

Timber Sale Appraisal East Chicken Sale WL-341-2018-68-

District: Western Lane Date: September 18, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,473,250.92	\$15,915.50	\$1,489,166.42
		Project Work:	(\$248,361.00)
		Advertised Value:	\$1,240,805.42



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Timber Description

Location: Portions of Section 10, T17S, R8W, W.M., Lane County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	97
Western Hemlock / Fir	11	0	100
Red Cedar	11	0	100
Alder (Red)	11	0	100
Maple	12	0	100

Volume by Grade	sм	28	38	48	Camprun	Total
Douglas - Fir	138	2,503	1,034	106	0	3,781
Western Hemlock / Fir	0	0	0	0	1	1
Red Cedar	0	0	0	0	1	1
Alder (Red)	0	0	0	0	30	30
Maple	0	0	0	0	50	50
Total	138	2,503	1,034	106	82	3,863

Comments:

Pond Values Used: Local Pond Values, July 2017.

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/MBF

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

None.

Other Costs (No Profit & Risk added):

Truck Assist for eastern most portion of South Chicken EXT Road: 20 days x \$250/day = \$5,000

Final Road Maintenance = \$7,127

Roseburg Resources Road Use Fee = \$2,300

TOTAL Other Costs (No Profit & Risk added) = \$14,427



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

 Western Hemlock / Fir
 100.00%

 Red Cedar
 100.00%

 Alder (Red)
 100.00%

 Maple
 100.00%

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

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

loads / day: 7 bd. ft / load: 4000

cost / mbf: \$214.29

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Medium)

9/18/17



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Logging Costs

Operating Seasons: 1.00

Profit Risk: 15%

Project Costs: \$248,361.00

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$14,427.00

Miles of Road

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	2.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0
Western Hemlock / Fir	\$0.00	0.0	0.0
Red Cedar	\$0.00	0.0	0.0
Alder (Red)	\$0.00	3.0	3.5
Maple	\$0.00	3.0	3.5



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas -	Fir								
\$214.29	\$2.10	\$1.14	\$66.95	\$0.00	\$42.67	\$0.00	\$7.00	\$3.73	\$337.88
Western H	emlock	/ Fir			_				
\$214.29	\$2.04	\$1.14	\$0.00	\$0.00	\$32.62	\$0.00	\$7.00	\$3.73	\$260.82
Red Cedar	•	-			_				
\$214.29	\$2.04	\$1.14	\$0.00	\$0.00	\$32.62	\$0.00	\$7.00	\$3.73	\$260.82
Alder (Red)	-		-	_				
\$214.29	\$2.04	\$1.14	\$74.29	\$0.00	\$43.76	\$0.00	\$7.00	\$3.73	\$346.25
Maple	-	-		-	-				
\$214.29	\$2.04	\$1.14	\$74.29	\$0.00	\$43.76	\$0.00	\$7.00	\$3.73	\$346.25

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$727.11	\$389.23	\$0.00
Western Hemlock / Fir	\$0.00	\$573.43	\$312.61	\$0.00
Red Cedar	\$0.00	\$1,520.50	\$1,259.68	\$0.00
Alder (Red)	\$0.00	\$650.00	\$303.75	\$0.00
Maple	\$0.00	\$482.31	\$136.06	\$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
Red Cedar	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	3,781	\$389.23	\$1,471,678.63
Western Hemlock / Fir	1	\$312.61	\$312.61
Red Cedar	1	\$1,259.68	\$1,259.68
Alder (Red)	30	\$303.75	\$9,112.50
Maple	50	\$136.06	\$6,803.00

Gross Timber Sale Value

Recovery: \$1,489,166.42

Prepared By: Chad Howard Phone: 541-935-2283

Summary of "Other Costs" for Timber Sale Appraisals

State Timber Sale Contract 341-18-68 East Chicken

"Other Costs" with Profit and Risk to be Added:

None

Total "Other Costs" with Profit and Risk to be Added:

\$0

"Other Costs" With No Additional Profit and Risk

<u>Units</u>	Quantity	Cost/Unit	<u>T(</u>	otal Cost
Days	20	\$250	\$	5,000.00
Operation			\$	7,127.00
Operation			\$	2,300.00
	Days Operation	Days 20 Operation	Days 20 \$250 Operation	Days 20 \$250 \$ Operation \$

Total "Other Cos	sts" With No Additional Profit and Risk:	\$ 14,427
Cost per MBF	3.861 MBF	\$ 3.74

East Chicken 341-18-68 Combined Project Costs

Project 1	Construct subgrades and conduct road maintenance.	\$144,174
Project 2	Spread and process rock for South Chicken Road extension and other roads.	\$70,435
Project 3	Spread and process rock for Spur 2 and Spur 2a.	\$29,452
Project 4	Brush road from point A to B	\$4,300
	TOTAL BROUEST COOTS	AC 10 001

TOTAL PROJECT COSTS

\$248,361

State Timber Sale Contract

341-18-68

East Chicken

End Haul Costing

South Chicken Extension

				1	
£	In Fill	1.12			
75 % Rock 25 % Earth	Truck	1.31			
	In Place	Exp. Factor			
		Location	0+00 to 3+00	4+50 to 16+00	

