



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Thin Piper
Sale FG-341-2026-W01160-01

District: Forest Grove

Date: April 23, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$860,556.92	\$0.00	\$860,556.92
		Project Work:	(\$93,800.00)
		Advertised Value:	\$766,756.92



Timber Sale Appraisal
Thin Piper
Sale FG-341-2026-W01160-01

District: Forest Grove

Date: April 23, 2025

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	98
Western Hemlock / Fir	15	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	188	1,761	1,949
Western Hemlock / Fir	8	23	31
Total	196	1,784	1,980

Comments: LOCAL POND VALUES, FEB 2025

NOBLE FIR AND OTHER CONIFERS:

STUMPAGE PRICE = POND VALUE - WESTERN HEMLOCK LOGGING COST

\$211.10 = \$533.71 - \$322.61

RED ALDER AND OTHER HARDWOODS:

STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST

\$190.32 = \$496 - \$305.68

WESTERN REDCEDAR AND OTHER CEDARS:

STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST

\$874.32 = \$1,180 - \$305.68

BRANDING AND PAINTING ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$5.00/GAL

HAULING COST ALLOWANCE = \$1,250/DAY

OTHER COSTS (WITH PROFIT & RISK ADDED): N/A

OTHER COSTS (NO PROFIT & RISK ADDED):

EQUIPMENT CLEANING: 3 PIECES @ \$1,000/PIECE = \$3,000

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS:

30 HOURS X \$200/HOUR = \$6,000

TOTAL OTHER COSTS (NO P&R) = \$9,000

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):

MOVE IN: \$6,887.14

GENERAL ROAD MAINT: 14.13 miles X \$2,632.69 = \$37,199.90

TOTAL ROAD MAINTENANCE: \$44,087.04 / 1,980 MBF = \$22.27 /MBF



"STEWARDSHIP IN FORESTRY"

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Logging Conditions

Combination#: 1 Douglas - Fir 21.47%
 Western Hemlock / Fir 20.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 15 **bd. ft / load:** 3770
cost / mbf: \$141.08
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 78.53%
 Western Hemlock / Fir 80.00%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 18 **bd. ft / load:** 3700
cost / mbf: \$150.15
machines: Forwarder
Harvester



"STEWARDSHIP IN FORESTRY"

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Date: April 23, 2025

Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$93,800.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$9,000.00

Miles of Road

Road Maintenance: \$22.27

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	3.0	4.4
Western Hemlock / Fir	\$0.00	3.0	3.8



"STEWARDSHIP IN FORESTRY"

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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
Douglas - Fir									
\$148.20	\$22.72	\$4.43	\$96.59	\$0.00	\$27.19	\$0.00	\$2.00	\$4.55	\$305.68
Western Hemlock / Fir									
\$148.34	\$22.72	\$4.43	\$111.84	\$0.00	\$28.73	\$0.00	\$2.00	\$4.55	\$322.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$743.86	\$438.18	\$0.00
Western Hemlock / Fir	\$0.00	\$533.71	\$211.10	\$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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,949	\$438.18	\$854,012.82
Western Hemlock / Fir	31	\$211.10	\$6,544.10

Gross Timber Sale Value

Recovery: \$860,556.92

Prepared By: Adrian Torres

Phone: 503-357-2191

TIMBER SALE SUMMARY
Thin Piper
#FG-341-2026-W01160-01

1. **Location:** Portions of Sections 12, 13, 26, and 27, T4N, R5W, W.M., Clatsop County, Oregon. Portions of Section 17, T3N, R6W, W.M., Columbia County, Oregon.
2. **Type of Sale:** The Timber Sale Area is 153 acres. It consists of five Moderate Partial Cut Units, and one Right-of-Way Unit. Unit 1 (PC-M) is 111 acres, Unit 2 (PC-M) is 10 acres, Unit 3 (PC-M) is 13 acres, Unit 4 (PC-M) is 10 acres, Unit 5 (PC-M) is 6 acres and Unit 6 (R/W) is 3 acres. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 96% Clatsop County (8-01), Columbia County 4%.
4. **Sale Acreage:** Acres are net of Stream Buffers and road prisms. Acreage was determined using ESRI ArcMap GIS Pro software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in March of 2025. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, 40-46 year-old stand of Douglas-fir with minor components of western hemlock, noble fir, grand fir, western red cedar, red alder and bigleaf maple. The following table summarizes ODF cruise estimates for harvestable trees in these stands.

Sale Unit	Net Acres	Average DBH	Trees/Acre	Net MBF/Acre
Unit 1	111	14	89	12.3
Unit 2	10	14	106	14.8
Unit 3	13	15	86	14
Unit 4	10	15	62	11
Unit 5	6	13	128	17
Unit 6	3	*	*	37

* = see the Cruise Report

7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with variable aspects. Unit 1 is 80% ground-based Yarding and 20% cable-based Yarding. Unit 2 is 87% ground-based Yarding and 13% cable-based Yarding. Unit 3 is 54% ground-based Yarding and 46% cable-based Yarding. Unit 4 is 47% ground-based Yarding and 53% cable-based Yarding. Unit 5 is 100% ground-based Yarding. Unit 6 is 100% ground-based Yarding. The average horizontal skid trail length is 200 feet and the maximum is approximately 600 feet. The average cable Yarding road length is 300 feet and the maximum is approximately 600 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced roads. From Forest Grove, travel north on Highway 47 through Banks then merge onto Highway 26 westbound and continue for 20 miles to McGregor Road, which is just before mile marker 29. Turn right and continue for 2 miles to Music Road. Turn right and continue for 0.7 miles to access Unit 1. From the intersection of McGregor Road and Music Road continue on McGregor Road for 6 miles to Lower Rock Creek Road. Turn left and continue for 200 feet to access Unit 2. Continue on Lower Rock Creek Road for 0.4 miles to access Unit 3. Continue on Lower Rock Creek Road for 0.4 miles to access Unit 4. From the intersection of McGregor Road and Lower Rock Creek Road continue on McGregor Road for 155 feet to Pit Road. Turn right and continue for 3 miles to access Unit 5.
9. **Projects:**

Project No. 1: Dirt Road Construction	\$27,148.72
Project No. 2: Road Improvement, Surface Rock Replacement, and Maintenance	\$62,730.11
Project No. 3: Road Blocking	\$3,921.17
Total Credit for all Projects	\$93,800.00

PROJECT COST SUMMARY SHEET

Timber Sale: Thin Piper
Sale Number: FG-341-2026-W01160-01

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

Road Segment	Length	Cost
D to E	2+30	\$2,727.50
F to G	7+90	\$5,534.84
J to K	4+05	\$1,633.71
P to Q	14+55	\$5,515.96
R to S	13+00	\$4,967.36
T to U	4+40	\$1,904.74
V to W	8+95	\$3,347.16
	55+15 stations 1.04 miles	
	Move-in =	\$1,517.46

TOTAL PROJECT COST = \$27,148.72

PROJECT NO. 2: ROAD IMPROVEMENT

Road Segment	Length	Cost
A to B	423+90	\$15,766.65
B to C	158+85	\$17,930.87
H to I	58+45	\$14,128.67
L to M	25+80	\$1,673.13
N to O	78+85	\$9,724.54
	745+85 stations 14.13 miles	
Total Rock =	329 cy 168 cy 48 cy	1½" - 0 4" - 0 Riprap
	Move-in =	\$3,506.25

TOTAL PROJECT COST = \$62,730.11

PROJECT NO. 3: ROAD BLOCKING

Road Segment	Length	Cost
D to E	2+30	\$527.42
F to G	7+90	\$560.20
J to K	4+05	\$122.50
P to Q	14+55	\$215.50
R to S	13+00	\$184.50
T to U	4+40	\$122.50
V to W	8+95	\$184.50
	55+15 stations 1.04 miles	
	Move-in =	\$2,004.05

TOTAL PROJECT COST = \$3,921.17

TOTAL CREDITS = \$93,800.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper

Sale Number: FG-341-2026-W01160-01

PROJECT No. 1 & 2 MOVE-IN & CLEANING COSTS

<u>Equipment</u>	<u>Total</u>
Grader	\$351.85
Loader	\$361.55
Roller Compactor	\$336.55
Excavator	\$1,696.61
Dozer	\$1,696.61
Dump Truck	\$302.89
Water Truck	\$277.65
	<u>TOTAL MOVE-IN COSTS =</u>
	<u><u>\$5,023.71</u></u>

PROJECT No. 3 MOVE-IN & CLEANING COSTS

<u>Equipment</u>	<u>Total</u>
Excavator	\$1,696.61
Dump Truck	\$307.44
	<u>TOTAL MOVE-IN COSTS =</u>
	<u><u>\$2,004.05</u></u>

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
 Road Segment: A to B

Sale Number: FG-341-2026-W01160-01
 Improvement: 423+90 stations
8.03 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Grade & roll 423.90 sta @ \$36.00 per sta = \$15,260.40

TOTAL IMPROVEMENT COSTS = \$15,260.40

EROSION CONTROL

Grass seed & fertilizer 0.30 ac @ \$697.50 per ac = \$209.25

Straw mulch acre 0.30 ac @ \$990.00 per ac = \$297.00

TOTAL EROSION CONTROL COSTS = \$506.25

TOTAL PROJECT COST = \$15,766.65

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: B to C

Sale Number: FG-341-2026-W01160-01
Improvement: 158+85 stations
3.01 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	1.82	ac @	\$1,353.60 per acre =	\$2,463.55
Clean ditch & end-haul waste material	5.45	sta @	\$66.00 per sta =	\$359.70
Haul waste material	39	cy @	\$4.79 per cy =	\$186.81
Shape and compact waste material	39	cy @	\$0.40 per cy =	\$15.60
Clean culvert inlet & outlet, scatter waste	7	ea @	\$27.50 per ea =	\$192.50
Clean culvert inlet & outlet, end-haul waste	1	ea @	\$27.50 per ea =	\$27.50
Haul waste material	1	cy @	\$4.79 per cy =	\$4.79
Shape and compact waste material	1	cy @	\$0.40 per cy =	\$0.40
Construct settling pond	39	ea @	\$27.50 per ea =	\$1,072.50
Haul waste material	51	cy @	\$4.79 per cy =	\$244.29
Shape and compact waste material	51	cy @	\$0.40 per cy =	\$20.40
Improve turnout	10	ea @	\$36.30 per ea =	\$363.00
Grade, ditch, & roll	158.85	sta @	\$41.00 per sta =	\$6,512.85

