



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Hawkins
Sale AT-341-2025-W01208-01

District: Astoria

Date: January 21, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,630,839.28	\$11,511.60	\$2,642,350.88
		Project Work:	(\$94,373.00)
		Advertised Value:	\$2,547,977.88



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Hawkins Sale AT-341-2025-W01208-01

District: Astoria

Date: January 21, 2025

Timber Description

Location:

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	97
Western Hemlock / Fir	22	0	96
Alder (Red)	14	0	95

Volume by Grade	2S	3S & 4S 6"-11"	3S 12"+	SM & Better	8" - 9"	6" - 7"	Total
Douglas - Fir	3,119	870	14	631	0	0	4,634
Western Hemlock / Fir	563	104	5	89	0	0	761
Alder (Red)	0	0	0	0	38	15	53
Total	3,682	974	19	720	38	15	5,448

Comments: Pond Values Used: Local Pond Values, January, 2025.

Expected Log Markets: Clatskanie, Warrenton, Forest Grove, Tillamook, Mist, Wauna, Longview, WA, and Chehalis, WA.

PRICING:

Sitka spruce stumpage = pond value - (Douglas-fir) logging cost.

\$176.40/MBF = \$400.00/MBF - \$223.60/MBF

Western redcedar stumpage = pond value - (Douglas-fir) logging cost.

\$976.40/MBF = \$1200.00/MBF - \$223.60/MBF

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

Machine Washing for Invasive Weed Compliance (entering and leaving) = \$2,000

Ditch Filters:

24 bales of straw @ \$12/bale = \$288.00

4 hours of labor (installation/removal) @ \$50/hr = \$200

Total P&R Cost = \$2,488.00

Other Costs (No Profit & Risk added): None

SLASH PILING

(See attached appraisal. Includes move-in and pile materials) = \$14,063.33

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)

TOTAL Road Maintenance: \$27,874/5,448 MBF = \$5.12/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 48.00%
Western Hemlock / Fir 48.00%
Alder (Red) 48.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12 **bd. ft / load:** 4600
cost / mbf: \$144.54
machines: Log Loader (A)
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 52.00%
Western Hemlock / Fir 52.00%
Alder (Red) 52.00%

Logging System: Shovel **Process:** Manual Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 19 **bd. ft / load:** 4600
cost / mbf: \$114.42
machines: Shovel Logger



"STEWARDSHIP IN FORESTRY"

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Hawkins
Sale AT-341-2025-W01208-01

District: Astoria

Date: January 21, 2025

Logging Costs

Operating Seasons: 3.00

Profit Risk: 12%

Project Costs: \$94,373.00

Other Costs (P/R): \$2,488.00

Slash Disposal: \$14,063.33

Other Costs: \$0.00

Miles of Road

Road Maintenance: \$5.12

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	4.0	5.5
Western Hemlock / Fir	\$0.00	4.0	5.0
Alder (Red)	\$0.00	3.0	3.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Hawkins Sale AT-341-2025-W01208-01

District: Astoria

Date: January 21, 2025

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$128.88	\$5.27	\$2.42	\$58.52	\$0.46	\$23.47	\$2.58	\$2.00	\$0.00	\$223.60
Western Hemlock / Fir									
\$128.88	\$5.32	\$2.42	\$65.00	\$0.46	\$24.25	\$2.58	\$2.00	\$0.00	\$230.91
Alder (Red)									
\$128.88	\$5.38	\$2.42	\$125.00	\$0.46	\$31.46	\$2.58	\$2.00	\$0.00	\$298.18

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$739.31	\$515.71	\$0.00
Western Hemlock / Fir	\$0.00	\$547.65	\$316.74	\$0.00
Alder (Red)	\$0.00	\$515.38	\$217.20	\$0.00



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Sale AT-341-2025-W01208-01

District: Astoria

Date: January 21, 2025

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	4,634	\$515.71	\$2,389,800.14
Western Hemlock / Fir	761	\$316.74	\$241,039.14
Alder (Red)	53	\$217.20	\$11,511.60

Gross Timber Sale Value

Recovery: \$2,642,350.88

Prepared By: John Czarnecki

Phone: --

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Hawkins
Date: January 6th, 2025
By: John Tillotson *CB*

MBF: 5,448
\$/MBF: \$5.12

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Interim Road Maintenance or snow plowing	Grader 14G	\$972	2	16	\$126	\$3,960
	Rubber tired backhoe	\$401	2	6	\$97	\$1,384
	Dump Truck 12CY	\$205	2	12	\$99	\$1,598
	Vibratory Roller	\$972	1	4	\$97	\$1,360
Final Road Maintenance	Grader 14G	\$972	1	40	\$126	\$6,012
	Dump Truck 12CY	\$205	2	16	\$99	\$1,994
	FE Loader C966	\$931	1	8	\$108	\$1,795
	Vibratory Roller	\$972	1	40	\$97	\$4,852
	Water Truck 2,500 gallon	\$238	1	20	\$113	\$2,498
	C315 Excavator	\$1,005	1	8	\$127	\$2,021
	Labor			8	\$50	\$400
Total						\$27,874

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	2.5	5.0	2.0	16

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	1.5	7.4	4.9	39
Vibratory Roller	1.5	7.4	4.9	39

Process and compact: All crushed rock roads

Nicolai Mainline: 1.5 miles
Greasy Spoon: 4.4 miles
Unnamed Spurs: 1.0 miles
New Construction - Surfaced: 0.5 miles
Grade & Process Total: 7.4 miles

Site Prep Appraisal

Sale Number: AT-341-2025-W01208-01

Sale Name: Hawkins

Date: 01/06/2025

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre	Landing Production Rate (hrs/30 acres)
Doug-fir	A	0.5	0.5	6
Hemlock/Fir	B	1.3	4.5	8
Hemlock/Spruce	C	1.8	6.0	10
Hemlock	D	1.8	6.0	8
Conifer/Hardwood	E	1.0	2.0	8
Whole Tree Yarding	F	0.5	0.5	12

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour	Total Cost/Area	
1	MC	B	20	26	\$145.00	\$3,770.00	
2	MC	B	32	42	\$145.00	\$6,032.00	
					In-unit Piling	Sub Total =	\$9,802.00
Sale Area	Number of Landings to be Piled	# cable acres per area	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area	
1	10	19	\$734.67	100	\$5.00	\$500.00	
2	10	25	\$966.67	154	\$5.00	\$770.00	
					Materials	Sub Total =	\$1,270.00
					Landing Piling	Sub Total =	\$1,701.33
*Cost includes separating firewood							
Move-In Allowance	Additional Move-in allowance Number of Move-In's	Total Move-In Allowance					
\$1,290.00	1	\$1,290.00	Brush Piler				
					Move-In	Sub Total =	\$1,290.00
Slash Endhaul							
Dump Truck hrs	Cost/Hour	Total	Loader hrs	Cost/Hour	Total		
						Sub Total =	\$0.00
						Grand Total =	\$14,063.33

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Hawkins

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
Surfaced			
1A to 1B, 1E, 2A to 2B, 2C to 2D, 2E to 2F	34.00	0.64	\$63,301.70
Unsurfaced			
1C to 1D, 2G to 2H	7.50	0.14	\$3,849.02
Road Maint.			\$797.49
Move-In			\$6,716.19
TOTALS	41.50	0.79	\$74,664

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
I1 to I2, I3 to I4, I5 to I6	82.5	1.56	\$17,725.17
Road Maint.			\$210.51
Move-In			\$1,772.81
TOTALS		1.56	\$19,708

SPECIAL PROJECTS (Move-In and Road Maint. are included separately as needed, for each Special Project):

<u>Description</u>	<u>Length/Vol.</u>	<u>Cost</u>
TOTAL		

GRAND TOTAL \$94,373

Compiled By: Brittany West

Date: 01/23/2025

Move In and Maintenance Calculator for Construction and Improvement

SALE NAME: Hawkins

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
Surfaced			
1A to 1B, 1E, 2A to 2B, 2C to 2D, 2E to 2F	34.0	0.64	\$63,301.70
Unsurfaced			
1C to 1D, 2G to 2H	7.5	0.14	\$3,849.02
TOTALS	41.5	0.79	\$67,151

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
I1 to I2, I3 to I4, I5 to I6	82.5	1.56	\$17,725.17
TOTALS		1.56	\$17,725

MOVE IN (Construction & Improvement Only)

<u>Equipment</u>	<u>Length/Mile</u>	<u>Cost</u>
Vibratory Roller		\$972.00
D8 Dozer		\$1,755.00
C315 Excavator		\$1,005.00
C330 Excavator		\$1,755.00
C966 Loader		\$972.00
14 G Grader		\$972.00
Water Truck (2,500 gal)		\$238.00
Dump Truck 10cy (x4)		\$820.00
TOTAL		\$8,489

ROAD MAINTENANCE (Construction & Improvement Only)

	<u>Length/Mile</u>	<u>Cost</u>
Nicolai Mainline (Viewpoint to I1)	3.15	\$1,008.00
TOTAL		\$1,008