Loose Truck Haul Total Cu. Yds. 11440
In-Fill Total Cu. Yds. 7280

		i		
Rock	In Fill 0.91	910	6370	7280
75% Earth 25% Rock	Truck	1430	10010	11440
75%	In Place	1000	2000	8000

4.59	s	ρ	Avg Cost/yd			
52,471.28	\$		Total Endhaul Cost	Total E	•	5824
48,724.68	\$	4.87	\$	1.0	W.A. 1	9609
3,746.60	\$	2.62	\$	0.09	Turn Out/W.A.	728
Haul Cost	Han		Cost/yd	miles		
				Waste Area	Location	Mixture)
				Distance to		(80% of Earth Rock
						Clean Fill Totals

11440 \$ 52,471.28 \$ 4.59

Total Loose Truck Haul Cu. Yds.

Total End Haul Costs

Avg Cost/ Cu. Yds.

Summary

Note: Costing is based off an average haul speed of 10mph, 10 Cu. Yds. end dump trucks, 1 excavator, Dump and Load time 5min/trip.

Waste Area Endhaul

MASI	waste Alea Ellullaul	- TO			
Hourly Costs	Turn	Turn Out/WasteArea Waste Area 1	Waste A	rea 1	
Hourly Rate for a truck		\$85		\$85	
Number of trucks		-		7	
escavator + opperator	\$.	174.00	\$	174.00	
Total	\$	259.00	\$	344.00	
Haul Speed mp	hdm	10		10	
Distance mil	miles	0.00		~	
Time hrs	"	0.018		0.2	
Dump and Load hrs	"	0.083		0.083	
total time		0.101		0.283	
Loads per hr		6.6		3.533568905	
Yds per hr		99.01	79.07	70.67137809	
Cost per Cu. Yd	ઝ	2.62	s	4.87	

haul	*85	\$ 174.00	\$ 259.00	10	0.89	0.178	0.083	0.261	3.831417625	19.15708812 \$ 13.52
Stump Endhaul	Hourly Rate for a truck Number of trucks	escavator + opperator	Total	Haul Speed	Distance	Time	Dump and Load	total time	Loads/hr	Stumps/hr Cost/Stump

150 0.44

Stumps/Acre Approx Acres 66 892.31

Total stumps Total Cost State Timber Sale Contract 341-18-68 East Chicken

Final Road Maintenance Cost Summary

Totals	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
Stations	70.00	36.32	1.26	
Cost/Sta	\$ 59.73	\$ 65.34	\$ 58.03	
Total Cost	4180.956	2373.142	73.121	\$ 6,627

Spot Rocking		South Chicken Rd	South Chicken Extension	Spur 1	Т	OTAL
Total Yds		104	30	0		
Rock Size		1 1/2"-0"	1 1/2"-0"	0		
	\$/yd	\$26.89	\$26.89	\$0.00		
	Subtotal	\$ 2,796	\$ 807	\$ -	\$	3,603

Grade,Shape & Pull	Sou	uth Chicken	So	uth Chicken		_		
Ditches		Rd		Extension	Spur 1		Т	OTAL
Stations	70.00		36.32		1.26			
\$/STA	\$ 18.35		\$	18.35	\$ 18.35			
Subtotal	\$	1,285	\$	666	\$	23	\$	1,973

Install Waterbars	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
# of waterbars		10.00		
\$/waterbar	\$35.00	\$70.00	\$35.00	
Subtotal	\$ -	\$ 700.00	\$ -	\$ 700.00

Landing clean up	Soi	uth Chicken Rd	uth Chicken Extension		Spur 1	T	OTAL
Stations		2.00	4.00 1.00		1.00		
\$/STA	\$	50.00	\$ 50.00	\$	50.00		
Subtotal	\$	100	\$ 200	\$	50	\$	350

Move In	Initial
Grader	\$ 500

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs

\$ 7,127

^{* 64} yds of spot rock to be placed on portion of South Chicken Road controlled by Roseburg Resources Co

Subgrade Construction/Culverts
Processing and Decking Right-of-Way Logs Not Included

	South Chicken					
Totals	Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Stations	36.32	1.26	28	6	70	141
Cost/Sta	\$ 2,361.00	\$ 605.00	\$ 1,405.00	\$ 1,987.00	\$ 27.00	
Cost	\$ 85,764.00	\$ 762.00	\$ 39,338.60	\$ 11,924.33	\$ 1,885.00	\$ 139,674.00

-a						
	South Chicken					
Clearing and Grubbing	Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Acreage	3.4	0.12	2.4	0.6		
Cost/Acre	\$1,470.00	\$1,337.00	\$1,337.00	\$1,337.00	\$1,337.00	
Total	\$ 4,998.00	\$ 161.00	\$ 3,209.00	\$ 803.00	\$ -	\$ 9,171.00

