstruction -</u>		<u>2+30</u>	stations
		0.00	miles			0.89	miles			0.04	miles
<u>IMPROVEMENT:</u> CLEARING AND GRUBBING -											
Side cast				0.108	acres @	\$860.00	per acre =	\$92.88			
						TOTAL CLEARING AND GRUBBING			\$92.88		
<u>IMPROVEMENT:</u> EXCAVATION -											
Pullback				793	cy. @	\$2.00	per c.y.=	\$1,586.00			
						TOTAL EXCAVATION			\$1,586.00		
<u>IMPROVEMENT:</u> ENDHAUL -											
Pullback		45+15	to	47+50	793	cy. @	\$3.71	per c.y.=	\$2,942.03		
Spread & compact					793	cy. @	\$0.50	per c.y.=	\$396.50		
						TOTAL ENDHAUL			\$3,338.53		
ROCK											
47+00 to		49+30	150	cy. of	Jawrun	@	\$4.69	per c.y.=	\$703.50		
Spot Rock		As Directed	250	cy. of	Jawrun	@	\$6.86	per c.y.=	\$1,715.00		
Landing Rock		49+30	80	cy. of	Jawrun	@	\$4.71	per c.y.=	\$376.80		
						TOTAL ROCK			\$2,795.30		
SPECIAL PROJECTS											
Road Widening(47+00 to 49+30)				1.00	lump sum @	\$26,610.00		\$26,610.00			
Grade and shape road -				49.30	stations @	\$22.00	per station	\$1,084.60			
Roll subgrade w/ vibratory roller prior to rocking -				49.30	stations @	\$17.50	per station	\$862.75			
Remove large stumps -				3.00	lump sum @	\$200.00		\$600.00			
Grass seed and fertilize -				3.00	acres @	\$280.00	per acre	\$840.00			
						TOTAL SPECIAL PROJECTS			\$29,997.35		
						GRAND TOTAL			\$37,810.06		

SUMMARY OF CONSTRUCTION COST

Sale: **Lost Mountain**

Road: **W to X**

Construction -	10+40	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.20	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+10	87%		Ditch	\$6,601	=		\$5,730	\$12,991.10
1+10		1+80	69%		Ditch	\$3,375	=		\$3,845	\$6,207.50
1+80		3+40	45%		Ditch	\$459	=		\$6,435	\$7,169.40
3+40		5+00	62%		Ditch	\$2,742	=		\$7,125	\$11,512.20
5+00		7+10	6%		Ditch	\$165	=		\$1,295	\$1,641.50
7+10		9+00	50%		Ditch	\$813	=			\$1,544.70
9+00		10+40	9%		Ditch	\$165	=			\$231.00
										TOTAL
										\$41,297.40

SPECIAL PROJECTS

Construct Landings	4.00	hours @	\$180.00	per hour	\$720.00	
Grade and shape road -	10.40	stations @	\$22.00	per station	\$228.80	
Roll subgrade w/ vibratory roller prior to rocking -	10.40	stations @	\$17.50	per station	\$182.00	
Remove large stumps -	2.00	lump sum @	\$200.00		\$400.00	
Grass seed and fertilize -	0.48	acres @	\$280.00	per acre	\$134.40	
						TOTAL SPECIAL PROJECTS
						\$1,665.20

GRAND TOTAL **\$42,962.60**

SUMMARY OF CONSTRUCTION COST

Sale:		Lost Mountain			Road:		Point AA		
Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations	
	0.00	miles		0.00	miles		0.00	miles	
ROCK									
Spot Rock	0+00	40	cy. of	Crushed	@	\$4.99 per c.y. =	\$199.60		
							TOTAL ROCK		\$199.60
							GRAND TOTAL		\$199.60

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jawrun	Location:	Sec. 22 , T3N, R8W, W.M.
Sale:	Lost Mountain	Road:	3685 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	3685 c.y.
Drill Pct.:	50%	In Place Total:	2632 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$3,000.00

Drill & Shoot:	\$3.25 /cu.yd.	x	1316 cu.yds.	=	\$4,277.00
Rip Rock:	\$3.00 /cu.yd.	x	1316 cu.yds.	=	\$3,948.00
Push Rock:	\$1.00 /cu.yd.	x	1843 cu.yds.	=	\$1,843.00
Load Crusher:	\$1.00 /cu.yd.	x	3685 cu.yds.	=	\$3,685.00
Crush Rock:	\$3.75 /cu.yd.	x	3685 cu.yds.	=	\$13,818.75
Load Dump Truck:	\$1.00 /cu.yd.	x	3685 cu.yds.	=	\$3,685.00

Subtotal \$34,256.75

Move In/Set-up Crusher	1				\$2,016.00
Move In and set up Drill and Compressor	1	@	\$876.61	=	\$876.61
Move in Roller and Compactor	1	@	\$632.50	=	\$632.50
Move in Grader	1	@	\$846.73	=	\$846.73
Move in D-8	1	@	\$1,034.11	=	\$1,034.11
Move in Loader	1	@	\$869.11	=	\$869.11
Move in Excavator	1	@	\$984.11	=	\$984.11
Move in Trucks	3	@	\$234.76	=	\$704.28
				Subtotal	\$7,963.45

Base Cost= \$11.46 Per Cu.Yd. TOTAL PRODUCTION COSTS \$42,220.20

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base/load Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
C to D Energy Dissipator (Rip Rap)	2.46	2.00	6.71	11.17	85	\$949.45
C to D Energy Dissipator (Rip Rap)	3.71	2.00	6.71	12.42	20	\$248.40
C to D Energy Dissipator (Rip Rap)	3.58	2.00	6.71	12.29	10	\$122.90
C to D Energy Dissipator (Rip Rap)	3.48	2.00	6.71	12.19	10	\$121.90
C to D Road Widening (Jawrun)	1.43	1.70	11.46	14.59	40	\$583.60
K to L 515 870 (Jawrun)	2.31	1.70	11.46	15.47	240	\$3,712.80
K to L Intersection Widening (Jawrun)	2.28	1.70	11.46	15.44	30	\$463.20
K to L Landing Rock (Jawrun)	2.35	1.70	11.46	15.51	80	\$1,240.80
O to P 0 2030 (Jawrun)	3.05	1.70	11.46	16.21	1160	\$18,803.60
O to P Truck Turnaround (Jawrun)	3.80	1.70	11.46	16.96	30	\$508.80
O to P Landing Rock (Jawrun)	4.69	1.70	11.46	17.85	50	\$892.50
Q to R 0 2845 (Jawrun)	3.37	1.70	11.46	16.53	1660	\$27,439.80
Q to R Intersection Widening (Jawrun)	2.65	1.70	11.46	15.81	30	\$474.30
Q to R Energy Dissipator (Riprap)	3.55	1.70	11.46	16.71	10	\$167.10
Q to R Landing Rock (Jawrun)	3.79	1.70	11.46	16.95	60	\$1,017.00
Q to R Landing Rock (Jawrun)	4.10	1.70	11.46	17.26	60	\$1,035.60
Q to R Landing Rock (Jawrun)	4.48	1.70	11.46	17.64	80	\$1,411.20
S to T Spot Rock (Jawrun)	2.72	1.50	11.46	15.68	30	\$470.40
Total C.Y.					3685	Sub Total
						\$59,663.35

TOTAL ROCKING COSTS \$59,663.35

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Stockpiles	Location:	Sec. 21, 22, 25 , T3N, R8W, W.M.
Sale:	Lost Mountain	Road:	3875 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	3875 c.y.
Drill Pct.:	0%	In Place Total:	2768 c.y.