TOTAL IMPROVEMENT COSTS = \$11,463.89

CULVERTS

Culverts and Bands				
18" Diameter	30	lf @	\$22.10 per lf =	\$663.00
Markers & Stakes				
Culvert markers	11	ea @	\$12.00 per ea =	\$132.00
Additional Installation Cost				
Repair culvert inlet at 78+60	0.5	hrs @	\$192.50 per hr =	\$96.25

TOTAL CULVERT COSTS = \$891.25

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$3.73	\$31.87	\$0.60	24	\$868.80
Energy dissipator	Riprap	\$9.97	\$16.86	\$1.80	48	\$1,374.24
Subtotal =					72	\$2,243.04
Surfacing rock						
Spot rock	4" - 0	\$8.87	\$16.86	\$1.40	48	\$1,302.24
Rock isolation berm	1½" - 0	\$3.73	\$31.87	\$1.40	17	\$629.00
Subtotal =					65	\$1,931.24

Totals	All Rock =	137
	1½" - 0	41
	4" - 0	48
	Riprap	48

TOTAL ROCK COSTS = \$4,174.28

EROSION CONTROL

Grass seed & fertilizer	1.82	ac @	\$697.50 per ac =	\$1,269.45
Straw mulch bale	12	ea @	\$11.00 per ea =	\$132.00

TOTAL EROSION CONTROL COSTS = \$1,401.45

TOTAL PROJECT COST = \$17,930.87

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: D to E

Sale Number: FG-341-2026-W01160-01
Construction: 2+30 stations
0.04 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.26	ac @	\$1,692.00 per ac =	\$439.92
Balanced road construction	2.30	sta @	\$120.00 per sta =	\$276.00
End-haul waste from Culvert No. 2 to Waste Area				
Haul	31	cy @	\$8.48 per cy =	\$262.88
Shape and compact waste material	31	cy @	\$0.40 per cy =	\$12.40
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	2.30	sta @	\$41.00 per sta =	\$94.30

TOTAL CONSTRUCTION COSTS = \$1,327.50

CULVERTS

Culverts and Bands				
24" Diameter	40	lf @	\$32.00 per lf =	\$1,280.00
Markers & Stakes				
Culvert markers	1	ea @	\$12.00 per ea =	\$12.00

TOTAL CULVERT COSTS = \$1,292.00

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	1	ea @	\$31.00 per ea =	\$31.00
Straw mulch (bale)	2	ea @	\$11.00 per ea =	\$22.00

TOTAL EROSION CONTROL COSTS = \$108.00

TOTAL PROJECT COST = \$2,727.50

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	1	ea @	\$31.00 per ea =	\$31.00
Remove culvert.	1	ea @	\$165.00 per ea =	\$165.00
End-haul waste to Waste Area				
Haul	24	cy @	\$8.48 per cy =	\$203.52
Shape and compact waste material	31	cy @	\$0.40 per cy =	\$12.40
Straw mulch (bale)	5	ea @	\$11.00 per ea =	\$55.00

TOTAL ROAD BLOCKING COSTS = \$527.42

TOTAL PROJECT COST = \$527.42

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: F to G

Sale Number: FG-341-2026-W01160-01
Construction: 7+90 stations
0.15 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.91	ac @	\$1,692.00 per ac =	\$1,539.72
Balanced road construction	7.90	sta @	\$120.00 per sta =	\$948.00
End-haul waste from Culvert No. 7				
Haul	31	cy @	\$1.30 per cy =	\$40.30
Shape and compact waste material	31	cy @	\$0.40 per cy =	\$12.40
End-haul waste from puncheon				
Excavate & load	48	cy @	\$1.94 per cy =	\$93.12
Haul	62	cy @	\$1.30 per cy =	\$80.60
Shape and compact waste material	62	cy @	\$0.40 per cy =	\$24.80
Turnaround	1	ea @	\$91.00 per ea =	\$91.00
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	7.90	sta @	\$41.00 per sta =	\$323.90

TOTAL CONSTRUCTION COSTS = \$3,395.84

CULVERTS

Culverts and Bands				
18" Diameter	30	lf @	\$22.10 per lf =	\$663.00
24" Diameter	40	lf @	\$32.00 per lf =	\$1,280.00
Markers & Stakes				
Culvert markers	2	ea @	\$12.00 per ea =	\$24.00

TOTAL CULVERT COSTS = \$1,967.00

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	2	ea @	\$31.00 per ea =	\$62.00
Straw mulch (bale)	5	ea @	\$11.00 per ea =	\$55.00

TOTAL EROSION CONTROL COSTS = \$172.00

TOTAL PROJECT COST = \$5,534.84

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	2	ea @	\$31.00 per ea =	\$62.00
Remove crossdrain culvert	2	ea @	\$165.00 per ea =	\$330.00
End-haul waste to Waste Area				
Haul	31	cy @	\$1.30 per cy =	\$40.30
Shape and compact waste material	31	cy @	\$0.40 per cy =	\$12.40
Straw mulch (bale)	5	ea @	\$11.00 per ea =	\$55.00

TOTAL ROAD BLOCKING COSTS = \$560.20

TOTAL PROJECT COST = \$560.20

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: H to I

Sale Number: FG-341-2026-W01160-01
Improvement: 58+45 stations
1.11 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.67	ac @	\$1,353.60 per acre =	\$906.91
Remove existing culvert	1	ea @	\$165.00 per ea =	\$165.00
"Y" Junction	2.50	sta @	\$60.00 per sta =	\$150.00
Improve turnout	5	ea @	\$36.30 per ea =	\$181.50
Improve landing	1	ea @	\$121.00 per ea =	\$121.00
Grade, ditch, & roll	58.45	sta @	\$41.00 per sta =	\$2,396.45

TOTAL IMPROVEMENT COSTS = \$3,920.86

CULVERTS

Culverts and Bands				
18" Diameter	40	lf @	\$22.10 per lf =	\$884.00
Markers & Stakes				
Culvert markers	1	ea @	\$12.00 per ea =	\$12.00

TOTAL CULVERT COSTS = \$896.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$3.73	\$33.44	\$0.60	24	\$906.48
				Subtotal =	24	\$906.48
Surfacing rock						
Spot rock	1½" - 0	\$3.73	\$33.44	\$1.40	120	\$4,628.40
Spot rock	4" - 0	\$8.87	\$17.31	\$1.40	120	\$3,309.60
				Subtotal =	240	\$7,938.00

Totals	All Rock =	264
	1½" - 0	144
	4" - 0	120

TOTAL ROCK COSTS = \$8,844.48

EROSION CONTROL

Grass seed & fertilizer	0.67	ac @	\$697.50 per ac =	\$467.33
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TOTAL EROSION CONTROL COSTS = \$467.33

TOTAL PROJECT COST = \$14,128.67

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
 Road Segment: J to K

Sale Number: FG-341-2026-W01160-01
 Construction: 4+05 stations
0.08 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.46	ac @	\$1,353.60 per ac =	\$622.66
Balanced road construction	4.05	sta @	\$120.00 per sta =	\$486.00
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	4.05	sta @	\$41.00 per sta =	\$166.05
TOTAL CONSTRUCTION COSTS =				\$1,516.71

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	2	ea @	\$31.00 per ea =	\$62.00
TOTAL EROSION CONTROL COSTS =				\$117.00

TOTAL PROJECT COST = \$1,633.71

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	2	ea @	\$31.00 per ea =	\$62.00
TOTAL ROAD BLOCKING COSTS =				\$122.50

TOTAL PROJECT COST = \$122.50

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: L to M

Sale Number: FG-341-2026-W01160-01
Improvement: 25+80 stations
0.49 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.30	ac @ \$1,353.60 per acre =	\$406.08
Grade, ditch, & roll	25.80	sta @ \$41.00 per sta =	<u>\$1,057.80</u>

TOTAL IMPROVEMENT COSTS = \$1,463.88

EROSION CONTROL

Grass seed & fertilizer	0.30	ac @ \$697.50 per ac =	<u>\$209.25</u>
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TOTAL EROSION CONTROL COSTS = \$209.25

TOTAL PROJECT COST = \$1,673.13

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
 Road Segment: N to O

Sale Number: FG-341-2026-W01160-01
 Improvement: 78+85 stations
1.49 miles

PROJECT NO. 2: ROAD IMPROVEMENTIMPROVEMENT

Clearing & grubbing (scatter)	0.91	ac @	\$1,353.60 per acre =	\$1,231.78
Improve turnout	5	ea @	\$36.30 per ea =	\$181.50
Grade, ditch, & roll	78.85	sta @	\$41.00 per sta =	\$3,232.85

TOTAL IMPROVEMENT COSTS = \$4,646.13

CULVERTS

Culverts and Bands	40	lf @	\$22.10 per lf =	\$884.00
18" Diameter				
Markers & Stakes	4	ea @	\$12.00 per ea =	\$48.00
Culvert markers				

TOTAL CULVERT COSTS = \$932.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$3.73	\$19.39	\$0.60	24	\$569.28
Subtotal =					24	\$569.28
Surfacing rock						
Spot rock	1½" - 0	\$3.73	\$19.39	\$1.40	120	\$2,942.40
Subtotal =					120	\$2,942.40

Totals	All Rock =	144
	1½" - 0	144

TOTAL ROCK COSTS = \$3,511.68

EROSION CONTROL

Grass seed & fertilizer	0.91	ac @	\$697.50 per ac =	\$634.73
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TOTAL EROSION CONTROL COSTS = \$634.73

TOTAL PROJECT COST = \$9,724.54

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
 Road Segment: P to Q

Sale Number: FG-341-2026-W01160-01
 Construction: 14+55 stations
0.28 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.67	ac @	\$1,353.60 per ac =	\$2,260.51
Balanced road construction	14.55	sta @	\$120.00 per sta =	\$1,746.00
Turnaround	1	ea @	\$91.00 per ea =	\$91.00
Construct ditchout	1	ea @	\$85.00 per ea =	\$85.00
Roadside landing	1	ea @	\$181.50 per ea =	\$181.50
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade, ditch, & roll	14.55	sta @	\$41.00 per sta =	\$596.55

TOTAL CONSTRUCTION COSTS = \$5,305.96

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	5	ea @	\$31.00 per ea =	\$155.00

TOTAL EROSION CONTROL COSTS = \$210.00

TOTAL PROJECT COST = \$5,515.96

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	5	ea @	\$31.00 per ea =	\$155.00