SALE NAME:	Hawkins	NEW CONSTRUCTION:	41.50 STATIONS	0.79 MILES
ROAD:	1A to 1B (19.5), 1C to 1D (2.3), 2A to 2B (2.5), 2C to 2D (11), 2E to 2F (1), 2G to 2H (5.2)	IMPROVEMENT:	STATIONS	MILES
POINTS:	1E			

Method	Acres/amount	x	Rate	=	Cost
Surfaced					
1A to 1B					
Scatter outside of right of way (\$/acre)	1.80	x	\$ 1,669	=	\$3,004.20
Haul clearing debris w/ 12cy (\$/hr)	16.00		\$ 99		\$1,584.00
1E, 2E to 2C,					
2C to 2D, 2E to 2F					
Scatter outside of right of way (\$/acre)	1.25		\$ 1,669		\$2,086.25
Unsurfaced					
1C to 1D,					
2G to 2H					
Scatter outside of right of way	0.52	x	\$ 1,669		\$867.88
SUB TOTAL FOR CLEARING & GRUBBING					\$7,542

	Material	Cy/amount	x	Rate	=	Cost
1A to 1B						
0+00 to 19+50	Common drift (<50% slopes) (\$/cy)	1,300	x	\$2.25	=	\$2,925.00
	Embankment compaction (\$/cy)	3,100	x	\$0.87	=	\$2,697.00
	End-haul excavation (\$/cy)	1,800	x	\$4.99	=	\$8,982.00
	Additional C330 time (C330/hr)	8	x	\$195.00	=	\$1,560.00
1+00 to 6+80	Cutslope rounding (\$/sta)	5.8	x	\$54.39	=	\$315.46
0+90, 2+90, 5+15, 7+80	Culvert energy dissipator construction (\$/dissipator)	4	x	\$225.33	=	\$901.32
19+50	Construct landing (\$/Indg)	1	x	\$487.00	=	\$487.00
1C to 1D						
0+00 to 2+30	Balanced construction (\$/sta)	2.3	x	\$154.00	=	\$354.20
	Drift earth up to 200' (\$/sta)	1	x	\$238.00	=	\$238.00
2+30	Construct landing (\$/Indg)	1		\$487.00		\$487.00
2A to 2B						
0+00 to 2+50	Balanced construction (\$/sta)	2.5	x	\$154.00	=	\$385.00
	Drift earth up to 200' (\$/sta)	1	x	\$238.00	=	\$238.00
2+50	Construct landing (\$/Indg)	1	x	\$487.00	=	\$487.00
2C to 2D						
0+00 to 11+00	Common drift (<50% slopes) (\$/cy)	960	x	\$2.25	=	\$2,160.00
	Embankment compaction (\$/cy)	1,010	x	\$0.87	=	\$878.70
	End-haul excavation (\$/cy)	150	x	\$4.99	=	\$748.50
11+00	Construct landing (\$/Indg)	1	x	\$487.00	=	\$487.00
2E to 2F						
0+00 to 1+00	Balanced construction (\$/sta)	1.0	x	\$154.00	=	\$154.00
1+00	Construct landing (\$/Indg)	1	x	\$487.00	=	\$487.00
2G to 2H						
0+00 to 5+20	Balanced construction (\$/sta)	5.2	x	\$154.00	=	\$800.80
SUB TOTAL FOR EXCAVATION						

\$25,773

Location	Dia/type	Lineal ft.	Rate	Cost
1A to 1B				
0+90	18" CPP	30	\$29.73	\$891.90
2+90	18" CPP	30	\$29.73	\$891.90
5+15	18" CPP	30	\$29.73	\$891.90
7+80	18" CPP	30	\$29.73	\$891.90
13+70	18" CPP	30	\$29.73	\$891.90
17+70	18" CPP	30	\$29.73	\$891.90

	Description	Quantity	Rate	Cost
Other/miscellaneous:				
Culvert stakes & markers:	6' x 2 1/2" white fiberglass posts	6	\$25.53	\$153.18

SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION \$5,505

Subtotal of Clearing, Exc., Culv.	\$38,820
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SURFACING

SURFACING									
Subgrade prep:			Description			Stations/ amount	Rate/ sta/amt	Cost	
Grade, Shape and Ditch 16':			1A to 1B (19.5), 2A to 2B (2.5), 2C to 2D (11), 2E to 2F (1)			34.0	x	\$30.98	\$1,053
Grade, Shape, Outslope 14':			1C to 1D (2.3), 2G to 2H (5.2)			7.5	x	\$22.89	\$172
Subgrade Compaction:			1A to 1B (19.5), 1C to 1D (2.3), 2A to 2B (2.5), 2C to 2D (11), 2E to 2F (1), 2G to 2H (5.2)			41.5	x	\$25.19	\$1,045
ROAD SEGMENT									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta. 0+00 to 19+50 Number of	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				1A to 1B	Volume (CY) per				
Base Rock	4"-0" crushed	0+00 to 18+50	10	station	63	stations	18.5	\$6.07	\$7,075
Base Rock	6"-0" jaw-run	18+50 to 19+50	10	station	88	stations	1	\$6.07	\$534
Traction Rock	3/4"-0" crushed	0+00 to 9+00	2	station	13	stations	9	\$2.65	\$310
Junction Rock	3/4"-0" crushed	0+00	N/A	junction	33	junctions	1	\$2.65	\$87
Turnarounds	4"-0" crushed	9+20, 16+30	N/A	turnaround	11	turnarounds	2	\$6.07	\$134
Turnouts	3/4"-0" crushed	1+30, 4+20	N/A	turnout	11	turnouts	2	\$2.65	\$58
		1+30, 4+20, 11+45							
Turnouts	4"-0" crushed		N/A	turnout	11	turnouts	3	\$6.07	\$200
Fill Armoring	24"-6" riprap	7+25 to 8+25	N/A	load	11	loads	2	\$6.07	\$134
Subgrade Reinforcement	6"-0" jaw-run	0+00 to 19+50	N/A	load	11	loads	10	\$6.07	\$668
Cutbank Reinforcement	24"-6" riprap	0+00 to 19+50	N/A	load	11	loads	10	\$6.07	\$668
		0+90, 2+90,							
Culvert Energy Dissipator	24"-6" riprap	5+15, 7+80	N/A	dissipator	11	dissipators	4	\$6.07	\$267
Landings	6"-0" pit-run	19+50	N/A	landing	88	landings	1	\$6.07	\$534
Total Rock for Road Segment:				1A to 1B		1,855		\$10,669	
ROAD SEGMENT									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta. 0+00 to 2+30 Number of	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				1C to 1D	Volume (CY) per				
Base Rock	4"-0" crushed	0+00 to 1+00	8	station	50	stations	1	\$6.07	\$304
Junction Rock	4"-0" crushed	0+00	N/A	junction	11	junctions	1	\$6.07	\$67
Total Rock for Road Segment:				1C to 1D		61		\$370	
ROAD SEGMENT									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta. N/A Number of	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				1E	Volume (CY) per				
Landings	6"-0" pit-run	N/A	N/A	landing	66	landings	1	\$6.07	\$401
Total Rock for Road Segment:				1E		66		\$401	

ROAD SEGMENT			2A to 2B		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	2A to 2B		0+00 to 2+50					
				Volume (CY) per	Number of	Volume (CY) per	Number of				
Base Rock	4"-0" crushed	0+00 to 1+50	10	station	63	stations	1.5	95	\$6.07	\$574	
Base Rock	6"-0" jaw-run	1+50 to 2+50	10	station	88	stations	1	88	\$6.07	\$534	
Junction Rock	1 1/2"-0" crushed	0+00	N/A	junction	11	junctions	1	11	\$2.65	\$29	
Landings	6"-0" pit-run	2+50	N/A	landing	88	landings	1	88	\$6.07	\$534	
Total Rock for Road Segment:				2A to 2B				282	\$1,671		
ROAD SEGMENT			2C to 2D		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	2C to 2D		0+00 to 11+00					
				Volume (CY) per	Number of	Volume (CY) per	Number of				
Base Rock	4"-0" crushed	0+00 to 10+00	10	station	63	stations	10	630	\$6.07	\$3,824	
Base Rock	6"-0" jaw-run	10+00 to 11+00	10	station	88	stations	1	88	\$6.07	\$534	
Traction Rock	3/4"-0" crushed	0+00 to 10+00	2	station	13	stations	10	130	\$2.65	\$345	
Junction Rock	1 1/2"-0" crushed	0+00	N/A	junction	22	junctions	1	22	\$2.65	\$58	
Fill Armorng	24"-6" riprap	8+50 to 9+50	N/A	load	11	loads	16	176	\$6.07	\$1,068	
Turnarounds	4"-0" crushed	9+80	N/A	turnaround	11	turnarounds	1	11	\$6.07	\$67	
Turnouts	4"-0" crushed	3+00	N/A	turnout	11	turnouts	1	11	\$6.07	\$67	
Landings	6"-0" pit-run	11+00	N/A	landing	88	landings	1	88	\$6.07	\$534	
Total Rock for Road Segment:				2C to 2D				1,156	\$6,497		
ROAD SEGMENT			2E to 2F		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	2E to 2F		0+00 to 1+00					
				Volume (CY) per	Number of	Volume (CY) per	Number of				
Base Rock	6"-0" jaw-run	0+00 to 1+00	8	station	50	stations	1	50	\$6.07	\$304	
Junction Rock	3/4"-0" crushed	0+00	N/A	junction	11	junctions	1	11	\$2.65	\$29	
Landings	6"-0" pit-run	1+00	N/A	landing	88	landings	1	88	\$6.07	\$534	
Total Rock for Road Segment:				2E to 2F				149	\$333		
ROAD SEGMENT			2G to 2H		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	2G to 2H		0+00 to 5+20					
				Volume (CY) per	Number of	Volume (CY) per	Number of				
Base Rock	4"-0" crushed	0+00 to 1+00	8	station	50	stations	1	50	\$6.07	\$304	
Junction Rock	4"-0" crushed	0+00	N/A	junction	11	junctions	1	11	\$6.07	\$67	
Total Rock for Road Segment:				2G to 2H				61	\$370		
Processing:											
				Description				No. sta	Rate/sta	Cost	
				Water, Process & Compact Base Rock (4"-0"):				1A to 1B (19.5), 2A to 2B (2.5),	35	\$70.47	\$2,466
								2C to 2D (11), 2E to 2F (1), 2G to 2H (1)			
				Water, Process & Compact Traction Rock (3/4"-0"):				1A to 1B (9), 2C to 2D (10)	19	\$70.47	\$1,339
SUB TOTAL FOR SURFACING											
24"-6" rr		352	6"-0" jr	424	418	6"-0"pr	418	2,089	33.0	313	3,629
4"-0"			crushed			1 1/2"-0"	crushed				