Load Dump Truck: _____ \$1.00 /cu.yd. x _____ 3875 cu.yds. = \$3,875.00

Subtotal _____ \$3,875.00

Move in Loader 3 @ \$869.11 = \$2,607.33
Move in Water Truck 1 @ \$234.76 = \$234.76
Subtotal _____ \$2,842.09

Base Cost= _____ \$1.73 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$6,717.09

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 26010 26225 (Jawrun)	1.78	1.50	1.73	5.01	170	\$851.70
A to B Spot Rock (Crushed)	3.76	3.20	1.73	8.69	100	\$869.00
A to B Spot Rock (Crushed)	2.86	3.20	1.73	7.79	130	\$1,012.70
A to B Berms (Crushed)	3.66	1.90	1.73	7.29	20	\$145.80
A to B Landing Rock (Jawrun)	1.17	1.50	1.73	4.40	50	\$220.00
A to B Landing Rock (Jawrun)	1.98	1.50	1.73	5.21	100	\$521.00
C to D Culvert Backfill (Crushed)	2.89	1.50	1.73	6.12	270	\$1,652.40
C to D Spot/Leveling Rock (Crushed)	2.89	3.20	1.73	7.82	1200	\$9,384.00
C to D Road Widening (Crushed)	1.66	3.20	1.73	6.59	20	\$131.80
C to D Spot Rock (Crushed)	2.89	3.20	1.73	7.82	30	\$234.60
C to D Turnout rock (Crushed)	2.89	3.20	1.73	7.82	300	\$2,346.00
C to D Berms (Crushed)	3.98	1.90	1.73	7.61	15	\$114.15
E to F 0 815 (Crushed)	3.07	3.20	1.73	8.00	170	\$1,360.00
E to F Spot Rock (Crushed)	3.66	1.70	1.73	7.09	50	\$354.50
E to F Spot Rock (Crushed)	2.58	1.70	1.73	6.01	30	\$180.30
E to F Intersection Widening (Jaw Run)	2.76	1.70	1.73	6.19	30	\$185.70
K to L 515 870 (Crushed)	11.88	3.20	1.73	16.81	60	\$1,008.60
M to N 0 370 (Jawrun)	1.25	1.50	1.73	4.48	220	\$985.60
Q to R 0 2250 (Crushed)	3.05	3.20	1.73	7.98	390	\$3,112.20
U to V 4700 4930 (Jawrun)	1.46	1.50	1.73	4.69	150	\$703.50
U to V Spot Rock (Jawrun)	1.93	3.20	1.73	6.86	250	\$1,715.00
U to V Landing Rock (Jawrun)	1.48	1.50	1.73	4.71	80	\$376.80
Point AA Spot Rock (Crushed)	1.76	1.50	1.73	4.99	40	\$199.60
Total C.Y.					3875	Sub Total \$27,664.95

TOTAL ROCKING COSTS \$27,664.95

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

Sale: **Lost Mountain**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
25.0	Pavement	30
10.0	Main Lines	7
3.5	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	Drill & Compressor	\$876.61		\$46.00	0.00	1.50	1.5	\$69.00	\$945.61
1	Brush Cutter	\$711.25		\$4.00	0.00	0.00	0	\$0.00	\$711.25
1	Graders	\$846.73		\$3.65	0.00	5.00	5	\$18.25	\$864.98
1	Excavators (Large)	\$984.11	1	\$44.80	0.00	5.00	5	\$224.00	\$1,208.11
1	Tractors (D6)	\$965.24	2	\$7.10	0.00	0.00	0	\$0.00	\$965.24
1	Tractor (D8)	\$1,034.11	2	\$15.10	0.00	5.00	5	\$75.50	\$1,109.61
3	Dump Truck (10 cy +)	\$709.65		\$2.85	0.00	5.00	5	\$42.75	\$752.40
1	Dump Truck (Off Hiway)	\$955.36	1	\$4.75	0.00	5.00	5	\$23.75	\$979.11
				TOTAL MOVE-IN COSTS:				\$7,536.31	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Lost Mtn*

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

Sections 21, 22, 23, 26, 27, and 28 of T3N R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage

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

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	82	76
Area 2 (Modified Clearcut)	75	58
Area 3 (Modified Clearcut)	83	61
Area 4 (Partial Cut)	54	48
Total Acres	294	243

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

All units were cruised using a 700' x 175' grid. The timber sale areas were cruised with a variable plot sampling method. All conifers 8" DBH and greater and all hardwoods 10" DBH and greater were recorded on all plots. Every plot recorded species, diameter, height, form factor and grade. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

B. Plot size

Point of observation was 4.0'. Form factor was measured at 16.0'.

Area	BAF
1	40.00
2	40.00
3	40.00
4	40.00

C. Grading System

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

5. Computation Procedure

Cruise 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. Plots landing in riparian management areas or areas excluded from the timber sale harvest areas were removed from computation procedures.

Net sale acreage was used for volume calculation.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	19	12.2	52.0
2	29	11.9	63.3
3	38	11.1	68.5
4	12	17.7	58.7

6. Hidden Defect and Breakage

A 1% reduction was applied to conifers and a 2% reduction to hardwood volumes for hidden defect and breakage.

7. Timber Description

Areas 1, 2, and 3, are comprised mostly of Douglas-fir with some red alder. The stands are approximately 55 years old and there has been no previous management. Area 4 is a mixed conifer stand with scattered alder. No previous management has occurred.

The stand is comprised of multiple merchantable species, please see the table below:

Sale Area	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	Douglas-fir	20.5	82	5
1	Red alder	14.2	48	6
1	Western Hemlock	15.1	55	5
1	Noble Fir	15.0	99	5
2	Red Alder	16.3	45	6

2	Western Hemlock	16.7	58	5
2	Douglas-fir	24.1	82	5
2	Big Leaf Maple	18.9	36	6
2	Noble Fir	28.0	103	5
2	Sitka Spruce	23.5	56	5
3	Douglas-fir	17.3	71	5
3	Red Alder	14.9	42	6
3	Big Leaf Maple	13.9	30	5
3	Western Hemlock	21.1	77	5
4	Western Hemlock	15.9	63	5
4	Douglas-fir	18.3	81	5
4	Red Alder	14.5	36	6
4	Noble Fir	17.0	78	5

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

8. Cruiser /Dates

The timber sale area was cruised by the Marketing Unit in 2019.