TOTAL ROAD BLOCKING COSTS = \$215.50

TOTAL PROJECT COST = \$215.50

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
 Road Segment: R to S

Sale Number: FG-341-2026-W01160-01
 Construction: 13+00 stations
0.25 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.49	ac @	\$1,353.60 per ac =	\$2,016.86
Balanced road construction	10.75	sta @	\$120.00 per sta =	\$1,290.00
Drift	2.25	sta @	\$198.00 per sta =	\$445.50
Turnaround	1	ea @	\$91.00 per ea =	\$91.00
Construct ditchout	2	ea @	\$85.00 per ea =	\$170.00
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	13.00	sta @	\$41.00 per sta =	\$533.00

TOTAL CONSTRUCTION COSTS = \$4,788.36

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	4	ea @	\$31.00 per ea =	\$124.00

TOTAL EROSION CONTROL COSTS = \$179.00

TOTAL PROJECT COST = \$4,967.36

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	4	ea @	\$31.00 per ea =	\$124.00

TOTAL ROAD BLOCKING COSTS = \$184.50

TOTAL PROJECT COST = \$184.50

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: T to U

Sale Number: FG-341-2026-W01160-01
Construction: 4+40 stations
0.08 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.51	ac @	\$1,353.60 per ac =	\$690.34
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	4.40	sta @	\$41.00 per sta =	\$180.40
TOTAL CONSTRUCTION COSTS =				\$1,112.74

CULVERTS

Culverts and Bands				
18" Diameter	30	lf @	\$22.10 per lf =	\$663.00
Markers & Stakes				
Culvert markers	1	ea @	\$12.00 per ea =	\$12.00
TOTAL CULVERT COSTS =				\$675.00

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	2	ea @	\$31.00 per ea =	\$62.00
TOTAL EROSION CONTROL COSTS =				\$117.00

TOTAL PROJECT COST = \$1,904.74

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	2	ea @	\$31.00 per ea =	\$62.00
TOTAL ROAD BLOCKING COSTS =				\$122.50

TOTAL PROJECT COST = \$122.50

SUMMARY OF CONSTRUCTION COST

Timber Sale: Thin Piper
Road Segment: V to W

Sale Number: FG-341-2026-W01160-01
Construction: 8+95 stations
0.17 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.03	ac @	\$1,353.60 per ac =	\$1,394.21
Balanced road construction	8.95	sta @	\$120.00 per sta =	\$1,074.00
Turnaround	1	ea @	\$91.00 per ea =	\$91.00
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	8.95	sta @	\$41.00 per sta =	\$366.95
TOTAL CONSTRUCTION COSTS =				\$3,168.16

EROSION CONTROL

Winterization blocking	1	ea @	\$55.00 per ea =	\$55.00
Winterization waterbarring	4	ea @	\$31.00 per ea =	\$124.00
TOTAL EROSION CONTROL COSTS =				\$179.00

TOTAL PROJECT COST = \$3,347.16

PROJECT NO. 3: ROAD BLOCKING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	4	ea @	\$31.00 per ea =	\$124.00
TOTAL ROAD BLOCKING COSTS =				\$184.50

TOTAL PROJECT COST = \$184.50

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Thin Piper
Sale Number: FG-341-2026-W01160-01
Stockpile Name: Rock Creek Ridge
1 1/2" - 0: 329 cy (truck measure)
Total truck yardage: 329 cy

<u>Move-in</u>					
Move in loader					\$827.50
Move in Dump Trucks					\$102.38
				Subtotal =	\$929.88
				Per CY =	\$2.83/cy
<u>1 1/2"-0 Base Cost</u>					
Load dump truck	\$0.90	/ cy x	329	cy =	\$296.10
				Subtotal =	\$296.10
				Per CY =	\$0.90
1 1/2"-0 Cost =				<u>\$3.73/cy</u>	

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Thin Piper
Sale Number: FG-341-2026-W01160-01
Stockpile Name: West Mac
4" - 0: 168 cy (truck measure)
Riprap: 48 cy (truck measure)
Total truck yardage: 216 cy

<u>Move-in</u>					
Move in excavator					\$876.14
Move in loader					\$788.04
Move in Dump Trucks					\$100.32
				Subtotal =	\$1,764.50
				Per CY =	\$8.17/cy
<u>4"-0 Base Cost</u>					
Load dump truck	\$0.90	/ cy x	168	cy =	\$151.20
				Subtotal =	\$151.20
				Per CY =	\$0.70
<u>Riprap Base Cost</u>					
Load dump truck	\$1.80	/ cy x	48	cy =	\$86.40
				Subtotal =	\$86.40
				Per CY =	\$1.80
 4"-0 Cost =					<u>\$8.87/cy</u>
Riprap Cost =					<u>\$9.97/cy</u>

CRUISE REPORT
Thin Piper
#FG-341-2026-W01160-01

1. LOCATION: Portions of Sections 12, 13, 26, and 27, T4N, R5W, W.M., Clatsop County, Oregon. Portions of Section 17, T3N, R6W, W.M., Columbia County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 14 inches with a Coefficient of Variation of 64%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 9% at a 68% Confidence Level, and a minimum sample size of 100 graded trees. Statistical analysis indicated that 50 variable radius grade plots utilizing a 20 BAF prism would produce an adequate sample size.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in March of 2025. Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5 were sampled with 50 variable radius grade plots. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. In Unit 1, Unit 2, Unit 3, and Unit 4, cruisers chose 'Take' trees as though thinning from below to achieve a residual basal area target of 130 ft². In Unit 5, cruisers chose "Take" trees as though thinning from below to achieve a residual basal area target of 140ft². The Unit 6 Right-of-Way volume was determined by manual math with information provided by SuperAce report statistics and acreage obtained through ArcGIS PRO software.

4. CRUISE RESULTS:

246 Douglas-fir and western hemlock "Take" trees were measured and graded producing a cumulative Sampling Error of 7.9% on the Basal Area and 9.0% on the Board Foot Volume for Douglas-fir.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. For conifers, bole heights were calculated to a six inch top.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors:** Measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from Super Ace 2008 cruise software
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

7. CRUISERS: The sale was cruised by ODF cruisers Adrian Torres, Colton Turner, and Mark Savage.

Prepared by: Adrian Torres 4/23/2025
Date

Reviewed by: Mark Savage 4/23/2025
Date

RESIDUAL STAND SPECIFICATIONS

SALE NAME: Thin Piper
SALE NUMBER: FG-341-2026-W01160-01

Unit 1

Residual QMB assumption (from leave tree cruise information) = 17
Target Relative Density = 32

	Minimum	Target	Maximum
Relative Density	29	32	34
Basal Area	120	130	140
Trees per Acre	76	82	89

Unit 2

Residual QMB assumption (from leave tree cruise information) = 17
Target Relative Density = 32

	Minimum	Target	Maximum
Relative Density	29	32	34
Basal Area	120	130	140
Trees per Acre	76	82	89

Unit 3

Residual QMB assumption (from leave tree cruise information) = 17
Target Relative Density = 32

	Minimum	Target	Maximum
Relative Density	29	32	34
Basal Area	120	130	140
Trees per Acre	76	82	89

Unit 4

Residual QMB assumption (from leave tree cruise information) = 16
Target Relative Density = 33

	Minimum	Target	Maximum
Relative Density	30	33	35
Basal Area	120	130	140
Trees per Acre	86	93	100

Unit 5

Residual QMB assumption (from leave tree cruise information) = 18
Target Relative Density = 33

	Minimum	Target	Maximum
Relative Density	31	33	35
Basal Area	130	140	150
Trees per Acre	74	79	85

$$RD = BA / \sqrt{DBH}$$

$$BA = \sqrt{DBH} (RD)$$

$$TPA = (BA/acre) / (BA/tree)$$

$$BA / tree = (\pi r^2) / (144)$$

TC PSTATS						PROJECT STATISTICS				PAGE	1	
						PROJECT	THPIPER	DATE				4/10/2025
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
T4N	R5	17	00U5	00PC	THR	150.00	50	589	S	W		
T4N	R6W	27	00U1	00PC								
						TREES	ESTIMATED	PERCENT				
						TOTAL		SAMPLE				
PLOTS			TREES	PER PLOT		TREES	TREES					
TOTAL			50	589	11.8							
CRUISE			50	589	11.8		26,390	2.2				
DBH COUNT												
REFOREST												
COUNT												
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-L			316	79.6	17.1	101	30.6	126.2	19,966	19,966	4,501	
DOUG FIR-S			3	1.2	13.0	49	0.3	1.1			4,501	
DOUG FIR-T			245	88.1	14.3	94	25.9	97.8	12,631	12,529	3,071	
R ALDER-L			7	1.4	16.7	81	0.5	2.1	248	248	56	
WHEMLOCK-L			8	2.0	17.1	100	0.8	3.1	548	548	120	
WHEMLOCK-T			4	1.5	14.9	77	0.5	1.8	207	207	53	
NOB FIR-L			2	.5	16.9	106	0.2	.7	106	106	25	
BL MAPLE-L			1	.2	14.0	71	0.1	.3	30	30	7	
WR CEDAR-L			1	.1	24.0	89	0.1	.3	32	32	9	
GR FIR-L			2	1.4	10.9	74	0.3	.9	89	89	23	
TOTAL			589	175.9	15.6	97	59.3	234.3	33,856	33,754	7,865	
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-L			70.3	3.9	280	291	303					
DOUG FIR-S												
DOUG FIR-T			63.3	4.0	161	168	175					
R ALDER-L			56.4	23.0	162	210	258					
WHEMLOCK-L			49.1	18.5	274	336	398					
WHEMLOCK-T			61.9	35.3	120	185	250					
NOB FIR-L			38.1	35.7	167	260	353					
BL MAPLE-L												
WR CEDAR-L												
GR FIR-L			10.9	10.2	58	65	72					
TOTAL			75.5	3.1	229	237	244	228	57	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-L			57.3	3.2	63	65	67					
DOUG FIR-S												
DOUG FIR-T			57.8	3.7	40	41	43					
R ALDER-L			41.8	17.0	38	46	53					
WHEMLOCK-L			44.2	16.6	60	72	84					
WHEMLOCK-T			60.7	34.7	31	47	64					
NOB FIR-L			37.6	35.2	39	60	82					
BL MAPLE-L												
WR CEDAR-L												
GR FIR-L			29.8	27.9	13	17	22					
TOTAL			62.8	2.6	53	54	56	157	39	17		
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-L			30.7	4.3	76	80	83					

