



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Clear Creek  
Sale TL-341-2025-W00967-01

District: Tillamook

Date: May 10, 2024

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**Cost Summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$951,650.13	\$23,310.00	\$974,960.13
		<b>Project Work:</b>	(\$190,260.00)
		<b>Advertised Value:</b>	\$784,700.13



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### Timber Description

**Location:** PORTIONS OF SECTIONS 11, 13, 14 OF T1S R7W W.M TILLAMOOK COUNTY, OREGON

**Stand Stocking:** 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	100
Alder (Red)	16	0	100

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	1,156	1,621	0	2,777
Alder (Red)	0	0	210	210
<b>Total</b>	1,156	1,621	210	2,987

**Comments:**

Additional Costs – Clear Creek  
 Pond Values Used May 2024  
 Region: Astoria, Forest Grove, and Tillamook  
 Western red cedar and other cedars stumpage price = \$1,361/MBF - \$417/MBF = \$944/MBF  
 Western hemlock and other conifers stumpage price = \$550/MBF - \$417/MBF = \$133/MBF  
 Other Hardwoods at the Red alder stumpage price = = \$111/MBF  
 Pulp (Conifer and Hardwood) Price = \$2.50/Ton  
 FUEL COST ALLOWANCE = \$5.00/Gallon  
 HAULING COST ALLOWANCE (\$120.00/hr x 10 hr. = \$ 1,200.00) = \$1,200/DAY  
 BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

Other costs with profit and risk added:

TOTAL Other Costs with profit and risk to be added = \$NA

Other Costs with no Profit and Risk Added:

Slash piling and sorting (Cable Settings): \$5/ac x 97 ac. = \$485  
 Heliport Construction: \$200/unit x 2 unit = \$400  
 Move-in Machine Cleaning: \$1,000/machine x 2 machines x 1 season = \$2,000  
 Tail hold dozer move-in: \$1,000/machine x 2 machines = \$2,000

TOTAL Other Costs with no Profit and Risk added = \$4,885

ODF Road Maintenance

Spot Rocking: 20cy/MMBF/mile x 2.987 MMBF x \$12.00/cy x 10 miles /2,987 MBF = \$2.40/MBF  
 Interim Grading: \$1,150/mile x 10 miles x 1 times/ 2,987 MBF = \$3.85/MBF  
 Final Maintenance Grading: \$1,500/mile x 10 miles/ 2,987 MBF = \$5.02/MBF  
 Final Maintenance Compaction: \$1,000/mile x 4 miles/2,987 MBF = \$1.34/MBF  
 Total Road Maintenance: = \$12.61/MBF



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### Logging Conditions

**Combination#: 1**                      Douglas - Fir                      89.67%  
    Alder (Red)                      88.43%

**Logging System:** Cable: Large Tower >=70                      **Process:** Harvester Head Delimiting

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

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

**loads / day:** 9                      **bd. ft / load:** 4200

**cost / mbf:** \$226.96

**machines:** Log Loader (A)  
 Forwarder  
 Harvester  
 Tower Yarder (Large)

**Combination#: 2**                      Douglas - Fir                      10.33%  
    Alder (Red)                      11.57%

**Logging System:** Cable: Large Tower >=70                      **Process:** Harvester Head Delimiting

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

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

**loads / day:** 6                      **bd. ft / load:** 4200

**cost / mbf:** \$340.44

**machines:** Log Loader (A)  
 Forwarder  
 Harvester  
 Tower Yarder (Large)



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### Logging Costs

<b>Operating Seasons:</b> 2.00	<b>Profit Risk:</b> 3%
<b>Project Costs:</b> \$190,260.00	<b>Other Costs (P/R):</b> \$0.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$4,885.00

**Miles of Road**

**Road Maintenance:** \$12.61

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

**Hauling Costs**

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.3
Alder (Red)	\$0.00	3.0	3.3



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**Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$238.68	\$12.61	\$2.94	\$145.35	\$0.00	\$11.99	\$0.00	\$2.00	\$1.64	\$415.21
<b>Alder (Red)</b>									
\$240.09	\$12.61	\$2.94	\$126.26	\$0.00	\$11.46	\$0.00	\$2.00	\$1.64	\$397.00

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$757.90	\$342.69	\$0.00
Alder (Red)	\$0.00	\$508.00	\$111.00	\$0.00



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### Summary

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	2,777	\$342.69	\$951,650.13
Alder (Red)	210	\$111.00	\$23,310.00

**Gross Timber Sale Value**

Recovery: \$974,960.13

Prepared By: Sara McClendon

Phone: 503-815-7025



## PROJECT SUMMARY SHEET

Sale: Clear Creek

### CONSTRUCTION

Point	E to F	2+60	stations =	\$4,055.98
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$4,055.98</b>

### IMPROVEMENT

Point	A to B	317+25	stations =	\$26,036.84
Point	C to D	368+05	stations =	\$40,409.86
Point	I to J	9+30	stations =	\$12,819.98
<b>SUBTOTAL IMPROVEMENT</b>				<b>\$79,266.68</b>

### RECONSTRUCTION

Point	G to H	15+05	stations =	\$45,770.59
Point	K to L	10+55	stations =	\$24,296.64
<b>SUBTOTAL RECONSTRUCTION</b>				<b>\$70,067.23</b>

### SPECIAL PROJECTS

Brush	16.7	miles of road		\$16,700.00
Incidental Storm Damage Repairs				\$14,315.00
<b>SUBTOTAL SPECIAL PROJECTS</b>				<b>\$31,015.00</b>