SPECIAL PROJECTS					
Description		Cy/Amount	Rate	Cost	
6 1/2oz. woven x 12.5' wide fabric		200	\$1.62	\$324	
1A to 1B (8+00 to 10+00)					
pit-run development		418	\$1.62	\$677	
riprap development		352	\$2.68	\$943	
SUB TOTAL FOR SPECIAL PROJECTS					
			\$1,945		
			Subtotal of Surfacing & Spec. Proj.	\$28,331	
			Subtotal of Clearing, Exc., Culv.	\$38,820	
GRAND TOTAL			\$67,151		

Compiled By: Brittany West Date: 01/21/2025

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Hawkins
ROAD: 11 to 12(76.5), 13 to 14 (1.7), 15 to 16 (4.3)
POINTS:

NEW CONSTRUCTION: STATIONS
IMPROVEMENT: 82.50 STATIONS 1.56 MILES

CLEARING & GRUBBING						
Method	Acres/amount	x	Rate	=	Cost	
SUB TOTAL FOR CLEARING & GRUBBING						\$0

EXCAVATION						
Material	Cy/amount	x	Rate	=	Cost	
I1 to I2						
0+00 to 76+50 Extra C315 time for culvert cleaning (C315/hr)	2	x	\$127.00	=	\$254.00	
4+80 Block existing dirt spur (C315/hr)	1	x	\$127.00	=	\$127.00	
69+00 to 74+35 Bank slough removal (C315/hr)	6	x	\$127.00	=	\$762.00	
Excavate and reshape cutbank (C330/hr)	8	x	\$195.00	=	\$1,560.00	
End haul waste (24cy Dump/hr)	8	x	\$159.00	=	\$1,272.00	
SUB TOTAL FOR EXCAVATION						\$3,975

CULVERT MATERIALS AND INSTALLATION									
Location	Dia/type	Lineal ft.	Rate	Cost	Location	Dia/type	Lineal ft.	Rate	Cost
Other/miscellaneous:					Description	Quantity	Rate	Cost	
Culvert stakes & markers:									
								\$0.00	
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION									\$0

Subtotal of Clearing, Exc., Culv. \$3,975

SURFACING		Subgrade prep:		Description		Stations/amount		Rate/sta/amt		Cost	
				Grade, Shape and Ditch 16' :		I1 to I2 (76.5), I3 to I4 (1.7), I5 to I6 (4.3)		x		\$30.98	
								x		\$2,555.85	
				Subgrade Compaction :		I1 to I2 (76.5), I3 to I4 (1.7), I5 to I6 (4.3)		x		\$25.19	
										\$2,078.18	
ROAD SEGMENT		I1 to I2		POINT TO POINT		I1 to I2		Sta. to Sta.		TOTAL VOLUME (CY)	
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	station	station	per	Number of	stations	Rate/ Sta./ amt.	Cost
Surfacing	3/4"-0" crushed	0+00 to 38+60	2								
Surfacing	1 1/2"-0" crushed	38+60 to 69+00	2								
		6+00, 10+05, 14+20, 16+85, 22+50, 25+70, 31+35									
Turnouts	3/4"-0" crushed	39+70, 43+05, 47+25	N/A	turnout	11	turnouts		7		\$2.65	\$204
Turnouts	1 1/2"-0" crushed	0+00, 17+55, 30+65	N/A	turnout	11	turnouts		3		\$2.65	\$87
Junctions	3/4"-0" crushed	58+70, 67+75	N/A	junction	11	junctions		3		\$2.65	\$87
Junctions	1 1/2"-0" crushed	63+65	N/A	junction	22	junctions		2		\$2.65	\$117
Junctions	1 1/2"-0" crushed		N/A	junction	11	junctions		1		\$2.65	\$29
Total Rock for Road Segment:		I1 to I2		POINT TO POINT		I3 to I4		Sta. to Sta.		TOTAL VOLUME (CY)	
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	load	loads <th data-kind="parent" data-rs="2">per</th> <th data-kind="parent" data-rs="2">Number of</th> <th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th><th data-kind="parent" data-rs="2">Cost</th></th>	per	Number of	loads <th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th> <th data-kind="parent" data-rs="2">Cost</th>	Rate/ Sta./ amt.	Cost
Surface Leveling Rock	4"-0" crushed	0+00 to 1+70	N/A	load	11	loads		3		\$6.07	\$200
Total Rock for Road Segment:		I3 to I4		POINT TO POINT		I5 to I6		Sta. to Sta.		TOTAL VOLUME (CY)	
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	load <th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">per</th><th data-kind="parent" data-rs="2">Number of</th><th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th><th data-kind="parent" data-rs="2">Cost</th></th></th>	loads <th data-kind="parent" data-rs="2">per</th> <th data-kind="parent" data-rs="2">Number of</th> <th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th><th data-kind="parent" data-rs="2">Cost</th></th>	per	Number of	loads <th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th> <th data-kind="parent" data-rs="2">Cost</th>	Rate/ Sta./ amt.	Cost
Surface Leveling Rock	4"-0" crushed	2+40	N/A	load	11	loads		3		\$6.07	\$200
Total Rock for Road Segment:		I5 to I6		POINT TO POINT						TOTAL VOLUME (CY)	
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	load <th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">per</th><th data-kind="parent" data-rs="2">Number of</th><th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th><th data-kind="parent" data-rs="2">Cost</th></th></th>	loads <th data-kind="parent" data-rs="2">per</th> <th data-kind="parent" data-rs="2">Number of</th> <th data-kind="parent" data-rs="2">loads<th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th><th data-kind="parent" data-rs="2">Cost</th></th>	per	Number of	loads <th data-kind="parent" data-rs="2">Rate/ Sta./ amt.</th> <th data-kind="parent" data-rs="2">Cost</th>	Rate/ Sta./ amt.	Cost
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Projects Road Maintenance Cost Summary

Sale: Hawkins
Date: 22-Jan-25
By: Brittany West CB

Type	Equipment/Rationale			Hours	Rate	Cost
Project Work Final Haul Road Maintenance	Grader 14G			8	\$126	\$1,008
Total						\$1,008

Production Rates	Miles/day	Distance(miles)	Days
Grader	1.5	3.15	2.1
Vibratory Roller	1.5	3.15	2.1

NOTE: Nicolai Mainline (Viewpoint to I1)	3.15	Miles
Spot Grade Only		Miles
		Miles
		Miles
TOTAL=	3.15	Miles

CRUSHED ROCK COST

SALE NAME:	Hawkins
PROJECT:	Project Nos. 1 and 2
Stockpile:	West Kerry, Nicolai

MATERIAL: 1 1/2"-0", 3/4"-0"

DATE: 01/23/2025
BY: Brittany West

[illegible]

ROCK HAUL:

Truck type: D20 No. trucks:
 Delay min.: 8 Efficiency: 85%

Ave haul:	\$1.79	/cy
Load:	\$0.33	/cy
Spread:	\$0.53	/cy

Truck type:	<u>D12</u>	No. trucks:	<u>4</u>
Delay min.:	<u>6</u>	Efficiency:	<u>85%</u>

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 1,765

CRUSHED ROCK HAUL COSTS 1,441 cy @ \$2.65 /cy

CRUSHED ROCK COST

SALE NAME:	Hawkins
PROJECT:	Project Nos. 1 and 2
Stockpile:	Viewpoint

DATE: 01/23/2025
BY: Brittany West

[illegible]

ROCK HAUL:

Truck type: D20 No. trucks:
 Delay min.: 8 Efficiency: 85%

Ave haul:	\$4.21	/cy
Load:	\$0.66	/cy
Spread:	\$1.20	/cy

Truck type: D12 No. trucks: 4
 Delay min.: 6 Efficiency: 85%

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 751

CRUSHED ROCK HAUL COSTS 3,350 cy @ \$6.07 /cy

Hawkins TIMBER CRUISE REPORT FY 2025

1. **Sale Area Location:** Portions of Sections 21 & 28 of T7N, R6W, W.M., Clatsop County, OR.
2. **Fund Distribution:** BOF 100% Tax Code: 30-05 (100%)
3. **Sale Acreage by Area:**

Unit	Harvest Type	Gross Acres	Stream Buffer Acres	Reserve Tree Area	Existing R/W Acres	New R/W	Net Acres	Survey Method
1	Clearcut	62	18	1	2	2	39	GIS
2	Clearcut	74	13	2	1	1	57	GIS
3	R/W	3	-	-	-	-	3	LxW
TOTALS		139	31	3	3	3	99	

4. Cruisers and Cruise Dates: Avery Petersen, John Czarnecki, Ryan Simpson, and Kevin Berry (01/15/2025-01/16/2025)

5. Cruise Method and Computation:

Unit 1: Unit 1 was variable plot cruised with a 40 BAF. A total of 37 plots were sampled on a four and a half chain by two and a half chain spacing with a count to grade ratio of 2:1, resulting in 14 grade plots and 23 count plots.

