

Sale CS-341-2016-13-

District: Coos Date: October 08, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$647,497.89	\$28,966.71	\$676,464.60
		Project Work:	(\$23,702.00)
		Advertised Value:	\$652,762.60

10/08/15



Sale CS-341-2016-13-

District: Coos Date: October 08, 2015

Timber Description

Location: Portions of Section 32, T23S, R10W, W.M., Coos County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	95
Western Hemlock / Fir	15	0	95
Alder (Red)	14	0	90
Maple	13	0	90

Volume by Grade	28	3S	4 S	8" - 9"	10" - 11"	6" - 7"	Total
Douglas - Fir	897	949	63	0	0	0	1,909
Western Hemlock / Fir	152	68	0	0	0	0	220
Alder (Red)	0	0	0	30	39	54	123
Maple	0	0	0	0	36	24	60
Total	1,049	1,017	63	30	75	78	2,312

Comments: Pond Values Used: 3rd Quarter Calendar Year 2015.

Local Pond Values used for Bigleaf Maple.

101 acres of regeneration harvest containing approximately 2,312 mbf of 45-51 year old third growth Douglas-fir and western hemlock sawtimber.

Western redcedar and other Cedars stumpage price = Pond value minus Logging Cost: \$833.29 = \$1,150/MBF - \$316.71/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/GALLON

HAULING COST ALLOWANCE:

Hauling costs equivalent to \$780 per day truck cost.

Other Costs (with Profit & Risk to be added):

YARDING AND LOADING:

Brand and Paint Logs: $1/MBF \times 2,312 MBF = 2,312$

Cull Sorting/Slash Piling: \$125/landing x 8 landings = \$1,000

Rig Tail/Lift Trees: \$150/lift tree x 6 lift trees = \$900

Artificial Guy Anchors (dozer/skidder): \$500/anchor x 2 anchors = \$1,000 Cover Landing Slash Piles with Sheeting: \$50/landing x 8 landings = \$400 Dump Truck Move-in for Transporting Firewood: \$100/hour x 4 hours = \$400

Firewood Transport Time: \$85/hour x 8 hours = \$680

Equipment Wash for Ground Operations: \$65/hour x 6 hours = \$390

TOTAL Other Costs (with Profit & Risk to be added) = \$7,082

Other Costs (No Profit & Risk added): None.



Sale CS-341-2016-13-

District: Coos Date: October 08, 2015

Logging Conditions

Combination#: 1 Douglas - Fir 73.00%

 Western Hemlock / Fir
 73.00%

 Alder (Red)
 73.00%

 Maple
 73.00%

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 10 bd. ft / load: 3800

cost / mbf: \$157.90

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 4.00%

 Western Hemlock / Fir
 4.00%

 Alder (Red)
 4.00%

 Maple
 4.00%

yarding distance: Short (400 ft) downhill yarding: Yes

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 10 bd. ft / load: 3800

cost / mbf: \$197.37

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Medium)

Combination#: 3 Douglas - Fir 23.00%

 Western Hemlock / Fir
 23.00%

 Alder (Red)
 23.00%

 Maple
 23.00%

Logging System: Shovel Process: Stroke Delimber

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 12 bd. ft / load: 3800

cost / mbf: \$69.56

machines: Stroke Delimber (B)



Sale CS-341-2016-13-

District: Coos Date: October 08, 2015

Logging Costs

Operating Seasons: 1.00

Profit Risk: 20%

Project Costs: \$23,702.00

Other Costs (P/R): \$7,082.00

Slash Disposal: \$0.00 Other Costs: \$0.00

Miles of Road

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
3.0	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load		
Douglas - Fir	\$0.00	2.0	3.6		
Western Hemlock / Fir	\$0.00	2.0	3.5		
Alder (Red)	\$103.33	2.0	3.0		
Maple	\$103.33	2.0	3.0		

Local Pond Values

Date	Specie	Grade	Value
10/08/2015	Maple	10" - 11"	\$445.00
10/08/2015	Maple	6" - 7"	\$250.00