**MOVE IN** **\$5,855.11**

**GRAND TOTAL** **\$190,260.00**

## SUMMARY OF CONSTRUCTION COST

Sale: **Clear Creek** Road: **A to B**

Construction -	0+00	stations	Improvement -	317+25	stations	Reconstruction -	0+00	stations
	0.00	miles		6.01	miles		0.00	miles

### CULVERTS - MATERIALS & INSTALLATION

#### Culverts

90 LF of 24" \$3,442.50  
80 LF of 48" \$14,648.46

#### Culvert Stakes & Markers

5 markers \$45.00

**TOTAL CULVERTS \$18,135.96**

### ROCK

Culvert Backfill	5 Locations	100	cy. of	Crushed	@	\$8.83 per c.y.=	\$883.00
Spot Rock	104+05 to 111+10	30	cy. of	Crushed	@	\$10.21 per c.y.=	\$306.30
Spot Rock	As Directed	300	cy. of	Crushed	@	\$8.22 per c.y.=	\$2,466.00
Energy Dissipator/Fill Armo	5 Locations	30	cy. of	Riprap	@	\$12.52 per c.y.=	\$375.60
Ditch Fill Subgrade	104+05 to 111+10	40	cy. of	Pit-Run	@	\$11.94 per c.y.=	\$477.60
Ditch Fill Surfacing	104+05 to 111+10	40	cy. of	Crushed	@	\$10.15 per c.y.=	\$406.00

**TOTAL ROCK \$4,914.50**

### SPECIAL PROJECTS

Waste area maintenance @ 45+70 -	4.00	hours @	\$185.00	per hour	\$740.00
Pull ditch and endhaul waste material 104+05 to 111+10 -	2.00	stations @	\$145.00	per station	\$290.00
Clean ditch and bank slough and endhaul waste material 105+65 to 107+15 -	4.00	hours @	\$280.00	per hour	\$1,120.00
Grade and shape road 104+05 to 111+10 -	2.00	stations @	\$24.40	per station	\$48.80
Remove culverts from state lands	5.00	@	\$691.70	total	\$691.70
Grass seed and fertilize -	0.10	acres @	\$310.00	per acre	\$31.00
Mulching -	0.075	acres @	\$865.00	per acre	\$64.88

**TOTAL SPECIAL PROJECTS \$2,986.38**

**GRAND TOTAL \$26,036.84**

## SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Road: C to D

Construction -	0+00	stations	Improvement -	368+05	stations	Reconstruction -	0+00	stations
	0.00	miles		6.97	miles		0.00	miles

**IMPROVEMENT: CLEARING AND GRUBBING -**

Widening	0.033	acres @	\$955.00	per acre =	\$31.52	
<b>TOTAL CLEARING AND GRUBBING</b>						<b>\$31.52</b>

**IMPROVEMENT: EXCAVATION -**

Widening	176	cy. @	\$3.30	per c.y.=	\$580.80	
<b>TOTAL EXCAVATION</b>						<b>\$580.80</b>

**IMPROVEMENT: ENDBHAUL -**

Widening	187+30	to	190+20	176	cy. @	\$1.91	per c.y.=	\$336.16	
Spread & compact				176	cy. @	\$0.55	per c.y.=	\$96.80	
<b>TOTAL ENDBHAUL</b>									<b>\$432.96</b>

**CULVERTS - MATERIALS & INSTALLATION**

Culverts

30 LF of 24" \$1,147.50

Culvert Stakes & Markers

19 markers \$171.00

**TOTAL CULVERTS \$1,318.50**

**ROCK**

0+00 to	79+30	1,790	cy. of	Crushed	@	\$7.06	per c.y.=	\$12,637.40	
155+55 to	213+90	1,270	cy. of	Crushed	@	\$10.55	per c.y.=	\$13,398.50	
Culvert Backfill	44+40	20	cy. of	Crushed	@	\$5.26	per c.y.=	\$105.20	
Turnaround Rock	182+10	80	cy. of	Pit-Run	@	\$11.86	per c.y.=	\$948.80	
Spot Rock	As Directed	500	cy. of	Crushed	@	\$10.11	per c.y.=	\$5,055.00	
Energy Dissipator	44+40	2	cy. of	Riprap	@	\$15.41	per c.y.=	\$30.82	
Road Widening Subgrade Rock	187+30 to 188+50	25	cy. of	Pit-Run	@	\$11.81	per c.y.=	\$295.25	
Road Widening Surfacing Rock	187+30 to 188+50	20	cy. of	Crushed	@	\$7.46	per c.y.=	\$149.20	
<b>TOTAL ROCK</b>									<b>\$32,620.17</b>

**SPECIAL PROJECTS**

Construct waste areas @ 121+00 & 125+00 -	4.00	hours @	\$220.00	per hour	\$880.00	
Construct loaded log truck turnaround @ 182+10 -	1.00	lump sum @	\$410.00		\$410.00	
Clean existing ditches, ditchouts, culverts and endhaul waste material -	4.00	hours @	\$280.00	per hour	\$1,120.00	
Grade and shape road -	105.90	stations @	\$24.40	per station	\$2,583.96	
Remove culverts from state lands	1.00	@	\$396.70	total	\$396.70	
Grass seed and fertilize -	0.03	acres @	\$310.00	per acre	\$9.30	
Mulching -	0.030	acres @	\$865.00	per acre	\$25.95	
<b>TOTAL SPECIAL PROJECTS</b>						<b>\$5,425.91</b>