Excavation yards are bank run from State's design

	South Chicken								
Construction/Excavation	Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL			
Stations	22	1.26		6					
Drift/Excavation Cu Yd.	2000		4200						
\$/sta	\$190.00	\$122.00	\$122.00	\$122.00	\$122.00				
Drift/Excavation \$/yd.	\$ 2.50		\$4.00						
Landing Construction	\$778.00	\$389.00	\$778.00	\$389.00					
Subtotal	\$ 9,958.00	\$ 543.00	\$ 17,578.00	\$ 1,121.00	\$ -	\$ 29,200.00			
End-haul Costs are in addition to excavation costs above.									
Loose Truck Cu Yd.	11440				150				
¢/vd	\$4.50	1			00.19				

Subtotal	\$53,364.00	\$ -	\$	-	\$	-	\$ 600	\$	53,964.00
	4=	_			_			-	========
End-haul Stumps	\$ 892.00								
\$/yd.	\$4.59						\$4.00)	
Loose Truck Cu Yd.	11440		L				150		

Earth Fill Construct Cost are in a	ddition to End-haul costs abo	ve.				
Waste Fill Cu. Yds.			6000	1000		
Process Fill Cost/Cu. Yds.			\$ 2.00	\$ 2.00		
Total	\$0.00	\$0.00	\$12,000.00	\$2,000.00	\$0.00	\$ 14,000.00

Drill & Shoot						TOTAL
Cu Yd.	1000					
\$/yd.	\$ 10.30	\$ 10.30	\$ 10.30	\$ 10.30	\$ 10.30	
Subtotal	\$ 10,300.00	\$ -	\$ -	\$ -	\$ -	10300.00

Culverts

	S	outh Chicken						
Alum. Steel 2-2/3" x 1/2"		Extension	Spur 1	Spur 2	Spur 2a	Sout	th Chicken Rd	TOTAL
Length (ft.)		140		120	40			300
Diameter (2-2/3" x 1/2")		18"	18"	18"	18"		18"	
Cost/Foot	\$	15.23	\$ 15.23	\$ 15.23	\$ 15.23	\$	15.23	
Subtotal	\$	2,132	\$ -	\$ 1,827.60	\$ 609.20	\$	-	
Plastic								
Length (ft.)					160			160
Diameter		18"	18"	18"	30"		18"	
Cost/Foot	\$	15.23	\$ 15.23	\$ 15.23	\$ 22.18	\$	15.23	
Subtotal		0	0	0	\$ 3,549		0	
Subtotal	\$	2,133.00	\$ -	\$ 1,828	\$ 4,158	\$	-	\$ 8,118.60
Installation Cost	\$	2,399.00	\$ -	\$ 1,914.00	\$ 3,093.33	\$	-	\$ 7,406.00

* Aluminized Steel was used for costing purposes based on prices as of 12/20/12 Subgrade Treatment

	South Chicken						
Compaction w/ Roller	Extension	Spur 1	Spur 2	Spur 2a	Sou	th Chicken Rd	TOTAL
Road Stations	36.32	1.26	28	6		0	71
Cost/STA	\$ 47.08	\$ 20.20	\$ 75.47	\$ 100.00	\$	20.20	
Subtotal	\$ 1,710.00	\$ 26.00	\$ 2,114.00	\$ 600.00	\$	-	\$ 4,450

Grade and Shape	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Road Stations	36.32	1.26	28	6	70	
Cost/STA	\$ 24.83	\$ 24.83	\$ 24.83	\$ 24.83	\$ 18.35	
Subtotal	\$ 902.00	\$ 32.00	\$ 696.00	\$ 149.00	\$ 1,285.00	\$ 3,064

Move in Cost	Initial
D-7 Cat	\$ 1,500
Dump Truck	\$ 200
grader	\$ 500
excavator	\$ 1,500
vibratory roller	\$ 200
water truck	\$ 100
small excavator	\$ 500

Project Cost	\$ 139,674.00
Move In Cost	\$ 4,500
Total Cost	\$ 144,174.00

Due to rounding, the numbers in the table above may not add up to the totals shown.