Unit 2: Unit 2 was variable plot cruised with 54.44 BAF. A total of 42 plots were sampled on a five chain by three chain spacing with a count to grade ratio of 2:1, resulting in 15 grade plots and 27 count plots. One grade plot was counted as a "zero" plot as it contained only western redcedar, which is a reserve species.

Unit 3 (R/W): In-unit Right-of-Way consists of new spur roads and landings within Units 1 and 2. Cruise data for Unit 3 was obtained from the U1 cruise.

Data was collected on Allegro 2 data collectors and downloaded to the Atterbury SuperACE 2008 program for computing. See the attached Cruise Designs for more details on the cruise method. The cruise calculations were processed in the Astoria District office.

UNIT(s)	CRUISE	TRACT	TYPE	ACRES
1	HAWK	U1	00CC	39
2	HAWK	U2	00CC	57
3 (R/W)	HAWK	R/W	00CC	3

6. Timber Description:

Unit 1: A clearcut with an average age of 70 years. The stand consists of Douglas-fir and western hemlock, with minor components of red alder. The average take Douglas-fir is approximately 22 inches DBH and 75 feet to a merchantable top. The average take western hemlock is approximately 18 inches DBH and 53 feet to a merchantable top. The average take red alder is approximately 13 inches DBH and 42 feet to a merchantable top. Average net volume to be harvested per acre is 50 MBF. All trees were cruised to a merchantable top of six inches DIB, 40% of form point, or an otherwise anticipated break point.

Unit 2: A clearcut with an average age of 70 years. The stand consists of Douglas-fir and western hemlock, with minor components of red alder. The average take Douglas-fir is approximately 22 inches DBH and 106 feet to a merchantable top. The average take western hemlock is approximately 25 inches DBH and 97 feet to a merchantable top. The average take red alder is approximately 15 inches DBH and 59 feet to a merchantable top. Average net volume to be harvested per acre is 58 MBF. All trees were cruised to a merchantable top of six inches DIB, 40% of form point, or an otherwise anticipated break point.

Unit 3 (R/W) is similar to the timber description in Unit 1. Average net volume to be harvested per acre is 50 MBF.

7. Statistical Analysis and Stand Summary:

Statistics for Stand B.F. volumes

Type	Estimated CV	Target SE%	Actual CV	Actual SE%
U1	40%	9%	37.2%	6.1%
U2	35%	9%	36.2%	5.7%

8. Volumes by Species and Log Grade:

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Conifer

Species	DBH	Net Vol.	SM	2 Saw	3 Saw*	4 Saw	% D & B	% Sale
Douglas-fir	22"	4,634	631	3,119	759	125	5.5%	86%
Western hemlock	23"	761	89	563	101	8	5.1%	13%
TOTALS	--	5,395	720	3,682	860	133	--	--

* This sale includes approximately 14 MBF of 12"+ 3-saw Douglas-fir and 5 MBF of 12"+ 3-saw western hemlock.

Hardwood

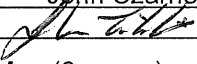
Species	DBH	Net Vol.	12"+	10"-11"	8"-9"	6"-7"	% D & B	% Sale
Red alder	14"	53	-	-	38	15	0%	1%
TOTALS	--	53	-	-	38	15	--	--

TOTAL VOLUME	5,448 MBF
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9. Approvals:

Prepared by: John Czarnecki

Date: 01/17/2025

Unit Forester Approval: 

Date: 2/7/2025

10. **Attachments:** Cruise Design and Map (6 pages)
Volume Report (4 pages)
Statistics Report (4 pages)
Log Stock Table (2 pages)
Stand Table Summary (2 pages)

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Hawkins

Unit U2

Harvest Type: Clearcut

Approx. Cruise Acres: 61 **Estimated CV%** 35 Net BF/Acre **SE% Objective** 9% Net BF/Acre

Planned Sale Volume: 3,249 MBF **Estimated Sale Area Value/Acre:** \$28,500/Acre

A. Cruise Goals: (a) Grade minimum 70 conifer trees.

(b) Sample 42 plots (15 grade / 27 count); (c) Other goals (___ Determine "automark" thinning standards; X Determine log grades for sale value; ___ Determine snag and leave tree species and sizes.

B. Cruise Design:

1. Plot Cruises: BAF: 54.45

Unit 2:

Cruise Line Direction: 11°/191°

Cruise Line Spacing 5 (chains) 330 (feet)

Cruise Plot Spacing 3 (chains) 198 (feet)

Grade/Count Ratio 1:2

Take plots as marked on cruise map.

DO NOT: record any 22' log lengths, or any 12', 24', or 32' log lengths for hardwoods.

DO NOT: record snags < 15" DBH or record snag measurements on count plots.

C. Tree Measurements:

1. Diameter: Minimum DBH to cruise is 8" for conifers and 8" for hardwoods.

Record dbh to nearest 1/2" for trees < 16", to nearest 1" for trees 16" - 24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. Top Cruise Diameter (TCD): Minimum top outside bark is 7" for conifers and 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 20" dbh and 40% of dob @ FP for conifer trees > 20" dbh.

4. Form Factors: (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. Tree Segments: Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for

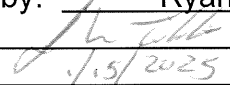
hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree. Hardwoods shall be recorded in 8' and 10' multiples.

6. Species, Sort, and Grade Codes:

- A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); GF (Grand fir); SF (Silver fir); A (Red alder); M (Bigleaf maple); SN (Snag). For "leave trees", add an "L" to the species code (such as DL, HL, CL, etc.).
- B. Sort: Use code "1" (Domestic).
- C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull
Hardwoods: Alder Grades: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill, or R = Camp Run; 0 = Cull.
All Maple Camp Run = R

Grade oversized 3-SAW (DIB $\geq$ 12", knots $> 2\frac{1}{2}$ " inside scaling cylinder affecting $> 50\%$ of log)

7. **Deductions**: Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
8. **Standard Field Procedures**: Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
9. **Cruising Equipment**: Relaskop, Rangefinder, Logger's Tape (with dbh on back), Compass, Allegro II Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint, Permanent Marker.
10. **Attachments**: A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.)

Cruise Design by: Ryan Simpson
Approved by: 
Date: 1/15/2025

TIMBER CRUISE MAP

OF TIMBER SALE CONTRACT
NO. AT-341-2025-W01208-01
HAWKINS
PORTIONS OF SECTIONS
21 & 28 OF T7N, R6W, W.M.,
CLATSOP COUNTY, OREGON

N



Unit 1 (U1)

BAF: 40

Plot Spacing: 2.5 ch. (165 ft)