9. Revenue Distribution

FDF 100%

Tax Code: 5601 – 100%

Deed Numbers: 51

10. Attachments

Volume Summary

Stand Table

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

BM – Big leaf maple

RA – Red alder take

SS – Sitka spruce

WH – Western hemlock

NF – Noble Fir

DF – Douglas-fir take

DL – Douglas-fir leave

NL – Noble fir leave

WL – Western Hemlock Leave

OC – Other conifer

RC – Western red cedar

TC		Stand Table Summary														
Project LOSTMTN																
T03N R08W S21 TMC													T03N R08W S21 TMC			
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page: 1		
03N	08W	21	AREA 1		MC			76.00		19	74			Date: 11/26/2019		
Time: 9:06:24AM																
S Spc	T	Sample		Av					Average Log		Net		Net	T o t a l s		
		DBH	Trees	FF	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF
			16'	Tot	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre				
DF		11	2	80	62	9.570	6.32	4.79	13.6	40.0	1.86	65	191	141	50	15
DF		13	1	82	96	3.426	3.16	6.85	15.9	60.0	3.10	109	411	235	83	31
DF		15	1	88	65	2.573	3.16	2.57	25.3	60.0	1.86	65	154	141	49	12
DF		16	2	88	110	4.523	6.32	11.31	21.3	92.0	6.86	241	1,040	521	183	79
DF		18	1	88	113	1.787	3.16	5.36	23.2	93.3	3.54	124	500	269	94	38
DF		19	4	86	110	6.415	12.63	16.04	28.7	113.0	13.13	461	1,812	998	350	138
DF		20	2	89	113	2.895	6.32	8.68	26.5	110.0	6.57	231	955	499	175	73
DF		21	5	88	114	6.565	15.79	18.38	34.0	140.0	17.83	626	2,573	1,355	475	196
DF		22	2	82	122	2.393	6.32	7.18	36.1	135.0	7.38	259	969	561	197	74
DF		23	2	88	124	2.189	6.32	6.57	41.5	185.0	7.76	272	1,215	590	207	92
DF		24	3	86	127	3.016	9.47	9.05	45.6	196.7	11.75	412	1,779	893	313	135
DF		25	1	88	110	.926	3.16	1.85	66.4	275.0	3.51	123	510	267	94	39
DF		26	5	84	120	4.282	15.79	10.28	48.5	202.5	14.21	499	2,081	1,080	379	158
DF		27	3	89	119	2.383	9.47	7.15	55.6	255.6	11.34	398	1,827	861	302	139
DF		28	3	86	130	2.216	9.47	6.65	65.5	303.3	12.40	435	2,016	942	331	153
DF		30	2	86	112	1.287	6.32	3.22	78.3	330.0	7.18	252	1,061	545	191	81
DF		31	1	82	101	.602	3.16	1.20	86.9	295.0	2.98	105	355	227	80	27
DF		34	2	89	133	1.002	6.32	3.01	88.2	443.3	7.56	265	1,332	574	201	101
DF		Totals	42	85	104	58.050	132.63	130.13	38.0	159.7	140.80	4,940	20,785	10,700	3,755	1,580
WH		9	1	90	65	10.801	4.77									
WH		10	1	89	62	8.749	4.77	8.75	9.3	30.0	2.59	81	262	197	62	20
WH		13	1	86	52	5.177	4.77	5.18	14.7	30.0	2.44	76	155	186	58	12
WH		14	2	88	72	8.928	9.54	13.39	18.3	66.7	7.83	245	893	595	186	68
WH		15	1	89	80	3.889	4.77	7.78	17.3	70.0	4.30	134	544	327	102	41
WH		17	2	93	107	6.055	9.54	15.14	23.9	102.0	11.58	362	1,544	880	275	117
WH		19	2	92	100	4.847	9.54	9.69	38.5	157.5	11.96	374	1,527	909	284	116
WH		20	1	93	127	2.187	4.77	6.56	35.3	176.7	7.41	232	1,159	563	176	88
WH		21	1	94	110	1.984	4.77	5.95	33.9	166.7	6.45	202	992	490	153	75
WH		22	1	93	120	1.808	4.77	5.42	40.2	190.0	6.98	218	1,030	530	166	78
WH		24	1	89	94	1.519	4.77	3.04	51.4	195.0	4.99	156	592	379	119	45
WH		25	1	94	118	1.400	4.77	2.80	74.2	375.0	6.65	208	1,050	505	158	80
WH		Totals	15	90	80	57.344	71.58	83.70	27.3	116.5	73.19	2,287	9,750	5,562	1,738	741
NF		15	1	93	109	1.961	2.41	5.88	17.4	83.3	2.46	102	490	187	78	37
NF		19	1	94	120	1.222	2.41	3.67	30.6	140.0	2.69	112	513	205	85	39
NF		20	1	94	121	1.103	2.41	3.31	32.7	160.0	2.60	108	529	197	82	40
NF		22	1	93	120	.911	2.41	2.73	39.0	190.0	2.56	107	520	194	81	39
NF		23	1	93	122	.834	2.41	2.50	41.3	210.0	2.48	103	525	188	78	40
NF		27	1	94	124	.605	2.41	1.82	60.2	300.0	2.62	109	545	199	83	41
NF		32	1	94	150	.431	2.41	1.29	102.3	600.0	3.17	132	775	241	100	59
NF		Totals	7	93	120	7.067	16.84	21.20	36.5	183.9	18.58	774	3,898	1,412	588	296
RA		10	1	90	75	7.720	4.21	7.72	8.5	40.0	1.81	66	309	137	50	23
RA		13	1	87	80	4.568	4.21	9.14	14.9	55.0	3.74	136	502	284	103	38
RA		14	2	90	78	7.877	8.42	11.82	18.1	70.0	5.89	214	827	447	163	63
RA		17	1	87	64	2.671	4.21	2.67	33.3	70.0	2.44	89	187	186	68	14
RA		18	1	92	80	2.383	4.21	4.77	24.9	100.0	3.27	119	477	248	90	36
RA		22	1	95	118	1.595	4.21	3.19	39.2	195.0	3.44	125	622	261	95	47
RA		Totals	7	90	79	26.814	29.47	39.30	19.0	74.4	20.58	748	2,924	1,564	569	222
OC		15	1	88	103	1.716	2.11									

TC		TSTNDSUM												Stand Table Summary														
														Project						LOSTMTN								
T03N R08W S21 TMC														T03N R08W S21 TMC														
Twp		Rge		Sec		Tract		Type						Acres		Plots		Sample Trees		Page:		2						
03N		08W		21		AREA 1		MC						76.00		19		74		Date:		11/26/2015						
																								Time:		9:06:24AM		
S Spc		T		Sample DBH		FF Trees		Av Ht 16' Tot		Trees/ Acre		BA/ Acre		Logs Acre		Average Log Net Cu.Ft.		Net Bd.Ft.		Tons/ Acre		Net Cu.Ft. Acre		Net Bd.Ft. Acre		T o t a l s TonsCunitsMBF		
OC				Totals		188103		1.7162.11																				
Totals				72		8891		150.989252.63274.33		31.9136.2		253.14875037,356		19,2396,6502,839														

TC TLOGSTVB				Log Stock Table - MBF																
				Project: LOSTMTN																
T03N R08W S21 TMC								T03N R08W S21 TMC												
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
03N	08W	21	AREA 1	MC	76.00	19	74	Date	11/26/2019											
										Time	9:06:23AM									
Spp	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	CO	2	24		21		21	1.3								21				
DF	CO	2	36		32		32	2.0								32				
DF	CO	2	40		955	.8	947	60.0					132		303	363	111	38		
DF	CO	3	32		72	2.8	70	4.5				62	8							
DF	CO	3	37		3		3	.2			3									
DF	CO	3	40		401	.2	400	25.3			24	78	171	54	23	50				
DF	CO	4	10		2		2	.1		2										
DF	CO	4	12		1		1	.1			1									
DF	CO	4	13		1		1	.1			1									
DF	CO	4	14		2		2	.2		2										
DF	CO	4	15		5		5	.3		4	1									
DF	CO	4	16		2		2	.1		2										
DF	CO	4	17		11		11	.7		9	1	1								
DF	CO	4	18		7		7	.4		6	1									
DF	CO	4	19		2		2	.1		2										
DF	CO	4	20		7		7	.5		2		6								
DF	CO	4	21		2		2	.1		2										
DF	CO	4	25		4		4	.3		2		2								
DF	CO	4	26		10		10	.6		8	2									
DF	CO	4	27		4		4	.3			4									
DF	CO	4	28		2		2	.1			2									
DF	CO	4	30		2		2	.2			2									
DF	CO	4	32		2		2	.1		2										
DF	CO	4	33		10		10	.6		7	3									
DF	CO	4	37		4		4	.2			4									
DF	CO	4	38		4		4	.3		4										
DF	CO	4	40		21		21	1.3		15	7									
DF	Totals				1,590		1,580	55.6		68	57	149	179	186	326	466	111	38		
WH	CO	2	40		464	.5	462	62.3					134		209	119				
WH	CO	3	16		14		14	1.9					14							
WH	CO	3	32		18		18	2.4					18							
WH	CO	3	40		171		171	23.1			33	76	62							
WH	CO	4	15		9		9	1.2		9										
WH	CO	4	17		3		3	.4		3										
WH	CO	4	18		7		7	.9		7										
WH	CO	4	19		8		8	1.1		8										
WH	CO	4	30		3		3	.5		3										
WH	CO	4	32		37		37	5.0		37										
WH	CO	4	35		9		9	1.2		9										
WH	Totals				743		741	26.1		76	33	76	93	134	209	119				
RA	CO	3	34		15		15	6.7			15									
RA	CO	3	40		45		45	20.5			14	31								
RA	CO	4	16		7		7	3.1			7									
RA	H	2	14		29		29	13.1									29			
RA	H	2	24		31	17.6	25	11.4							25					
RA	H	3	32		36	8.3	33	14.8					33							
RA	H	4	24		34		34	15.5			23	11								