Rocking and Processing

hicken	Rock Source:	Commercial

Stato Sta	0 72.00 0 11: Chicken Rd TOTAL 0 34.00 0 4.00 Chicken Rd TOTAL 0 4.00 0 1: Chicken Rd TOTAL 0 4.00 0 1: Chicken Rd TOTAL 0 4.00 0 1: Chicken Rd TOTAL	South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 1 11/2"-0" 20 10	0+00 to 6+00 3*-0* 6.00 20 120 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 3*-0*	28+00 0° 0° 00 560 r2 0 r2 00 00 r2	0+00 to 28+00 3"-0" 28.00 20 56 Spur 2 0 Spur 2 0 0.00	0+00 to 1+26 3*-0* 1.26 44 60 Spur 1 0 Spur 1 Pit Run 1.00 40	Extension 33+50 to 36+32 3*-0* 2.82 44 120 South Chicken 0 South Chicken	Extension 27+00 to 33+50 31-0" 6.50 33 210 South Chicken *3/4"-0" 6.5 17	Extension 0+00 to 27+00 3*0*0 27:00 33 890 South Chicken 1 1/2*-0* 11	Base Rock Sta to Sta Rock Size Stations Approx. vds./sta Subtotal base (cu. yds.) Cap Rock
Base Rock	0 72.00 0 1! Chicken Rd TOTAL 0 34.00 0 4.00 Chicken Rd TOTAL 0 4.00 0 1.00 Chicken Rd TOTAL 0 4.00 0 2.00 Chicken Rd TOTAL 0 5.00 Chicken Rd TOTAL 0 6.00 Chicken Rd TOTAL 0 7.00 Chicken Rd TOTAL	0 0 0	0+00 to 6+00 3*-0* 6.00 20 120 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 3*-0*	28+00 0° 0° 00 560 r2 0 r2 00 00 r2	0+00 to 28+00 3"-0" 28.00 20 56 Spur 2 0 Spur 2 0 0.00	0+00 to 1+26 3*-0* 1.26 44 60 Spur 1 0 Spur 1 Pit Run 1.00 40	Extension 33+50 to 36+32 3*-0* 2.82 44 120 South Chicken 0 South Chicken	Extension 27+00 to 33+50 31-0" 6.50 33 210 South Chicken *3/4"-0" 6.5 17	Extension 0+00 to 27+00 3*0*0 27:00 33 890 South Chicken 1 1/2*-0* 11	Sta to Sta Rock Size Stations Approx. vds./sta Subtotal base (cu. yds.) Cap Rock
Sta to Sta	0 72.00 0 1! Chicken Rd TOTAL 0 34.00 0 4.00 Chicken Rd TOTAL 0 4.00 0 1.00 Chicken Rd TOTAL 0 4.00 0 2.00 Chicken Rd TOTAL 0 5.00 Chicken Rd TOTAL 0 6.00 Chicken Rd TOTAL 0 7.00 Chicken Rd TOTAL	0 0 0	0+00 to 6+00 3*-0* 6.00 20 120 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 3*-0*	28+00 0° 0° 00 560 r2 0 r2 00 00 r2	0+00 to 28+00 3"-0" 28.00 20 56 Spur 2 0 Spur 2 0 0.00	0+00 to 1+26 3*-0* 1.26 44 60 Spur 1 0 Spur 1 Pit Run 1.00 40	33+50 to 36+32 3*-0* 2.82 44 120 South Chicken 0	27+00 to 33+50 3"-0" 6.50 33 210 South Chicken "3/4"-0" 6.5 17	0+00 to 27+00 3"-0" 27.00 33 890 South Chicken 1 1/2"-0" 27	Sta to Sta Rock Size Stations Approx. vds./sta Subtotal base (cu. yds.) Cap Rock
Rock Size 3'-0'	72.00 0 1: Chicken Rd TOTAL 0 34.00 Chicken Rd TOTAL 0 4.00 Chicken Rd TOTAL 0 1.2*-0* 20 10 200	South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 1 11/2"-0" 20 10	3"-0" 6.00 20 120 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 0.00 0 Spur 2a 0 0.00	0" 00 00 560 r2 0 r2 0 r2 0 r2 0 r2	3".0" 28.00 20 56 Spur 2 0 Spur 2 0 0.00 Spur 2	3"-0" 1.26 44 60 Spur 1 0 Spur 1 Pit Run 1.00 40	3"-0" 2.82 44 120 South Chicken 0 0 South Chicken	3*-0" 6.50 33 210 South Chicken *3/4*-0" 6.5 17	3"-0" 27.00 33 890 South Chicken 1 1/2"-0" 27	Rock Size Stations Approx. yds/sta Subtotal base (cu. yds.) Cap Rock
Rock Size 3'-0'	72.00 0 1: Chicken Rd TOTAL 0 34.00 Chicken Rd TOTAL 0 4.00 Chicken Rd TOTAL 0 1.2*-0* 20 10 200	South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 1 11/2"-0" 20 10	3"-0" 6.00 20 120 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 0.00 0 Spur 2a 0 0.00	0" 00 00 560 r2 0 r2 0 r2 0 r2 0 r2	3".0" 28.00 20 56 Spur 2 0 Spur 2 0 0.00 Spur 2	3"-0" 1.26 44 60 Spur 1 0 Spur 1 Pit Run 1.00 40	3"-0" 2.82 44 120 South Chicken 0 0 South Chicken	3*-0" 6.50 33 210 South Chicken *3/4*-0" 6.5 17	3"-0" 27.00 33 890 South Chicken 1 1/2"-0" 27	Rock Size Stations Approx. yds/sta Subtotal base (cu. yds.) Cap Rock