PROJECT STATISTICS							PAGE	2		
TC PSTATS			PROJECT	THPIPER			DATE	4/10/2025		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
T4N	R5	17	00U5	00PC	THR	150.00	50	589	S	W
T4N	R6W	27	00U1	00PC						
CL	68.1		COEFF	TREES/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-S			441.0	62.3	0	1	2			
DOUG FIR-T			53.6	7.6	81	88	95			
R ALDER-L			358.6	50.7	1	1	2			
WHEMLOCK-L			427.9	60.5	1	2	3			
WHEMLOCK-T			535.9	75.7	0	1	3			
NOB FIR-L			535.8	75.7	0	0	1			
BL MAPLE-L			707.1	99.9	0	0	0			
WR CEDAR-L			707.1	99.9	0	0	0			
GR FIR-L			503.2	71.1	0	1	2			
TOTAL			29.2	4.1	169	176	183	34	9	4
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-L			22.1	3.1	122	126	130			
DOUG FIR-S			403.2	57.0	0	1	2			
DOUG FIR-T			55.9	7.9	90	98	106			
R ALDER-L			375.0	53.0	1	2	3			
WHEMLOCK-L			427.2	60.4	1	3	5			
WHEMLOCK-T			494.9	69.9	1	2	3			
NOB FIR-L			511.3	72.2	0	1	1			
BL MAPLE-L			707.1	99.9	0	0	1			
WR CEDAR-L			707.1	99.9	0	0	1			
GR FIR-L			494.9	69.9	0	1	2			
TOTAL			26.7	3.8	225	234	243	28	7	3
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-L			25.8	3.6	19,237	19,966	20,694			
DOUG FIR-S										
DOUG FIR-T			63.4	9.0	11,406	12,529	13,652			
R ALDER-L			393.2	55.6	110	248	385			
WHEMLOCK-L			413.3	58.4	228	548	867			
WHEMLOCK-T			498.0	70.4	61	207	352			
NOB FIR-L			501.0	70.8	31	106	181			
BL MAPLE-L			707.1	99.9	0	30	60			
WR CEDAR-L			707.1	99.9	0	32	64			
GR FIR-L			497.7	70.3	27	89	152			
TOTAL			31.7	4.5	32,242	33,754	35,265	40	10	4
CL	68.1		COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L			22.4	3.2	4,359	4,501	4,644			
DOUG FIR-S										
DOUG FIR-T			61.5	8.7	2,804	3,071	3,338			
R ALDER-L			381.6	53.9	26	56	85			
WHEMLOCK-L			419.3	59.2	49	120	190			
WHEMLOCK-T			497.2	70.3	16	53	91			
NOB FIR-L			501.3	70.8	7	25	42			
BL MAPLE-L			707.1	99.9	0	7	14			
WR CEDAR-L			707.1	99.9	0	9	19			
GR FIR-L			495.1	70.0	7	23	40			
TOTAL			29.4	4.2	7,538	7,865	8,191	34	9	4

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT4N RR5W S17 Ty00PC THRU TT4N RR6W S27 Ty00PC				Project:		THPIPER										Page		1			
				Acres		150.00										Date		4/10/2025			
																Time		1:47:55PM			
S So Gr			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs	
Spp	T	rt ad	Net	Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	L	CU																			
DF	L	3M	99		19,919	19,919	2,988		62	34	4		38	26	36		33	9	112	0.77	178.3
DF	L	4M	1		47	47	7			100			100				28	15	250	1.70	.2
DF	Totals		59		19,966	19,966	2,995		62	34	4		38	26	36		33	9	112	0.76	178.9
DF	T	CU															14	10		0.00	5.3
DF	T	2M	9	1.7	1,227	1,206	181			80	20		16	4		80	33	13	218	1.47	5.5
DF	T	3M	76	.8	9,640	9,563	1,434		100	0			0		3	97	39	8	100	0.63	95.4
DF	T	4M	15	.2	1,763	1,759	264		100				22	49	21	8	24	6	31	0.33	57.4
DF	Totals		37	.8	12,631	12,529	1,879		90	8	2		5	7	5	83	33	8	77	0.57	163.7
DF	S	CU															22	7		0.00	1.8
DF	Totals																22	7		0.00	1.8
NF	L	3M	100		106	106	16		77	23			42	39	18		33	9	101	0.70	1.0
NF	Totals		0		106	106	16		77	23			42	39	18		33	9	101	0.70	1.0
RA	L	CR	100		248	248	37		56	27	17				100		40	11	179	1.01	1.4
RA	Totals		1		248	248	37		56	27	17				100		40	11	179	1.01	1.4
WH	L	3M	100		548	548	82		54	40	6		48	30	22		32	9	119	0.81	4.6
WH	Totals		2		548	548	82		54	40	6		48	30	22		32	9	119	0.81	4.6
WH	T	CU															3	11		0.00	.4
WH	T	2M	26		54	54	8			100						100	40	14	290	1.63	.2
WH	T	3M	56		116	116	17		100			25			75		34	8	89	0.67	1.3
WH	T	4M	18		37	37	6		100				41		59		30	6	46	0.48	.8
WH	Totals		1		207	207	31		74	26		14	7		79		29	8	78	0.69	2.7
BM	L	CR	100		30	30	4		100						100		40	9	120	0.68	.2
BM	Totals		0		30	30	4		100						100		40	9	120	0.68	.2
RC	L	3M	100		32	32	5		16	84					100		36	11	190	1.51	.2
RC	Totals		0		32	32	5		16	84					100		36	11	190	1.51	.2
GF	L	3M	100		89	89	13		100						100		38	6	64	0.44	1.4
GF	Totals		0		89	89	13		100						100		38	6	64	0.44	1.4
Totals				0.3	33,856	33,754	5,063		73	24	3	2	26	18	54		33	8	95	0.67	355.9

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		4/10/2025	
TT4N RR5W S17 Ty00PC THRU TT4N RR6W S27 Ty00PC					Project					THPIPER			Time:		1:47:56PM		
					Acres			150.00			Grown Year:						
S SpC	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF L		9	1	87	77	.604	.27	.60	9.0	50.0	.15	5	30	23	8	5	
DF L		11	1	87	79	.404	.27	.40	14.8	60.0	.17	6	24	26	9	4	
DF L		12	2	87	84	1.142	.90	1.71	13.1	50.0	.64	22	86	96	34	13	
DF L		13	3	87	82	1.460	1.35	2.92	12.4	48.3	1.03	36	141	155	54	21	
DF L		14	14	87	89	4.970	5.31	9.94	16.4	74.4	4.66	163	739	698	245	111	
DF L		15	42	88	96	14.049	17.24	27.37	19.8	87.9	15.41	541	2,405	2,312	811	361	
DF L		16	57	88	99	16.664	23.27	33.33	24.4	106.9	23.17	813	3,564	3,476	1,220	535	
DF L		17	47	88	104	11.913	18.78	27.23	24.5	106.8	19.05	668	2,908	2,857	1,002	436	
DF L		18	60	88	105	13.166	23.27	33.21	25.1	107.1	23.79	835	3,558	3,568	1,252	534	
DF L		19	25	88	110	4.844	9.54	13.09	27.8	122.5	10.39	364	1,604	1,558	547	241	
DF L		20	31	88	113	5.522	12.05	15.26	31.0	142.3	13.48	473	2,171	2,022	710	326	
DF L		21	9	88	114	1.678	4.04	4.29	35.2	164.8	4.30	151	707	645	226	106	
DF L		22	8	88	116	1.321	3.49	3.79	37.2	168.2	4.02	141	638	603	211	96	
DF L		23	4	88	97	.622	1.79	1.55	41.0	178.0	1.82	64	277	273	96	42	
DF L		24	3	88	96	.370	1.16	.83	50.8	220.0	1.20	42	182	179	63	27	
DF L		25	2	89	119	.210	.72	.63	47.9	230.5	.86	30	145	129	45	22	
DF L		26	4	88	141	.388	1.43	1.41	49.6	257.7	1.99	70	363	298	105	54	
DF L		28	1	90	160	.105	.45	.42	59.4	330.0	.71	25	138	107	37	21	
DF L		34	1	85	170	.071	.45	.28	87.1	465.0	.71	25	132	106	37	20	
DF L		36	1	90	170	.063	.45	.25	104.5	605.0	.76	27	154	113	40	23	
DF L		Totals	316	88	101	79.566	126.20	178.51	25.2	111.8	128.29	4,501	19,966	19,243	6,752	2,995	
DF T		9	1	86	69	1.015	.45	1.02	7.9	40.0	.23	8	41	34	12	6	
DF T		10	3	87	87	2.133	1.16	2.13	12.8	60.0	.78	27	128	116	41	19	
DF T		11	14	86	84	8.654	5.71	9.99	13.8	57.9	3.94	138	578	591	207	87	
DF T		12	22	87	91	11.384	8.94	18.90	12.9	52.3	6.96	244	989	1,044	366	148	
DF T		13	28	87	92	11.917	10.98	21.40	14.6	57.5	8.91	312	1,231	1,336	469	185	
DF T		14	57	87	93	20.725	22.16	39.87	17.2	69.5	19.50	684	2,772	2,925	1,026	416	
DF T		15	29	87	98	9.244	11.34	18.12	20.6	85.2	10.65	374	1,544	1,597	560	232	
DF T		16	41	87	98	12.389	17.30	24.78	22.8	93.7	16.14	566	2,321	2,420	849	348	
DF T		17	22	87	101	5.416	8.54	10.83	27.8	112.3	8.59	301	1,216	1,288	452	182	
DF T		18	13	88	102	2.863	5.06	5.73	30.8	119.6	5.03	176	685	754	265	103	
DF T		19	2	87	89	.397	.78	.79	27.8	106.3	.63	22	84	94	33	13	
DF T		20	3	88	119	.570	1.24	1.30	34.1	155.4	1.26	44	202	189	66	30	
DF T		21	2	85	99	.297	.72	.59	39.0	138.2	.66	23	82	99	35	12	
DF T		22	2	87	126	.271	.72	.71	44.1	186.3	.89	31	133	134	47	20	
DF T		23	2	88	124	.311	.90	.78	50.7	222.0	1.12	39	173	169	59	26	
DF T		24	1	89	93	.143	.45	.29	54.3	210.0	.44	16	60	66	23	9	
DF T		25	2	87	136	.263	.90	.66	59.0	272.0	1.11	39	179	166	58	27	
DF T		26	1	86	167	.122	.45	.49	50.1	230.0	.69	24	112	104	37	17	
DF T		Totals	245	87	94	88.114	97.79	158.37	19.4	79.1	87.52	3,071	12,529	13,128	4,606	1,879	
WH L		15	3	88	93	1.096	1.35	2.19	21.3	93.3	1.50	47	205	224	70	31	
WH L		16	1	92	110	.248	.35	.74	19.6	96.7	.47	15	72	70	22	11	
WH L		18	1	91	96	.151	.27	.30	33.7	140.0	.33	10	42	49	15	6	
WH L		20	1	86	120	.206	.45	.62	31.7	153.3	.63	20	95	94	29	14	
WH L		22	1	86	110	.170	.45	.51	35.3	160.0	.58	18	82	86	27	12	
WH L		24	1	93	99	.085	.27	.25	41.1	206.7	.34	10	53	50	16	8	
WH L		Totals	8	89	100	1.956	3.12	4.62	25.9	118.5	3.82	120	548	574	179	82	
RA L		14	1	92	78	.324	.35	.32	27.3	120.0	.24	9	39	36	13	6	
RA L		16	2	91	74	.439	.61	.44	34.6	137.0	.42	15	60	63	23	9	
RA L		17	2	92	86	.389	.61	.39	42.2	188.7	.45	16	73	68	25	11	
RA L		19	1	92	88	.135	.27	.14	53.8	240.0	.20	7	33	30	11	5	