**GRAND TOTAL \$40,409.86**

## SUMMARY OF CONSTRUCTION COST

Sale: **Clear Creek** Road: **E to F**

Construction - $\frac{2+60}{0.05}$ stations miles	Improvement - $\frac{0+00}{0.00}$ stations miles	Reconstruction - $\frac{0+00}{0.00}$ stations miles
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**CONSTRUCTION:** CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	<u>Avg. Dist.</u> To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	
0+00		2+60	15%			\$165	=	\$429.00
								<b>TOTAL</b>
								<b>\$429.00</b>

ROCK	Station	to	Station	Avg. Sideslope	To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	
0+00 to			2+60	170	cy. of	Pitrun	@	\$12.53 per c.y.=	\$2,130.10
Landing Rock			2+60	75	cy. of	Pit-Run	@	\$12.56 per c.y.=	\$942.00
								<b>TOTAL ROCK</b>	<b>\$3,072.10</b>

**SPECIAL PROJECTS**

Construct landing at Point F -	1.00	lump sum @	\$410.00		\$410.00
Grade and shape road -	2.60	stations @	\$24.40	per station	\$63.44
Roll subgrade w/ vibratory roller prior to rocking -	2.60	stations @	\$19.40	per station	\$50.44
Grass seed and fertilize -	0.10	acres @	\$310.00	per acre	\$31.00
					<b>TOTAL SPECIAL PROJECTS</b>
					<b>\$554.88</b>

**GRAND TOTAL** **\$4,055.98**

## SUMMARY OF CONSTRUCTION COST

Sale: **Clear Creek** Road: **G to H**

<b>Construction -</b>	0+00	stations	<b>Improvement -</b>	0+00	stations	<b>Reconstruction -</b>	15+05	stations
	0.00	miles		0.00	miles		0.29	miles

**RECONSTRUCTION:** CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -  
 Road Earthwork 15.00 sta. @ \$1,680.00 per sta. = \$25,200.00  
**TOTAL EXCAVATION \$25,200.00**

**ROCK**

0+00 to 15+05	1,030	cy. of	Pitrun	@	\$12.54	per c.y.=	\$12,916.20
Landing Rock 4+45, 15+05	200	cy. of	Pit-Run	@	\$12.70	per c.y.=	\$2,540.00
Traction Rock As Directed	80	cy. of	Crushed	@	\$5.22	per c.y.=	\$417.60
Junction Rock 0+00	20	cy. of	Crushed	@	\$9.63	per c.y.=	\$192.60
							<b>TOTAL ROCK \$16,066.40</b>

**SPECIAL PROJECTS**

Grade and shape road -	15.05	stations @	\$24.40	per station	\$367.22
Roll subgrade w/ vibratory roller prior to rocking -	15.05	stations @	\$19.40	per station	\$291.97
Construct landing at 4+45 -	1.00	lump sum @	\$410.00		\$410.00
Construct landing at Point H -	1.00	lump sum @	\$3,280.00		\$3,280.00
Grass seed and fertilize -	0.50	acres @	\$310.00	per acre	\$155.00
					<b>TOTAL SPECIAL PROJECTS \$4,504.19</b>

**GRAND TOTAL** **\$45,770.59**

## SUMMARY OF CONSTRUCTION COST

Sale:

**Clear Creek**

Road:

**I to J**

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	9+30	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		0.18	miles		0.00	miles

**IMPROVEMENT: CLEARING AND GRUBBING -**

Widening	0.024	acres @	\$955.00	per acre =	\$22.92	
Scattering	0.170	acres @	\$1,415.00	per acre =	\$240.55	
<b>TOTAL CLEARING AND GRUBBING</b>						<b>\$263.47</b>

**IMPROVEMENT: EXCAVATION -**

Road Earthwork	9.30	sta. @	\$50.00	per sta. =	\$465.00	
Widening	51	cy. @	\$3.30	per c.y. =	\$168.30	
<b>TOTAL EXCAVATION</b>						<b>\$633.30</b>

**IMPROVEMENT: ENDHAUL -**

Widening	0+00	to	2+10	51	cy. @	\$1.27	per c.y. =	\$64.77
Spread & compact				51	cy. @	\$0.55	per c.y. =	\$28.05
<b>TOTAL ENDHAUL</b>								<b>\$92.82</b>

**ROCK**

0+00 to	9+30		640	cy. of	Pitrun	@	\$11.91	per c.y. =	\$7,622.40
Landing Rock	2+10, 10+55		175	cy. of	Pit-Run	@	\$12.01	per c.y. =	\$2,101.75
<b>TOTAL ROCK</b>									<b>\$9,724.15</b>

**SPECIAL PROJECTS**

Construct landings @ 2+10, Point J -	2.00	@	\$820.00	each	\$1,640.00	
Grade and shape road -	9.30	stations @	\$24.40	per station	\$226.92	
Roll subgrade w/ vibratory roller prior to rocking -	9.30	stations @	\$19.40	per station	\$180.42	
Grass seed and fertilize -	0.19	acres @	\$310.00	per acre	\$58.90	
<b>TOTAL SPECIAL PROJECTS</b>						<b>\$2,106.24</b>

**GRAND TOTAL** **\$12,819.98**

## SUMMARY OF CONSTRUCTION COST

Sale: **Clear Creek** Road: **K to L**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	10+55	stations
	0.00	miles		0.00	miles		0.20	miles

**RECONSTRUCTION: CLEARING AND GRUBBING -**  
 Scattering 0.290 acres @ \$1,415.00 per acre = \$410.35  
**TOTAL CLEARING AND GRUBBING \$410.35**

**RECONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -**  
 Road Earthwork 10.55 sta. @ \$1,096.00 per sta. = \$11,562.80  
**TOTAL EXCAVATION \$11,562.80**