TC TLOGSTVB				Log Stock Table - MBF															
				Project: LOSTMTN															
T03N R08W S21 TMC										T03N R08W S21 TMC									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2										
03N	08W	21	AREA 1	MC	76.00	19	74	Date	11/26/2019										
								Time	9:06:23AM										
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
RA		H	4	32	15		15	6.7			15								
RA		H	4	40	18		18	8.2				18							
RA Totals					231	3.7	222	7.8			75	42	51		25		29		
NF		CO	2	30	10		10	3.2					10						
NF		CO	2	40	210	1.2	208	70.1					9	55	74	31	38		
NF		CO	3	32	13		13	4.3			9		4						
NF		CO	3	40	58	1.6	57	19.4				20	37						
NF		CO	4	14	1		1	.5		1									
NF		CO	4	17	4		4	1.2		4									
NF		CO	4	19	2		2	.8		1	1								
NF		CO	4	22	1		1	.4		1									
NF Totals					300	1.2	296	10.4		8	10	20	41	19	55	74	31	38	
Total All Species					2,864		2,839	100.0		152	175	287	364	338	616	659	172	76	

TC		Stand Table Summary														
TSTNDSUM		Project LOSTMTN														
T03N R08W S22 TMC													T03N R08W S22 TMC			
Twp	Rge	Sec	Tract	Type			Acres		Plots	Sample Trees			Page:	1		
03N	08W	22	AREA 2	MC			58.00		29	152			Date:	11/26/2015		
													Time:	12:34:44PM		
Spc	S T	Sample		FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s		
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
WH		8	2	82	47	8.861	3.09	8.86	5.7	25.0	1.62	51	222	94	29	13
WH		9	1	89	25	3.501	1.55	3.50	4.6	20.0	.52	16	70	30	9	4
WH		10	2	92	51	5.671	3.09	5.67	9.7	35.0	1.76	55	198	102	32	12
WH		11	2	85	60	4.687	3.09	4.69	14.3	40.0	2.14	67	187	124	39	11
WH		12	4	88	60	7.876	6.19	9.85	13.3	50.0	4.20	131	492	243	76	29
WH		13	2	90	69	3.356	3.09	6.71	10.5	42.5	2.26	71	285	131	41	17
WH		14	3	89	76	4.340	4.64	4.34	21.7	90.0	3.01	94	391	175	55	23
WH		15	4	91	90	5.041	6.19	10.08	21.5	90.0	6.91	217	907	401	126	53
WH		16	2	95	101	2.215	3.09	4.43	29.1	115.0	4.13	129	509	239	75	30
WH		17	1	93	115	.981	1.55	2.94	21.9	96.7	2.06	64	285	120	37	17
WH		18	4	90	101	3.501	6.19	7.88	30.4	118.9	7.65	239	936	443	139	54
WH		19	2	92	108	1.571	3.09	3.93	32.8	142.0	4.13	129	558	239	75	32
WH		20	2	90	122	1.418	3.09	4.25	33.8	155.0	4.60	144	659	267	83	38
WH		21	3	87	77	1.917	4.64	3.86	32.8	161.7	4.05	127	624	235	73	36
WH		22	3	90	105	1.758	4.64	4.69	38.6	165.0	5.78	181	773	336	105	45
WH		23	5	90	99	2.680	7.73	5.90	51.3	210.9	9.68	302	1,244	562	175	72
WH		24	4	93	121	1.969	6.19	5.91	49.3	239.2	9.31	291	1,413	540	169	82
WH		25	1	92	132	.454	1.55	1.36	58.6	290.0	2.55	80	395	148	46	23
WH		26	1	94	129	.419	1.55	1.26	65.7	346.7	2.65	83	436	153	48	25
WH		27	4	93	115	1.556	6.19	3.89	70.4	333.0	8.76	274	1,295	508	159	75
WH		28	1	93	132	.362	1.55	1.08	70.4	360.0	2.44	76	391	142	44	23
WH		29	1	92	86	.337	1.55	.67	77.5	320.0	1.67	52	216	97	30	13
WH		30	3	91	125	.945	4.64	2.84	79.4	398.9	7.20	225	1,131	417	130	66
WH		31	1	92	109	.295	1.55	.59	106.3	480.0	2.01	63	283	116	36	16
WH		32	1	92	90	.277	1.55	.55	102.7	475.0	1.82	57	263	106	33	15
WH		34	1	93	125	.245	1.55	.74	99.6	530.0	2.34	73	390	136	42	23
WH		36	2	85	123	.438	3.09	1.09	131.4	590.0	4.59	144	645	266	83	37
WH		37	1	82	125	.207	1.55	.62	116.5	540.0	2.32	72	336	134	42	19
WH		38	1	85	135	.196	1.55	.59	134.0	693.3	2.53	79	408	147	46	24
WH		41	1	93	119	.169	1.55	.51	145.8	816.7	2.36	74	413	137	43	24
WH		43	1	91	23	.153	1.55									
WH		Totals	66	89	76	67.394	102.07	113.27	32.3	144.4	117.05	3,659	16,356	6,789	2,122	949
RA		11	4	86	54	10.007	6.60	10.01	9.7	32.5	2.66	97	325	154	56	19
RA		12	4	75	49	8.408	6.60	10.51	10.0	36.0	2.89	105	378	167	61	22
RA		13	1	83	49	1.791	1.65	1.79	14.5	30.0	.72	26	54	42	15	3
RA		14	9	84	57	13.900	14.86	16.99	17.9	60.0	8.36	304	1,019	485	176	59
RA		15	8	89	53	10.763	13.21	12.11	22.7	63.3	7.56	275	767	438	160	44
RA		16	3	91	71	3.547	4.95	5.91	21.2	78.0	3.45	125	461	200	73	27
RA		17	4	93	88	4.190	6.60	8.38	26.2	108.7	6.03	219	911	350	127	53
RA		18	8	90	77	7.474	13.21	13.08	28.9	108.6	10.38	378	1,420	602	219	82
RA		19	8	89	87	6.708	13.21	14.25	30.8	115.3	12.08	439	1,643	701	255	95
RA		20	2	89	81	1.514	3.30	2.27	37.3	126.7	2.33	85	288	135	49	17
RA		21	1	80	64	.686	1.65	.69	63.7	150.0	1.20	44	103	70	25	6
RA		22	4	83	79	2.502	6.60	5.00	43.0	143.8	5.92	215	719	343	125	42
RA		23	1	83	68	.572	1.65	1.14	40.6	110.0	1.28	47	126	74	27	7
RA		24	2	88	78	1.051	3.30	2.10	46.5	160.0	2.69	98	336	156	57	20
RA		26	3	87	65	1.343	4.95	1.79	60.0	235.0	2.96	108	421	172	62	24
RA		28	1	90	75	.386	1.65	.77	69.8	225.0	1.48	54	174	86	31	10
RA		33	1	88	68	.278	1.65	.56	89.8	280.0	1.37	50	156	80	29	9
RA		34	1	85	72	.262	1.65	.52	102.2	295.0	1.47	54	154	85	31	9
RA		39	1	76	55	.199	1.65	.20	217.0	180.0	1.19	43	36	69	25	2