Count Plots: 23

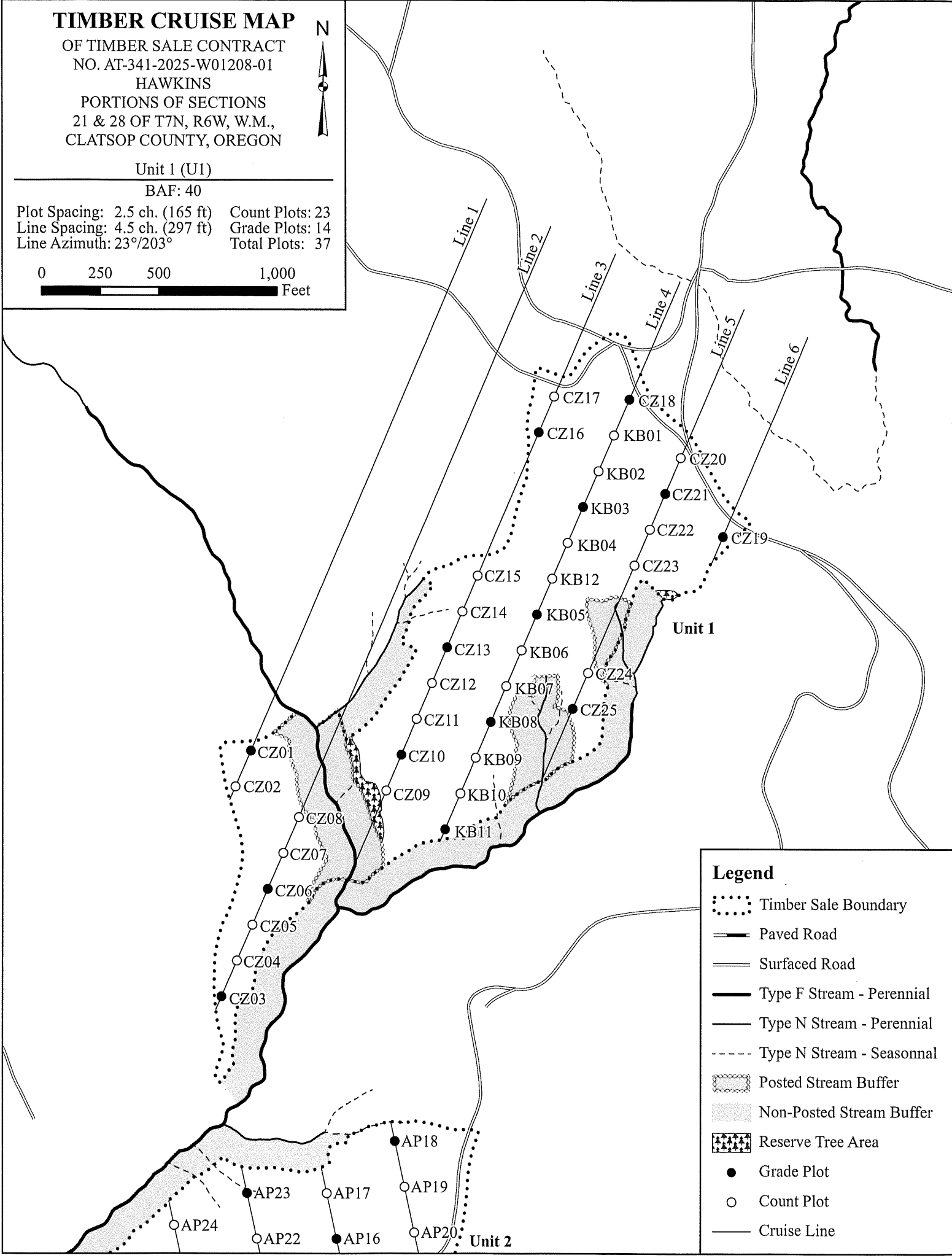
Line Spacing: 4.5 ch. (297 ft)

Grade Plots: 14

Line Azimuth: 23°/203°

Total Plots: 37

0 250 500 1,000
Feet



Legend

- Timber Sale Boundary
- Paved Road
- Surfaced Road
- Type F Stream - Perennial
- Type N Stream - Perennial
- Type N Stream - Seasonal
- Posted Stream Buffer
- Non-Posted Stream Buffer
- Reserve Tree Area
- Grade Plot
- Count Plot
- Cruise Line

TIMBER CRUISE MAP

OF TIMBER SALE CONTRACT
NO. AT-341-2025-W01208-01
HAWKINS
PORTIONS OF SECTIONS
21 & 28 OF T7N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Unit 2 (U2)

BAF: 54.45

Plot Spacing: 3 ch. (198 ft)

Line Spacing: 5 ch. (330 ft)

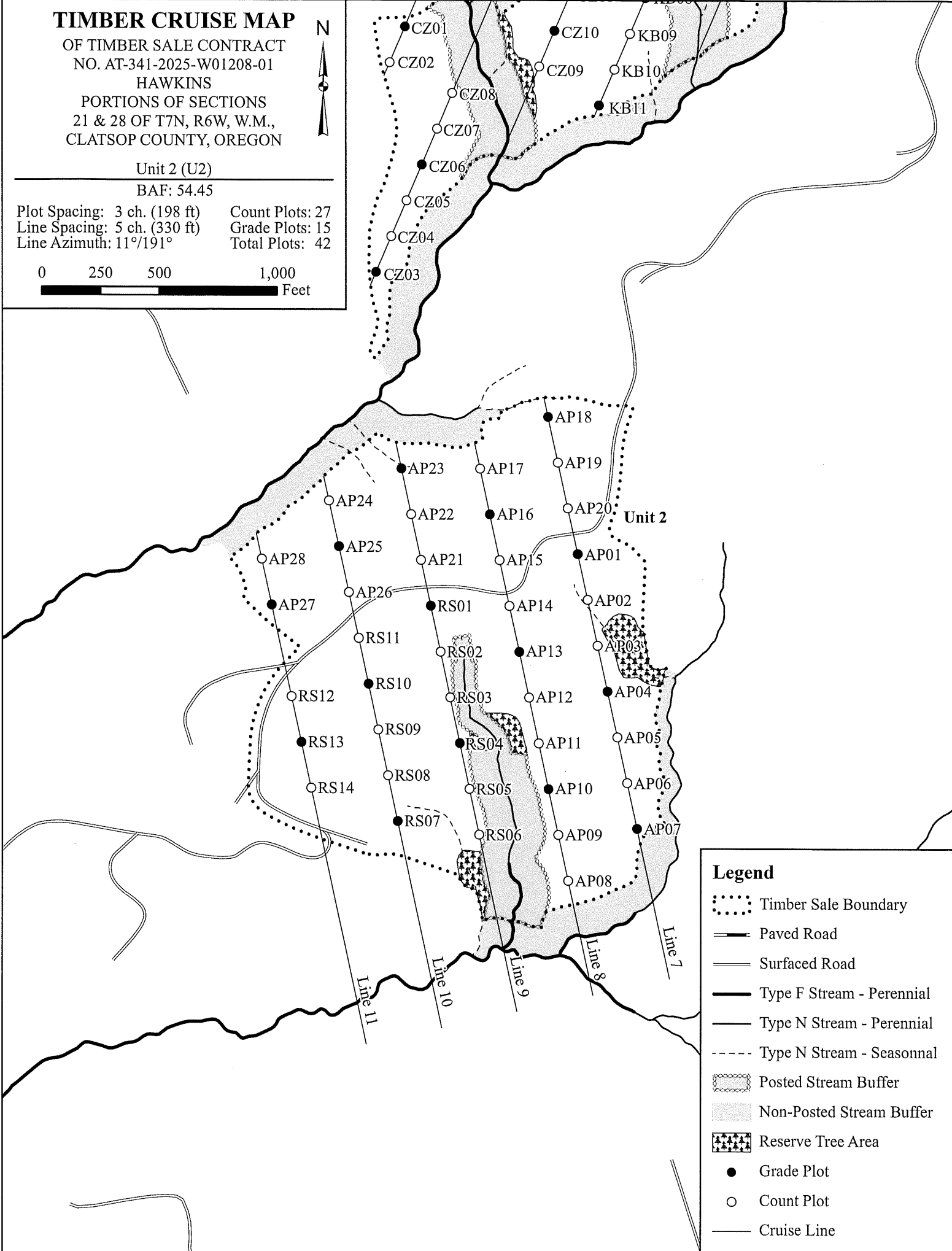
Line Azimuth: 11°/191°

Count Plots: 27

Grade Plots: 15

Total Plots: 42

0 250 500 1,000
Feet



Legend

- Timber Sale Boundary
- Paved Road
- Surfaced Road
- Type F Stream - Perennial
- Type N Stream - Perennial
- Type N Stream - Seasonnal
- Posted Stream Buffer
- Non-Posted Stream Buffer
- Reserve Tree Area
- Grade Plot
- Count Plot
- Cruise Line

Species, Sort Grade - Board Foot Volumes (Project)

T07N R06W S21 Ty00CC	3.00
T07N R06W S21 Ty00CC	39.00
T07N R06W S21 Ty00CC	57.00

Project: **HAWK**
 Acres **99.00**

Page **1**
 Date **1/22/2025**
 Time **1:30:54PM**

Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of 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						
D	DOCU														14	21		0.00		.8
D	DO2S	67	5.6	33,388	31,505	3,119				45	55	0	2	3	95	39	16	372	2.13	84.7
D	DO3S	16	5.4	8,105	7,671	759			98	2		4	8	21	67	35	9	97	0.76	79.2
D	DO4S	3	5.0	1,326	1,259	125		0	100			65	35			20	7	29	0.45	43.9
D	DOSM	14	5.1	6,719	6,375	631				40	60				100	40	17	476	2.55	13.4
D Totals		85	5.5	49,538	46,811	4,634		0	19	36	45	2	4	6	88	34	12	211	1.45	222.0
H	DOCU															14	18		0.00	2.4
H	DO2S	74	5.0	5,984	5,685	563				41	59	4	4	6	86	36	15	346	2.13	16.4
H	DO3S	13	5.5	1,074	1,015	101			95	5		18		31	51	31	9	81	0.77	12.5
H	DO4S	1	5.0	84	80	8			100			100				18	7	25	0.48	3.2
H	DOSM	12	5.0	948	901	89					100				100	40	18	522	2.67	1.7
H Totals		14	5.1	8,090	7,680	761 760			14	31	55	6	3	9	82	32	13	212	1.56	36.2
A	DO3S	71		387	387	38			100						100	40	9	128	0.96	3.0
A	DO4S	29		151	151	15			100			46	54			22	6	30	0.46	5.1
A Totals		1		538	538	53			100			13	15		72	29	7	67	0.72	8.1
Totals			5.4	58,166	55,029	5,448		0	19	35	46	3	4	6	87	33	12	207	1.45	266.3