**CULVERTS - MATERIALS & INSTALLATION**

<u>Culverts</u>	30	LF of 18"	\$757.50	
			\$757.50	
<u>Culvert Stakes &amp; Markers</u>	1	markers	\$9.00	
				<b>TOTAL CULVERTS \$766.50</b>

**ROCK**

0+00 to	10+55	730	cy. of	Pitrun	@	\$11.59 per c.y.=	\$8,460.70
Taction Rock	2+25 to 5+00	30	cy. of	Crushed	@	\$7.91 per c.y.=	\$237.30
Landing Rock	10+55	100	cy. of	Pit-Run	@	\$11.70 per c.y.=	\$1,170.00
Culvert Backfill	0+00	20	cy. of	Crushed	@	\$8.28 per c.y.=	\$165.60
Junction Rock	0+00	20	cy. of	Crushed	@	\$9.63 per c.y.=	\$192.60
							<b>TOTAL ROCK \$10,226.20</b>

**SPECIAL PROJECTS**

Construct landing at Point L -	1.00	@	\$410.00	each	\$410.00
Grade and shape road -	10.55	stations @	\$24.40	per station	\$257.42
Roll subgrade w/ vibratory roller prior to rocking -	10.55	stations @	\$19.40	per station	\$204.67
Remove culverts from state lands	1.00	@	\$396.70	total	\$396.70
Grass seed and fertilize -	0.20	acres @	\$310.00	per acre	\$62.00
				<b>TOTAL SPECIAL PROJECTS</b>	<b>\$1,330.79</b>

**GRAND TOTAL** **\$24,296.64**

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	Sec. 24, T1S, R7W, W.M.
Sale:	<b>Clear Creek</b>	Road:	4240 c.y.
Swell:	1.40		
Shrinkage	1.16	Total Truck Loads:	4240 c.y.
Drill Pct.:	0%	In Place Total:	3029 c.y.

Load Dump Truck:	\$1.20	/cu.yd.	x	4240	cu.yds.	=	\$5,088.00
							Subtotal
							\$5,088.00

Move in Loader	1	@	\$858.86	=	\$858.86
					Subtotal
					\$858.86

Base Cost=	\$1.40	Per Cu.Yd.			<b>TOTAL PRODUCTION COSTS</b>	<b>\$5,946.86</b>
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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 Culvert Backfill (Crushed)	5.78	1.65	1.40	8.83	100	\$883.00
A to B Spot Rock (Crushed)	5.26	3.55	1.40	10.21	30	\$306.30
A to B Spot Rock (Crushed)	4.62	2.20	1.40	8.22	300	\$2,466.00
A to B Ditch Fill Surfacing (Crushed)	5.20	3.55	1.40	10.15	40	\$406.00
C to D 0 7930 (Crushed)	2.11	3.55	1.40	7.06	1790	\$12,637.40
C to D 15555 21390 (Crushed)	5.60	3.55	1.40	10.55	1270	\$13,398.50
C to D Culvert Backfill (Crushed)	2.21	1.65	1.40	5.26	20	\$105.20
C to D Spot Rock (Crushed)	5.16	3.55	1.40	10.11	500	\$5,055.00
C to D Road Widening Surfacing Rock (Crushed)	5.26	0.80	1.40	7.46	20	\$149.20
G to H Traction Rock (Crushed)	1.62	2.20	1.40	5.22	80	\$417.60
G to H Junction Rock (Crushed)	4.68	3.55	1.40	9.63	20	\$192.60
K to L Taction Rock (Crushed)	4.86	1.65	1.40	7.91	30	\$237.30
K to L Culvert Backfill (Crushed)	4.68	2.20	1.40	8.28	20	\$165.60
K to L Junction Rock (Crushed)	4.68	3.55	1.40	9.63	20	\$192.60
				Total C.Y.	4240	Sub Total
						\$36,612.30

<b>TOTAL ROCKING COSTS</b>	<b>\$36,612.30</b>
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## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pit_run	Location:	Sec. 15, 24, T1S, R7W, W.M.
Sale:	<b>Clear Creek</b>	Road:	3297 c.y.
Swell:	1.40		
Shrinkage:	1.16	Total Truck Loads:	3297 c.y.
Drill Pct.:	0%	In Place Total:	2355 c.y.

Rip Rock:	\$3.35	/cu.yd.	x	2355	cu.yds.	=	\$7,889.25
Push Rock:	\$1.20	/cu.yd.	x	3297	cu.yds.	=	\$3,956.40
Load Dump Truck:	\$1.20	/cu.yd.	x	3297	cu.yds.	=	\$3,956.40

Subtotal \$15,802.05

Move in Excavator	1	@	\$986.36	=	\$986.36
					Subtotal <span style="border-bottom: 1px solid black;">\$986.36</span>

Base Cost= \$5.09 Per Cu.Yd. TOTAL PRODUCTION COSTS \$16,788.41

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 Energy Dissipator/Fill Armor (Riprap)	5.78	1.65	5.09	12.52	30	\$375.60
A to B Ditch Fill Subgrade (Pit-Run)	5.20	1.65	5.09	11.94	40	\$477.60
C to D Turnaround Rock (Pit-Run)	5.12	1.65	5.09	11.86	80	\$948.80
C to D Energy Dissipator (Riprap)	8.12	2.20	5.09	15.41	2	\$30.82
C to D Road Widening Subgrade Rock (Pit-Run)	5.07	1.65	5.09	11.81	25	\$295.25
E to F 0 260 (Pitrun)	5.79	1.65	5.09	12.53	170	\$2,130.10
E to F Landing Rock (Pit-Run)	5.82	1.65	5.09	12.56	75	\$942.00
G to H 0 1505 (Pitrun)	5.80	1.65	5.09	12.54	1030	\$12,916.20
G to H Landing Rock (Pit-Run)	5.96	1.65	5.09	12.70	200	\$2,540.00
I to J 0 930 (Pitrun)	5.17	1.65	5.09	11.91	640	\$7,622.40
I to J Landing Rock (Pit-Run)	5.27	1.65	5.09	12.01	175	\$2,101.75
K to L 0 1055 (Pitrun)	4.85	1.65	5.09	11.59	730	\$8,460.70
K to L Landing Rock (Pit-Run)	4.96	1.65	5.09	11.70	100	\$1,170.00
				Total C.Y.	3297	Sub Total <span style="border-bottom: 1px solid black;">\$40,011.22</span>

