



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bobcat Spur  
Sale TL-341-2026-W01150-01

District: Tillamook

Date: July 22, 2025

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$469,745.88	\$17,147.78	\$486,893.66
		Project Work:	(\$345,230.00)
		Advertised Value:	\$141,663.66



# Timber Sale Appraisal Bobcat Spur Sale TL-341-2026-W01150-01

**District: Tillamook**

**Date: July 22, 2025**

## Timber Description

**Location:** T1S R7W, Sections 20, 21, 29

**Stand Stocking:** 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	100
Western Hemlock / Fir	14	0	100
Alder (Red)	15	0	100

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	906	831	0	1,737
Western Hemlock / Fir	0	48	0	48
Alder (Red)	0	0	653	653
<b>Total</b>	906	879	653	2,438

**Comments:**

Additional Costs – Bobcat Spur  
 Pond Values Used: July 2025  
 Region: Astoria, Forest Grove, and Tillamook  
 Douglas fir stumpage  $\$267.96 \times .5 =$  PC and SC price =  $\$133.98/\text{MBF}$   
 Western red cedar and other cedars stumpage price =  $\$1,285/\text{MBF} - \$545.51/\text{MBF} = \$739.49/\text{MBF}$   
 Sitka Spruce and other spruce stumpage price =  $\$5.00/\text{MBF}$   
 Big Leaf Maple =  $\$5.00/\text{MBF}$   
 Pulp (Conifer and Hardwood) Price =  $\$2.50/\text{Ton}$   
  
 FUEL COST ALLOWANCE =  $\$5.00/\text{Gallon}$   
 HAULING COST ALLOWANCE ( $\$120.00/\text{hr} \times 10 \text{ hr.} = \$1,200.00$ ) =  $\$1,200/\text{DAY}$   
 BRAND AND PAINT ALLOWANCE =  $\$2.00/\text{MBF}$

**Other Costs without Profit and Risk Added:**

Move-in Machine Cleaning:  $\$1,000/\text{machine} \times 2 \text{ machines} \times 1 \text{ season} = \$4,000$   
 Tailhold OR guybacks dozer move-in:  $\$1,000/\text{machine} \times 2 \text{ machines} = \$2,000$   
 TOTAL Other Costs: (without Profit and Risk added) =  $\$6,000$

**ODF Road Maintenance**

Spot Rocking:  $20\text{cy}/\text{MMBF}/\text{mile} \times 2.438 \text{ MMBF} \times \$14.25/\text{cy} \times 10 \text{ miles}/2,438 \text{ MBF} = \$2.85/\text{MBF}$   
 Interim Grading:  $\$1,150/\text{mile} \times 10 \text{ miles} \times 1 \text{ times}/2,438 \text{ MBF} = \$4.71/\text{MBF}$   
 Final Maintenance Grading:  $\$1,500/\text{mile} \times 10 \text{ miles}/2,438 \text{ MBF} = \$6.15/\text{MBF}$   
 Final Maintenance Compaction:  $\$900/\text{mile} \times 6 \text{ miles}/2,438 \text{ MBF} = \$2.21/\text{MBF}$   
 TOTAL Road Maintenance: =  $\$15.92/\text{MBF}$

Slash piling and sorting (Cable Settings):  $\$10/\text{ac} \times 152 = \$1,520$



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**Logging Conditions**

**Combination#: 1**

Douglas - Fir	23.46%
Western Hemlock / Fir	24.62%
Alder (Red)	23.98%

**Logging System:** Shovel **Process:** Harvester Head Delimbing  
**yarding distance:** Short (400 ft) **downhill yarding:** No  
**tree size:** Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 12 **bd. ft / load:** 4100  
**cost / mbf:** \$203.25  
**machines:** Forwarder  
Harvester

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**Combination#: 2**

Douglas - Fir	27.00%
Western Hemlock / Fir	27.00%
Alder (Red)	27.00%

**Logging System:** Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing  
**yarding distance:** Medium (800 ft) **downhill yarding:** No  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 7 **bd. ft / load:** 4100  
**cost / mbf:** \$277.98  
**machines:** Log Loader (A)  
Forwarder  
Harvester  
Tower Yarder (Medium)

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**Combination#: 3**

Douglas - Fir	49.54%
Western Hemlock / Fir	48.38%
Alder (Red)	49.02%

**Logging System:** Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing  
**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:** 5 **bd. ft / load:** 4100  
**cost / mbf:** \$389.17  
**machines:** Log Loader (A)  
Forwarder  
Harvester  
Tower Yarder (Medium)

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### Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$345,230.00	Other Costs (P/R): \$0.00
Slash Disposal: \$1,520.00	Other Costs: \$6,000.00

Miles of Road

Road Maintenance: \$15.92

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	4.0
Western Hemlock / Fir	\$0.00	3.0	4.4
Alder (Red)	\$0.00	3.0	4.4



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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>									
\$315.53	\$15.92	\$3.60	\$156.25	\$0.00	\$49.13	\$0.62	\$2.00	\$2.46	\$545.51
<b>Western Hemlock / Fir</b>									
\$313.37	\$15.92	\$3.60	\$94.70	\$0.00	\$42.76	\$0.62	\$2.00	\$2.46	\$475.43
<b>Alder (Red)</b>									
\$314.56	\$15.92	\$3.60	\$94.70	\$0.00	\$42.88	\$0.62	\$2.00	\$2.46	\$476.74

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$813.47	\$267.96	\$0.00
Western Hemlock / Fir	\$0.00	\$565.00	\$89.57	\$0.00
Alder (Red)	\$0.00	\$503.00	\$26.26	\$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
Alder (Red)	0	\$0.00	\$0.00

### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,737	\$267.96	\$465,446.52
Western Hemlock / Fir	48	\$89.57	\$4,299.36
Alder (Red)	653	\$26.26	\$17,147.78

### Gross Timber Sale Value

Recovery: \$486,893.66

Prepared By: Matthew Travers

Phone: 503-815-7041



## PROJECT SUMMARY SHEET

Sale: Bobcat Spur

### CONSTRUCTION

Point	C to D	14+70	stations =	\$7,047.86
Point	G to H	17+70	stations =	\$36,307.79
Point	O to P	9+75	stations =	\$24,523.30
Point	S to T	2+40	stations =	\$7,547.22
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$75,426.17</b>

### IMPROVEMENT

Point	A to B	324+10	stations =	\$142,566.21
Point	E to F	12+00	stations =	\$10,551.95
Point	G to H	8+75	stations =	\$11,963.22
Point	I to J	2+25	stations =	\$2,578.75
Point	K to L	10+20	stations =	\$14,296.33
Point	M to N	1+30	stations =	\$5,157.94
Point	Q to R	68+70	stations =	\$28,863.82
<b>SUBTOTAL IMPROVEMENT</b>				<b>\$215,978.22</b>

### RECONSTRUCTION

Point	E to F	5+55	stations =	\$7,497.44
<b>SUBTOTAL RECONSTRUCTION</b>				<b>\$7,497.44</b>

### SPECIAL PROJECTS

Project 2 Stockpile Construction, 1,600 CY	\$28,240.00
Project 4 Brush 5.0 miles of road	\$5,825.00
Project 5 Incidental Storm Repairs	\$7,000.00