TC		PSTNDSUM										Stand Table Summary										Page		2	
																						Date:		4/10/2025	
TT4N RR5W S17 Ty00PC THRU TT4N RR6W S27 Ty00PC					Project					THPIPER					Time:		1:47:56PM								
					Acres					150.00					Grown Year:										
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s												
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF									
RA	L	23	1	94	99	.092	.27	.09	84.3	460.0	.21	8	43	32	12	6									
RA	L	Totals		7	92	81	1.381	2.11	1.38	40.2	179.3	1.53	56	248	229	83	37								
WH	T	11	1	86	72	.680	.45	.68	17.1	60.0	.37	12	41	56	17	6									
WH	T	15	1	86	84	.365	.45	.73	17.1	70.0	.40	13	51	60	19	8									
WH	T	18	1	91	77	.254	.45	.51	26.9	105.0	.44	14	53	65	20	8									
WH	T	21	1	91	85	.186	.45	.37	42.0	165.0	.50	16	62	75	23	9									
WH	T	Totals		4	87	77	1.485	1.79	2.29	23.3	90.3	1.71	53	207	257	80	31								
NF	L	16	1	86	99	.321	.45	.64	22.2	95.0	.34	14	61	51	21	9									
NF	L	19	1	85	120	.135	.27	.41	25.5	110.0	.25	10	45	37	16	7									
NF	L	Totals		2	86	105	.457	.72	1.05	23.5	100.8	.59	25	106	89	37	16								
GF	L	10	1	86	70	.822	.45	.82	13.7	60.0	.25	11	49	37	17	7									
GF	L	12	1	85	80	.571	.45	.57	21.1	70.0	.26	12	40	40	18	6									
GF	L	Totals		2	86	74	1.393	.90	1.39	16.7	64.1	.51	23	89	77	35	13								
RC	L	24	1	81	89	.085	.27	.17	54.5	190.0	.22	9	32	33	14	5									
RC	L	Totals		1	81	89	.085	.27	.17	54.5	190.0	.22	9	32	33	14	5								
BM	L	14	1	94	71	.249	.27	.25	27.3	120.0	.18	7	30	27	10	4									
BM	L	Totals		1	94	71	.249	.27	.25	27.3	120.0	.18	7	30	27	10	4								
DF	S	11	1	70	33	.680	.45																		
DF	S	15	2	86	69	.565	.69																		
DF	S	Totals		3	77	49	1.245	1.14																	
Totals		589			87	97	175.930	234.30	348.03	22.6	97.0	224.37	7,865	33,754	33,656	11,797	5,063								

TC		PLOGSTVB																		Log Stock Table - MBF									
TT4N RR5W S17 Ty00PC THRU TT4N RR6W S27 Ty00PC						Project:		THPIPER										Page		1									
																		Date		4/10/2025									
																		Time		1:47:54PM									
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+									
DF	L		3M	22	5		5	.2					5																
DF	L		3M	24	6		6	.2			2	4																	
DF	L		3M	25	3		3	.1					3																
DF	L		3M	26	148		148	5.0			6	9	6	96	9	23													
DF	L		3M	27	149		149	5.0					41	88	19														
DF	L		3M	28	257		257	8.6			52		134	4	60	7													
DF	L		3M	29	71		71	2.4			1	5	16	28	8	12													
DF	L		3M	30	490		490	16.3			51	4	181	90	160	5													
DF	L		3M	31	80		80	2.7			11		40	6	23														
DF	L		3M	32	315		315	10.5			84	6	134	23	13	35	20												
DF	L		3M	33	63		63	2.1			14		21	21	7														
DF	L		3M	34	185		185	6.2			47		56	51	8	23													
DF	L		3M	35	143		143	4.8			11		110	14	9														
DF	L		3M	36	302		302	10.1			89		112	46	10	9	14	21											
DF	L		3M	37	128		128	4.3			23		99	7															
DF	L		3M	38	307		307	10.2			84		153	66		4													
DF	L		3M	39	64		64	2.1			19		17	13	15														
DF	L		3M	40	240		240	8.0			73		105	45	8	9													
DF	L		3M	41	32		32	1.1			32																		
DF	L		4M	28	7		7	.2							7														
DF			Totals		2,995		2,995	59.2			599	27	1233	598	356	127	34	21											
DF	T		2M	16	16		16	.9						10		6													
DF	T		2M	20	13		13	.7						5	8														
DF	T		2M	30	8		8	.4								8													
DF	T		2M	36	7		7	.4						7															
DF	T		2M	40	140	2.2	137	7.3						61	48	29													
DF	T		3M	16	3		3	.2					3																
DF	T		3M	20	3		3	.2				3																	
DF	T		3M	32	23	4.7	22	1.2			6	4	12																
DF	T		3M	33	2		2	.1			2																		
DF	T		3M	34	6		6	.3			6																		
DF	T		3M	35	13		13	.7			13																		
DF	T		3M	36	15		15	.8			15																		
DF	T		3M	37	4		4	.2			4																		
DF	T		3M	38	19		19	1.0			19																		
DF	T		3M	39	11		11	.6			11																		
DF	T		3M	40	1,347		1,337	71.1			267	563	502	5															

TC		PLOGSTVB																		Log Stock Table - MBF									
TT4N RR5W S17 Ty00PC THRU TT4N RR6W S27 Ty00PC						Project: Acres		THPIPER 150.00										Page Date Time		2 4/10/2025 1:47:54PM									
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+									
DF	T		4M	12			2		2	.1				2															
DF	T		4M	13			3		3	.1				3															
DF	T		4M	14			3		3	.1				3															
DF	T		4M	15			12		12	.6				12															
DF	T		4M	16			5		5	.3				5															
DF	T		4M	17			9		9	.5				9															
DF	T		4M	18			12		12	.7				12															
DF	T		4M	19			4		4	.2				4															
DF	T		4M	20			9		9	.5				9															
DF	T		4M	21			14		14	.7				14															
DF	T		4M	22			12		12	.7				12															
DF	T		4M	23			12		12	.6				12															
DF	T		4M	24			9		9	.5				9															
DF	T		4M	25			12		12	.6				12															
DF	T		4M	26			5		5	.3				5															
DF	T		4M	27			23		23	1.2				23															
DF	T		4M	28			21		21	1.1				21															
DF	T		4M	29			19		19	1.0				19															
DF	T		4M	30			1		1	.1				1															
DF	T		4M	31			21		21	1.1				21															
DF	T		4M	32			7		7	.4				7															
DF	T		4M	33			16		16	.9				16															
DF	T		4M	34			6		6	.3				6															
DF	T		4M	35			4	8.7	4	.2				4															
DF	T		4M	36			7	3.5	7	.4				7															
DF	T		4M	37			3		3	.2				3															
DF	T		4M	40			12		12	.6					4	7													
DF			Totals				1,895		1,879	37.1				594	575	525	87		55	43									
NF	L		3M	30			7		7	42.3				1		2	4												
NF	L		3M	35			6		6	39.5					6														
NF	L		3M	36			3		3	18.2				3															
NF			Totals				16		16	.3				4		8	4												
RA	L		CR	40			37		37	100.0				9		12	10		6										
RA			Totals				37		37	.7				9		12	10		6										
WH	L		3M	26			11		11	13.3					6			5											
WH	L		3M	28			8		8	9.5				1		4		3											

TC		PLOGSTVB		Log Stock Table - MBF																
TT4N RR5W S17 Ty00PC THRU TT4N RR6W S27 Ty00PC				Project:		THPIPER										Page		3		
				Acres		150.00										Date		4/10/2025		
																Time		1:47:54PM		
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+	
WH	L	3M	29	7		7	9.0							7						
WH	L	3M	30	13		13	16.0			1			4	8						
WH	L	3M	32	24		24	29.8			7		17								
WH	L	3M	36	9		9	10.7					9								
WH	L	3M	37	5		5	6.1						5							
WH	L	3M	38	5		5	5.7			5										
WH		Totals		82		82	1.6			14		30	15	11	12					
WH	T	2M	40	8		8	26.2							8						
WH	T	3M	20	4		4	14.1					4								
WH	T	3M	40	13		13	41.8			6		7								
WH	T	4M	21	1		1	3.7			1										
WH	T	4M	30	1		1	3.6			1										
WH	T	4M	36	3		3	10.6			3										
WH		Totals		31		31	.6			12		11		8						
BM	L	CR	40	4		4	100.0				4									
BM		Totals		4		4	.1				4									
RC	L	3M	36	5		5	100.0			1				4						
RC		Totals		5		5	.1			1				4						
GF	L	3M	37	7		7	55.2			7										
GF	L	3M	40	6		6	44.8			6										
GF		Totals		13		13	.3			13										
Total		All Species		5,078		5,063	100.0			1236	616	1819	713	434	189	34	21			