Sale CS-341-2016-13-

District: Coos Date: October 08, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir	-	-	-					
\$139.16	\$1.89	\$1.90	\$113.75	\$3.06	\$51.95	\$0.00	\$5.00	\$0.00	\$316.71
Western H	lemlock .	/ Fir							
\$139.16	\$1.89	\$1.90	\$117.00	\$3.06	\$52.60	\$0.00	\$5.00	\$0.00	\$320.61
Alder (Red	d)								
\$139.16	\$1.98	\$1.90	\$113.66	\$3.06	\$51.95	\$0.00	\$5.00	\$0.00	\$316.71
Maple									
\$139.16	\$1.98	\$1.90	\$113.66	\$3.06	\$51.95	\$0.00	\$5.00	\$0.00	\$316.71

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$640.32	\$323.61	\$0.00
Western Hemlock / Fir	\$0.00	\$455.73	\$135.12	\$0.00
Alder (Red)	\$0.00	\$527.68	\$210.97	\$0.00
Maple	\$0.00	\$367.00	\$50.29	\$0.00



Sale CS-341-2016-13-

District: Coos Date: October 08, 2015

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,909	\$323.61	\$617,771.49
Western Hemlock / Fir	220	\$135.12	\$29,726.40
Alder (Red)	123	\$210.97	\$25,949.31
Maple	60	\$50.29	\$3,017.40

Gross Timber Sale Value

Recovery: \$676,464.60

Prepared By: Jon Haynes Phone: 541-267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Lower West Glenn

Yarding and Loading

Brand and paint logs	MBF	2312	\$ 1.00	\$ 2,312.00
Cull sorting/slash piling on landings	landing	8	\$ 125.00	\$ 1,000.00
Rig tail/lift trees	lift tree	6	\$ 150.00	\$ 900.00
Artificial guy anchors(dozer, skidder)	anchor	2	\$ 500.00	\$ 1,000.00
Cover landing slash pile w/sheeting	pile	8	\$ 50.00	\$ 400.00
Dump truck move-in for transporting firewood	hrs	4	\$ 100.00	\$ 400.00
Firewood transport time	hrs	8	\$ 85.00	\$ 680.00
Equipment wash for ground operations	hrs	6	\$ 65.00	\$ 390.00

Total additional "Other Cost" with additional profit and risk to be added

\$ 7,082.00

Additional "Other Cost" with no additional profit and Risk

		<u>Units</u>	Quantity	Cos	st/unit	-	Total Cost
Non-required road constr	uction	Stations				\$	-
Non-required road rocking	g	Cubic Yards				\$	-
Stream clearance		Feet				\$	-
Scaling (high piece count	t)	MBF		\$	2.00	\$	-
						\$	_

Total additional "Other Cost" with no additional profit and Risk



SUMMARY OF CONSTRUCTION COST Lower West Glenn

Project 1A: Road construction

	Points:	B to C	Length:	240'	
--	---------	--------	---------	------	--

Type: 14' no ditch

3	hrs at	\$140.00	per hour	\$420
4	hrs at	\$140.00	per hour	\$560
3	hrs at	\$140.00	per hour	\$420
3	hrs at	\$38.00	per hour	\$114
	3 4 3 3	4 hrs at hrs at	4 hrs at \$140.00 3 hrs at \$140.00	4 hrs at \$140.00 per hour hrs at \$140.00 per hour

Total Project 1A: \$1,514

Project 1B: Road and Landing Construction

Points: H to J Length: 320' Type: 14' no ditch

Excavator time	8	hrs at	\$140.00	per hour	\$1,120
Cat time	6	hrs at	\$140.00	per hour	\$840
Laborer	2	hrs at	\$38.00	per hour	\$76
Grader time	2	hrs at	\$85.00	per hour	\$170

Total Project 1B: \$2,206

Project 1C: Road and Landing Construction

Points: I to K Length: 200' Type: 14' no ditch

Excavator	3	hrs at	\$140.00	per hour	\$420
Cat time	2	hrs at	\$140.00	per hour	\$280
Laborer	2	hrs at	\$38.00	per hour	\$76
Grader	1	hrs at	\$85.00	per hour	\$85

Total Project 1C: \$861

Project 1D: Road and Landing Construction

Points: M to O Length: 820' Type: 14' no ditch

Excavator	20	hrs at	\$140.00	per hour	\$2,800
Cat time	15	hrs at	\$140.00	per hour	\$2,100
Laborer	8	hrs at	\$38.00	per hour	\$304
Dump Truck	16	hrs at	\$85.00	per hour	\$1,360
Grader	4	hrs at	\$85.00	per hour	\$340