TOTAL ROCKING COSTS \$40,011.22

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

Sale: Clear Creek

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
19.0	Pavement	30
5.5	Main Lines	7
5.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within	
								Area Cost	Total Cost
1	Brush Cutter	\$705.10		\$4.50	0.00	0.00	0	\$0.00	\$705.10
1	Graders	\$817.07		\$11.00	0.00	5.30	5.3	\$58.30	\$875.37
1	Rollers (smooth/grid) & Compactors	\$555.32		\$5.50	0.00	1.30	1.3	\$7.15	\$562.47
1	Excavators (Med.)	\$912.37		\$39.50	0.00	1.30	1.3	\$51.35	\$963.72
1	Excavators (Large)	\$986.36	1	\$50.00	0.00	1.30	1.3	\$65.00	\$1,051.36
1	Tractors (D7)	\$1,028.48	2	\$12.50	0.00	1.30	1.3	\$16.25	\$1,044.73
2	Dump Truck (10 cy +)	\$411.34		\$3.25	0.00	5.30	5.3	\$34.45	\$445.79
1	Water Truck (1500 Gal)	\$202.67		\$3.00	0.00	1.30	1.3	\$3.90	\$206.57
<b>TOTAL MOVE-IN COSTS:</b>									<b>\$5,855.11</b>



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Clear Creek*

### Type of Sale

Regeneration harvest, Recovery

### Legal Description

Sections 11, 13, and 14 of T1S R7W. Tillamook County, W.M.

### Sale Acreage

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

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	80	56
Unit 2 (Modified Clearcut)	67	41
<b>Total</b>	<b>147</b>	<b>97</b>

#### 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.

### Cruising Procedures

#### **A. Cruise Method**

The timber sale was cruised using variable plot sampling. The unit was cruised by ODF staff October to November 2023. All conifers 8” DBH and greater containing 20 board feet and all hardwoods 10” DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6” and 7” outside bark for conifers and hardwoods, respectively.

#### **B. Plot size**

Unit	BAF	Spacing (ft)
1	40.00	275 x 275
2	40.00	275 x 275

#### **C. Grading System**

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

**Computation Procedure**

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

Net sale acreage was used for volume calculation.

Unit	Cruise Statistics (Board Foot Volumes)			
	Acres	Number of Plots	SE (%)	CV (%)
1	56	25	5.5	27.1
2	41	19	8.5	36.0
Project Total	97	44	4.6	30.8

**Hidden Defect and Breakage**

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

**Timber Description**

All units were planted between 1967 and 1969.

Unit 1 is modified clearcut. The Unit is a Douglas-fir dominated stand with a minor component of Red Alder. Approximately 1.7 acres in the northeast section of Unit 1 was part of the Clear Creek Ridge Timber Sale in 2008.

Unit 2 is modified clearcut. The Unit is a Douglas-fir dominated stand with a minor component of Red Alder. Approximately 3 acres in the southwest section of unit 2 was part of the Clear Creek Ridge Timber Sale in 2008.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	54	Douglas-fir	15.4	62	5
		Red alder	15.0	51	6
2	56	Douglas-fir	14.5	68	5
		Red alder	17.0	60	6

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

**Cruiser /Dates**

ODF Staff Cruised; October - November 2023.

**Revenue Distribution**

BOF – 100%

Tax Code: 902 (100%)

Deed Number: 161

**Attachments**

Volume Summary Table

Stand Table

Log Stock Table

Species, Sort, Grade Table

Logging Plan

**Stand and Log Stock Tables Species Key**

DF – Douglas-fir- Cut

RA – Red alder- Cut

OC – Other Conifer- Leave

SL – Sitka Spruce- Leave

TC		TLOGSTVB		Log Stock Table - MBF																
				Unit 1					Clear Creek											
T01S R07W S14 T0100										T01S R07W S14 T0100										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees			Page	1									
01S	07W	14	45	0100	56.00	25	83			Date	11/30/2023									
										Time	12:52:03PM									
Spp	T	So	Gr	Log	Len	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
DF		CO	2	40		669		669	40.4				188	194	206	57	24			
DF		CO	3	40		650		650	39.3			56	199	345	50					
DF		CO	4	12		1		1	.0			1								
DF		CO	4	13		1		1	.0		1									
DF		CO	4	15		1		1	.0			1								
DF		CO	4	16		2		2	.1			2								
DF		CO	4	18		5		5	.3		5									
DF		CO	4	19		7		7	.4		7									
DF		CO	4	20		4		4	.2		4									
DF		CO	4	21		2		2	.1			2								
DF		CO	4	22		2		2	.1		2									
DF		CO	4	23		2		2	.1		2									
DF		CO	4	24		8		8	.5		8									
DF		CO	4	26		4		4	.2		4									
DF		CO	4	27		6	3.8	6	.4		2		2							
DF		CO	4	28		7		7	.5		2									
DF		CO	4	29		5		5	.3		5									
DF		CO	4	30		10		10	.6		10									
DF		CO	4	31		20		20	1.2		20									
DF		CO	4	32		19		19	1.2		19									
DF		CO	4	33		3		3	.2			3								
DF		CO	4	34		11		11	.7		11									
DF		CO	4	35		34		34	2.1		34									
DF		CO	4	36		5		5	.3		5									
DF		CO	4	38		11		11	.7		11									
DF		CO	4	40		167		167	10.1		98	69								
DF		Totals				1,656		1,655	94.5		253	133	202	347	238	194	206	57	24	
RA		H	3	40		27		27	28.7				11	16						
RA		H	4	13		2		2	2.5		2									
RA		H	4	14		3		3	2.9		3									
RA		H	4	18		1		1	1.3		1									
RA		H	4	20		8		8	8.3				8							
RA		H	4	22		3		3	3.3		3									
RA		H	4	29		3		3	3.3		3									
RA		H	4	30		7		7	7.4			7								
RA		H	4	34		8		8	8.4		8									
RA		H	4	40		32		32	33.9			22	9							
RA		Totals				94		94	5.3		20	29	21	23						
SL		CO	4	16		3		3	100.0		3									
SL		Totals				3		3	.2		3									
Total All Species						1,753		1,752	100.0		256	154	232	368	262	194	206	57	24	