**SUBTOTAL SPECIAL PROJECTS** **\$41,065.00**

**MOVE IN (Project 6)** **\$5,263.17**

**GRAND TOTAL** **\$345,230.00**

# SUMMARY OF CONSTRUCTION COST

Sale:	<b>Bobcat Spur</b>				Road:	<b>A to B</b>			
<u>Construction -</u>		<u>0+00</u>	stations	<u>Improvement -</u>	<u>324+10</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
		<u>0.00</u>	miles		<u>6.14</u>	miles		<u>0.00</u>	miles
<b>IMPROVEMENT: EXCAVATION -</b>									
Clean Ditches, Ditchouts, Catch basins/Endhaul				100	Stations @	\$80.00	per sta. =	<u>\$8,000.00</u>	
<b>TOTAL EXCAVATION</b>									<b>\$8,000.00</b>
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>									
<u>Culverts</u>									
310 LF of 18"				\$7,827.50		170	LF of 24"	\$6,502.50	
						40	LF of 60"	\$15,093.71	
<u>Culvert Stakes &amp; Markers</u>									
35 markers				\$315.00					
<b>TOTAL CULVERTS</b>									<b>\$29,738.71</b>
<b>ROCK</b>									
169+50	to	281+75	2,520	cy. of	Crushed	@	\$28.36	per c.y.=	\$71,467.20
Landing & Approach Rock			200	cy. of	Pit-Run	@	\$13.49	per c.y.=	\$2,698.00
Energy Dissipator 5CY ea. Cul. 1,2,3,7,8,10,13,15			45	cy. of	Riprap	@	\$18.57	per c.y.=	\$835.65
Culvert Backfill Cul. 1-3, 5-15			280	cy. of	Crushed	@	\$24.37	per c.y.=	\$6,823.60
Energy Dissipator & Armor Culvert 4			15	cy. of	Riprap	@	\$16.73	per c.y.=	\$250.95
Culvert Backfill Culvert 4			60	cy. of	Crushed	@	\$22.53	per c.y.=	\$1,351.80
Rock Ditch Filters 2CY ea. 126+80, 26+400			4	cy. of	Pit-Run	@	\$22.18	per c.y.=	\$88.72
Spot Rock As Directed			300	cy. of	Crushed	@	\$14.25	per c.y.=	\$4,275.00
<b>TOTAL ROCK</b>									<b>\$87,790.92</b>
<b>SPECIAL PROJECTS</b>									
Re-shape dented culvert inlet -				1.00	hours @	\$45.00	per hour	\$45.00	
Construct waste areas -				2.00	hours @	\$220.00	per hour	\$440.00	
Construct Landing at 229+50				1.00	each @	\$500.00	each	\$500.00	
Construct Approach				1.00	each @	\$145.00	per hour	\$145.00	
Flume Removal				2.00	each @	\$25.00	per hour	\$50.00	
Grade and shape road -				324.10	stations @	\$24.40	per station	\$7,908.04	
Roll subgrade w/ vibratory roller prior to rocking -				324.10	stations @	\$19.40	per station	\$6,287.54	
Remove culverts from state lands				16.00	@	\$1,596.00	total	\$1,596.00	
Grass seed and fertilize -				0.05	acres @	\$400.00	per acre	\$20.00	
Mulching -				0.050	acres @	\$900.00	per acre	\$45.00	
<b>TOTAL SPECIAL PROJECTS</b>									<b>\$17,036.58</b>
<b>GRAND TOTAL</b>									<b>\$142,566.21</b>



SUMMARY OF CONSTRUCTION COST

Sale:		Bobcat Spur				Road:		C to D			
Construction -		14+70	stations	Improvement -		0+00	stations	Reconstruction -		0+00	stations
		0.28	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				
0+00			14+70	35%	0.0	Outslope	\$294	=		\$4,321.80	
										TOTAL	\$4,321.80
CULVERTS - MATERIALS & INSTALLATION											
				Culverts							
				30	LF of 18"	\$757.50					
				Culvert Stakes & Markers							
				1	markers	\$9.00					
										TOTAL CULVERTS	\$766.50
ROCK											
Junction Rock			0+00	30	cy. of	Pit-Run	@	\$16.81	per c.y.=	\$504.30	
Culvert Backfill			0+00	10	cy. of	Crushed	@	\$23.14	per c.y.=	\$231.40	
										TOTAL ROCK	\$735.70
SPECIAL PROJECTS											
Construct Landing at Point D						1.00	each @	\$500.00	per hour	\$500.00	
Grade and shape road -						14.70	stations @	\$24.40	per station	\$358.68	
Roll subgrade w/ vibratory roller						14.70	stations @	\$19.40	per station	\$285.18	
Grass seed and fertilize -						0.20	acres @	\$400.00	per acre	\$80.00	
										TOTAL SPECIAL PROJECTS	\$1,223.86
										GRAND TOTAL	\$7,047.86

## SUMMARY OF CONSTRUCTION COST

Sale: **Bobcat Spur**

Road: **E to F**

<u>Construction -</u>	<u>0+00</u>	<u>stations</u>	<u>Improvement -</u>	<u>12+00</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>5+55</u>	<u>stations</u>
	<u>0.00</u>	<u>miles</u>		<u>0.23</u>	<u>miles</u>		<u>0.11</u>	<u>miles</u>

**IMPROVEMENT:** CLEARING AND GRUBBING -

Scattering	0.110	acres	@	\$1,415.00	per acre =	\$155.65	
<b>TOTAL CLEARING AND GRUBBING</b>							<b>\$155.65</b>

**IMPROVEMENT:** EXCAVATION -

Road Earthwork	12.00	sta.	@	\$20.00	per sta. =	\$240.00	
<b>TOTAL EXCAVATION</b>							<b>\$240.00</b>

**RECONSTRUCTION:** CLEARING AND GRUBBING -

Scattering	0.410	acres	@	\$1,415.00	per acre =	\$580.15	
<b>TOTAL CLEARING AND GRUBBING</b>							<b>\$580.15</b>

**RECONSTRUCTION:** EXCAVATION -

Road Earthwork	5.55	sta.	@	\$400.00	per sta. =	\$2,220.00	
<b>TOTAL EXCAVATION</b>							<b>\$2,220.00</b>

**CULVERTS - MATERIALS & INSTALLATION**

Culverts

50 LF of 24" \$2,400.00

Culvert Stakes & Markers

1 markers \$9.00

**TOTAL CULVERTS \$2,409.00**

**ROCK**

12+00 to	17+55	460	cy. of	Pit-run	@	\$16.19	per c.y.=	\$7,447.40	
Culvert Backfill	13+25	40	cy. of	Crushed	@	\$25.52	per c.y.=	\$1,020.80	
Landing Rock	17+00	100	cy. of	Pit-Run	@	\$16.30	per c.y.=	\$1,630.00	
Junction Rock	0+00	30	cy. of	Crushed	@	\$26.89	per c.y.=	\$806.70	
<b>TOTAL ROCK</b>									<b>\$10,904.90</b>

**SPECIAL PROJECTS**

Construct Turnaround @ 10+80	1.00	each	@	\$90.00	per hour	\$90.00	
Construct waste areas -	1.00	hours	@	\$220.00	per hour	\$220.00	
Grade and shape road -	17.55	stations	@	\$24.40	per station	\$428.22	
Roll subgrade w/ vibratory roller prior to rocking -	17.55	stations	@	\$19.40	per station	\$340.47	
Construct Landing at 17+00	1.00	each	@	\$410.00	per hour	\$410.00	
Grass seed and fertilize -	0.06	acres	@	\$400.00	per acre	\$24.00	
Mulching -	0.03	acres	@	\$900.00	per acre	\$27.00	
<b>TOTAL SPECIAL PROJECTS</b>							<b>\$1,539.69</b>

**GRAND TOTAL**

**\$18,049.39**

## SUMMARY OF CONSTRUCTION COST

Sale: **Bobcat Spur**

Road: **G to H**

Construction -	17+70	stations	Improvement -	8+75	stations	Reconstruction -	0+00	stations
	0.34	miles		0.17	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			
8+75		25+90	50%		Outslope	\$706	=	\$12,107.90	
								<b>TOTAL</b>	<b>\$12,107.90</b>

### CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>									
	40	LF of 18"	\$1,010.00		30	LF of 24"	\$1,147.50		
	40	LF of 30"	\$2,000.00						
<u>Culvert Stakes &amp; Markers</u>									
	3	markers	\$27.00						
								<b>TOTAL CULVERTS</b>	<b>\$4,184.50</b>