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1			
				Project: HAWK										Date		1/22/2025			
														Time		1:35:44PM			
T07N R06W S21 T00CC														T07N R06W S21 T00CC					
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt	
07N		06W		21		UI_TAKE		00CC		39.00		37		80		1		W	
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
								Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf			
								4-5 6-11 12-16 17+				12-20 21-30 31-35 36-99							
D DO CU																14 21 0.00			1.9
D DO 2S			78	6.1 39,506 37,101			1,447	37 63				0 4 5 92				38 16 414 2.39			89.7
D DO 3S			13	5.7 6,346 5,982			233	100				7 20 32 42				31 9 93 0.86			64.0
D DO 4S			4	5.0 1,827 1,736			68	100				60 40				21 7 27 0.45			63.2
D DO SM			5	5.0 2,458 2,335			91	58 42				100				40 17 437 2.35			5.3
D Totals			93	5.9 50,137 47,154			1,839	16 32 51				3 7 8 82				31 12 210 1.57			224.1
H DO CU																8 22 0.00			1.0
H DO 2S			47	5.0 1,354 1,286			50	100				100				40 15 338 2.02			3.8
H DO 3S			30	6.5 836 781			30	84 16				22 61 17				30 8 72 0.68			10.8
H DO 4S			1	5.0 44 42			2	100				100				16 7 28 0.53			1.5
H DO SM			22	5.0 605 575			22	100				100				40 18 503 2.64			1.1
H Totals			5	5.5 2,839 2,684			104 105	26 53 21				8 18 74				30 11 147 1.20			18.2
A DO 3S			59	370 370			14	100				100				40 9 120 0.93			3.1
A DO 4S			41	254 254			10	100				24 76				25 6 32 0.47			7.9
A Totals			1	624 624			24	100				10 31 59				29 7 57 0.65			11.0
Type Totals				5.9 53,600 50,463			1,967 1,968	18 33 49				3 7 8 82				31 11 199 1.51			253.3

T	Species, Sort Grade - Board Foot Volumes (Type)										Page		1						
Project: HAWK										Date	1/22/2025								
										Time	1:36:26PM								
T07N R06W S21 T00CC										T07N R06W S21 T00CC									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt										
07N	06W	21	U2_TAKE	00CC	57.00	42	74	1	W										
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Dia	Bd	CF/ Lf			
																		</	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1			
				Project: HAWK										Date		1/22/2025			
														Time		1:34:51PM			
T07N R06W S21 T00CC										T07N R06W S21 T00CC									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt	
07N		06W		21		R/W		00CC		3.00		37		80		1		W	
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
								Log Scale Dia.				Log Length				Ln	Dia	Bd	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	
D DO CU																14	21		0.00
D DO 2S			78	6.1 39,506 37,101			111		37	63		0	4	5	92	38	16	414	2.39
D DO 3S			13	5.7 6,346 5,982			18	100				7	20	32	42	31	9	93	0.86
D DO 4S			4	5.0 1,798 1,708			5	5	95			61	39			21	7	27	0.44
D DO SM			5	5.0 2,458 2,335			7		58	42				100		40	17	437	2.35
D Totals			93	5.9 50,108 47,127			141	0	16	32	51	3	7	8	82	31	12	210	1.57
H DO CU																8	22		0.00
H DO 2S			47	5.0 1,354 1,286			4		100					100		40	15	338	2.02
H DO 3S			30	6.5 836 781			2	84	16			22		61	17	30	8	72	0.68
H DO 4S			1	5.0 44 42			0	100				100				16	7	28	0.53
H DO SM			22	5.0 605 575			2			100				100		40	18	503	2.64
H Totals			5	5.5 2,839 2,684			8	26	53	21		8		18	74	30	11	147	1.20
A DO 3S			59	370 370			1	100						100		40	9	120	0.93
A DO 4S			41	254 254			1	100				24	76			25	6	32	0.47
A Totals			1	624 624			2	100				10	31		59	29	7	57	0.65
Type Totals				5.9 53,571 50,435			151	0	18	33	49	3	7	8	82	31	11	199	1.51

TC PSTATS				PROJECT STATISTICS					PAGE	1		
				PROJECT	HAWK					DATE	1/22/2025	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
07N	06	21	R/W	00CC	99.00	116	737	1	W			
07N	06W	21	U1 TAKE	00CC								
07N	06W	21	U2 TAKE	00CC								
				TREES	ESTIMATED	PERCENT						
				PER PLOT	TOTAL	SAMPLE						
					TREES	TREES						
TOTAL			116	737	6.4							
CRUISE			42	234	5.6	10,380		2.3				
DBH COUNT												
REFOREST												
COUNT			73	503	6.9							
BLANKS			1									
100 %												
STAND SUMMARY												
			SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
			TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR			203	85.5	22.3	91	49.0	231.3	49,538	46,811	11,464	10,891
WHEMLOCK			25	14.3	22.8	83	8.5	40.4	8,090	7,680	1,874	1,781
R ALDER			6	5.1	14.0	47	1.5	5.4	538	538	167	167
TOTAL			234	104.8	22.0	88	59.1	277.1	58,166	55,029	13,505	12,838
CONFIDENCE LIMITS OF THE SAMPLE												
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL	68.1	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
DOUG FIR			72.5	5.1	789	831	874					
WHEMLOCK			66.0	13.5	571	660	749					
R ALDER			51.0	22.7	88	113	139					
TOTAL			74.4	4.9	756	795	833	221	55	25		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
DOUG FIR			61.7	4.3	177	185	193					
WHEMLOCK			58.6	11.9	133	151	169					
R ALDER			44.9	20.0	28	35	42					
TOTAL			63.6	4.2	170	178	185	162	40	18		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
DOUG FIR			87.7	8.1	79	85	92					
WHEMLOCK			217.7	20.2	11	14	17					
R ALDER			383.2	35.5	3	5	7					
TOTAL			80.1	7.4	97	105	113	256	64	28		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
DOUG FIR			84.1	7.8	213	231	249					
WHEMLOCK			230.1	21.3	32	40	49					
R ALDER			405.4	37.6	3	5	7					
TOTAL			77.7	7.2	257	277	297	241	60	27		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
DOUG FIR			87.2	8.1	43,024	46,811	50,598					
WHEMLOCK			242.9	22.5	5,950	7,680	9,410					
R ALDER			451.8	41.9	313	538	764					
TOTAL			81.4	7.6	50,872	55,029	59,186	265	66	29		