TC PSTATS				PROJECT STATISTICS					PAGE	1		
				PROJECT		THPIPER			DATE	4/10/2025		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
T4N	R6	27	00U1	00PC		111.00		33	379	S	W	
				TREES		ESTIMATED TOTAL		PERCENT SAMPLE				
				PLOTS	TREES	PER PLOT		TREES	TREES			
TOTAL			33	379	11.5							
CRUISE			33	379	11.5		19,186		2.0			
DBH COUNT												
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
			SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-L			207	78.7	17.1	100	30.3	125.5	19,446	19,446	4,403	4,403
DOUG FIR-S			1	.9	11.0	33	0.2	.6				
DOUG FIR-T			159	87.0	14.3	91	25.5	96.4	12,145	12,083	2,975	2,975
WHEMLOCK-L			5	2.0	16.7	99	0.7	3.0	515	515	114	114
WHEMLOCK-T			4	2.0	14.9	77	0.6	2.4	279	279	72	72
GR FIR-L			2	1.9	10.9	74	0.4	1.2	121	121	31	31
NOB FIR-L			1	.4	16.0	100	0.2	.6	82	82	19	19
TOTAL			379	172.9	15.6	95	58.1	229.7	32,589	32,526	7,615	7,615
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-L			81.8	5.7	276	293	309					
DOUG FIR-S												
DOUG FIR-T			74.2	5.9	159	169	179					
WHEMLOCK-L			52.2	26.0	222	300	378					
WHEMLOCK-T			61.9	35.3	120	185	250					
GR FIR-L			10.9	10.2	58	65	72					
NOB FIR-L												
TOTAL			86.5	4.4	227	238	248	299	75	33		
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-L			66.0	4.6	62	65	68					
DOUG FIR-S												
DOUG FIR-T			66.3	5.3	39	41	43					
WHEMLOCK-L			48.8	24.2	50	66	82					
WHEMLOCK-T			60.7	34.7	31	47	64					
GR FIR-L			29.8	27.9	13	17	22					
NOB FIR-L												
TOTAL			70.8	3.6	52	54	56	200	50	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-L			27.4	4.8	75	79	82					
DOUG FIR-S			574.5	99.9	0	1	2					
DOUG FIR-T			48.1	8.4	80	87	94					
WHEMLOCK-L			450.5	78.4	0	2	4					
WHEMLOCK-T			433.7	75.4	0	2	4					
GR FIR-L			406.7	70.7	1	2	3					
NOB FIR-L			574.5	99.9	0	0	1					
TOTAL			23.0	4.0	166	173	180	21	5	2		
CL	68.1	COEFF		BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15	

PROJECT STATISTICS**PROJECT THPIPER**

DATE 4/10/2025

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	27	00U1	00PC	111.00	33	379	S	W
			DOUG FIR-L	14.5	2.5	122	125	129	
			DOUG FIR-S	574.5	99.9	0	1	1	
			DOUG FIR-T	49.9	8.7	88	96	105	
			WHEMLOCK-L	470.2	81.8	1	3	6	
			WHEMLOCK-T	399.8	69.5	1	2	4	
			GR FIR-L	399.8	69.5	0	1	2	
			NOB FIR-L	574.5	99.9	0	1	1	
			TOTAL	18.7	3.3	222	230	237	
							14	4	2
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-L	22.7	4.0	18,677	19,446	20,216	
			DOUG FIR-S						
			DOUG FIR-T	61.5	10.7	10,790	12,083	13,376	
			WHEMLOCK-L	465.4	81.0	98	515	931	
			WHEMLOCK-T	402.4	70.0	84	279	475	
			GR FIR-L	402.1	69.9	36	121	205	
			NOB FIR-L	574.5	99.9	0	82	165	
			TOTAL	30.1	5.2	30,823	32,526	34,229	
							36	9	4
CL	68.1		COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10
								15	
			DOUG FIR-L	17.3	3.0	4,270	4,403	4,535	
			DOUG FIR-S						
			DOUG FIR-T	58.5	10.2	2,672	2,975	3,278	
			WHEMLOCK-L	467.8	81.4	21	114	207	
			WHEMLOCK-T	401.8	69.9	22	72	123	
			GR FIR-L	400.0	69.6	10	31	53	
			NOB FIR-L	574.5	99.9	0	19	39	
			TOTAL	25.7	4.5	7,275	7,615	7,955	
							26	7	3

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT4N RR6W S27 Ty00PC111.00				Project: THPIPER												Page 1					
				Acres 111.00												Date 4/10/2025					
																Time 1:55:38PM					
S So Gr			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs	
Spp	T	rt ad	Net BdFt	Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	L	CU															33	9		0.00	.5
DF	L	3M	99		19,383	19,383	2,152		63	32	5		35	29	35		33	9	111	0.77	174.3
DF	L	4M	1		63	63	7			100			100				28	15	250	1.70	.3
DF	Totals		60		19,446	19,446	2,159		63	32	5		35	29	35		33	9	111	0.77	175.1
DF	T	CU															14	9		0.00	4.6
DF	T	2M	10	1.0	1,227	1,215	135			73	27	10	6		84		34	14	247	1.58	4.9
DF	T	3M	76	.5	9,259	9,209	1,022		100			0		3	97		39	8	100	0.63	92.0
DF	T	4M	14		1,659	1,659	184		100			26	46	18	10		23	6	30	0.33	55.0
DF	Totals		37	.5	12,145	12,083	1,341		90	7	3	5	7	5	84		33	8	77	0.58	156.6
DF	S	CU															19	6		0.00	.9
DF	Totals																19	6		0.00	.9
WH	L	3M	100		515	515	57		66	34			36	43	21		33	9	115	0.78	4.5
WH	Totals		2		515	515	57		66	34			36	43	21		33	9	115	0.78	4.5
WH	T	CU															3	11		0.00	.5
WH	T	2M	26		73	73	8			100					100		40	14	290	1.63	.3
WH	T	3M	56		156	156	17		100			25			75		34	8	89	0.67	1.8
WH	T	4M	18		50	50	6		100				41		59		30	6	46	0.48	1.1
WH	Totals		1		279	279	31		74	26		14	7		79		29	8	78	0.69	3.6
NF	L	3M	100		82	82	9		100					68	32		36	8	95	0.62	.9
NF	Totals		0		82	82	9		100					68	32		36	8	95	0.62	.9
GF	L	3M	100		121	121	13		100						100		38	6	64	0.44	1.9
GF	Totals		0		121	121	13		100						100		38	6	64	0.44	1.9
Totals				0.2	32,589	32,526	3,610		73	23	4	2	24	20	54		33	8	95	0.68	343.4

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		4/10/2025	
TT4N RR6W S27 Ty00PC					111.00					Project					THPIPER					Time:		1:55:40PM			
										Acres					111.00					Grown Year:					
S	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s									
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons	Cunits				MBF									
DF L		12	2	87	84	1.543	1.21	2.31	13.1	50.0	.86	30	116			96	34	13							
DF L		13	3	87	82	1.973	1.82	3.95	12.4	48.3	1.40	49	191			155	54	21							
DF L		14	7	87	85	3.969	4.24	7.94	15.6	68.6	3.53	124	544			391	137	60							
DF L		15	30	88	94	14.816	18.18	28.64	19.3	85.7	15.78	554	2,454			1,751	614	272							
DF L		16	41	88	98	17.796	24.85	35.59	24.1	105.7	24.46	858	3,763			2,715	952	418							
DF L		17	32	88	102	12.304	19.39	26.91	25.2	108.1	19.30	677	2,911			2,142	752	323							
DF L		18	33	88	101	11.318	20.00	28.12	24.6	103.5	19.71	692	2,912			2,188	768	323							
DF L		19	13	87	110	4.002	7.88	11.08	26.9	118.6	8.49	298	1,314			942	330	146							
DF L		20	18	88	110	5.000	10.91	13.61	30.8	139.2	11.95	419	1,895			1,327	465	210							
DF L		21	9	88	114	2.268	5.45	5.80	35.2	164.8	5.81	204	955			645	226	106							
DF L		22	7	88	118	1.607	4.24	4.59	37.9	171.5	4.96	174	787			551	193	87							
DF L		23	4	88	97	.840	2.42	2.10	41.0	178.0	2.46	86	374			273	96	42							
DF L		24	2	88	92	.386	1.21	.77	54.9	227.5	1.21	42	176			134	47	19							
DF L		25	1	89	123	.178	.61	.53	49.4	236.7	.75	26	126			83	29	14							
DF L		26	2	87	160	.329	1.21	1.32	50.4	270.0	1.89	66	355			210	74	39							
DF L		28	1	90	160	.142	.61	.57	59.4	330.0	.96	34	187			107	37	21							
DF L		34	1	85	170	.096	.61	.38	87.1	465.0	.95	33	179			106	37	20							
DF L		36	1	90	170	.086	.61	.34	104.5	605.0	1.02	36	207			113	40	23							
DF L		Totals	207	88	100	78.651	125.45	174.57	25.2	111.4	125.48	4,403	19,446			13,928	4,887	2,159							
DF T		9	1	86	69	1.372	.61	1.37	7.9	40.0	.31	11	55			34	12	6							
DF T		10	2	87	84	2.222	1.21	2.22	12.8	60.0	.81	28	133			90	31	15							
DF T		11	10	86	79	9.183	6.06	9.18	15.1	62.0	3.95	139	569			438	154	63							
DF T		12	15	87	90	11.575	9.09	18.52	13.4	53.3	7.06	248	988			784	275	110							
DF T		13	17	87	88	11.178	10.30	19.07	14.6	57.9	7.95	279	1,105			883	310	123							
DF T		14	34	87	90	19.276	20.61	36.85	16.7	65.7	17.55	616	2,421			1,948	684	269							
DF T		15	17	87	96	8.396	10.30	16.30	20.6	84.8	9.55	335	1,383			1,060	372	153							
DF T		16	32	87	97	13.890	19.39	27.78	22.6	92.8	17.89	628	2,578			1,985	697	286							
DF T		17	13	86	100	4.998	7.88	10.00	27.4	110.4	7.80	274	1,104			866	304	122							
DF T		18	7	87	101	2.401	4.24	4.80	30.3	117.9	4.15	146	566			460	162	63							
DF T		19	1	87	70	.308	.61	.62	21.7	85.0	.38	13	52			42	15	6							
DF T		20	2	88	126	.556	1.21	1.11	42.6	187.5	1.35	47	208			150	53	23							
DF T		21	1	84	109	.252	.61	.50	45.2	155.0	.65	23	78			72	25	9							
DF T		22	1	86	143	.230	.61	.69	43.1	196.7	.85	30	135			94	33	15							
DF T		23	2	88	124	.420	1.21	1.05	50.7	222.0	1.52	53	233			169	59	26							
DF T		24	1	89	93	.193	.61	.39	54.3	210.0	.60	21	81			66	23	9							
DF T		25	2	87	136	.356	1.21	.89	59.0	272.0	1.49	52	242			166	58	27							
DF T		26	1	86	167	.164	.61	.66	50.1	230.0	.94	33	151			104	37	17							
DF T		Totals	159	87	91	86.969	96.36	151.99	19.6	79.5	84.79	2,975	12,083			9,412	3,302	1,341							
WH L		15	3	88	93	1.482	1.82	2.96	21.3	93.3	2.02	63	277			224	70	31							
WH L		20	1	86	120	.278	.61	.83	31.7	153.3	.84	26	128			94	29	14							
WH L		22	1	86	110	.230	.61	.69	35.3	160.0	.78	24	110			86	27	12							
WH L		Totals	5	87	99	1.989	3.03	4.49	25.4	114.7	3.64	114	515			404	126	57							
WH T		11	1	86	72	.918	.61	.92	17.1	60.0	.50	16	55			56	17	6							
WH T		15	1	86	84	.494	.61	.99	17.1	70.0	.54	17	69			60	19	8							
WH T		18	1	91	77	.343	.61	.69	26.9	105.0	.59	18	72			65	20	8							
WH T		21	1	91	85	.252	.61	.50	42.0	165.0	.68	21	83			75	23	9							
WH T		Totals	4	87	77	2.007	2.42	3.10	23.3	90.3	2.31	72	279			257	80	31							
GF L		10	1	86	70	1.111	.61	1.11	13.7	60.0	.34	15	67			37	17	7							
GF L		12	1	85	80	.772	.61	.77	21.1	70.0	.36	16	54			40	18	6							