### ROCK

8+75 to	26+45	1,350	cy. of	Pit-run	@	\$15.59 per c.y.=	\$21,046.50		
Culvert Backfill	0+40	20	cy. of	Crushed	@	\$25.58 per c.y.=	\$511.60		
Culvert Backfill	9+80	20	cy. of	Crushed	@	\$25.96 per c.y.=	\$519.20		
Culvert backfill	17+50	20	cy. of	Crushed	@	\$23.39 per c.y.=	\$467.80		
Junction Rock	0+00	30	cy. of	Crushed	@	\$27.47 per c.y.=	\$824.10		
Energy Dissipator	Culverts 18-20	15	cy. of	Riprap	@	\$20.16 per c.y.=	\$302.40		
Landing Rock	11+65	100	cy. of	Pit-Run	@	\$14.99 per c.y.=	\$1,499.00		
Landing Rock	19+65	100	cy. of	Pit-Run	@	\$15.31 per c.y.=	\$1,531.00		
Landing Rock	26+45	100	cy. of	Pit-Run	@	\$15.56 per c.y.=	\$1,556.00		
Spot Rock	As Directed	40	cy. of	Crushed	@	\$27.64 per c.y.=	\$1,105.60		
								<b>TOTAL ROCK</b>	<b>\$29,363.20</b>

### SPECIAL PROJECTS

Grade and shape road -	26.45	stations @	\$24.40	per station	\$645.38		
Construct truck turnaround @ 25+55	1.00	@	\$90.00	each	\$90.00		
Construct Landings @ 11+65, 19+65, and 26+45	3.00	@	\$410.00	each	\$1,230.00		
Roll subgrade w/ vibratory roller prior to rocking -	26.45	stations @	\$19.40	per station	\$513.13		
Grass seed and fertilize -	0.16	acres @	\$400.00	per acre	\$64.00		
Mulching -	0.081	acres @	\$900.00	per acre	\$72.90		
						<b>TOTAL SPECIAL PROJECTS</b>	<b>\$2,615.41</b>

**GRAND TOTAL** **\$48,271.01**

SUMMARY OF CONSTRUCTION COST

Sale:			Bobcat Spur			Road:			I to J								
Construction -			0+00		stations	Improvement -			2+25		stations	Reconstruction -			0+00		stations
			0.00		miles				0.04		miles				0.00		miles
<b>IMPROVEMENT: CLEARING AND GRUBBING -</b>																	
Scattering					0.100	acres	@	\$1,415.00		per acre =				\$141.50			
												<b>TOTAL CLEARING AND GRUBBING</b>			<b>\$141.50</b>		
<b>IMPROVEMENT: EXCAVATION -</b>																	
Road Earthwork					2.25	sta.	@	\$100.00		per sta. =				\$225.00			
												<b>TOTAL EXCAVATION</b>			<b>\$225.00</b>		
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>																	
			<u>Culverts</u>														
			30		LF of 18"		\$757.50										
			<u>Culvert Stakes &amp; Markers</u>														
			1		markers		\$9.00										
												<b>TOTAL CULVERTS</b>			<b>\$766.50</b>		
<b>ROCK</b>																	
Culvert Backfill			0+00		20	cy. of	Crushed	@		\$26.36		per c.y.=		\$527.20			
												<b>TOTAL ROCK</b>			<b>\$527.20</b>		
<b>SPECIAL PROJECTS</b>																	
Construct Landing @ Point J					1.00	each	@	\$820.00		each		\$820.00					
Grade and shape road -					2.25	stations	@	\$24.40		per station		\$54.90					
Roll subgrade w/ vibratory roller prior to rocking -					2.25	stations	@	\$19.40		per station		\$43.65					
												<b>TOTAL SPECIAL PROJECTS</b>			<b>\$918.55</b>		
												<b>GRAND TOTAL</b>			<b>\$2,578.75</b>		

## SUMMARY OF CONSTRUCTION COST

Sale: **Bobcat Spur**

Road: **K to L**

Construction -	0+00	stations	Improvement -	10+20	stations	Reconstruction -	0+00	stations
	0.00	miles		0.19	miles		0.00	miles

**IMPROVEMENT:** CLEARING AND GRUBBING -

Widening	0.023	acres	@	\$955.00	per acre =	\$21.97	
				<b>TOTAL CLEARING AND GRUBBING</b>			<b>\$21.97</b>

**IMPROVEMENT:** EXCAVATION -

Widening	73	cy.	@	\$2.20	per c.y. =	\$160.60	
				<b>TOTAL EXCAVATION</b>			<b>\$160.60</b>

**IMPROVEMENT:** ENDHAUL -

Widening	4+30	to	6+30	73	cy.	@	\$2.15	per c.y. =	\$156.95	
Spread & compact				73	cy.	@	\$0.55	per c.y. =	\$40.15	
							<b>TOTAL ENDHAUL</b>			<b>\$197.10</b>

**ROCK**

0+00 to	10+20	810	cy. of	Pit-run	@	\$13.19	per c.y. =	\$10,683.90		
Landing Rock	10+20	170	cy. of	Pit-Run	@	\$13.40	per c.y. =	\$2,278.00		
							<b>TOTAL ROCK</b>			<b>\$12,961.90</b>

**SPECIAL PROJECTS**

Construct Landing @ Point L	1.00	each	@	\$410.00	each	\$410.00	
Construct truck turnaround @ 7+00	1.00	each	@	\$90.00	each	\$90.00	
Grade and shape road -	10.20	stations	@	\$24.40	per station	\$248.88	
Roll subgrade w/ vibratory roller prior to rocking -	10.20	stations	@	\$19.40	per station	\$197.88	
Grass seed and fertilize -	0.02	acres	@	\$400.00	per acre	\$8.00	
				<b>TOTAL SPECIAL PROJECTS</b>			<b>\$954.76</b>

<b>GRAND TOTAL</b>	<b>\$14,296.33</b>
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SUMMARY OF CONSTRUCTION COST

Sale:		Bobcat Spur				Road:		M to N						
Construction -		0+00		stations	Improvement -		1+30		stations	Reconstruction -		0+00		stations
		0.00		miles			0.02		miles			0.00		miles
<b>IMPROVEMENT:</b> CLEARING AND GRUBBING -														
Scattering					0.060	acres	@	\$1,415.00	per acre =	\$84.90				
										<b>TOTAL CLEARING AND GRUBBING</b>		<b>\$84.90</b>		
<b>IMPROVEMENT:</b> EXCAVATION -														
Road Earthwork					1.30	sta.	@	\$100.00	per sta. =	\$130.00				
										<b>TOTAL EXCAVATION</b>		<b>\$130.00</b>		
<b>ROCK</b>														
0+00 to		1+30		130	cy. of	Pit-run	@	\$12.97	per c.y.=	\$1,686.10				
Landing Rock		Point N		200	cy. of	Pit-Run	@	\$13.00	per c.y.=	\$2,600.00				
										<b>TOTAL ROCK</b>		<b>\$4,286.10</b>		
<b>SPECIAL PROJECTS</b>														
Grade and shape road -					1.30	stations	@	\$24.40	per station	\$31.72				
Construct Landing @ Point M					1.00	each	@	\$600.00	each	\$600.00				
Roll subgrade w/ vibratory roller prior to rocking -					1.30	stations	@	\$19.40	per station	\$25.22				
										<b>TOTAL SPECIAL PROJECTS</b>		<b>\$656.94</b>		
<b>GRAND TOTAL</b>												<b>\$5,157.94</b>		

SUMMARY OF CONSTRUCTION COST

Sale:		Bobcat Spur			Road:		O to P				
Construction -		9+75	stations	Improvement -		0+00	stations	Reconstruction -		0+00	stations
		0.18	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				
0+00			9+75	45%	0.0	Ditch	\$565	=		\$5,508.75	
										TOTAL	\$5,508.75
CULVERTS - MATERIALS & INSTALLATION											
		Culverts									
				30	LF of 18"	\$757.50					
		Culvert Stakes & Markers									
				1	markers	\$9.00					
										TOTAL CULVERTS	\$766.50
ROCK											
0+00		to	9+75	730	cy. of	Pit-run	@	\$12.76	per c.y.=	\$9,314.80	
Landing Rock			3+80	170	cy. of	Pit-run	@	\$12.72	per c.y.=	\$2,162.40	
Landing Rock			6+65	170	cy. of	Pit-Run	@	\$12.84	per c.y.=	\$2,182.80	
Landing Rock			9+75	170	cy. of	Pit-run	@	\$12.96	per c.y.=	\$2,203.20	
Jump up Landing Approach			6+65	30	cy. of	Pit-run	@	\$12.83	per c.y.=	\$384.90	
										TOTAL ROCK	\$16,248.10
SPECIAL PROJECTS											
Construct Landings @ 3+80, 6+65, and 9+75					3.00	each @	\$500.00	each	\$1,500.00		
Grade and shape road -					9.75	stations @	\$24.40	per station	\$237.90		
Roll subgrade w/ vibratory roller prior to rocking -					9.75	stations @	\$19.40	per station	\$189.15		
Grass seed and fertilize -					0.18	acres @	\$400.00	per acre	\$72.00		
Mulching -					0.001	acres @	\$900.00	per acre	\$0.90		
										TOTAL SPECIAL PROJECTS	\$1,999.95
GRAND TOTAL										\$24,523.30	