TC		TSTNDSUM													Stand Table Summary																													
															Project													LOSTMTN																
T03N R08W S22 TMC																														T03N R08W S22 TMC														
Twp		Rge		Sec		Tract		Type			Acres			Plots			Sample Trees			Page:		2																						
03N		08W		22		AREA 2		MC			58.00			29			152			Date:		11/26/2015																						
																				Time:		12:34:44PM																						
S		Sample		FF		Ht		Trees/			BA/			Logs			Average Log			Net		Net		T o t a l s																				
Sp		DBH		Trees		16'		Tot		Acre			Acre			Acre			Net			Cu.Ft.		Bd.Ft.		Tons			Cunits		MBF													
T																																												
RA		Totals		66		86		64		75.581			108.97			108.08			25.6			87.8			76.02			2,764		9,492		4,409			1,603		551							
DF		19		1		88		78		1.051			2.07			2.10			23.0			80.0			1.38			48		168		80			28		10							
DF		20		1		87		91		.948			2.07			1.90			29.6			120.0			1.60			56		228		93			33		13							
DF		21		2		84		95		1.720			4.14			3.44			40.4			125.0			3.96			139		430		230			81		25							
DF		22		1		92		77		.784			2.07			1.57			37.6			100.0			1.68			59		157		98			34		9							
DF		23		1		89		110		.717			2.07			2.15			35.8			140.0			2.20			77		301		127			45		17							
DF		24		1		83		112		.659			2.07			1.98			40.6			163.3			2.29			80		323		133			46		19							
DF		25		2		85		124		1.214			4.14			3.64			47.2			206.7			4.90			172		753		284			100		44							
DF		28		2		89		112		.968			4.14			2.90			54.9			250.0			4.54			159		726		263			92		42							
DF		30		2		89		116		.843			4.14			2.53			68.7			323.3			4.95			174		818		287			101		47							
DF		39		1		74		148		.249			2.07			.75			130.8			560.0			2.79			98		419		162			57		24							
DF		Totals		14		87		103		9.153			28.97			22.96			46.3			188.3			30.29			1,063		4,322		1,757			616		251							
NF		28		1		90		132		.968			4.14			2.90			65.7			323.3			4.58			191		939		266			111		54							
NF		Totals		1		90		132		.968			4.14			2.90			65.7			323.3			4.58			191		939		266			111		54							
BM		15		1		85		53		2.623			3.22			2.62			19.6			40.0			1.36			51		105		79			30		6							
BM		18		1		86		72		1.821			3.22			1.82			48.5			180.0			2.34			88		328		136			51		19							
BM		34		1		88		76		.510			3.22			.51			110.4			60.0			1.49			56		31		87			33		2							
BM		Totals		3		86		62		4.954			9.66			4.95			39.6			93.5			5.20			196		463		302			114		27							
SS		23		1		78		56		.478			1.38			.48			71.7			120.0			.89			34		57		52			20		3							
SS		24		1		82		90		.439			1.38			.88			52.1			160.0			1.19			46		140		69			27		8							
SS		Totals		2		80		72		.917			2.76			1.36			59.0			145.9			2.08			80		198		121			46		11							
Totals				152		87		72		158.967			256.55			253.52			31.4			125.3			235.21			7952		31,770		13,642			4,612		1,843							

TC	TLOGSTVB			Log Stock Table - MBF																		
				Project: LOSTMTN																		
T03N R08W S22 TMC										T03N R08W S22 TMC												
Twp	Rge	Sec	Tract	Type		Acres	Plots	Sample Trees		Page		1										
03N	08W	22	AREA 2	MC		58.00	29	152		Date		11/26/2019										
										Time		12:34:43PM										
Spp	S	So	Gr	Log	T	Len	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
							MBF	Def	MBF		Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
RA	H	2	16				6		6	1.1								6				
RA	H	2	32				20		20	3.6					10			10				
RA	H	2	36				45		45	8.1					32			12				
RA	H	2	40				48	13.4	42	7.6					7	8		18	9			
RA	H	3	20				8		8	1.4					8							
RA	H	3	24				8		8	1.5					8							
RA	H	3	26				28	2.2	27	4.9				20	7							
RA	H	3	32				60	6.4	56	10.2				30	18		8					
RA	H	3	36				22		22	4.1					11		12					
RA	H	3	40				130	3.8	125	22.7				23	72		29					
RA	H	4	13				2		2	.4			2									
RA	H	4	15				1		1	.2			1									
RA	H	4	16				11		11	1.9			7				4					
RA	H	4	17				5		5	1.0			5									
RA	H	4	18				3		3	.6			3									
RA	H	4	19				1		1	.2			1									
RA	H	4	20				2		2	.4			2									
RA	H	4	21				5		5	.9			3	2								
RA	H	4	23				3		3	.6			3									
RA	H	4	24				25		25	4.6			19	1	4							
RA	H	4	25				1		1	.1			1									
RA	H	4	26				8		8	1.5			8									
RA	H	4	28				10		10	1.8			6	4								
RA	H	4	29				13		13	2.4			13									
RA	H	4	30				6		6	1.1			6									
RA	H	4	31				2		2	.4			2									
RA	H	4	32				8		8	1.4			4	4								
RA	H	4	33				4		4	.7			4									
RA	H	4	34				3		3	.5			3									
RA	H	4	36				25	5.8	24	4.3			24									
RA	H	4	37				4		4	.7			4									
RA	H	4	39				4		4	.7			4									
RA	H	4	40				43	6.8	40	7.3			13	16	11							
RA	H	4	42				9	6.2	8	1.5				8								
RA		Totals					571	3.7	551	29.9			137	35	89	174	60	47	9			
WH	CO	2	40				626	.6	622	65.6					69	140	184	148	64	17		
WH	CO	3	17				1		1	.1					1							
WH	CO	3	20				1		1	.1					1							
WH	CO	3	24				3		3	.4					3							
WH	CO	3	27				1		1	.1				1								
WH	CO	3	30				3		3	.3				3								
WH	CO	3	32				46		46	4.9			1	29	12	3						
WH	CO	3	33				1		1	.1			1									
WH	CO	3	36				5		5	.5			5									
WH	CO	3	40				174	1.7	171	18.0			29	21	68	39	9	5				
WH	CO	4	12				1		1	.1		1	0									
WH	CO	4	13				1		1	.2		1	0									
WH	CO	4	15				4		4	.5		4	1									
WH	CO	4	16				2		2	.2		1		1								
WH	CO	4	17				4		4	.4		3		1								