<b>T01S R07W S14 T0100</b>									<b>T01S R07W S14 T0100</b>		
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>		
01S	07W	14	45	0100	56.00	25	83	S	W		

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	CO	2	40	11,955	11,955	669			68	32					100	40	14	329	1.84	36.3	
DF	CO	3	39	11,614	11,614	650			92	8					100	40	9	132	0.86	88.1	
DF	CO	4	21	.1	5,997	5,993	336	75	25				6	14	26	55	33	5	38	0.36	158.8
<b>DF</b>	<b>Totals</b>		94	.0	29,565	29,561	1,655	15	41	31	13		1	3	5	91	36	8	104	0.74	283.2
RA	H	3	28	480	480	27			42	58					100	40	12	191	1.19	2.5	
RA	H	4	72	1,194	1,194	67			88	12			21	20	12	48	28	7	59	0.65	20.2
<b>RA</b>	<b>Totals</b>		5	1,674	1,674	94			75	25			15	14	8	63	29	8	74	0.74	22.7
SL	CO	4	100	59	59	3			100						100	16	5	20	0.34	2.9	
<b>SL</b>	<b>Totals</b>		0	59	59	3			100						100	16	5	20	0.34	2.9	
<b>Type Totals</b>				.0	31,298	31,294	1,752	15	43	30	12		2	3	5	89	35	8	101	0.74	308.8

TC		TSTNDSUM											Stand Table Summary				
Unit 1													Clear Creek				
T01S R07W S14 T0100											T01S R07W S14 T0100						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees				Page:	1					
01S	07W	14	45	0100	56.00	25	83				Date:	11/30/2022					
											Time:	12:52:04PM					
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		8	1	79	90	9.619	3.36	9.62	9.7	40.0	2.66	93	385	149	52	22	
DF		9	3	81	81	22.801	10.07	22.80	11.1	40.0	7.20	253	912	403	141	51	
DF		10	4	81	72	24.625	13.43	18.47	11.4	36.7	5.99	210	677	336	118	38	
DF		11	1	82	58	5.088	3.36	5.09	13.0	40.0	1.88	66	204	105	37	11	
DF		12	2	84	82	8.550	6.72	12.83	13.9	50.0	5.09	179	641	285	100	36	
DF		13	4	85	57	14.571	13.43	14.57	17.0	50.0	7.05	247	729	395	139	41	
DF		14	3	84	93	9.423	10.07	18.85	17.3	63.3	9.29	326	1,194	520	182	67	
DF		15	6	88	97	16.417	20.15	32.83	20.4	81.7	19.06	669	2,681	1,067	374	150	
DF		16	4	85	100	9.619	13.43	19.24	24.1	93.7	13.22	464	1,804	740	260	101	
DF		17	9	86	93	19.172	30.22	34.08	27.1	106.2	26.33	924	3,621	1,475	517	203	
DF		18	3	88	101	5.700	10.07	11.40	31.4	121.7	10.22	358	1,387	572	201	78	
DF		19	6	87	100	10.232	20.15	22.17	31.9	117.7	20.17	708	2,609	1,130	396	146	
DF		20	3	86	71	4.617	10.07	7.70	35.3	104.0	7.73	271	800	433	152	45	
DF		21	5	89	103	6.980	16.79	15.36	40.2	161.8	17.61	618	2,485	986	346	139	
DF		22	2	89	110	2.544	6.72	5.09	50.6	210.0	7.33	257	1,068	411	144	60	
DF		23	4	88	94	4.655	13.43	9.31	45.0	195.0	11.93	419	1,815	668	234	102	
DF		24	1	86	75	1.069	3.36	2.14	46.8	160.0	2.85	100	342	160	56	19	
DF		25	4	86	115	3.940	13.43	9.85	54.6	228.0	15.34	538	2,246	859	301	126	
DF		27	2	84	121	1.689	6.72	4.22	67.2	278.0	8.09	284	1,174	453	159	66	
DF		28	1	80	136	.785	3.36	2.36	65.8	273.3	4.42	155	644	248	87	36	
DF		30	1	84	142	.684	3.36	2.05	78.7	376.7	4.60	161	773	258	90	43	
DF		31	1	92	118	.641	3.36	1.92	75.1	366.7	4.11	144	705	230	81	39	
DF		38	1	80	135	.426	3.36	1.28	117.2	520.0	4.27	150	665	239	84	37	
DF		Totals	71	84	87	183.849	238.40	283.21	26.8	104.4	216.46	7,595	29,561	12,122	4,253	1,655	
RA		12	1	78	58	2.801	2.20	2.80	16.7	50.0	1.29	47	140	72	26	8	
RA		13	1	85	86	2.387	2.20	4.77	14.6	55.0	1.92	70	263	107	39	15	
RA		14	2	80	71	4.116	4.40	6.17	18.5	56.7	3.14	114	350	176	64	20	
RA		17	2	85	85	2.791	4.40	5.58	23.4	95.0	3.59	131	530	201	73	30	
RA		19	2	84	69	2.235	4.40	3.35	36.9	116.7	3.40	124	391	190	69	22	
RA		Totals	8	82	73	14.330	17.60	22.68	21.4	73.8	13.34	485	1,674	747	272	94	
SL		10	1	66	21	2.934	1.60	2.93	5.5	20.0	.42	16	59	23	9	3	
SL		Totals	1	66	21	2.934	1.60	2.93	5.5	20.0	0.42	16	59	23	9	3	
OC		16	1	80	61	2.292	3.20										
OC		21	1	82	33	1.330	3.20										
OC		Totals	2	81	51	3.622	6.40										
Totals			82	84	84	204.734	264.00	308.83	26.2	101.3	230.21	8096	31,294	12,892	4,534	1,752	