## SUMMARY OF CONSTRUCTION COST

Sale: **Bobcat Spur**

Road: **Q to R**

Construction -	0+00	stations	Improvement -	68+70	stations	Reconstruction -	0+00	stations
	0.00	miles		1.30	miles		0.00	miles

Clean Ditches, Ditchouts, Catch basins/Endhaul	69	sta. @	\$70.00	per sta. =	\$4,830.00	
				<b>TOTAL EXCAVATION</b>		<b>\$4,830.00</b>

**IMPROVEMENT:** ENDHAUL -

Full Bench	69	cy. @	\$2.45	per c.y. =	\$169.05	
Spread & compact	69	cy. @	\$0.55	per c.y. =	\$37.95	
				<b>TOTAL ENDHAUL</b>		<b>\$207.00</b>

**CULVERTS - MATERIALS & INSTALLATION**

Culverts

60	LF of 18"	\$1,515.00			
30	LF of 30"	\$1,500.00			
			30	LF of 48"	\$6,805.61

Culvert Stakes & Markers

4 markers	\$36.00
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**TOTAL CULVERTS \$9,856.61**

**ROCK**

0+00 to	68+70	20	cy. of	Crushed	@	\$27.07	per c.y. =	\$541.40
Culvert Backfill	16+80	20	cy. of	Crushed	@	\$28.07	per c.y. =	\$561.40
Culvert Backfill	18+20	20	cy. of	Crushed	@	\$28.12	per c.y. =	\$562.40
Culvert Backfill	29+30	20	cy. of	Crushed	@	\$28.56	per c.y. =	\$571.20
Culvert Backfill	60+80	20	cy. of	Crushed	@	\$29.82	per c.y. =	\$596.40
Energy Dissipator	16+80	5	cy. of	Riprap	@	\$22.27	per c.y. =	\$111.35
Energy Dissipator	18+20	5	cy. of	Riprap	@	\$22.32	per c.y. =	\$111.60
Energy Dissipator	29+30	5	cy. of	Riprap	@	\$22.76	per c.y. =	\$113.80
Junction Rock	0+00	30	cy. of	Crushed	@	\$27.95	per c.y. =	\$838.50
Spot Rock	As Directed	200	cy. of	Crushed	@	\$30.66	per c.y. =	\$6,132.00
							<b>TOTAL ROCK</b>	<b>\$10,140.05</b>

**SPECIAL PROJECTS**

Grade and shape road -	68.70	stations @	\$24.40	per station	\$1,676.28
Construct truck turnaround @ 68+70	1.00	each @	\$90.00	each	\$90.00
Roll subgrade w/ vibratory roller prior to rocking -	68.70	stations @	\$19.40	per station	\$1,332.78
Remove culverts from state lands	4.00	@	\$711.00	total	\$711.00
Grass seed and fertilize -	0.03	acres @	\$400.00	per acre	\$12.00
Mulching -	0.009	acres @	\$900.00	per acre	\$8.10
				<b>TOTAL SPECIAL PROJECTS</b>	<b>\$3,830.16</b>

**GRAND TOTAL \$28,863.82**



SUMMARY OF CONSTRUCTION COST

Sale:			Bobcat Spur			Road:			S to T					
Construction -			2+40	stations	Improvement -			0+00	stations	Reconstruction -			0+00	stations
			0.05	miles				0.00	miles				0.00	miles
CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -														
Station			to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch		Cost per Station					
0+00				2+40	35%	0.4	Outslope		\$294		=		\$705.60	
												TOTAL	\$705.60	
ROCK														
0+00			to	2+40	200	cy. of	Pit-run		@	\$11.75	per c.y.=		\$2,350.00	
Landing Rock				2+40	330	cy. of	Pit-Run		@	\$12.05	per c.y.=		\$3,976.50	
												TOTAL ROCK	\$6,326.50	
SPECIAL PROJECTS														
Construct 100ft Landing @ Point T							1.00	each @	\$410.00	each	\$410.00			
Grade and shape road -							2.40	stations @	\$24.40	per station	\$58.56			
Roll subgrade w/ vibratory roller prior to rocking -							2.40	stations @	\$19.40	per station	\$46.56			
												TOTAL SPECIAL PROJECTS	\$515.12	
													GRAND TOTAL	\$7,547.22

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	NF Trask Crushing Pit	Location:	SE 1/4 Sec. 25, T1S, R8W, W.M.
Sale:	<b>Bobcat Spur</b>	Road & Stockpile:	5114 c.y.
Swell:	1.40		
Shrinkage	1.16	Total Truck Loads:	5114 c.y.
Drill Pct.:	100%	In Place Total:	3653 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$1,000.00

Drill & Shoot:	\$3.60 /cu.yd.	x	3653 cu.yds.	=	\$13,150.80
Push Rock:	\$1.20 /cu.yd.	x	5114 cu.yds.	=	\$6,136.80
Load Crusher:	\$1.20 /cu.yd.	x	5114 cu.yds.	=	\$6,136.80
Crush Rock:	\$5.20 /cu.yd.	x	5114 cu.yds.	=	\$26,592.80
Load Dump Truck:	\$1.20 /cu.yd.	x	5114 cu.yds.	=	\$6,136.80
Oversize Reduction:	\$6.70 /cu.yd.	x	1096 cu.yds.	=	\$7,343.20
			Subtotal		\$66,497.20

Move In/Set-up Two Stage Crusher	1	@	\$3,927.00	=	\$3,927.00
Move In and set up Drill and Compressor	1	@	\$1,169.99	=	\$1,169.99
Move in Roller and Compactor	1	@	\$765.02	=	\$765.02
Move in Grader	1	@	\$1,108.29	=	\$1,108.29
Move in Loader	1	@	\$1,174.96	=	\$1,174.96
Move in Excavator	2	@	\$1,302.46	=	\$2,604.92
Move in Trucks	4	@	\$318.50	=	\$1,274.00