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Subtotal base (cu. yds.) 890	O 11: Chicken Rd TOTAL O 34.00 O 4.00 Chicken Rd TOTAL O 4.00 O 1.00 Chicken Rd TOTAL O 2.00 Chicken Rd TOTAL O 34.00 O 2.00 Chicken Rd TOTAL O 34.00	South Chicken Rd O South Chicken Rd O South Chicken Rd O South Chicken Rd O 1 1/2"-0" 20 10	20 120 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 0.00 Spur 2a 0 3"-0"	0 560 r 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 56 Spur 2 0 Spur 2 0 0.00	44 60 Spur 1 0 Spur 1 Pit Run 1.00 40	44 120 South Chicken 0 0 South Chicken	33 210 South Chicken *3/4"-0" 6.5 17 110	33 890 South Chicken 1 1/2"-0" 27 11	Approx. yds./sta Subtotal base (cu. yds.) Cap Rock
Subtotal base (cu. yds.) 890 210 120 60 560 120	Chicken Rd TOTAL 0 34.00 Chicken Rd TOTAL 0 4.00 Chicken Rd TOTAL 0 10 Chicken Rd TOTAL 0 20 102*-0* 200 ck Type p Rap	South Chicken Rd O South Chicken Rd O South Chicken Rd O South Chicken Rd O 1 1/2"-0" 20 10	Spur 2a 0 Spur 2a 0 Spur 2a 0 0.00 Spur 2a 0 0.00 O Spur 2a 0 3"-0"	7 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Spur 2 0 Spur 2 0 0.00	Spur 1 0 Spur 1 Pit Run 1.00 40	South Chicken 0 0 South Chicken	210 South Chicken *3/4"-0" 6.5 17	890 South Chicken 1 1/2"-0" 27 11	Subtotal base (cu. yds.) Cap Rock
Cap Rock	Chicken Rd TOTAL 0 34.00 Chicken Rd TOTAL 0 4.00 Chicken Rd TOTAL 0 10 Chicken Rd TOTAL 0 20 102*-0* 200 ck Type p Rap	South Chicken Rd O South Chicken Rd O South Chicken Rd O South Chicken Rd O 1 1/2"-0" 20 10	Spur 2a 0 Spur 2a 0 0 Spur 2a 0 0.00 Spur 2a 0 3"-0"	r 2 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Spur 2 0 Spur 2 0 0.00	Spur 1 0 Spur 1 Pit Run 1.00 40	South Chicken 0 0 South Chicken	South Chicken *3/4"-0" 6.5 17	South Chicken 1 1/2"-0" 27 11	Cap Rock
Rock Size	0 34.00 0 1	South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 1 11/2"-0" 20 10	0 Spur 2a 0 0.00 Spur 2a 0 3"-0"	0 r 2 0 0 r 2 0 0 r 2 0 0 r 2 0 0 r 2 0 0 0 r 2 0 0 r 2 0 0 r 2 0 0 0 0 0 0 0 0 0	Spur 2 0 0.00	0 0 Spur 1 Pit Run 1.00 40	0 0 South Chicken	*3/4"-0" 6.5 17	1 1/2"-0" 27 11	
Rock Size	0 34.00 0 1	South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 1 11/2"-0" 20 10	0 Spur 2a 0 0.00 Spur 2a 0 3"-0"	0 r 2 0 0 r 2 0 0 r 2 0 0 r 2 0 0 r 2 0 0 0 r 2 0 0 r 2 0 0 r 2 0 0 0 0 0 0 0 0 0	Spur 2 0 0.00	0 0 Spur 1 Pit Run 1.00 40	0 0 South Chicken	*3/4"-0" 6.5 17	1 1/2"-0" 27 11	
Stations	34.00 Chicken Rd O 4.00 Chicken Rd TOTAL O 10 Chicken Rd TOTAL O 1/2*-0* 20 10 200 ck Type p Rap	South Chicken Rd 0 South Chicken Rd 0 South Chicken Rd 0 111/2"-0" 20 10	Spur 2a 0 0.00 0 Spur 2a 0	0 r 2 r 2 r 2 r 2 r 2 r 2 r 2 r 2 r 2 r	Spur 2 0 0.00	Spur 1 Pit Run 1.00 40	0 South Chicken	6.5 17 110	27 11	Pock Size
Approx. yds./sla	0	South Chicken Rd 0 South Chicken Rd 0 1 11/2*-0" 20 10	Spur 2a 0 0.00 0 Spur 2a 0	r 2 00 00 r 2 0"	Spur 2 0 0.00	Spur 1 Pit Run 1.00 40	South Chicken	17 110	11	
Subtotal cap (cu. yds.) 300	Chicken Rd	South Chicken Rd 0 South Chicken Rd 0 1 11/2*-0" 20 10	Spur 2a 0 0.00 0 Spur 2a 0	r 2 00 00 r 2 0"	Spur 2 0 0.00	Spur 1 Pit Run 1.00 40	South Chicken	110		
Landings	Chicken Rd	South Chicken Rd 0 South Chicken Rd 0 1 11/2*-0" 20 10	Spur 2a 0 0.00 0 Spur 2a 0	r 2 00 00 r 2 0"	Spur 2 0 0.00	Spur 1 Pit Run 1.00 40	South Chicken		300	
Landings	0	0 0 0 South Chicken Rd 0 0 1 1/2"-0" 20 10	0 0.00 0 Spur 2a 0 0	00 0 0 r 2 0"	0 0.00 Spur 2	Pit Run 1.00 40				Subtotal cap (cu. yus.)