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	HAWK	DATE 1/22/2025					
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
07N	06W	21	U1 TAKE	00CC	39.00	37	264	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
		PLOTS	TREES								
TOTAL		37	264	7.1							
CRUISE		14	80	5.7	4,507		1.8				
DBH COUNT											
REFOREST											
COUNT		23	184	8.0							
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR		73	96.8	22.1	75	54.9	258.4	50,137	47,154	11,615	11,035
WHEMLOCK		5	10.8	18.1	53	4.6	19.5	2,839	2,684	696	662
R ALDER		2	7.9	13.3	42	2.1	7.6	624	624	205	205
TOTAL		80	115.6	21.3	71	61.9	285.4	53,600	50,463	12,517	11,901
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL: 68.1 %		COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR		77.8	9.1	772	849	926					
WHEMLOCK		55.9	27.8	284	393	503					
R ALDER		78.6	73.6	24	90	156					
TOTAL		81.3	9.1	729	802	875		264	66	29	
CL: 68.1 %		COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR		66.5	7.8	174	189	203					
WHEMLOCK		53.1	26.4	71	97	122					
R ALDER		68.3	63.9	10	29	48					
TOTAL		69.7	7.8	165	179	193		194	48	22	
CL: 68.1 %		COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR		38.9	6.4	91	97	103					
WHEMLOCK		196.7	32.3	7	11	14					
R ALDER		245.6	40.3	5	8	11					
TOTAL		40.5	6.7	108	116	123		66	16	7	
CL: 68.1 %		COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR		36.4	6.0	243	258	274					
WHEMLOCK		185.3	30.4	14	19	25					
R ALDER		244.1	40.1	5	8	11					
TOTAL		35.9	5.9	269	285	302		51	13	6	
CL: 68.1 %		COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR		38.5	6.3	44,173	47,154	50,135					
WHEMLOCK		187.4	30.8	1,858	2,684	3,511					
R ALDER		248.7	40.8	369	624	879					
TOTAL		37.2	6.1	47,381	50,463	53,544		55	14	6	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	HAWK		DATE 1/22/2025			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
07N	06W	21	U2 TAKE	00CC	57.00	42	209	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		42	209	5.0						
CRUISE		14	74	5.3	5,525	1.3				
DBH COUNT										
REFOREST										
COUNT		27	135	5.0						
BLANKS		1								
100 %										
STAND SUMMARY										
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR		57	77.1	22.4	106	44.6	211.3	49,098	46,560	11,352
WHEMLOCK		15	16.8	24.6	97	11.2	55.7	11,959	11,361	2,743
R ALDER		2	3.0	15.5	59	1.0	3.9	474	474	139
TOTAL		74	96.9	22.6	103	56.9	271.0	61,532	58,395	14,234
										13,530
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		55.0	7.3	728	785	842				
WHEMLOCK		55.1	14.7	715	838	961				
R ALDER		8.8	8.3	147	160	173				
TOTAL		56.7	6.6	728	779	830	128	32	14	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		46.1	6.1	166	177	188				
WHEMLOCK		48.8	13.0	163	188	212				
R ALDER		9.0	8.5	43	47	51				
TOTAL		48.3	5.6	166	175	185	93	23	10	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		63.9	9.8	70	77	85				
WHEMLOCK		157.8	24.3	13	17	21				
R ALDER		478.3	73.7	1	3	5				
TOTAL		46.3	7.1	90	97	104	85	21	9	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		57.5	8.9	193	211	230				
WHEMLOCK		153.3	23.6	43	56	69				
R ALDER		478.3	73.7	1	4	7				
TOTAL		40.3	6.2	254	271	288	65	16	7	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		56.3	8.7	42,520	46,560	50,599				
WHEMLOCK		153.0	23.6	8,681	11,361	14,042				
R ALDER		478.3	73.7	125	474	824				
TOTAL		39.8	6.1	54,811	58,395	61,979	63	16	7	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	HAWK		DATE 1/22/2025			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
07N	06W	21	R/W	00CC	3.00	37	264	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		37	264	7.1						
CRUISE		14	80	5.7		347		23.1		
DBH COUNT										
REFOREST										
COUNT		23	184	8.0						
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	73	96.8	22.1	75	54.9	258.4	50,108	47,127	11,608	11,027
WHEMLOCK	5	10.8	18.1	53	4.6	19.5	2,839	2,684	696	662
R ALDER	2	7.9	13.3	42	2.1	7.6	624	624	205	205
TOTAL	80	115.6	21.3	71	61.9	285.4	53,571	50,435	12,509	11,894
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	77.8	9.1	772	849	926					
WHEMLOCK	55.9	27.8	284	393	503					
R ALDER	78.6	73.6	24	90	156					
TOTAL	81.4	9.1	729	802	875		264	66	29	
CL: 68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	66.5	7.8	174	189	203					
WHEMLOCK	53.1	26.4	71	97	122					
R ALDER	68.3	63.9	10	29	48					
TOTAL	69.7	7.8	165	179	193		194	49	22	
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	38.9	6.4	91	97	103					
WHEMLOCK	196.7	32.3	7	11	14					
R ALDER	245.6	40.3	5	8	11					
TOTAL	40.5	6.7	108	116	123		66	16	7	
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	36.4	6.0	243	258	274					
WHEMLOCK	185.3	30.4	14	19	25					
R ALDER	244.1	40.1	5	8	11					
TOTAL	35.9	5.9	269	285	302		51	13	6	
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	38.5	6.3	44,147	47,127	50,107					
WHEMLOCK	187.4	30.8	1,858	2,684	3,511					
R ALDER	248.7	40.8	369	624	879					
TOTAL	37.2	6.1	47,355	50,435	53,516		55	14	6	

TC PLOGSTVB			Log Stock Table - MBF																	
T07N R06W S21 Ty00CC 3.00 T07N R06W S21 Ty00CC 39.00 T07N R06W S21 Ty00CC 57.00							Project: HAWK							Page 1						
							Acres 99.00							Date 1/22/2025						
														Time 1:30:07PM						
Spp	S T	So Gr rt de	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	40+	
D		DO 2S	14	1	5.0	1	.0					1								
D		DO 2S	24	47	6.6	44	.9					14	11	3	15					
D		DO 2S	26	3	5.0	3	.1					3								
D		DO 2S	28	7	5.0	6	.1					6								
D		DO 2S	30	12	5.0	11	.2						3		8					
D		DO 2S	32	105	6.6	98	2.1					42	17	29		10				
D		DO 2S	34	7	5.0	7	.1					7								
D		DO 2S	36	75	5.0	71	1.5					48		23						
D		DO 2S	40	3,049	5.6	2,878	62.1					463	525	1057	544	243		47		
D		DO 3S	14	2	5.0	1	.0					1								
D		DO 3S	16	6	5.0	6	.1					6								
D		DO 3S	20	21	5.0	20	.4				8	12								
D		DO 3S	24	37	10.2	33	.7				4	29								
D		DO 3S	26	3	5.0	2	.1					2								
D		DO 3S	28	12	5.0	12	.2					12								
D		DO 3S	30	17	5.0	17	.4			6	3	7								
D		DO 3S	32	135	5.0	129	2.8			30	28	64		7						
D		DO 3S	34	31	7.9	29	.6				12	10	7							
D		DO 3S	36	70	5.0	67	1.4			15	23	28								
D		DO 3S	38	10	5.0	9	.2			4	5									
D		DO 3S	40	457	5.0	434	9.4			56	148	231								
D		DO 4S	14	3	5.0	2	.1				2									
D		DO 4S	16	48	5.0	46	1.0			28	14	4								
D		DO 4S	18	5	5.0	4	.1		0	3	1									
D		DO 4S	20	29	5.0	28	.6			20	8									
D		DO 4S	24	27	5.0	25	.5			23	2									
D		DO 4S	26	4	5.0	3	.1		0	3										
D		DO 4S	28	16	5.0	16	.3			16										
D		DO SM	40	665	5.1	631	13.6							446		186				
D		Totals		4,904	5.5	4,634	85.1		0	204	259		406	592	562	1558	753	252	47	
H		DO 2S	18	9	5.0	8	1.1					8								
H		DO 2S	20	14	5.0	13	1.7					2		11						
H		DO 2S	30	26	5.0	25	3.3									25				
H		DO 2S	32	36	5.0	35	4.6					12	11	12						
H		DO 2S	36	84	5.0	79	10.4					10		52		18				
H		DO 2S	40	423	5.0	402	52.9					63	104	142	30	63				

TC PLOGSTVB				Log Stock Table - MBF																
T07N R06W S21 Ty00CC3.00 T07N R06W S21 Ty00CC39.00 T07N R06W S21 Ty00CC57.00				Project: HAWK										Page 2						
				Acres 99.00										Date 1/22/2025						
														Time 1:30:07PM						
Spp	S T	So rt	Gr de	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	40+
H		DO	3S	16	9	10.8	8	1.1					3		5					
H		DO	3S	20	10	5.0	10	1.3				7	3							
H		DO	3S	32	33	5.0	31	4.1			18	5	8							
H		DO	3S	36	10	5.0	9	1.2				5	5							
H		DO	3S	38	5	5.0	5	.6				5								
H		DO	3S	40	40	5.0	38	4.9				26	12							
H		DO	4S	16	6	5.0	5	.7			4	2								
H		DO	4S	20	3	5.0	3	.3			3									
H		DO	SM	40	94	5.0	89	11.7							56		33			
H		Totals			801	5.1	760	14.0			24	49	30	95	120	272	106	63		
A		DO	3S	40	38		38	71.9				26	12							
A		DO	4S	16	7		7	12.9			7									
A		DO	4S	30	8		8	15.2			8									
A		Totals			53		53	1.0			15	26	12							
Total		All Species			5,758	5.4	5,448	100.0		0	243	335	448	687	682	1831	859	316	47	