Total Project 1D: \$6,904

Project 1E: Landing Construction

Points; P, Q, F, E, and G

Excavator 8 hrs at \$140.00 per hour	\$1,120
Cat time	\$980
Laborer3 hrs at\$38.00 per hour _	\$114
Grader 4 hrs at \$85.00 per hour	\$340

Total Project 1E: \$2,554

SUMMARY OF CONSTRUCTION COST Lower West Glenn

Move-in				Lowboy	
	Equipment	Miles	hrs/RT	Rate/hr	Total
	Excavator	40	5	\$100.00	\$500.00
	Cat	40	5	\$100.00	\$500.00
	Grader	40	4	\$100.00	\$400.00
	Dump Truck	40	4	\$100.00	\$400.00

Total Move-in: \$1,800

Total Project 1: \$15,839

Project 2A: Road improvement

Points:	A to Q	Length:	4790'	Тур	e: 14' no ditch	
	Excavator		14	hrs at	\$ 140.00 per hour	\$ 1,960
	Cat time		14	hrs at	\$ 140.00 per hour	\$ 1,960
	Laborer		12	hrs at	\$ 38.00 per hour	\$ 456
	Grader		6	hrs at	\$ 85.00 per hour	\$ 510

Total Project 2A: \$ 4,886

Project 2B: Road improvement

oints:	D to F	Length:	750°	Type:	14' no ditch	1	
	Excavator		4	hrs at	\$140.00	per hour	\$560
	Cat time	_	3	hrs at	\$140.00	per hour	\$420
	Laborer	_	2	hrs at	\$38.00	per hour	\$76
	Grader	_	1	hrs at	\$85.00	per hour	\$85

Total Project 2B: \$1,141

Project 2C: Road Improvement

Length:

Points: E to G

Excavator	2	hrs at	\$140.00	per hour	\$280
Cat time	1	hrs at	\$140.00	per hour	\$140
Laborer	1	hrs at	\$38.00	per hour	\$38
Grader	1	hrs at	\$85.00	per hour	\$85

Type: 14' no ditch

310'

Total Project 2C: \$543

Project 2D: Road improvement

Points:	L to N	Length:	370'	Type:	14' no ditch		
	Excavator	_	3	hrs at	\$140.00	per hour	\$420
	Cat time	_	4	hrs at	\$140.00	per hour	\$560
	Laborer	_	6	hrs at	\$38.00	per hour	\$228
	Grader	_	1	hrs at	\$85.00	per hour	\$85

Total Project 2D: \$1,293

Total Project 2: \$7,863

Total Project Costs: \$23,702

TIMBER SALE SUMMARY

Lower West Glenn

1. Type of Sale: Final Harvest, Recovery, Sealed Bid

2. Boundary Lines: Timber sale boundaries are marked on the ground with white "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on the Exhibit "A".

3. Revenue Distribution: 100% CSL; 100% Coos County

4. Sale Acreage: The total sale area is approximately 101 acres divided into 2 areas. Acreage was determined from LIDAR imagery using electronic digitizing with the ArcMap 10.2 GIS program. The cruise expansion acres include only the timbered acres and not unstocked areas nor existing interior roads or landings.

	Posted Acres	Interior Roads/Landings	Non-Stocked Acres	Net Cruise Acres	Net Harvest Acres
Area 1	97.18	3.54	2.12	91.52	93.64
Area 2	7.73	.24	0	7.49	7.49
Total Sale	104.91	3.78	2.12	99.01	101.13

5. Volume by Species

Species	Total Volume (MBF)	Volume (MBF) per Acre
Douglas-fir	1,909	18.9
Hemlock	220	2.2
Red Alder	123	1.2
Bigleaf Maple	60	.6
Total	2,312	22.9

6. Grade: (by Percent,)

Species	3 Peeler %	Special Mill %	2 Saw (12"+) %	3 Saw % (10" – 11") %	Big 3 Saw %	4 Saw % (8" – 9") %	6" – 7" % Hardwood
Douglas-fir			47 %	50 %		3 %	
Hemlock			69 %	31 %			
Red Alder			32 %			25 %	43 %
Big Leaf Maple				60 %			40 %

7. Cruise: The sale areas were variable plot cruised using a nested Big BAF plot method. The Big BAF method is a combination of count plots and individually measured trees. Plots were spaced 125 feet apart on cruise lines spaced 400 feet apart. A 40 BAF full plot was used to determine tree counts for all species. Trees were sighted in at DBH and a total of 86 count plots were installed. A 250 BAF full plot at DBH was taken on every plot to determine which Douglas-fir trees would be fully measured. A total of 34 Douglas-fir trees were measured for DBH, height, grade, and defect. Minor species were measured on every third plot with a 40 BAF at DBH. A total of 9 western hemlock, 9 red alder, and 2 bigleaf maple trees were fully measured. Cruise data was compiled using Superace. Cruising was done by ODF Coos District staff R. Mickey, C. Hall, and E. Hamner in January and February 2015.