**Log Stock Table - MBF**  
**Unit 2 Clear Creek**

T01S R07W S14 T0100

T01S R07W S14 T0100

Twp Rge Sec Tract Type Acres Plots Sample Trees Page  
 01S 07W 14 46 0100 41.00 19 77 Date 11/30/2023  
 Time 1:09:29PM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
DF		CO	2		30	11		11	1.0					11						
DF		CO	2		40	518		518	43.9					79	177	171	71	20		
DF		CO	3		30	1		1	.1											
DF		CO	3		31	2		2	.1											
DF		CO	3		32	2		2	.1											
DF		CO	3		40	344		344	29.1											
DF		CO	4		14	2		2	.2		2									
DF		CO	4		15	5		5	.4			5								
DF		CO	4		16	1		1	.1		1									
DF		CO	4		17	3		3	.3		1	1	1							
DF		CO	4		18	3		3	.2		2	1								
DF		CO	4		23	1		1	.1		1									
DF		CO	4		24	1		1	.1			1								
DF		CO	4		25	4		4	.3		4									
DF		CO	4		27	7		7	.6		6	1								
DF		CO	4		28	4		4	.3		4									
DF		CO	4		30	7		7	.6		4	2								
DF		CO	4		31	9		9	.8		9									
DF		CO	4		32	3		3	.3		2	2								
DF		CO	4		33	8		8	.7		8									
DF		CO	4		34	4		4	.4		4									
DF		CO	4		35	16		16	1.4		16									
DF		CO	4		40	223		223	19.0		84	92	47							
DF		Totals				1,179		1,179	90.4		148	130	164	193	105	177	171	71	20	
RA		CO	3		40	26		26	20.9				26							
RA		CO	4		22	4		4	3.5		4									
RA		H	3		40	19		19	15.1				19							
RA		H	4		18	8		8	6.3		8									
RA		H	4		27	3		3	2.5		3									
RA		H	4		40	65		65	51.6		21	23		21						
RA		Totals				126		126	9.6		36	23	45	21						
Total All Species					1,304		1,304	100.0		148	166	187	238	126	177	171	71	20		

<b>T01S R07W S14 T0100</b>										<b>T01S R07W S14 T0100</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
01S	07W	14	46	0100	41.00	19	77	S	W					

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre					
								Net BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/Lf	
													4-5	6-11	12-16	17+	12-20	21-30	31-35						36-99
DF	CO	2	44	12,912		12,912	529				62	38		2		98		40	15	364	1.99	35.5			
DF	CO	3	30	8,489		8,489	348			96	4			0	1	99		40	9	130	0.82	65.4			
DF	CO	4	26	7,350		7,350	301	49	51					5	8	14	74	35	6	45	0.33	163.4			
<b>DF</b>	<b>Totals</b>		90	28,752		28,752	1,179	13	41	29	17			1	3	4	92	37	8	109	0.70	264.3			
RA	CO	3	20	641		641	26			100						100		40	11	180	1.03	3.6			
RA	CO	4	4	107		107	4			100						100		22	6	30	0.43	3.6			
RA	H	3	15	463		463	19			100						100		40	11	180	1.42	2.6			
RA	H	4	61	1,853		1,853	76	72	28				10	4		85		31	7	67	0.77	27.5			
<b>RA</b>	<b>Totals</b>		10	3,064		3,064	126	83	17				6	6		88		32	8	82	0.84	37.2			
<b>Type Totals</b>				31,815		31,815	1,304	11	45	28	15		2	3	3	92		36	8	106	0.72	301.5			