Subtotal \$12,024.18

Base Cost=	\$15.35	Per Cu.Yd.	<b>TOTAL PRODUCTION COSTS</b>	<b>\$78,521.38</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 16950 28175 (Crushed)	9.46	3.55	15.35	28.36	2520	\$71,467.20	
A to B Energy Dissipator 5CY ea. (Riprap)	7.37	2.20	9.00	18.57	45	\$835.65	
A to B Culvert Backfill (Crushed)	7.37	1.65	15.35	24.37	280	\$6,823.60	
A to B Energy Dissipator & Armor (Riprap)	5.53	2.20	9.00	16.73	15	\$250.95	
A to B Culvert Backfill (Crushed)	5.53	1.65	15.35	22.53	60	\$1,351.80	
A to B Rock Ditch Filters 2CY ea. (Pit-Run)	10.98	2.20	9.00	22.18	4	\$88.72	
C to D Culvert Backfill (Crushed)	6.14	1.65	15.35	23.14	10	\$231.40	
E to F Culvert Backfill (Crushed)	8.52	1.65	15.35	25.52	40	\$1,020.80	
E to F Junction Rock (Crushed)	7.99	3.55	15.35	26.89	30	\$806.70	
G to H Culvert Backfill (Crushed)	8.58	1.65	15.35	25.58	20	\$511.60	
G to H Culvert Backfill (Crushed)	8.96	1.65	15.35	25.96	20	\$519.20	
G to H Culvert backfill (Crushed)	5.84	2.20	15.35	23.39	20	\$467.80	
G to H Junction Rock (Crushed)	8.57	3.55	15.35	27.47	30	\$824.10	
G to H Energy Dissipator (Riprap)	8.96	2.20	9.00	20.16	15	\$302.40	
G to H Spot Rock (Crushed)	8.74	3.55	15.35	27.64	40	\$1,105.60	
I to J Culvert Backfill (Crushed)	9.36	1.65	15.35	26.36	20	\$527.20	
Q to R 0 6870 (Crushed)	8.17	3.55	15.35	27.07	20	\$541.40	
Q to R Culvert Backfill (Crushed)	11.07	1.65	15.35	28.07	20	\$561.40	
Q to R Culvert Backfill (Crushed)	11.12	1.65	15.35	28.12	20	\$562.40	
Q to R Culvert Backfill (Crushed)	11.56	1.65	15.35	28.56	20	\$571.20	
Q to R Culvert Backfill (Crushed)	12.82	1.65	15.35	29.82	20	\$596.40	
Q to R Energy Dissipator (Riprap)	11.07	2.20	9.00	22.27	5	\$111.35	
Q to R Energy Dissipator (Riprap)	11.12	2.20	9.00	22.32	5	\$111.60	
Q to R Energy Dissipator (Riprap)	11.56	2.20	9.00	22.76	5	\$113.80	
Q to R Junction Rock (Crushed)	10.40	2.20	15.35	27.95	30	\$838.50	
Q to R Spot Rock (Crushed)	11.76	3.55	15.35	30.66	200	\$6,132.00	
1600 CY Stockpile of 1 1/2" Rock	1.40	0.90	15.35	17.65	1600	\$28,240.00	
				Total C.Y.	5114	Sub Total	\$125,514.77

**TOTAL ROCKING COSTS** \$125,514.77

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Bobcat Pit	Location:	Sec. , TN, RW, W.M.
Sale:	<b>Bobcat Spur</b>	Road:	5550 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	5550 c.y.
Drill Pct.:	30%	In Place Total:	3964 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$2,000.00

Drill & Shoot:	\$3.60 /cu.yd.	x	1189 cu.yds.	=	\$4,280.40
Rip Rock:	\$3.35 /cu.yd.	x	2775 cu.yds.	=	\$9,296.25
Load Dump Truck:	\$1.20 /cu.yd.	x	5550 cu.yds.	=	\$6,660.00

Subtotal \$22,236.65

Move in Excavator	1	@	\$1,302.46	=	\$1,302.46
Move in Trucks	2	@	\$318.50	=	\$637.00
				Subtotal	<span style="border-bottom: 1px solid black;">\$1,939.46</span>

Base Cost= \$4.36 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$24,176.11

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Landing & Approach Rock (Pit-Run)	7.23	1.90	4.36	13.49	200	\$2,698.00
C to D Junction Rock (Pit-Run)	10.55	1.90	4.36	16.81	30	\$504.30
E to F 1200 1755 (Pit-run)	9.93	1.90	4.36	16.19	460	\$7,447.40
E to F Landing Rock (Pit-Run)	10.04	1.90	4.36	16.30	100	\$1,630.00
G to H 875 2645 (Pit-run)	9.33	1.90	4.36	15.59	1350	\$21,046.50
G to H Landing Rock (Pit-Run)	8.73	1.90	4.36	14.99	100	\$1,499.00
G to H Landing Rock (Pit-Run)	9.05	1.90	4.36	15.31	100	\$1,531.00
G to H Landing Rock (Pit-Run)	9.30	1.90	4.36	15.56	100	\$1,556.00
K to L 0 1020 (Pit-run)	6.93	1.90	4.36	13.19	810	\$10,683.90
K to L Landing Rock (Pit-Run)	7.14	1.90	4.36	13.40	170	\$2,278.00
M to N 0 130 (Pit-run)	6.71	1.90	4.36	12.97	130	\$1,686.10
M to N Landing Rock (Pit-Run)	6.74	1.90	4.36	13.00	200	\$2,600.00
O to P 0 975 (Pit-run)	6.50	1.90	4.36	12.76	730	\$9,314.80
O to P Landing Rock (Pit-run)	6.46	1.90	4.36	12.72	170	\$2,162.40
O to P Landing Rock (Pit-Run)	6.58	1.90	4.36	12.84	170	\$2,182.80
O to P Landing Rock (Pit-run)	6.70	1.90	4.36	12.96	170	\$2,203.20
O to P Jump up Landing Approach (Pit-run)	6.57	1.90	4.36	12.83	30	\$384.90
S to T 0 240 (Pit-run)	5.49	1.90	4.36	11.75	200	\$2,350.00
S to T Landing Rock (Pit-Run)	5.79	1.90	4.36	12.05	330	\$3,976.50
				Total C.Y.	5550	Sub Total <span style="border-bottom: 1px solid black;">\$77,734.80</span>

TOTAL ROCKING COSTS \$77,734.80

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Rock Source:	NF Trask Stockpile	Location:	NE 1/4 Sec.29, T1S, R7W, W.M.
Sale:	<b>Bobcat Spur</b>	Road:	300 c.y.
Load Dump Truck:	<u>          \$1.20          </u> /cu.yd. x <u>          300          </u> cu.yds. = <u>          \$360.00          </u>	Subtotal	<u>          \$360.00          </u>
Move in Loader	1 @ \$1,174.96 = <u>          \$1,174.96          </u>	Subtotal	<u>          \$1,174.96          </u>
Base Cost=	<u>          \$5.12          </u> Per Cu.Yd.	TOTAL PRODUCTION COSTS <u>          \$1,534.96          </u>	

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 Spot Rock (Crushed)	5.58	3.55	5.12	14.25	300	\$4,275.00
				Total C.Y.	300	Sub Total \$4,275.00
				TOTAL ROCKING COSTS <u>          \$4,275.00          </u>		

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

Sale: **Bobcat Spur**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
31.0	Pavement	30
8.0	Main Lines	7
6.0	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	\$956.41		\$4.50	0.00	0.00	0	\$0.00	\$956.41
1	Excavators (Small)	\$765.02		\$24.50	0.00	2.30	2.3	\$56.35	\$821.37
1	Excavators (Large)	\$1,302.46	1	\$50.00	0.00	2.30	2.3	\$115.00	\$1,417.46
1	Tractor (D8)	\$1,371.17	2	\$16.75	0.00	2.30	2.3	\$38.53	\$1,409.70
2	Dump Truck (10 cy +)	\$643.28		\$3.25	0.00	2.30	2.3	\$14.95	\$658.23
				TOTAL MOVE-IN COSTS:				\$5,263.17	



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

### Bobcat Spur

#### Type of Sale

Regeneration harvest, Recovery

#### Legal Description

Section(s) 20, 21, 29 of T1S R7W 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 (Clearcut)	102	76
Unit 2 (Clearcut)	101	76
<b>Total</b>	<b>203</b>	<b>152</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. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

##### B. Plot size

Unit	BAF	Spacing
1	40.00	350' x 300'
2	40.00	350' x 300'

##### 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.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	76	33	13.7	78.9
2	76	27	17.2	91.0
Project Total	152	60	10.7	83.8

## **Hidden Defect and Breakage**

A 1% reduction for conifers and a 4% reduction for hardwood volumes were applied for hidden defect and breakage. Hardwood percentage was increased from the standard 2% due to observation of overall lower quality alder and increased breakage.

## **Timber Description**

Unit 1 is clearcut. The Unit is a Douglas-fir dominated stand with a moderate Red Alder component. There is no record or commercial or pre-commercial thinning. A 17 acre portion of this unit was harvested in 2003 and thus has younger stand age.

Unit 2 is clearcut. The Unit is a Douglas-fir dominated stand. A small portion of the unit was commercially thinned in 2000. A 13 acre portion of this unit was harvested in 2000, and a 2 acre portion in 2003.

Sale Unit	Age	Species	DBH	AVG total height (feet)
1	59	Douglas-fir	15.8	99
		Red Alder	14.6	94
2	61	Douglas-fir	22.2	100
		Red alder	15.6	75

Above data derived from Statistics (type) report using SuperAce 2024, developed by Atterbury Consultants, Inc.