8. Grading: All trees were graded according to the Official Bureau Log Scaling and Grading Rules. Trees were graded to maximize grade where possible and field net volume was calculated by converting all logs to 40 feet lengths. Additional deductions were made for hidden defect and for breakage (Table B).

A. Summary data:

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
DBH	5" DIB Conifer	All species: DBH	Recorded for all cruised trees	76 %	9.3 %
	6" DIB Hardwood		by estimate and measure		

B. Defect and Breakage Summary:

BY PERCENT

SPECIES	CRUISED	HIDDEN DEFECT	BREAKAGE	TOTAL %
DOUGLAS FIR	0	5	5	10
HEMLOCK	0	5	5	10
RED ALDER	0	8	7	15
BIGLEAF MAPLE	0	8	7	15

C. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
DOUGLAS FIR	17"	88	142	18.9
HEMLOCK	15"	17	22	2.2
RED ALDER	14"	14	15	1.2
BIGLEAF MAPLE	13"	6	6	.6

D. Green Tree Retention: There are five (5) green tree reserve areas associated with this sale that are reserved from cutting. These areas consist of a Type F buffer extension, several Type N perennial stream buffers, and several Type N seasonal potential debris flow stream buffers. The majority of green tree retention is posted outside of the sale areas and was not included in the timber cruise. Additional green tree retention is located in Area 2 and the in the southern portion of Area 1. This additional green tree retention is painted with yellow paint and has been removed from the timber cruise. A total of 739 GTR are distributed across the sale areas for an average of 7.3 GTR per acre. The FPA requirement for this sale is 220 trees. The table on the next page summarizes the green tree retention areas, tree counts, and volume removed.

GTR Area	D-fir Count	D-fir Vol Removed	Hemlock Cedar Spruce Count	Hemlock Cedar Spruce Vol Removed	Alder Maple Myrtle Count
Type F Perennial	118	4.3 mbf	19		11
Stream Buffer					
Extension					
Type N Perennial	196	1.1 mbf	19	.9 mbf	122
Stream Buffers					
Seasonal Potential	88	.5 mbf	31	.5 mbf	135
Debris Flow Buffers					
TOTALS	402	5.9 mbf	69	1.4 mbf	268

- E. Down Wood: The down woody debris requirement of this sale is to leave 60 120 cubic feet per acre of hard logs across the sale areas. This will be achieved by retaining hard logs containing a minimum of 20 cubic feet for any individual piece. Existing down wood can be used to achieve this target provided they meet the definition of a hard log (sound wood in decay class 1 or 2 indicated by intact bark and original wood color).
- **9. Timber Description:** Areas 1 and 2 consist of 44 to 50 year-old moderately stocked Douglas-fir that was commercially thinned in the late 90's or early 2000's. There is considerable hardwood within the Type F stream buffer dividing Area 1 and Area 2. Timber quality across the sale areas is generally good.
- <u>10. Topography:</u> Area 1 has predominately easterly aspects with 70 to 80 percent slopes. There is some gentler terrain in the western and southern portions of Area 1. Area 2 in predominately southwest facing with slopes 40 to 60 percent. West Fork Glenn Creek, a medium Type F stream, flows between Area 1 and Area 2. Area 2 is bisected by two Type N perennial streams. Area 1 has multiple Perennial and Seasonal Type N streams which originate within Area 1; several are classified as Seasonal Potential Debris Flow streams and have posted buffers on them.
- 11. Logging Method: The sale area is designed to be uphill cable logged from existing landings at Points C, E, F, K, J, P, O, and Q. Portions of Area 1 in the west and south may be approved for ground based systems. Area 2 east of West Fork Glenn Creek is designed for cable yarding from landings in Area 1. There is a Logging Restricted Area of mature timber located north of Area 2 which is off limits for stringing lines or location of tailholds. In addition there is a 100 meter wide Chain Saw Restricted Area surrounding the Logging Restricted Area. The 1700 road east of West Fork Glenn Creek may be utilized for dozer tailholds. The sale area abuts private timberland along the south and eastern boundaries. Any tailholds or guyline anchors located on adjacent private land will require approval from adjacent landowner. Full suspension will be required while yarding over the posted stream buffers shown on Exhibit A. Single end suspension will be maintained over the remainder of the sale areas. In unit lift/tail trees and dozer tailhold/guyline anchors have been costed for in the appraisal. Ground based logging equipment will be required to be washed prior to entering the Elliott State Forest. Both Areas 1 and 2 are designed for dry season operation. Culls suitable for firewood will be transported to 1000 road prior to closing dirt spurs and has been costed for in appraisal.
- 12. Access: (All miles approximate). To access the timber sale area from Coos Bay, take the Coos River Highway 13.7 miles to Allegany. Turn left on Marlow Creek Road (1000 Rd.) and continue for 12.9 miles to Point "A". Walk or ATV for .25 miles into Area 1. To access Area 2 continue on the 1000 road for another 2.0 miles to the 1700 road. Walk or ATV for 1.2 miles down the 1700 road to Area 2. Log hauling south on the 1000 road will require a signed access agreement with Weyco.