TC		PSTNDSUM										Stand Table Summary						Page		2	
																		Date:		4/10/2025	
		TT4N RR6W S27 Ty00PC				111.00				Project		THPIPER				Time:		1:55:40PM			
						Acres		111.00				Grown Year:									
S	T	Sample		Tot		Trees/		Average Log		Net		Net		T o t a l s							
		DBH	Trees	FF	Av	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF						
GF	L	Totals	2	86	74	1.883	1.21	1.88	16.7	64.1	.69	31	121	77	35	13					
NF	L	16	1	86	99	.434	.61	.87	22.2	95.0	.46	19	82	51	21	9					
NF	L	Totals	1	86	99	.434	.61	.87	22.2	95.0	.46	19	82	51	21	9					
DF	S	11	1	70	33	.918	.61														
DF	S	Totals	1	70	33	.918	.61														
Totals		379		87	95	172.851	229.70	336.89	22.6	96.5	217.38	7,615	32,526	24,130	8,452	3,610					

TC		PLOGSTVB		Log Stock Table - MBF																	
TT4N RR6W S27 Ty00PC111.00				Project:		THPIPER												Page		1	
				Acres		111.00												Date		4/10/2025	
																		Time		1:55:38PM	
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+		
DF	L	3M	22	5		5	.2					5									
DF	L	3M	24	6		6	.3			2	4										
DF	L	3M	26	110		110	5.1			4	9	6	78		14						
DF	L	3M	27	116		116	5.4					32	65	19							
DF	L	3M	28	216		216	10.0			42		105	4	58	7						
DF	L	3M	29	38		38	1.8			1	5	16		8	7						
DF	L	3M	30	266		266	12.3			30		112	36	88							
DF	L	3M	31	75		75	3.5			10		37	6	23							
DF	L	3M	32	255		255	11.8			67	6	103	23	6	30	20					
DF	L	3M	33	51		51	2.4			9		21	21								
DF	L	3M	34	139		139	6.5			35		26	47	8	23						
DF	L	3M	35	110		110	5.1			10		78	14	9							
DF	L	3M	36	248		248	11.5			70		91	33	10	9	14	21				
DF	L	3M	37	113		113	5.2			17		88	7								
DF	L	3M	38	214		214	9.9			73		110	28		4						
DF	L	3M	39	35		35	1.6			5		8	7	15							
DF	L	3M	40	132		132	6.1			37		63	15	8	9						
DF	L	3M	41	22		22	1.0			22											
DF	L	4M	28	7		7	.3							7							
DF		Totals		2,159		2,159	59.8			433	24	901	383	259	103	34	21				
DF	T	2M	16	4		4	.3					4									
DF	T	2M	20	10		10	.7					5		5							
DF	T	2M	30	8		8	.6								8						
DF	T	2M	36	7		7	.5					7									
DF	T	2M	40	108	1.2	107	8.0					34		44	29						
DF	T	3M	16	3		3	.3					3									
DF	T	3M	32	13	8.3	12	.9					12									
DF	T	3M	34	6		6	.4			6											
DF	T	3M	35	11		11	.8			11											
DF	T	3M	36	11		11	.8			11											
DF	T	3M	37	4		4	.3			4											
DF	T	3M	38	11		11	.8			11											
DF	T	3M	39	9		9	.7			9											
DF	T	3M	40	959		954	71.1			193	384	377									
DF	T	4M	12	2		2	.1			2											
DF	T	4M	13	3		3	.2			3											

TC		PLOGSTVB		Log Stock Table - MBF																	
TT4N RR6W S27 Ty00PC111.00				Project:		THPIPER												Page		2	
				Acres		111.00												Date		4/10/2025	
																		Time		1:55:38PM	
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+			
DF	T	4M	14	3	3	.2			3												
DF	T	4M	15	10	10	.7			10												
DF	T	4M	16	3	3	.2			3												
DF	T	4M	17	8	8	.6			8												
DF	T	4M	18	10	10	.8			10												
DF	T	4M	19	2	2	.1			2												
DF	T	4M	20	9	9	.7			9												
DF	T	4M	21	11	11	.8			11												
DF	T	4M	22	5	5	.4			5												
DF	T	4M	23	8	8	.6			8												
DF	T	4M	24	8	8	.6			8												
DF	T	4M	25	11	11	.8			11												
DF	T	4M	26	2	2	.1			2												
DF	T	4M	27	19	19	1.4			19												
DF	T	4M	28	9	9	.7			9												
DF	T	4M	29	14	14	1.0			14												
DF	T	4M	31	14	14	1.1			14												
DF	T	4M	32	4	4	.3			4												
DF	T	4M	33	11	11	.8			11												
DF	T	4M	34	2	2	.2			2												
DF	T	4M	35	2	2	.2			2												
DF	T	4M	36	3	3	.2			3												
DF	T	4M	37	3	3	.2			3												
DF	T	4M	40	12	12	.9				4	7										
DF		Totals		1,348	1,341	37.1			418	388	400	50	48	37							
WH	L	3M	29	7	7	12.9							7								
WH	L	3M	30	13	13	23.1			1			4	8								
WH	L	3M	32	24	24	42.9			7		17										
WH	L	3M	36	9	9	15.4					9										
WH	L	3M	38	3	3	5.8			3												
WH		Totals		57	57	1.6			11		26	4	8	7							
WH	T	2M	40	8	8	26.2							8								
WH	T	3M	20	4	4	14.1					4										
WH	T	3M	40	13	13	41.8			6		7										
WH	T	4M	21	1	1	3.7			1												
WH	T	4M	30	1	1	3.6			1												

TC		PLOGSTVB		Log Stock Table - MBF																	
TT4N RR6W S27 Ty00PC 111.00				Project:		THPIPER										Page		3			
																Date		4/10/2025			
																Time		1:55:38PM			
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+		
WH	T	4M	36	3		3	10.6			3											
WH		Totals		31		31	.9			12		11		8							
NF	L	3M	35	6		6	68.4					6									
NF	L	3M	36	3		3	31.6			3											
NF		Totals		9		9	.3			3		6									
GF	L	3M	37	7		7	55.2			7											
GF	L	3M	40	6		6	44.8			6											
GF		Totals		13		13	.4			13											
Total		All Species		3,617		3,610	100.0			891	412	1345	437	324	147	34	21				

TC PSTATS				PROJECT STATISTICS				PAGE	1			
				PROJECT		THPIPER		DATE	4/10/2025			
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
T4N	R6	13	00U2	00PC		10.00	4	48	S	W		
				TREES		ESTIMATED	PERCENT					
				PER PLOT		TOTAL	SAMPLE					
				PLOTS	TREES	TREES	TREES					
TOTAL			4	48	12.0							
CRUISE			4	48	12.0	1,861	2.6					
DBH COUNT												
REFOREST												
COUNT												
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-L			26	80.0	17.3	115	31.3	130.0	24,222	24,222	5,149	5,149
DOUG FIR-T			22	106.1	13.8	104	29.6	110.0	15,054	14,770	3,648	3,648
TOTAL			48	186.1	15.4	109	61.2	240.0	39,276	38,993	8,797	8,797
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-L			27.1	5.4	302	320	337					
DOUG FIR-T			32.1	7.0	138	148	159					
TOTAL			46.3	6.7	225	241	257	86		21	10	
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-L			23.8	4.8	64	68	71					
DOUG FIR-T			33.4	7.3	34	37	39					
TOTAL			39.5	5.7	50	53	56	62		16	7	
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-L			17.1	9.8	72	80	88					
DOUG FIR-T			32.2	18.4	87	106	126					
TOTAL			17.6	10.1	167	186	205	16		4	2	
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-L			8.9	5.1	123	130	137					
DOUG FIR-T			31.5	18.0	90	110	130					
TOTAL			13.6	7.8	221	240	259	10		2	1	
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-L			6.3	3.6	23,352	24,222	25,092					
DOUG FIR-T			30.8	17.6	12,172	14,770	17,369					
TOTAL			12.3	7.0	36,263	38,993	41,722	8		2	1	
CL	68.1	COEFF		NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15	
DOUG FIR-L			6.6	3.8	4,955	5,149	5,342					
DOUG FIR-T			33.6	19.2	2,947	3,648	4,349					
TOTAL			13.6	7.7	8,115	8,797	9,478	10		2	1	

TC		PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																		
TT4N RR6W S13 Ty00PC10.00				Project: THPIPER										Page 1						
				Acres 10.00										Date 4/10/2025						
														Time 1:58:29PM						
S So Gr			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs
Spp	T	rt ad	Net	Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
								BdFt	4-5	6-11	12-16	17+	12-20	21-30	31-35					
DF	L	3M	100		24,222	24,222	242	58	42		66	9	24	32	9	114	0.76	211.7		
DF Totals			62		24,222	24,222	242	58	42		66	9	24	32	9	114	0.76	211.7		
DF	T	3M	78	2.4	11,934	11,651	117	96	4				100	40	8	101	0.63	115.9		
DF	T	4M	22		3,120	3,120	31	100			11	54	26	9	26	6	32	0.29	96.3	
DF Totals			38	1.9	15,054	14,770	148	97	3		2	11	5	81	34	7	70	0.51	212.2	
Totals				0.7	39,276	38,993	390	73	27		1	45	8	46	33	8	92	0.63	423.9	