TC TLOGSTVB				Log Stock Table - MBF																	
				Project: LOSTMTN																	
T03N R08W S22 TMC										T03N R08W S22 TMC											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2												
03N	08W	22	AREA 2	MC	58.00	29	152	Date	11/26/2019												
										Time	12:34:43PM										
Spp	T	S	So	Gr	Log	Gross	% Def	Net	% 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+
WH		CO	4	18		3		3	.4		3										
WH		CO	4	19		9		9	1.0		9										
WH		CO	4	21		2		2	.2		1	1									
WH		CO	4	22		5		5	.5				5								
WH		CO	4	23		2		2	.2		1		1								
WH		CO	4	25		4		4	.4		4										
WH		CO	4	26		2		2	.2		2										
WH		CO	4	27		1		1	.1			1									
WH		CO	4	28		13		13	1.4		12	1									
WH		CO	4	29		5		5	.5		5										
WH		CO	4	32		1		1	.1			1									
WH		CO	4	33		2		2	.2		2										
WH		CO	4	36		1		1	.1			1									
WH		CO	4	37		7		7	.8		7										
WH		CO	4	38		10		10	1.1		10										
WH		CO	4	40		15		15	1.6		11	4									
WH		Totals				956		949	51.5		77	47	58	88	111	149	189	148	64	17	
DF		CO	2	22		11		11	4.4							11					
DF		CO	2	40		172	2.8	167	66.5						20	27	70	36	15		
DF		CO	3	24		4		4	1.7						4						
DF		CO	3	32		28	1.4	28	11.0			4		15	9						
DF		CO	3	40		27	3.6	26	10.6					12	15						
DF		CO	4	12		0		0	.2		0										
DF		CO	4	13		1		1	.3			1									
DF		CO	4	14		0		0	.2				0								
DF		CO	4	17		2		2	1.0			2									
DF		CO	4	18		1		1	.5		1										
DF		CO	4	20		1		1	.3			1									
DF		CO	4	21		1		1	.4			1									
DF		CO	4	25		1		1	.5		1										
DF		CO	4	36		4		4	1.6		4										
DF		CO	4	40		2		2	.9		2										
DF		Totals				257	2.4	251	13.6		9	5	4	26	48	38	70	36	15		
BM		H	3	40		19		19	70.8					19							
BM		H	4	31		6		6	22.6			6									
BM		H	4	36		2		2	6.6			2									
BM		Totals				27		27	1.5			8		19							
NF		CO	2	40		53		53	96.9					13				39			
NF		CO	4	20		2		2	3.1			2									
NF		Totals				54		54	3.0			2		13				39			
SS		CO	3	40		7		7	64.3						7						
SS		CO	4	23		1		1	6.7			1									
SS		CO	4	40		3		3	29.0				3								
SS		Totals				11		11	.6			1	3			7					
Total All Species						1,877	1.8	1,843	100.0		86	200	101	222	346	254	305	231	79	17	

TC		Stand Table Summary														
TSTNDSUM		Project					LOSTMTN									
T03N R08W S27 TMC													T03N R08W S27 TMC			
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page: 1		
03N	08W	27	AREA 3		MC			61.00		38	121			Date: 11/26/2019		
													Time: 10:28:12AM			
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		9	1	76	66	3.847	1.70	3.85	8.7	30.0	.95	33	115	58	20	7
DF		11	4	85	82	9.175	6.06	18.35	9.0	40.8	4.70	165	748	287	101	46
DF		13	3	86	89	4.725	4.36	9.45	15.1	60.9	4.08	143	575	249	87	35
DF		14	4	88	87	5.664	6.06	11.33	16.7	66.8	5.40	190	757	330	116	46
DF		15	4	86	91	4.934	6.06	9.87	20.2	77.8	5.68	199	768	346	121	47
DF		16	7	86	93	7.989	11.15	12.86	22.6	91.8	8.27	290	1,180	505	177	72
DF		17	2	87	72	2.157	3.40	4.31	16.8	55.0	2.07	73	237	126	44	14
DF		18	2	87	102	1.924	3.40	4.81	21.8	80.0	2.99	105	385	182	64	23
DF		19	5	87	107	4.316	8.50	11.22	28.8	111.5	9.23	324	1,252	563	197	76
DF		20	4	88	98	3.116	6.80	4.67	33.6	121.7	4.47	157	569	273	96	35
DF		21	5	87	112	3.533	8.50	10.60	31.7	134.7	9.59	336	1,427	585	205	87
DF		22	1	90	120	.644	1.70	1.93	37.0	166.7	2.04	71	322	124	44	20
DF		23	4	84	109	1.841	5.31	4.86	31.3	121.8	4.33	152	592	264	93	36
DF		25	1	88	118	.499	1.70	1.50	48.7	213.3	2.08	73	319	127	44	19
DF		26	1	88	100	.461	1.70	.92	71.2	330.0	1.87	66	304	114	40	19
DF		27	3	86	122	1.282	5.10	3.85	56.0	230.0	6.14	215	885	375	131	54
DF		28	2	86	113	.795	3.40	2.38	56.1	251.7	3.82	134	600	233	82	37
DF		29	3	81	114	1.112	5.10	2.59	57.9	218.6	4.28	150	567	261	92	35
DF		31	1	89	110	.324	1.70	.97	69.7	326.7	1.93	68	318	118	41	19
DF		33	1	83	128	.286	1.70	.86	81.2	330.0	1.99	70	283	121	43	17
DF		34	1	89	100	.270	1.70	.54	117.0	585.0	1.80	63	315	110	38	19
DF		39	1	90	124	.205	1.70	.61	123.6	663.3	2.17	76	408	132	46	25
DF		Totals	60	86	93	59.099	96.78	122.34	25.8	105.7	89.86	3,153	12,928	5,482	1,923	789
RA		10	3	77	51	7.761	4.23	7.76	9.1	31.7	1.95	71	246	119	43	15
RA		11	4	82	65	10.012	6.61	15.02	10.9	38.3	4.49	163	576	274	100	35
RA		12	5	81	68	8.676	6.81	8.68	16.5	47.6	3.94	143	413	240	87	25
RA		13	6	75	60	7.617	7.02	11.20	13.9	35.2	4.27	155	394	261	95	24
RA		14	2	78	76	3.091	3.30	4.64	16.3	50.0	2.08	76	232	127	46	14
RA		15	9	84	67	12.115	14.87	20.19	17.3	61.3	9.63	350	1,238	588	214	76
RA		16	5	86	66	5.916	8.26	9.46	16.6	57.5	4.31	157	544	263	96	33
RA		17	3	82	59	3.144	4.96	4.19	17.5	47.5	2.02	74	199	123	45	12
RA		18	2	81	56	1.870	3.30	2.80	18.9	43.3	1.46	53	122	89	32	7
RA		20	3	86	68	2.272	4.96	3.79	25.5	86.0	2.66	97	326	162	59	20
RA		21	3	86	83	2.060	4.96	3.43	24.3	76.0	2.29	83	261	140	51	16
RA		22	3	77	64	1.877	4.96	2.50	28.6	57.5	1.97	72	144	120	44	9
RA		23	1	69	17	.573	1.65	.57	30.6	120.0	.48	18	69	29	11	4
RA		24	1	88	105	.526	1.65	1.05	64.2	290.0	1.86	67	305	113	41	19
RA		26	2	80	46	.896	3.30	.90	51.3	240.0	1.26	46	215	77	28	13
RA		27	1	80	87	.415	1.65	.83	54.2	170.0	1.24	45	141	76	27	9
RA		31	1	79	84	.315	1.65	.32	27.5	30.0	.24	9	9	15	5	1
RA		Totals	54	81	64	69.135	84.14	97.33	17.2	55.8	46.15	1,678	5,434	2,815	1,024	331
WH		19	1	92	102	.802	1.58	1.60	30.3	115.0	1.56	49	184	95	30	11
WH		24	1	92	79	.503	1.58	.50	85.6	400.0	1.38	43	201	84	26	12
WH		Totals	2	92	93	1.305	3.16	2.11	43.5	183.0	2.93	92	385	179	56	24
BM		13	1	87	60	1.713	1.58	1.71	11.8	30.0	.53	20	51	33	12	3
BM		15	1	91	75	1.287	1.58	1.29	19.6	40.0	.67	25	51	41	15	3
BM		Totals	2	89	66	3.000	3.16	3.00	15.1	34.3	1.20	45	103	73	28	6
OC		15	1	88	16	.858	1.05									
OC		16	1	81	107	.754	1.05									