13. Projects: See attached "Project Cost Summary Sheet"

<u>Project No. 1</u>: Road and Landing Construction

<u>Project No. 2</u>: Road and Landing Improvement

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Lower West Glenn DATE: 08/25/2015 LEGAL LOCATION: Sec 32 T23S R10W BY: J.Haynes

WM. Coos County OR

FIELD CULL PERCENTAGE

Sale Area

SpeciesDoug-firSpruceCedarHemlockRed AlderBigleaf MapleField cull0%00%0

NET FIELD VOLUME MBF (Gross vol. less field cull)

SPECIES>>>>	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple	TOTAL
Sale Area	2127	0	0	245	145	70	2587
less GTR vol	6	0	0	1	0	0	7
TOTAL	2121	0	0	244	145	70	2580

HIDDEN DEFECT AND BREAKAGE

Species	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple
Hidden cull	0.05	0	0	0.05	0.08	0.08
Breakage	0.05	0	0	0.05	0.07	0.07
TOTAL	0.10	0.00	0.00	0.10	0.15	0.15

NET VOLUME BY MBF BY AREA

SPECIES>>>>	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple	TOTALS
Sale Area	1909	0	0	220	123	60	2312
TOTALS	1909	0	0	220	123	60	2312

NET VOLUME BY GRADE AND MBF

Grade >>>>	>>>>>	2PEE	3PEE	S.M.	2SAW (12"+)	3SAW (10"-11")	Big 3 SAW	4SAW (8"-9")	(6"-7")
Areas 1 - 2	Doug-Fir	0	0	0	897	949	0	63	0
	Hemlock	0	0	0	152	68	0	0	0
	Red Alder	0	0	0	0	39	0	30	54
	Cedar	0	0	0	0	0	0	0	0
	Maple	0	0	0	0	36	0	0	24