Landings	0	0 0 0 South Chicken Rd 0 0 1 1/2"-0" 20 10	0 0.00 0 Spur 2a 0 0	00 0 0 r 2 0"	0 0.00 Spur 2	Pit Run 1.00 40		South Chicken	South Chicken	
Rock Size	0	0 0 0 South Chicken Rd 0 0 1 1/2"-0" 20 10	0 0.00 0 Spur 2a 0 0	00 0 0 r 2 0"	0 0.00 Spur 2	Pit Run 1.00 40				Landings
Stations	4.00 0 Chicken Rd TOTAL 0 1/2*-0* 20 10 200 ck Type ip Rap	South Chicken Rd 0 0 1 1/2"-0" 20 10	0.00 Spur 2a 0 3"-0"	00 0 r 2 0"	0.00 Spur 2	1.00 40				
Approx. vgds./sta	0 TOTAL 0 TOTAL 0 1/2"-0" 20 10 200 :sk Type ip Rap	South Chicken Rd 0 0 1 11/2"-0" 20 10	0 Spur 2a 0 0	0 r 2 0"	Spur 2	40		U		
Subtotal base (cu. yds.) 80	Chicken Rd 0 0 1/2*-0* 20 10 200 ck Type ip Rap	South Chicken Rd 0 0 1 11/2"-0" 20 10	Spur 2a 0 0 0 0 3"-0"	r 2 0"	Spur 2					
Additional Rock	Chicken Rd 0 0 1/2*-0* 20 10 200 ck Type ip Rap	South Chicken Rd 0 0 1 11/2"-0" 20 10	Spur 2a 0 0 0 0 3"-0"	r 2 0"	Spur 2					
Rock Size 3"-0" 0 3"-0" 0 3"-0" 0 1	0 0 1/2"-0" 20 10 200 sk Type ip Rap	0 0 1 1/2"-0" 20 10	0 3"-0"	0"		40	40	0	80	Subtotal base (cu. yds.)
Rock Size 3"-0" 0 3"-0" 0 3"-0" 0 1	0 0 1/2"-0" 20 10 200 sk Type ip Rap	0 0 1 1/2"-0" 20 10	0 3"-0"	0"						
Turnouts	0 11/2*-0* 20 10 200 ::	1 1/2"-0" 20	0 3"-0"		3"-0"					
Turnouts	1/2"-0" 20 10 200 :: k Type ip Rap	1 1/2"-0" 20 10	3"-0"			0	3"-0"	0	3"-0"	Rock Size
Turn around	1/2"-0" 20 10 200 :: k Type ip Rap	1 1/2"-0" 20 10	3"-0"		2		0		2	
Approx. cu. yds. 15	1/2"-0" 20 10 200 :: k Type ip Rap	1 1/2"-0" 20 10	3"-0"							
Subtotal Turnouts/Around (cu. yds.) 60 0 10 0 40 0 Rock Size	1/2"-0" 20 10 200 :: k Type ip Rap	1 1/2"-0" 20 10	3"-0")	20					
Rock Size	1/2"-0" 20 10 200 :: k Type ip Rap	1 1/2"-0" 20 10	3"-0"			^		^		
Number of Points	20 10 200 200 2k Type p Rap	20 10								
Curve Widening/Spot Rocking (Yds.) 160 0 0 0 120 70	10 200 :	10				U	U	U		
Subtotal Spot/Widening Rock 160 0 0 120 40	200 :							ļ		
Note: see curve widening sheet for each horizontal curve	ck Type ip Rap	200								
Rock Type	ip Rap		40	120) 12	0	0	0		
Rock Size	ip Rap								orizontal curve	Note: see curve widening sheet for each ho
Rock Size	ip Rap									
ROCK COST (Rock + Delivery) 20 20 30 60		Rock Type	Rock Type	Туре	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	
ROCK COST (Rock + Delivery) Road Segment/Name Extension South Chicken Extension South Chicken Extension Spur 1 Spur 2 Spur 2a South Chicken Extension Rock Size 3"-0"		Rip Rap	Rip Rap	Run	Pit Run	Rip Rap	Rip Rap	Pit Run	Pit Run	Rock Size
ROCK COST (Rock + Delivery) Road Segment/Name South Chicken Extension South Chicken Extension South Chicken Extension Spur 1 Spur 2 Spur 2a South Chicken Extension Rock Size 3*-0*	•)	60	30	3			20	20	Approx. Total (cu. Yds.)
Road Segment/Name Extension Extension Extension Extension Extension Spur 1 Spur 2 Spur 2a South Chicken Extension Spur 3*-0" 3*-0"						Į.	L. L			11
Road Segment/Name										POCK COST
Road Segment/Name Extension Extension Spur 1 Spur 2 Spur 2a South C Rock Size 3"-0"					1		0 " 01 1	0 4 01 1		ROCK COST (ROCK + Del
Rock Size 3*-0"				_						
Approx. cu. yds. 890 210 120 60 560 120		South Chicken Rd								
Cost/yd. (includes load/spread) \$26.48	0									
Subtotal Cost "Base" Rock \$ 23,571 \$ 5,562 \$ 3,178 \$ 1,589 \$ 14,831 \$ 3,178 \$ Rock Size 1 1/2"-0" *3/4"-0" 0	0 1960	0	120	0	560	60	120	210	890	Approx. cu. yds.
Rock Size	\$0.00	\$0.00	\$26.48	\$26.48	\$26.48	\$26.48	\$26.48	\$26.48	\$26.48	Cost/yd. (includes load/spread)