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		1/22/2025	
T07N R06W S21 Ty00CC3.00 T07N R06W S21 Ty00CC39.00 T07N R06W S21 Ty00CC57.00				ProjectHAWK						Time:		1:33:59PM					
				Acres99.00						Grown Year:							
S Spec T	Sample		Tot					Average Log		Net		Net		T o t a l s			
	DBH	Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF		
D	10	4	88	32	5.506	3.00	5.51	7.6	28.5		42	157		41	16		
D	11	4	87	46	4.551	3.00	4.55	11.4	28.5		52	130		51	13		
D	12	1	85	114	2.718	2.13	5.44	14.7	57.0		80	310		79	31		
D	13	1	85	136	2.316	2.13	4.63	21.9	85.5		101	396		100	39		
D	14	2	85	86	1.405	1.50	2.81	16.1	52.2		45	147		45	15		
D	15	4	89	107	4.702	5.77	9.40	24.4	96.8		230	910		227	90		
D	16	2	85	90	1.075	1.50	2.15	23.7	85.5		51	184		51	18		
D	17	1	86	112	1.354	2.13	2.71	30.9	114.0		84	309		83	31		
D	18	5	86	132	4.473	7.91	12.57	29.0	107.7		365	1,354		361	134		
D	19	8	85	126	4.456	8.77	11.84	33.6	124.2		398	1,471		394	146		
D	20	11	87	122	5.688	12.41	15.69	35.8	141.1		562	2,214		556	219		
D	21	15	85	118	6.408	15.41	18.34	36.1	139.6		662	2,560		655	253		
D	22	7	87	129	2.515	6.64	7.78	40.2	168.8		313	1,314		310	130		
D	23	13	86	139	5.781	16.68	16.82	49.3	203.3		829	3,420		820	339		
D	24	15	85	138	6.668	20.95	20.68	49.7	206.7		1,028	4,275		1,017	423		
D	25	7	86	144	3.571	12.17	11.34	54.0	235.2		612	2,668		606	264		
D	26	13	86	143	4.524	16.68	13.57	61.7	269.1		838	3,652		829	362		
D	27	8	86	130	2.207	8.77	6.08	66.2	272.8		403	1,659		399	164		
D	28	16	85	142	4.104	17.55	12.81	66.8	295.9		855	3,791		847	375		
D	29	12	86	144	2.567	11.78	7.84	75.7	344.9		593	2,704		587	268		
D	30	7	85	138	1.353	6.64	4.06	75.5	346.1		306	1,404		303	139		
D	31	6	85	164	1.915	10.04	6.97	81.9	403.3		571	2,810		565	278		
D	32	6	85	149	1.302	7.27	3.91	96.2	448.7		376	1,753		372	174		
D	33	4	83	163	.972	5.77	3.27	96.0	467.0		314	1,529		311	151		
D	34	10	84	140	1.191	7.51	3.81	96.2	445.9		367	1,699		363	168		
D	35	5	84	143	.769	5.14	2.63	95.3	455.3		250	1,196		248	118		
D	36	6	86	123	.637	4.50	1.70	117.1	549.8		199	934		197	93		
D	38	2	85	153	.191	1.50	.57	138.7	699.8		79	400		79	40		
D	39	2	85	140	.181	1.50	.54	137.1	684.0		74	371		74	37		
D	42	2	86	122	.156	1.50	.47	143.1	709.3		67	332		66	33		
D	45	2	83	157	.136	1.50	.41	185.9	934.2		76	381		75	38		
D	52	2	89	126	.102	1.50	.31	227.4	1238.2		69	378		69	37		
D	Totals	203	86	120	85.493	231.28	221.21	49.2	211.6		10,891	46,811		10,782	4,634		
H	11	2	88	50	2.502	1.65	2.50	13.3	47.5		33	119		33	12		
H	17	1	85	134	1.358	2.14	4.07	27.9	107.7		113	438		112	43		
H	19	1	82	96	1.087	2.14	2.17	37.5	123.5		82	268		81	27		
H	20	1	88	133	.981	2.14	1.96	37.1	180.5		73	354		72	35		
H	22	2	85	111	.625	1.65	1.88	39.9	167.8		75	315		74	31		
H	23	3	87	129	1.314	3.79	3.37	54.8	241.7		185	814		183	81		
H	24	2	87	118	1.362	4.28	4.09	50.7	215.3		207	880		205	87		
H	25	3	87	131	1.112	3.79	2.85	68.4	295.2		195	842		193	83		
H	26	1	82	112	.580	2.14	1.74	54.2	218.5		94	380		93	38		
H	27	3	82	111	.953	3.79	2.44	59.6	251.4		146	615		144	61		
H	28	2	84	121	1.001	4.28	3.00	65.4	294.5		196	884		194	88		
H	29	1	82	124	.466	2.14	.93	75.1	323.0		70	301		69	30		
H	32	1	82	127	.383	2.14	1.15	89.6	402.2		103	462		102	46		
H	36	1	83	143	.303	2.14	.91	123.5	614.3		112	558		111	55		
H	39	1	82	116	.258	2.14	.77	125.1	579.5		97	448		96	44		
H	Totals	25	85	109	14.285	40.35	33.85	52.6	226.9		1,781	7,680		1,763	760		
A	12	2	87	43	2.044	1.61	2.04	15.0	40.0		31	82		30	8		
A	15	3	86	78	2.220	2.72	4.44	21.7	72.1		96	320		95	32		
A	16	1	87	75	.802	1.12	1.60	25.0	85.0		40	136		40	13		

TC		PSTNDSUM		Stand Table Summary								Page 2			
												Date: 1/22/2025			
T07N R06W S21 Ty00CC3.00 T07N R06W S21 Ty00CC39.00 T07N R06W S21 Ty00CC57.00				ProjectHAWK Acres99.00								Time:1:33:59PM Grown Year:			
S	Tot				Average Log			Net		Net		Totals			
Spc	DBH	Sample Trees	FF 16'	Av Ht	Trees/Acre	BA/Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
A	Totals	6	87	64	5.066	5.45	8.09	20.7	66.5	167	538		165	53	
Totals		234	86	116	104.845	277.08	263.14	48.8	209.1	12,838	55,029		12,710	5,448	

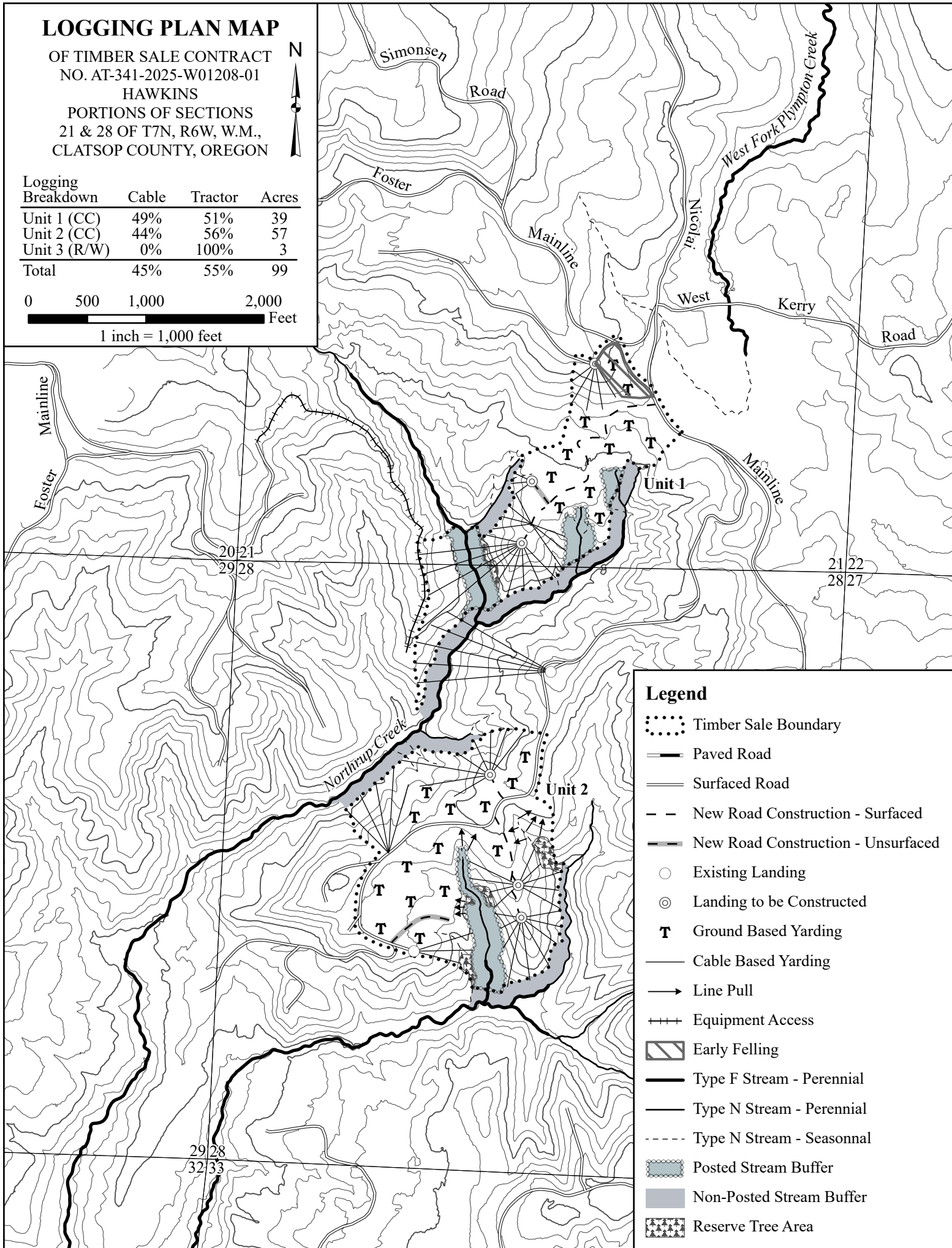
LOGGING PLAN MAP

OF TIMBER SALE CONTRACT
NO. AT-341-2025-W01208-01
HAWKINS
PORTIONS OF SECTIONS
21 & 28 OF T7N, R6W, W.M.,
CLATSOP COUNTY, OREGON



Logging Breakdown	Cable	Tractor	Acres
Unit 1 (CC)	49%	51%	39
Unit 2 (CC)	44%	56%	57
Unit 3 (R/W)	0%	100%	3
Total	45%	55%	99

0 500 1,000 2,000 Feet
1 inch = 1,000 feet



Legend

- Timber Sale Boundary
- Paved Road
- Surfaced Road
- New Road Construction - Surfaced
- New Road Construction - Unsurfaced
- Existing Landing
- Landing to be Constructed
- Ground Based Yarding
- Cable Based Yarding
- Line Pull
- Equipment Access
- Early Felling
- Type F Stream - Perennial
- Type N Stream - Perennial
- Type N Stream - Seasonnal
- Posted Stream Buffer
- Non-Posted Stream Buffer
- Reserve Tree Area