GRADE DISTRIBUTION BY PERCENT

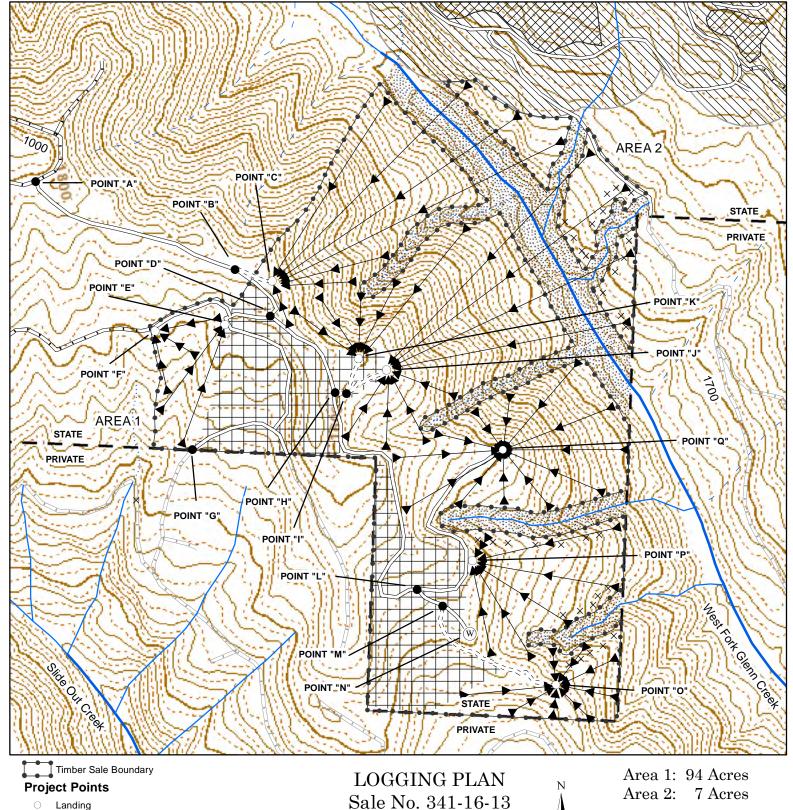
Grade >>>>>	>>>>>	2PEE	3PEE	S.M.	2SAW (12"+)	3SAW (10"-11")	Big 3 SAW	4SAW (8"-9")	(6"-7")
Areas 1 - 2	Doug-fir	0%	0%	0%	47%	50%	0%	3%	0%
	Hemlock	0%	0%	0%	69%	31%	0%	0%	0%
	Red Alder	0%	0%	0%	0%	32%	0%	25%	43%
	Cedar	0%	0%	0%	0%	0%	0%	0%	0%
	Maple	0%	0%	0%	0%	60%	0%	0%	40%

Operating Periods Restrictions Matrix for Eleven Creek Headwaters 341-16-16

Harvesting	January	Febuary	March	April	May	June	July	August	September	October	November	December
					15th 16th			5th 6th	15th 16th	14th 15th		
Ground-based Yarding									3			
Roads									2 000000			
Chain Saw use in MMMA - Buffer												
Occupied Habitat (includes guylines and tailholds)												
Hauling	January	Febuary	March	April	May	qune	ylub	August	September	October	November	December
3			(Control of Control of Control		15th 16th				50 04. 50 8000	14th 15th		
Log Hauling on Unsurfaced Roads								- 63	- 50			
Log and Rock Haul adjacent to Type F streams, 1000 Rd, 9000 Rd								0.0	9			
Project Work	January	Febuary	March	April	May	quue	duly	August	September	October	November	December
					15th 16th	2 20	y 0	5th 6th	15th 16th	14th 15th		
Projects 18.2												
Non-project Roads and Landings						30		8	9			
Non-project Roads in MMMA												
		Operations Allowed	Allowed		27773	t	Activity Rest	Activity Restricted 2 hours before sunset through 2 hours after sunrise	s before ter sunrise			
Operations Prohibited - T & E approved in writing by STATE	-	Operations	Operations Prohibited - T &	Z&E	-	0	Operations F approved in 1	Operations Prohibited for wes approved in writing by STATE	Operations Prohibited for weather conditions: unless otherwise approved in writing by STATE	ditions: unles	s otherwise	

Operating Matrix represents the seasonal restrictions contained within the body of the timber sale contract. See Section 2455 for further information on seasonal restrictions.

MMMA is the Trout Mouth Marbled Murrelet Management Area.



- Road Point
- Waste Area

Roads

- Existing Roads STATE Maintained
 - = Existing Roads Purchaser Maintained
- Existing Roads Private
- = = = = New Construction
- Logging Restricted Area
- Chain Saw Restricted Area
- Cable Yarding
 - **Ground-based Operations**

Lower West Glenn

Portions of Section 32 T23S, R10W, W.M. Coos County, Oregon Regulated Use Area CS-2 100% CSL

Total 101 Net Harvest Acres 500 250 500 1:6,000 1 inch = 500 feet

The information shown on Exhibit "A" map(s) are approximate locations. Exact locations of features represented by map symbols will be determined on site and shall depend upon the conditions that exist on site. Activities shall be conducted based upon features determined on site rather than features shown on maps.

Type F Stream Perennial Type N Stream

Streams

····· Seasonal Type N Stream

Unclassified

Streambuffers / Green Tree Retention Areas

Individual Green Tree Retention