Rock Size	- \$ 51,9	\$ -	3,178	14,831	\$ 14,831	\$ 1,589	\$ 3,178	\$ 5,562	\$ 23,571	Subtotal Cost "Base" Rock
Approx. cu. yds. 300 110 0 0 0 0 Cost/yd. (includes load/spread) \$26.89 \$27.16 \$0.00 \$0.00 \$0.00 \$0.00					•					
Approx. cu. yds. 300 110 0 0 0 0 Cost/yd. (includes load/spread) \$26.89 \$27.16 \$0.00 \$0.00 \$0.00 \$0.00	0	0	n		n	Λ	0	*3/4"-0"	1 1/2"-0"	Rock Size
Cost/yd. (includes load/spread) \$26.89 \$27.16 \$0.00 \$0.00 \$0.00 \$0.00	0 410									
	\$0.00									
Subidial Cost Cap Nock \$ 0,007 \$ 2,307 \$ - \$ - \$ - \$ - \$	- \$ 11,0									
	- \$ 11,0		-	-	-	· -		\$ 2,90 <i>1</i>	\$ 0,007	Subtotal Cost Cap Rock
Rock Size 3"-0" 0 3"-0" 0 3"-0" 0	0	Ι ο	0	0"	3" 0"	0	2" N"	0	3" 0"	Pook Sizo
	0 110									
Cost/yd. (includes load/spread) \$26.48 \$0.00 \$26.48 \$0.00 \$26.48 \$0.00	\$0.00									
Subtotal \$1,589.04 \$0.00 \$264.84 \$0.00 \$1,059.36 \$0.00	\$0.00									
		1 1/2"-0"								
Approx. cu. Yds. Spot/Widening 160 0 0 120 40 2	200 520	200	40	.0	120	0	0	0	160	Approx. cu. Yds. Spot/Widening
Cost/yd. (includes load/spread) \$26.89 \$0.00 \$0.00 \$0.00 \$26.48 \$26.48	\$26.89	\$26.89	\$26.48	\$26.48	\$26.48	\$0.00	\$0.00	\$0.00	\$26.89	
	\$5.377.80									
		Rock Type								
	0 130									
	\$46.73									
Subtotal \$934.68 \$934.68 \$0.00 \$1,402.02 \$2,804.04	\$0.00									
Subtotal Cost "Additional" Rock \$ 6,826 \$ 935 \$ 265 \$ - \$ 5,639 \$ 3,863 \$	5,378 \$ 22,9	\$ 5,378	3,863	5,639	\$ 5,639	\$ -	\$ 265	\$ 935	\$ 6,826	Subtotal Cost "Additional" Rock
					1.2					
	-									
	0 160									
Cost/yd. (includes load/spread) \$25.13 \$0.00 \$25.13 \$0.00 \$0.00	\$0.00									
Subtotal Cost "Landing" Rock \$ 2,011 \$ - \$ 1,005 \$ - \$ - \$	- \$ 4,0					\$ 1,005				Subtotal Cost "Landing" Rock
Grand total quarry approx. yds. 1510 340 170 100 750 220 2	200 3290	200	220	0	750	100	170	340	1510	Grand total quarry approx, vds.
Total Quarry Rock Cost \$ 40,474 \$ 9,484 \$ 4,448 \$ 2,594 \$ 20,471 \$ 7,041 \$	5,378 \$ 89,8									
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Note: Assist Vehicle Cost is reflected in the processing cost.									nrocessing cost	Note: Assist Vehicle Cost is reflected in the
			2 2	0 0		<u> </u>	interes First	Objete E. C.		
Compaction w/Processing icken Extension Chicken Extension icken Extension Spur 1 Spur 2 Spur 2 Spur 2 Spur Ch	5.1	b # 01 · · · · · ·		Spur 2	Spur 2	Spur 1	icken Extension	Unicken Extension	icken Extension	Compaction w/Processing
Cost/Cu. Yd. \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	hicken Rd TOTAL	South Chicken Rd	Spur za	\$2.00	\$2.0	\$2.00	\$2.00	\$2.00	\$2.00	Cost/Cu. Yd.
	hicken Rd TOTAL \$2.00						1			
Truck/Equip. Assist Cost/Cu. Yd. \$6.70 \$6.70				,			\$6.70	\$6.70	1	
	\$2.00	\$2.00	\$2.00		+	-	•			
Subtotal Processing \$ 3,020 \$ 2,958 \$ 1,479 \$ 200 \$ 1,500 \$ 440 \$		\$2.00	\$2.00		\$ 1,500	\$ 200	\$ 1,479		\$ 3,020	Subtotal Processing
	\$2.00	\$2.00	\$2.00		\$ 1,500	\$ 200		\$ 2,958		Subtotal Processing
South Chicken South Chicken South Chicken	\$2.00 400 \$ 9,9	\$ 400	\$2.00	1,500			South Chicken	\$ 2,958 South Chicken	South Chicken	
South Chicken South Chicken South Chicken	\$2.00 400 \$ 9,9	\$2.00	\$2.00	1,500			South Chicken	\$ 2,958 South Chicken	South Chicken	
South Chicken South Chicken South Chicken	\$2.00 400 \$ 9,9	\$2.00 \$ 400 South Chicken Rd	\$2.00 \$ 440 Spur 2a	1,500	Spur 2	Spur 1	South Chicken Extension	\$ 2,958 South Chicken Extension	South Chicken Extension	\$/yd ³ rock in place & compacted