TC		TSTNDSUM											Stand Table Summary			
		Unit 2											Clear Creek			
T01S R07W S14 T0100											T01S R07W S14 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
01S	07W	14	46	0100	41.00	19	77	Date:	11/30/2022							
								Time:	1:09:30PM							
Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits
DF		8	5	84	98	39.025	13.62	39.03	9.2	40.0	10.21	358	1,561	419	147	64
DF		9	3	90	94	18.501	8.17	18.50	8.8	46.7	4.65	163	863	191	67	35
DF		10	2	88	102	9.990	5.45	9.99	14.5	65.0	4.13	145	649	169	59	27
DF		11	2	82	72	8.257	5.45	8.26	14.8	40.0	3.48	122	330	143	50	14
DF		12	3	87	100	10.407	8.17	20.81	13.2	53.3	7.81	274	1,110	320	112	46
DF		13	3	87	96	8.867	8.17	14.78	16.3	62.0	6.86	241	916	281	99	38
DF		14	4	88	105	10.194	10.90	17.84	20.0	85.7	10.17	357	1,529	417	146	63
DF		15	3	86	111	6.660	8.17	13.32	23.2	93.3	8.80	309	1,243	361	127	51
DF		16	6	86	110	11.708	16.35	25.37	23.9	98.5	17.25	605	2,498	707	248	102
DF		17	5	85	107	8.642	13.62	19.01	26.6	101.8	14.41	506	1,936	591	207	79
DF		18	1	85	110	1.542	2.72	3.08	28.6	120.0	2.51	88	370	103	36	15
DF		19	2	88	94	2.767	5.45	5.53	33.8	120.0	5.33	187	664	219	77	27
DF		20	3	87	125	3.746	8.17	9.99	36.9	152.5	10.50	368	1,524	431	151	62
DF		21	3	82	129	3.398	8.17	9.06	39.4	157.5	10.18	357	1,427	417	146	59
DF		22	3	87	130	3.096	8.17	9.29	40.5	174.4	10.72	376	1,620	440	154	66
DF		23	6	86	109	5.666	16.35	14.16	46.0	188.7	18.55	651	2,672	761	267	110
DF		25	3	85	106	2.398	8.17	5.59	55.0	211.4	8.78	308	1,183	360	126	48
DF		26	3	88	142	2.217	8.17	6.65	60.0	285.6	11.37	399	1,899	466	164	78
DF		27	3	87	135	2.056	8.17	6.17	63.9	306.7	11.24	394	1,891	461	162	78
DF		28	1	88	137	.637	2.72	1.91	69.8	350.0	3.81	134	669	156	55	27
DF		29	2	84	123	1.188	5.45	2.97	78.6	340.0	6.65	233	1,010	273	96	41
DF		30	1	86	131	.555	2.72	1.67	68.8	310.0	3.27	115	516	134	47	21
DF		34	1	93	118	.432	2.72	1.30	93.3	516.7	3.45	121	670	141	50	27
DF		Totals	68	86	103	161.949	185.26	264.28	25.8	108.8	194.13	6,812	28,752	7,959	2,793	1,179
RA		12	1	74	120	7.148	5.61	14.30	14.0	45.0	5.49	200	643	225	82	26
RA		17	1	91	78	3.562	5.61	7.12	25.3	105.0	4.95	180	748	203	74	31
RA		18	1	77	57	3.177	5.61	3.18	46.4	90.0	4.05	147	286	166	60	12
RA		20	2	81	81	5.147	11.23	10.29	35.4	107.5	10.02	364	1,107	411	149	45
RA		21	1	78	76	2.334	5.61	2.33	40.4	120.0	2.59	94	280	106	39	11
RA		Totals	6	79	89	21.367	33.68	37.22	26.5	82.3	27.11	986	3,064	1,111	404	126
OC		13	1	79	45	2.284	2.11									
OC		17	1	71	33	1.336	2.11									
OC		25	1	82	50	.618	2.11									
OC		Totals	3	77	42	4.237	6.32									
Totals		77	85	100	187.553	225.26	301.51	25.9	105.5	221.24	7797	31,815	9,071	3,197	1,304	



"STEWARDSHIP IN FORESTRY"

# Volume Summary

## Clear Creek

<b>Unit 1-Modified Clearcut</b>				
56 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	29.56	1655	2%	1622
Hemlock		0	2%	0
Spruce		0	2%	0
Noble Fir		0	2%	0
Alder	1.67	94	4%	90
<b>TOTAL</b>	<b>31.23</b>	<b>1749.0</b>		<b>1712</b>

<b>Unit 2-Modified Clearcut</b>				
41 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	28.75	1179	2%	1155
Hemlock		0	2%	0
Spruce		0	2%	0
Noble Fir		0	2%	0
Alder	3.06	125	4%	120
<b>TOTAL</b>	<b>31.81</b>	<b>1304</b>		<b>1275</b>



"STEWARDSHIP IN FORESTRY"

## Volume Summary

### Clear Creek

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<b>TOTAL SALE VOLUME</b>		<b>97</b>	<b>acres</b>
<b>SPECIES</b>	<b>Cruised Net (MBF)</b>	<b>Net Sale (MBF)</b>	
Douglas-fir	2834	2777	
Hemlock	0	0	
Spruce	0	0	
Noble Fir	0	0	
Red Alder	219	210	
<b>TOTAL</b>	<b>3053</b>	<b>2987</b>	



- Legend**
- ◆ Corners
  - ⊙ Landing To Be Constructed
  - Cable Logging
  - Cable Logging
  - ▨ Riparian Buffer
  - ⊕ Green Tree Retention Area
  - ⊖ Riparian Boundary
  - Timber Sale Boundary
  - ⋯ Recreation Trail
  - == Surfaced Road
  - xxx Blocked Road
  - vvvv Abandoned Road
  - Type-F Stream
  - Type-N Stream
  - 200' Contour
  - 40' Contour
  - Sections

# LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2024-W00967-01  
 CLEAR CREEK  
 PORTIONS OF SECTIONS 11, 13 & 14, T1S R7W, W.M.  
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS  
 MARCH 2024

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



NET ACRES

1:12,000

1 inch = 1,000 feet



	GROUND	CABLE	TOTAL
UNIT 1	0	56	56
UNIT 2	0	41	41
<b>TOTAL</b>	<b>0</b>	<b>97</b>	<b>97</b>