TC		TSTNDSUM												Stand Table Summary											
												Project						LOSTMTN							
T03N R08W S27 TMC												T03N R08W S27 TMC													
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page:		2							
03N		08W		27		AREA 3		MC		61.00		38		121		Date:		11/26/2015							
												Time:		10:28:12AM											
S Spc	T	Sample		FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s	Tons	Cunits	MBF								
		DBH	Trees	16'	Tot				Net	Net		Cu.Ft.	Bd.Ft.					Cu.Ft.	Bd.Ft.						
OC		22	1	82	80	.399	1.05																		
OC		Totals		3	84	63	2.010	3.16																	
Totals				121	83	77	134.549	190.39	224.78	22.1	83.9	140.15	4968	18,850	8,549	3,031	1,150								

TC TLOGSTVB				Log Stock Table - MBF																
				Project: LOSTMTN																
T03N R08W S27 TMC												T03N R08W S27 TMC								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2											
03N	08W	27	AREA 3	MC	61.00	38	121	Date	11/26/2019											
								Time	10:28:11AM											
Spp	S	So	Gr	Log	Gross	% Def	Net	% 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	14		6		6	1.8			6									
RA	H	4	15		4		4	1.2			4									
RA	H	4	16		15		15	4.6			10		5							
RA	H	4	17		3		3	.9			3									
RA	H	4	18		2		2	.7			2									
RA	H	4	19		6		6	1.7			6									
RA	H	4	22		5		5	1.4			5									
RA	H	4	23		5		5	1.6			5									
RA	H	4	24		6		6	1.9			2	4								
RA	H	4	25		2		2	.6			2									
RA	H	4	26		1		1	.2			1									
RA	H	4	27		7		7	2.0			7									
RA	H	4	28		3		3	.9			3									
RA	H	4	29		4	9.9	4	1.2			4									
RA	H	4	30		13		13	3.9			3					10				
RA	H	4	31		5		5	1.6			5									
RA	H	4	32		65	13.0	57	17.1			29	5	22							
RA	H	4	33		7	6.7	6	1.9			6									
RA	H	4	34		2		2	.6			2									
RA	H	4	35		19		19	5.8			19									
RA	H	4	36		8	16.7	6	1.9			6									
RA	H	4	37		6		6	1.8			6									
RA	H	4	40		34	9.5	30	9.2			15	15								
RA	Totals				349	4.9	331	28.8			153	25	62	43	4	44				
BM	H	4	24		3		3	50.0			3									
BM	H	4	31		3		3	50.0			3									
BM	Totals				6		6	.5			6									
WH	CO	2	40		10		10	41.6					10							
WH	CO	3	40		12		12	52.2							12					
WH	CO	4	29		1		1	6.2		1										
WH	Totals				24		24	2.0		1			10		12					
Total All Species					1,181	2.6	1,150	100.0		71	218	170	164	177	111	165	55	18		

TC		Stand Table Summary															
TSTNDSUM		Project LOSTMTN															
T03N R08W S26 TPC													T03N R08W S26 TPC				
Twp	Rge	Sec	Tract	Type				Acres		Plots	Sample Trees		Page:	1			
03N	08W	26	AREA 4	PC				49.00		12	47		Date:	11/26/2015			
													Time:	10:29:32AM			
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
WL		10	2	94	51	17.112	9.33	25.67	7.2	33.3	5.92	185	856	290	91	42	
WL		12	1	91	80	5.942	4.67	11.88	12.0	55.0	4.58	143	654	224	70	32	
WL		13	1	91	88	5.063	4.67	10.13	15.7	75.0	5.10	159	759	250	78	37	
WL		17	2	89	99	5.921	9.33	14.80	25.2	102.0	11.92	372	1,510	584	182	74	
WL		18	3	91	101	7.922	14.00	15.84	34.1	133.3	17.31	541	2,113	848	265	104	
WL		20	1	86	105	2.139	4.67	4.28	42.9	145.0	5.88	183	620	288	90	30	
WL		22	2	88	100	3.536	9.33	7.07	50.6	172.5	11.43	358	1,220	560	175	60	
WL		23	1	85	99	1.617	4.67	3.23	55.4	210.0	5.73	179	679	281	88	33	
WL		27	2	87	105	2.347	9.33	5.87	66.4	288.0	12.47	390	1,690	611	191	83	
WL		Totals		15	91	81	51.600	70.00	98.78	25.4	102.3	80.33	2,511	10,101	3,936	1,230	495
WH		12	1	87	35	9.095	7.14	9.09	11.1	30.0	3.24	101	273	159	50	13	
WH		13	1	91	91	7.749	7.14	15.50	16.0	75.0	7.95	248	1,162	390	122	57	
WH		15	1	94	90	5.821	7.14	11.64	21.3	90.0	7.92	247	1,048	388	121	51	
WH		16	1	92	84	5.116	7.14	10.23	24.0	105.0	7.87	246	1,074	386	121	53	
WH		18	1	92	93	4.042	7.14	8.08	31.9	120.0	8.26	258	970	405	126	48	
WH		22	1	91	111	2.706	7.14	8.12	38.8	176.7	10.09	315	1,434	494	155	70	
WH		29	1	90	107	1.557	7.14	4.67	65.7	326.7	9.82	307	1,526	481	150	75	
WH		Totals		7	91	78	36.085	50.00	67.34	25.6	111.2	55.15	1,723	7,487	2,702	844	367
DL		16	1	88	110	3.104	4.33	6.21	27.4	120.0	4.68	170	745	229	83	36	
DL		17	1	87	95	2.749	4.33	5.50	27.3	110.0	4.13	150	605	202	74	30	
DL		18	2	88	108	4.904	8.67	12.26	24.0	100.0	8.09	294	1,226	396	144	60	
DL		20	1	88	98	1.986	4.33	3.97	39.5	140.0	4.31	157	556	211	77	27	
DL		22	2	87	112	3.283	8.67	6.57	45.0	205.0	8.12	295	1,346	398	145	66	
DL		23	1	85	114	1.502	4.33	4.51	38.2	160.0	4.75	172	721	233	84	35	
DL		26	1	85	105	1.175	4.33	3.53	46.5	200.0	4.51	164	705	221	80	35	
DL		29	1	87	114	.945	4.33	2.83	63.6	300.0	4.96	180	850	243	88	42	
DL		Totals		10	87	107	19.648	43.33	45.37	34.9	148.9	43.56	1,583	6,754	2,135	776	331
DF		16	1	89	91	4.297	6.00	8.59	18.3	70.0	4.48	157	602	219	77	29	
DF		18	2	90	101	6.791	12.00	16.98	25.7	104.0	12.45	437	1,766	610	214	87	
DF		19	1	88	107	3.047	6.00	6.09	38.1	150.0	6.61	232	914	324	114	45	
DF		22	1	86	101	2.273	6.00	4.55	27.1	105.0	3.52	123	477	172	60	23	
DF		Totals		5	89	99	16.408	30.00	36.21	26.2	103.8	27.06	949	3,759	1,326	465	184
NL		17	1	87	96	2.115	3.33	4.23	27.7	110.0	2.81	117	465	138	57	23	
NL		23	1	87	107	1.155	3.33	3.47	37.3	166.7	3.10	129	578	152	63	28	
NL		29	1	92	104	.727	3.33	1.45	88.8	390.0	3.10	129	567	152	63	28	
NL		Totals		3	88	101	3.997	10.00	9.15	41.0	175.9	9.01	376	1,610	442	184	79
RA		12	2	73	56	9.903	7.78	9.90	16.3	45.0	4.44	161	446	218	79	22	
RA		16	2	72	51	5.570	7.78	5.57	32.8	60.0	5.02	183	334	246	90	16	
RA		17	2	67	57	4.934	7.78	4.93	43.3	60.0	5.88	214	296	288	105	15	
RA		Totals		6	71	55	20.408	23.33	20.41	27.3	52.7	15.34	558	1,076	752	273	53
NF		17	1	89	95	2.115	3.33	4.23	27.7	110.0	2.81	117	465	138	57	23	
NF		Totals		1	89	95	2.115	3.33	4.23	27.7	110.0	2.81	117	465	138	57	23
Totals				47	87	83	150.261	230.00	281.48	27.8	111.0	233.27	7818	31,252	11,430	3,831	1,531