Move-in included in subgrade construction

Due to rounding, the numbers in the table above may not add up to the totals shown.

Cruise Report East Chicken

SALE # 341-18-68

Sale Area: Portions of Section 10, T17S, R8W, W.M., Lane County, Oregon. The sale's net harvestable acres are 77. There are approximately 5.8 acres of stream buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: East Chicken is dominated by 82 year old Douglas-fir, with a small component of bigleaf maple and red alder. The timber is non-thinned, tall, straight, and exhibits low defect. There are a few scattered other species such as western hemlock, western redcedar, chinquapin, madrone, and cascara. Western hemlock and western redcedar is reserved from cutting. The majority of the brush component is sword fern and salal, with scattered huckleberry. The rockier ridges contain huckleberry, rhododendron, and ceanothus. The slopes are mostly 65% or greater, broken by tributary streams.

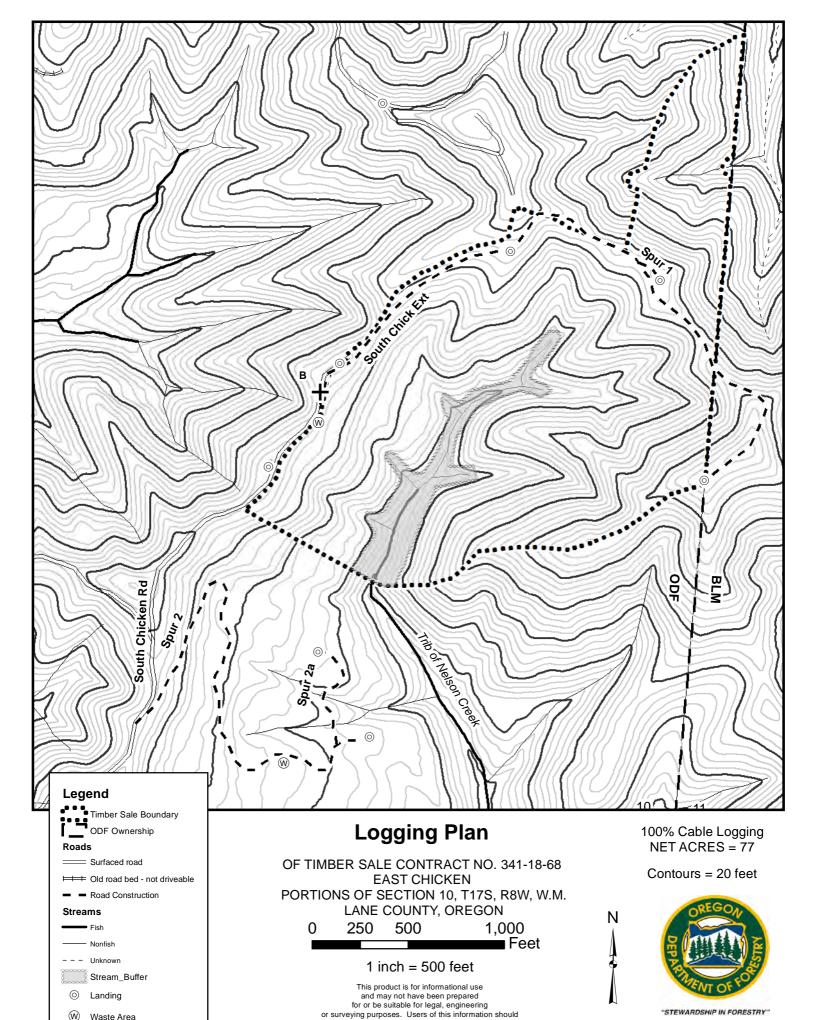
Cruise Method: Volumes were based on a combination of Stand Level Inventory (SLI) Data, and cut out volumes from adjacent sales.

Cruiser: Chad Howard

Net Calculated Volume

Species	Avg. DBH	SM (MBF)	2 Saw (MBF)	3 Saw (MBF)	4 Saw (MBF)	Camp Run (MBF)	Sub- Total (MBF)
Douglas-fir	18	138	2,503	1,034	106		3,781
Big Leaf Maple	12					50	50
Red Alder	11					30	30

East Chicken Total (MBF): 3,861 Average Volume per Acre (MBF): 50.14



review or consult the primary data and information sources to ascertain the usability of this information.

W Waste Area

"STEWARDSHIP IN FORESTRY"