## **Cruiser /Dates**

ODF Staff Cruised; April 2025.

### **Revenue Distribution**

BOF – 100%

Tax Code: 902 (100%)

Deed Numbers: 230, 161

### **Attachments**

Volume Summary Table (3)

Stand Table (3)

Log Stock Table (3)

Species, Sort, Grade Table (3)

Logging Plan (3)

### **Stand and Log Stock Tables Species Key**

DF – Douglas Fir

RA – Red Alder

WH – Western Hemlock

BM – Big Leaf Maple (reserved species)





"STEWARDSHIP IN FORESTRY"

## BOBCAT SPUR

### Volume Summary

Unit 1-Clearcut				
76.4 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	11.18	854	1%	845
Hemlock	0.55	42.0	1%	42
Alder	5.87	449.0	4%	431
TOTAL	17.60	1345		1318

Unit 2-Clearcut				
75.5 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	11.93	901	1%	892
Hemlock	0.08	6	1%	6
Alder	3.07	231	4%	222
TOTAL	15.08	1138		1120



"STEWARDSHIP IN FORESTRY"

## ***BOBCAT SPUR***

### **Volume Summary**

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"STEWARDSHIP IN FORESTRY"

## **BOBCAT SPUR**

### **Volume Summary**

<b>TOTAL SALE VOLUME</b>		
	<b>151.9</b>	<b>acres</b>
<b>SPECIES</b>	<b>Cruised Net (MBF)</b>	<b>Net Sale (MBF)</b>
Douglas-fir	1755	1737
Hemlock	48	48
Red Alder	680	653
<b>TOTAL</b>	<b>2483</b>	<b>2438</b>

# Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR TILLAMOOK

Lths And Dias ACI-2023

Species: GEN WEST

Page: 1/1

Project: BCAT\_CURRENT

# Plots: 33

Sort: TILLAMOOK2

Date: 06/04/2025

Tract: VPLOT

# Trees: 153

Grade: TILLAMOOK2

Cruised: 05/08/2025

Stand: 0001

# Measured Trees: 109

Price: ACI-2018

Grown To:

Acres: 76.40

# Count Trees: 44

Cost: ACI-2023

Edited: 06/04/2025

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-4	5-7	8-11	12-17	18-23	24-29	30-39	40-99
RA		H	3	12-15	3	.0	3	0.8	44			3					
RA		H	3	16-21	10	.0	10	2.2	127				10				
RA		H	3	24-27	9	.0	9	2.0	118				9				
RA		H	3	28-31	7	18.2	6	1.3	79			6					
RA		H	3	40+	51	4.3	49	10.9	641			32	17				
RA		H	4	12-15	8	.0	8	1.7	101		5	3					
RA		H	4	16-21	36	.0	36	8.1	473		8	12	16				
RA		H	4	22-23	9	42.7	5	1.2	69		1		4				
RA		H	4	24-27	14	.0	14	3.1	180		14						
RA		H	4	28-31	3	.0	3	0.6	38		3						
RA		H	4	32-35	36	.0	36	8.1	474		36						
RA		H	4	36-39	21	.0	21	4.7	277		9	12					
RA		H	4	40+	257	3.3	248	55.4	3,252		145	103					
<b>RA Total</b>					<b>465</b>	<b>3.4</b>	<b>449</b>	<b>33.0</b>	<b>5,872</b>		<b>221</b>	<b>172</b>	<b>55</b>				
DF		CO	2	40+	228	.0	228	26.7	2,987				138	90			
DF		CO	3	24-27	1	.0	1	0.2	17			1					
DF		CO	3	32-35	3	.0	3	0.3	33			3					
DF		CO	3	40+	497	.0	497	58.2	6,504		102	374	6	15			
DF		CO	4	12-15	2	.0	2	0.3	33		1	1					
DF		CO	4	16-21	10	.0	10	1.2	134		10						
DF		CO	4	22-23	3	.0	3	0.3	34		3						
DF		CO	4	24-27	23	.0	23	2.7	303		17	6					
DF		CO	4	28-31	16	.0	16	1.8	204		16						
DF		CO	4	32-35	23	.0	23	2.6	295		23						
DF		CO	4	36-39	31	.0	31	3.7	408		31						
DF		CO	4	40+	17	.0	17	2.0	228		17						
<b>DF Total</b>					<b>854</b>		<b>854</b>	<b>62.8</b>	<b>11,180</b>		<b>220</b>	<b>385</b>	<b>144</b>	<b>105</b>			
BM		H	4	16-21	10	.0	10	69.3	134		3			8			
BM		H	4	32-35	5	.0	5	30.7	59		5						
<b>BM Total</b>					<b>15</b>		<b>15</b>	<b>1.1</b>	<b>193</b>		<b>7</b>			<b>8</b>			
WH		CO	3	40+	31	.0	31	75.0	412			31					
WH		CO	4	36-39	10	.0	10	25.0	137		10						
<b>WH Total</b>					<b>42</b>		<b>42</b>	<b>3.1</b>	<b>549</b>		<b>10</b>	<b>31</b>					
<b>Stand(s)/Project Totals</b>					<b>1,376</b>	<b>1.2</b>	<b>1,359</b>	<b>100.0</b>	<b>17,794</b>								
<b>Percent Measured Tree Net Mbf =</b>											<b>459</b>	<b>589</b>	<b>199</b>	<b>113</b>			

# Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR TILLAMOOK

Lths And Dias ACI-2023

Species: GEN WEST

Page: 1/1

Project: BCAT\_CURRENT

# Plots: 28

Sort: TILLAMOOK2

Date: 06/04/2025

Tract: VPLOT

# Trees: 96

Grade: TILLAMOOK2

Cruised: 05/06/2025

Stand: 0002

# Measured Trees: 61

Price: ACI-2018

Grown To:

Acres: 75.50

# Count Trees: 35

Cost: ACI-2023

Edited: 06/04/2025

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-4	5-7	8-11	12-17	18-23	24-29	30-39	40-99
RA		H	3	12-15	7	.0	7	2.9	88			7					
RA		H	3	40+	18	10.3	16	6.9	213				16				
RA		H	4	12-15	15	.0	15	6.3	193		1	3	10				
RA		H	4	16-21	7	.0	7	3.2	99		2	5					
RA		H	4	22-23	3	.0	3	1.2	36		3						
RA		H	4	24-27	9	.0	9	3.7	115		9						
RA		H	4	28-31	10	.0	10	4.1	126		10						
RA		H	4	32-35	20	8.5	18	7.8	239		18						
RA		H	4	36-39	15	11.2	13	5.7	175		13						
RA		H	4	40+	142	5.3	134	58.1	1,781		56	67	11				
RA Total					244	5.2	231	20.3	3,066		112	82	37				
DF		CO	2	40+	686	.0	686	76.1	9,083				269	219	198		
DF		CO	3	16-21	3	.0	3	0.3	39			3					
DF		CO	3	22-23	2	.0	2	0.2	23			2					
DF		CO	3	24-27	2	.0	2	0.2	29			2					
DF		CO	3	28-31	17	.0	17	1.9	223			8	8				
DF		CO	3	36-39	7	.0	7	0.8	91		3	3					
DF		CO	3	40+	144	1.2	142	15.8	1,883		22	95	25				
DF		CO	4	12-15	3	.0	3	0.4	45		2	1					
DF		CO	4	16-21	4	.0	4	0.4	49		2	1					
DF		CO	4	24-27	8	.0	8	0.9	110		8						
DF		CO	4	32-35	15	.0	15	1.6	193		15						
DF		CO	4	40+	13	.0	13	1.4	167		13						
DF Total					903	0.2	901	79.1	11,934		65	117	303	219	198		
WH		CO	4	16-21	6	.0	6	100.0	82		6						
WH Total					6		6	0.5	82		6						
Stand(s)/Project Totals					1,153	1.2	1,139	100.0	15,082								
Percent Measured Tree Net Mbf =									100.0	183	199	340	219	198			

# Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 1/2

Project: BCAT\_CURRENT

# Plots: 33

Sort: TILLAMOOK2

Date: 06/04/2025

Tract: VPLOT

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Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
RA		10	2	59	70	131	4.445	2.42	2.222	157.6	6	50		14	111	0.0	30	11	8
RA		11	8	59	77	114	14.693	9.70	12.857	124.6	18	59	7	237	753	4.9	497	181	58
RA		12	2	59	73	79	3.087	2.42	3.087	79.0	22	55	2	67	170	0.0	140	51	13
RA		13	6	59	77	67	7.890	7.27	10.520	62.0	18	48	5	187	500	2.6	393	143	38
RA		14	7	59	74	105	7.937	8.48	9.071	90.0	27	85	7	248	771	2.9	522	190	59
RA		15	5	59	75	93	20.517	24.24	26.122	75.8	22	68	16	566	1,782	3.1	1,188	432	136
RA		16	1	59	69	92	0.868	1.21	1.736	69.2	16	50	1	27	87	0.0	57	21	7
RA		17	2	59	86	78	1.538	2.42	1.538	54.7	21	60	1	33	92	0.0	69	25	7
RA		18	5	59	70	76	3.430	6.06	5.487	50.4	21	65	3	117	357	3.8	246	90	27
RA		19	3	59	71	71	1.847	3.64	3.078	45.1	21	66	2	64	203	0.0	133	49	16
RA		20	4	59	77	78	2.222	4.85	3.334	46.9	39	113	4	130	378	1.5	272	99	29
RA		21	3	59	72	83	1.512	3.64	2.520	47.6	37	88	3	92	222	22.7	194	70	17
RA		22	2	59	70	56	0.918	2.42	0.918	30.5	25	95	1	23	87	0.0	49	18	7
RA		23	1	59	72	81	0.420	1.21	0.420	42.3	30	70		13	29	0.0	26	10	2
RA		24	2	59	81	68	0.772	2.42	1.157	34.1	35	127	1	41	147	5.3	86	31	11
RA		25	1	59	83	92	0.356	1.21	0.711	43.9	43	165	1	31	117	0.0	64	23	9
RA		30	1	59	83	81	0.247	1.21	0.247	32.5	84	270	1	21	67	7.4	44	16	5
RA			55	59	75	94	72.698	84.85	85.025	85.4	22	69	53	1,909	5,872	3.4	4,012	1,459	449
DF		8	1	59	72	91	3.472	1.21	3.472	136.4	6	30	1	20	104	0.0	44	15	8
DF		10	2	59	80	84	4.445	2.42	4.445	100.5	13	40	2	60	178	0.0	130	46	14
DF		12	3	59	78	79	4.630	3.64	4.630	79.2	21	60	3	95	278	0.0	207	73	21
DF		13	3	59	79	97	3.945	3.64	7.890	89.7	15	50	3	115	395	0.0	250	88	30
DF		14	6	59	80	110	6.803	7.27	13.606	94.0	19	68	7	254	930	0.0	553	194	71
DF		15	4	59	80	92	3.951	4.85	7.902	74.0	20	68	4	155	533	0.0	338	119	41
DF		16	4	59	80	100	25.720	35.15	46.679	75.7	26	95	35	1,218	4,437	0.0	2,651	930	339
DF		17	3	59	80	106	2.307	3.64	4.614	74.7	28	103	4	131	477	0.0	286	100	36
DF		18	4	59	82	112	2.744	4.85	5.487	74.6	32	115	5	177	631	0.0	386	135	48
DF		19	4	59	80	102	2.462	4.85	4.925	64.5	34	115	5	167	566	0.0	364	128	43
DF		20	2	59	84	116	1.111	2.42	3.334	69.5	28	107	3	93	356	0.0	203	71	27
DF		21	2	59	79	110	1.008	2.42	2.016	62.6	45	143	3	90	287	0.0	196	69	22
DF		22	2	59	81	100	0.918	2.42	2.296	54.8	38	124	2	86	285	0.0	188	66	22
DF		23	1	59	83	118	0.420	1.21	1.260	61.4	40	167	1	51	210	0.0	110	39	16
DF		24	1	59	83	121	0.386	1.21	1.157	60.6	43	177	1	50	204	0.0	108	38	16
DF		29	1	59	72	119	0.264	1.21	0.529	49.3	86	275	1	45	145	0.0	99	35	11
DF		30	1	59	80	122	0.247	1.21	0.741	49.0	64	250	1	48	185	0.0	104	36	14
DF		31	2	59	83	114	0.463	2.42	1.156	44.0	83	338	3	96	391	0.0	209	73	30
DF		32	1	59	80	122	0.217	1.21	0.651	45.6	74	310	1	48	202	0.0	105	37	15
DF		34	1	59	72	114	0.192	1.21	0.384	40.3	117	390	1	45	150	0.0	98	34	11
DF		39	1	59	75	152	0.146	1.21	0.438	46.8	122	540	2	54	237	0.0	117	41	18
DF			49	59	80	99	65.852	89.70	117.614	81.5	26	95	88	3,097	11,180	0.0	6,744	2,366	854
BM		10	1	59	75	36	2.222	1.21	0.000	43.3						0.0			
BM		14	1	59	72	30	1.134	1.21	1.134	25.8	13	30		15	34	0.0	31	12	3
BM		15	1	59	72	60	0.988	1.21	0.988	47.8	29	60	1	29	59	0.0	58	22	5
BM		25	1	59	86	43	0.356	1.21	0.356	20.4	52	280		18	100	0.0	37	14	8
BM			4	59	74	40	4.700	4.85	2.477	38.3	25	78	2	62	193	0.0	126	48	15
WH		18	1	59	67	105	3.430	6.06	6.859	70.1	34	80	7	231	549	0.0	547	176	42
WH			1	59	67	105	3.430	6.06	6.859	70.1	34	80	7	231	549	0.0	547	176	42

Stand Summary Report

State, County: OR    TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 2/2

Project: BCAT\_CURRENT

# Plots: 33

Sort: TILLAMOOK2

Date: 06/04/2025

Tract: VPLOT

# Trees: 153

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Stand: 0001

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Grown To:

Acres: 76.40

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Edited: 06/04/2025

											Net Per Log		Net Per Acre			BdFt Def	Total Net		
Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	CuFt	BdFt	Tons	CuFt	BdFt	%	Tons	Ccf	Mbf
Stands/Project:			109	59	77	95	146.679	185.45	211.975	81.7	25	84	150	5,300	17,794	1.2	11,429	4,049	1,359

# Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 1/1

Project: BCAT\_CURRENT

# Plots: 28

Sort: TILLAMOOK2

Date: 06/04/2025

Tract: VPLOT

# Trees: 96

Grade: TILLAMOOK2

Cruised: 05/06/2025

Stand: 0002

# Measured Trees: 61

Price: ACI-2018

Grown To:

Acres: 75.50

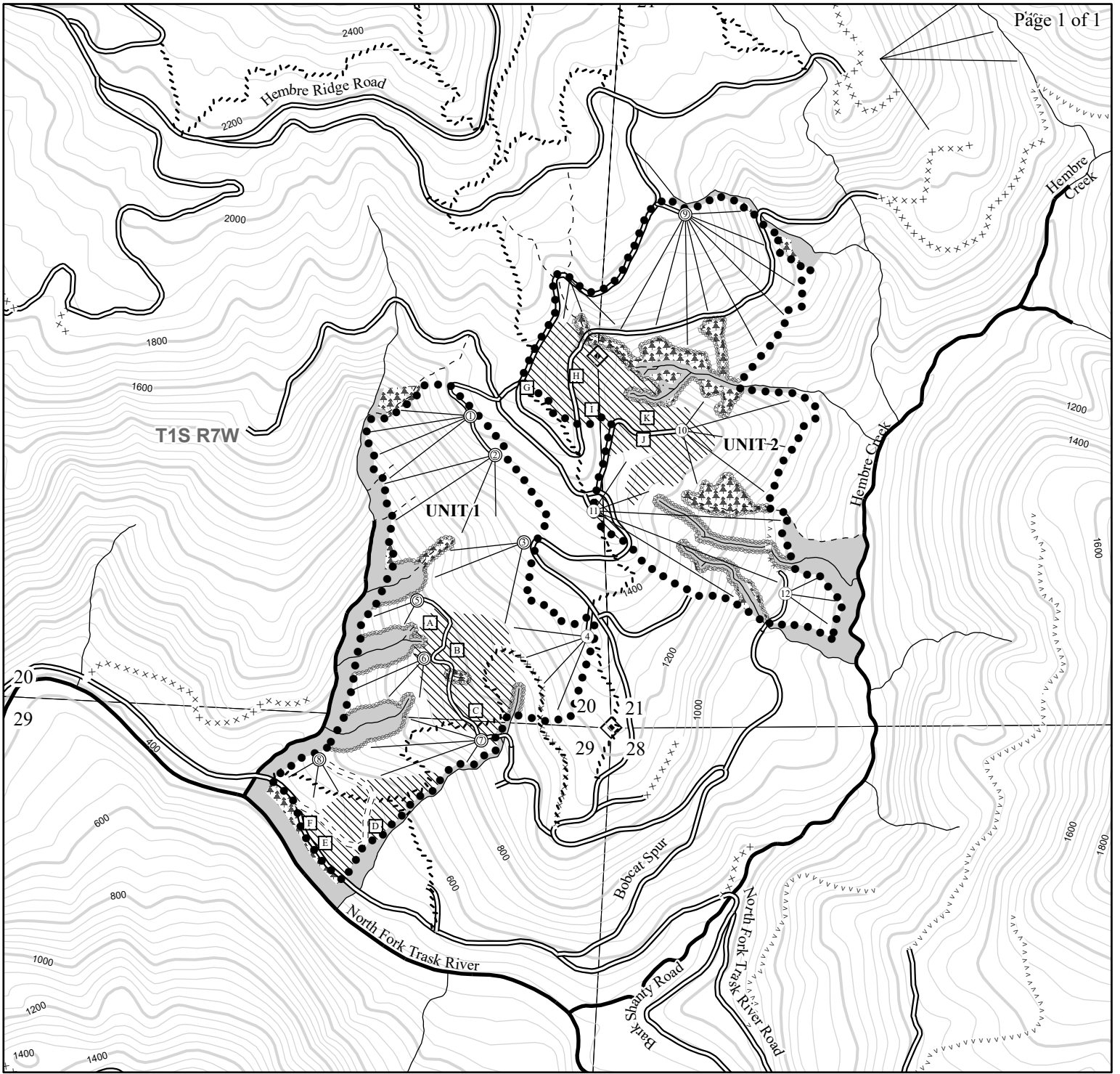
# Count Trees: 35

Cost: ACI-2023

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Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
RA		12	3	61	77	72	5.457	4.29	5.457	72.2	15	47	2	82	255	0.0	170	62	19
RA		13	3	61	69	80	4.650	4.29	3.100	73.6	27	60	2	83	186	0.0	173	63	14
RA		14	6	61	71	80	8.018	8.57	9.354	68.9	16	40	4	150	374	7.1	312	114	28
RA		15	1	61	89	73	1.164	1.43	2.328	58.1	17	60	1	40	140	8.3	82	30	11
RA		16	2	61	73	75	20.368	27.14	21.402	57.2	26	65	15	561	1,396	5.5	1,164	423	105
RA		17	2	61	72	67	1.813	2.86	1.813	47.3	27	65	1	49	118	0.0	103	37	9
RA		18	1	61	67	98	0.808	1.43	0.808	65.6	57	100	1	46	81	20.0	96	35	6
RA		19	1	61	80	84	0.726	1.43	1.451	52.8	33	100	1	48	145	5.0	100	37	11
RA		20	2	61	80	48	1.310	2.86	1.964	28.9	29	70	2	56	138	0.0	117	42	10
RA		21	1	61	67	53	0.594	1.43	0.000	30.5						0.0			
RA		23	1	61	83	80	0.495	1.43	0.990	41.8	50	145	1	50	144	10.3	103	37	11
RA		27	1	61	65	49	0.359	1.43	0.000	21.8						0.0			
RA		30	2	61	70	54	0.582	2.86	0.291	21.7	143	310	1	42	90	16.1	87	31	7
RA			26	61	73	75	46.343	61.43	48.959	60.3	25	63	33	1,207	3,066	5.2	2,506	911	231
DF		12	2	61	75	63	3.638	2.86	3.638	63.2	19	50	2	68	182	0.0	147	52	14
DF		13	1	61	80	69	1.550	1.43	1.550	63.8	22	60	1	35	93	0.0	75	26	7
DF		14	2	61	81	105	2.673	2.86	5.345	89.7	19	70	3	100	374	0.0	215	76	28
DF		19	1	61	83	119	0.726	1.43	2.177	75.0	26	87	2	57	189	7.7	123	43	14
DF		20	1	61	83	116	0.655	1.43	1.310	69.4	43	155	2	56	203	0.0	121	42	15
DF		21	1	61	83	54	0.594	1.43	0.594	30.7	51	90	1	30	53	0.0	65	23	4
DF		22	0	61	82	100	9.569	25.71	18.993	53.8	51	218	28	965	4,131	0.2	2,077	729	312
DF		23	5	61	83	122	2.476	7.14	6.932	63.4	43	177	8	298	1,228	0.0	640	225	93
DF		24	2	61	87	83	0.909	2.86	1.819	41.6	46	145	2	84	264	0.0	180	63	20
DF		25	2	61	85	118	0.838	2.86	2.095	56.6	54	226	3	113	474	0.0	244	86	36
DF		28	1	61	86	106	0.334	1.43	0.668	45.3	80	325	2	53	217	0.0	114	40	16
DF		29	3	61	84	123	0.934	4.29	2.803	50.8	62	269	5	173	754	0.0	373	131	57
DF		31	2	61	83	130	0.545	2.86	0.818	50.3	113	543	3	92	444	0.0	198	70	34
DF		32	1	61	89	137	0.256	1.43	0.767	51.2	86	437	2	66	335	0.0	142	50	25
DF		34	2	61	89	124	0.453	2.86	1.133	43.7	107	528	3	121	598	0.0	260	91	45
DF		35	2	61	86	142	0.428	2.86	1.283	48.7	104	542	4	134	695	0.0	288	101	52
DF		36	1	61	86	137	0.202	1.43	0.606	45.7	104	523	2	63	317	0.0	136	48	24
DF		37	2	61	86	126	0.383	2.86	1.148	40.9	104	520	3	120	597	0.0	257	90	45
DF		38	1	61	89	135	0.181	1.43	0.544	42.7	117	627	2	63	341	0.0	137	48	26
DF		39	1	61	78	130	0.172	1.43	0.517	40.0	113	497	2	58	257	0.0	126	44	19
DF		45	1	61	81	132	0.129	1.43	0.129	35.1	297	1,460	1	38	189	0.0	83	29	14
DF			34	61	82	100	27.645	74.29	54.869	59.0	51	218	79	2,789	11,934	0.2	6,001	2,106	901
WH		8	1	61	78	21	4.093	1.43	4.093	31.5	4	20		16	82	0.0	37	12	6
WH			1	61	78	21	4.093	1.43	4.093	31.5	4	20		16	82	0.0	37	12	6
Stands/Project:			61	61	76	81	78.081	137.14	107.920	58.4	37	140	113	4,012	15,082	1.2	8,545	3,029	1,139





- Ground Landing
- ⊙ Landing To Be Constructed
- Landing Existing
- Cable Logging
- ▨ Ground Based
- Timber Sale Boundary
- ▤ Riparian Boundary
- ▨ Riparian Buffer
- 🌲 Green Tree Retention
- Type-F Stream
- Type-N Perennial Stream
- - - Type-N Seasonal Stream
- == Surfaced Road
- xxx Blocked Road
- vvvv Abandoned Road

- ⋯ Recreation Trail
- 200' Contour
- 40' Contour
- Sections
- ◇ Corners



## LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2026-W01150-01  
BOBCAT SPUR  
PORTIONS OF SECTION 20, 21, 29 OF T1S R7W W.M.  
TILLAMOOK COUNTY, OREGON

Tillamook District GIS  
July 2025

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

### NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	19	57	76
UNIT 2	17	59	76
TOTAL	36	116	152

1:12,000  
1 inch = 1,000 feet