TC TLOGSTVB				Log Stock Table - MBF																																	
				Project:				LOSTMTN																													
T03N R08W S26 TPC												T03N R08W S26 TPC																									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		2																			
03N		08W		26		AREA 4		PC		49.00		12		47		Date		11/26/2019																			
												Time		10:29:31AM																							
S So Gr Log				Gross		% Net		%		Net Volume by Scaling Diameter in Inches																											
Spp T				rt de		Len		MBF Def 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				Totals				53		53		3.4						53																			
NL				CO 2 40				25 10.0		22		28.4												22													
NL				CO 3 32				7		7		8.6								7																	
NL				CO 3 40				44		44		56.3								24				20													
NL				CO 4 18				1		1		1.4		1																							
NL				CO 4 36				4		4		5.3		4																							
NL				Totals				81 3.1		79		5.2		5								31				20				22							
NF				CO 3 40				19		19		81.8										19															
NF				CO 4 36				4		4		18.2		4																							
NF				Totals				23		23		1.5		4								19															
Total All Species								1,547		1,531		100.0		134				143 198				267 353				180 145				111							



"STEWARDSHIP IN FORESTRY"

Lost Mtn

Volume Summary

Area 1-Harvest Type				
76 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	21	1580	0	1564
Hemlock	10	741	0	734
Spruce		0	0	0
Noble Fir	4	296	0	293
Alder	3	222	0	218
TOTAL	37.4	2839.162		2808.548

Areas 2-Harvest Type				
58 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	4	251	0	248
Hemlock	16	949	0	939
Spruce	0	11	0	11
Noble Fir	1	54	0	54
Alder	9	551	0	540
Maple	0	27	0	26
TOTAL	31.8	1816		1818

Areas 3-Harvest Type				
61 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	12.9	789	0	781
Hemlock	0.4	23	0	23
Spruce		0	0	0
Noble Fir		0	0	0
Alder	5.4	331	0	325
Maple	0.1	6	0	6
TOTAL	18.9	1144		1135



"STEWARDSHIP IN FORESTRY"

Lost Mtn

Volume Summary

Areas 4-Harvest Type				
48 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	3.8	180	0	179
Hemlock	7.5	359	0	356
Spruce		0	0	0
Noble Fir	0.5	22	0	22
Alder	1.1	52	0	51
TOTAL	12.8	614		607

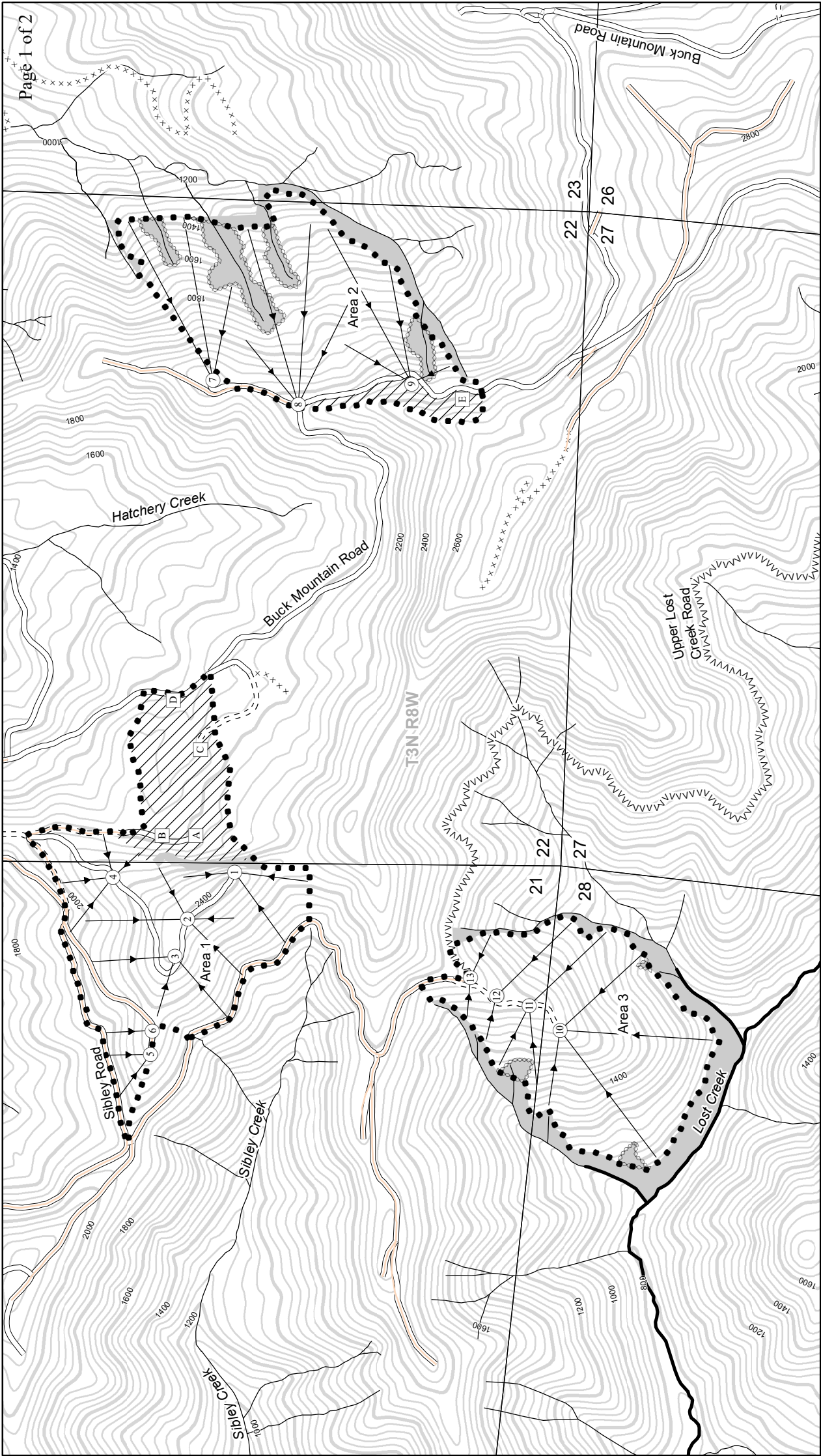


"STEWARDSHIP IN FORESTRY"

Lost Mtn

Volume Summary

TOTAL SALE VOLUME		243	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)	
Douglas-fir	2799	2772	
Hemlock	2073	2052	
Spruce	11	11	
Noble Fir	373	369	
Red Alder	1156	1133	
Maple	33	32	
TOTAL	6445	6369	



- Timber Sale Boundary
- Surfaced Road
- Unsurfaced Road
- Abandoned road
- Blocked road
- Type-F Stream
- Type-N Stream
- 200 Foot Contour Band
- 40 Foot Contour Band

- Cable Corridor
- Cable Landing
- Ground Landing
- Ground Yarding
- Stream Buffer
- Posted Buffer
- Sections

LOGGING PLAN

FOR TIMBER SALE CONTRACT
TL-341-2020-W00319-01
LOST MOUNTAIN
PORTIONS OF SECTIONS
21, 22, 23, 26, 27 & 28, T3N, R8W, W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
December, 2019
This product is for informational use and may not be
suitable for legal, engineering, or surveying purposes.



NET ACRES

	TRACTOR	CABLE
AREA 1	22	54
AREA 2	5	53
AREA 3	0	61
AREA 4	33	15

TOTAL	60	183
-------	----	-----

1:12,000



N

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

1 inch = 1,000 feet

- ### 40 Foot Contour Band