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		4/10/2025	
TT4N RR6W S13 Ty00PC 10.00												Project		THPIPER						Time:		1:58:30PM			
												Acres		10.00						Grown Year:					
S Sp	T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s											
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF									
DF L		14	1	88	110	4.677	5.00	9.35	20.3	100.0	5.40	189	935	54	19	9									
DF L		15	4	88	110	16.297	20.00	32.59	22.6	100.0	20.97	736	3,259	210	74	33									
DF L		16	2	88	110	7.162	10.00	14.32	27.4	120.0	11.20	393	1,719	112	39	17									
DF L		17	4	89	115	12.688	20.00	38.07	21.2	103.3	22.98	806	3,933	230	81	39									
DF L		18	7	89	116	19.806	35.00	59.42	22.7	104.3	38.41	1,348	6,196	384	135	62									
DF L		19	4	90	120	10.158	20.00	30.47	27.4	130.0	23.79	835	3,962	238	83	40									
DF L		20	4	90	120	9.167	20.00	27.50	30.6	153.3	23.99	842	4,217	240	84	42									
DF L		Totals	26	89	115	79.956	130.00	211.73	24.3	114.4	146.74	5,149	24,222	1,467	515	242									
DF T		12	4	86	100	25.465	20.00	50.93	11.5	47.5	16.65	584	2,419	167	58	24									
DF T		13	4	85	109	21.698	20.00	43.40	15.2	58.8	18.84	661	2,549	188	66	25									
DF T		14	8	85	101	37.418	40.00	74.84	17.8	73.8	37.92	1,331	5,519	379	133	55									
DF T		15	3	86	110	12.223	15.00	24.45	21.5	88.3	14.97	525	2,159	150	53	22									
DF T		16	1	86	94	3.581	5.00	7.16	22.7	90.0	4.64	163	645	46	16	6									
DF T		17	1	85	120	3.172	5.00	6.34	31.6	125.0	5.72	201	793	57	20	8									
DF T		19	1	86	114	2.539	5.00	5.08	36.1	135.0	5.22	183	686	52	18	7									
DF T		Totals	22	85	104	106.096	110.00	212.19	17.2	69.6	103.96	3,648	14,770	1,040	365	148									
Totals			48	87	109	186.052	240.00	423.92	20.8	92.0	250.70	8,797	38,993	2,507	880	390									

TC		PLOGSTVB		Log Stock Table - MBF															
TT4N RR6W S13 Ty00PC10.00				Project:		THPIPER										Page		1	
																Date		4/10/2025	
																Time		1:58:28PM	
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+
DF	L	3M	26	10		10	4.2					10							
DF	L	3M	27	20		20	8.2					6	14						
DF	L	3M	28	13		13	5.3			4		8							
DF	L	3M	29	11		11	4.7						11						
DF	L	3M	30	106		106	43.8			7		33	20	46					
DF	L	3M	32	22		22	9.3			10		13							
DF	L	3M	36	7		7	2.7					7							
DF	L	3M	38	26		26	10.6			3		23							
DF	L	3M	39	10		10	4.0			10									
DF	L	3M	40	17		17	7.1			4		13							
DF		Totals		242		242	62.1			38		103	56	46					
DF	T	3M	40	119	2.4	117	78.9			24	71	16	5						
DF	T	4M	15	1		1	.9			1									
DF	T	4M	16	1		1	.6			1									
DF	T	4M	18	1		1	.9			1									
DF	T	4M	21	2		2	1.3			2									
DF	T	4M	22	2		2	1.3			2									
DF	T	4M	24	1		1	.9			1									
DF	T	4M	26	1		1	.9			1									
DF	T	4M	27	4		4	2.8			4									
DF	T	4M	28	6		6	4.1			6									
DF	T	4M	31	4		4	2.7			4									
DF	T	4M	33	2		2	1.4			2									
DF	T	4M	34	2		2	1.4			2									
DF	T	4M	36	3		3	1.9			3									
DF		Totals		151	1.9	148	37.9			55	71	16	5						
Total		All Species		393		390	100.0			94	71	119	61	46					

TC PSTATS				PROJECT STATISTICS				PAGE 1				
				PROJECT		THPIPER		DATE 4/10/2025				
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
T4N	R6	12	00U3	00PC		13.00	5	64	S	W		
			PLOTS		TREES	TREES	ESTIMATED TOTAL	PERCENT SAMPLE				
					PER PLOT	TREES	TREES					
TOTAL			5	64	12.8							
CRUISE			5	64	12.8	2,426	2.6					
DBH COUNT												
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
			SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-L			32	82.3	16.9	104	31.1	128.0	20,594	20,594	4,703	4,703
DOUG FIR-S			2	6.5	15.0	69	2.1	8.0				
DOUG FIR-T			26	85.8	14.9	95	26.9	104.0	13,987	13,757	3,331	3,331
R ALDER-L			3	9.1	15.5	78	3.0	12.0	1,336	1,336	308	308
WHEMLOCK-L			1	2.9	16.0	110	1.0	4.0	831	831	169	169
TOTAL			64	186.6	15.9	98	64.3	256.0	36,747	36,517	8,511	8,511
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-L		28.9	5.1	251	264	278						
DOUG FIR-S												
DOUG FIR-T		35.9	7.2	166	179	192						
R ALDER-L		20.0	13.8	129	150	171						
WHEMLOCK-L												
TOTAL		41.5	5.2	205	216	228	69	17	8			
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-L		26.9	4.7	58	61	63						
DOUG FIR-S												
DOUG FIR-T		37.3	7.5	40	44	47						
R ALDER-L		20.1	13.9	30	35	39						
WHEMLOCK-L												
TOTAL		39.7	5.0	48	51	53	63	16	7			
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-L		11.3	5.6	78	82	87						
DOUG FIR-S		136.9	68.0	2	7	11						
DOUG FIR-T		83.8	41.6	50	86	122						
R ALDER-L		140.6	69.9	3	9	16						
WHEMLOCK-L		223.6	111.1		3	6						
TOTAL		46.3	23.0	144	187	230	106	26	12			
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-L		14.0	6.9	119	128	137						
DOUG FIR-S		136.9	68.0	3	8	13						
DOUG FIR-T		89.6	44.5	58	104	150						
R ALDER-L		149.1	74.1	3	12	21						
WHEMLOCK-L		223.6	111.1		4	8						
TOTAL		46.4	23.0	197	256	315	106	27	12			

PROJECT STATISTICS

PROJECT THPIPER

DATE 4/10/2025

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	12	00U3	00PC	13.00	5	64	S	W

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-L		8.5	4.2	19,729	20,594	21,460			
DOUG FIR-S									
DOUG FIR-T		88.8	44.1	7,689	13,757	19,824			
R ALDER-L		148.7	73.9	349	1,336	2,322			
WHEMLOCK-L		223.6	111.1		831	1,754			
TOTAL		34.5	17.1	30,261	36,517	42,774	59	15	7

CL	68.1	COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		11.0	5.5	4,445	4,703	4,961			
DOUG FIR-S									
DOUG FIR-T		88.9	44.2	1,860	3,331	4,803			
R ALDER-L		149.4	74.2	79	308	537			
WHEMLOCK-L		223.6	111.1		169	356			
TOTAL		38.8	19.3	6,868	8,511	10,154	75	19	8

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
TT4N RR6W S12 Ty00PC 13.00				Project:		THPIPER										Page		1		
				Acres		13.00										Date		4/10/2025		
																Time		2:00:13PM		
S So Gr Spp T rt ad			%	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
			Net BdFt					Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	L	3M	100		20,594	20,594	268	63	37		21	27	52	35	9	115	0.74	178.6		
DF Totals			56		20,594	20,594	268	63	37		21	27	52	35	9	115	0.74	178.6		
DF	T	CU												16	9		0.00	15.8		
DF	T	2M	18	2.7	2,548	2,480	32		100		30		70	30	13	155	1.18	16.0		
DF	T	3M	68	1.4	9,614	9,481	123		100		3		4	38	9	106	0.67	89.4		
DF	T	4M	14	1.6	1,824	1,796	23		100		10	48	41	26	6	34	0.35	53.2		
DF Totals			38	1.6	13,987	13,757	179	82	18		9	6	8	77	32	8	79	0.60	174.4	
DF	S	CU												25	8		0.00	13.0		
DF Totals														25	8		0.00	13.0		
RA	L	CR	100		1,336	1,336	17	100					100	40	10	146	0.84	9.1		
RA Totals			4		1,336	1,336	17	100					100	40	10	146	0.84	9.1		
WH	L	3M	100		831	831	11		45	55		100		27	10	97	0.72	8.6		
WH Totals			2		831	831	11		45	55		100		27	10	97	0.72	8.6		
Totals				0.6	36,747	36,517	475		71	29		3	16	18	62	33	9	95	0.67	383.7

TC		PSTNDSUM										Stand Table Summary										Page		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TT4N RR6W S12 Ty00PC 13.00						Project		THPIPER		Time:		2:00:14PM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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TC		PLOGSTVB		Log Stock Table - MBF																
TT4N RR6W S12 Ty00PC13.00				Project:		THPIPER										Page		2		
				Acres		13.00										Date		4/10/2025		
																Time		2:00:12PM		
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+
WH	L		3M	26	6		6	55.2					6							
WH	L		3M	28	5		5	44.8			1		4							
WH		Totals			11		11	2.3			1		46							
Total		All Species			478		475	100.0			11040		188109		189					

TC PSTATS				PROJECT STATISTICS				PAGE 1					
				PROJECT	THPIPER		DATE	4/10/2025					
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt			
T4N	R6	12	00U4	00PC		10.00	5	59	S	W			
				TREES	ESTIMATED TOTAL		PERCENT SAMPLE						
				PLOTS	TREES	PER PLOT	TREES	TREES					
TOTAL				5	59	11.8							
CRUISE				5	59	11.8	1,652	3.6					
DBH COUNT													
REFOREST													
COUNT													
BLANKS													
100 %													
STAND SUMMARY													
SAMPLE TREES				TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
DOUG FIR-L				31	86.2	16.2	94	30.8	124.0	18,468	18,468	4,228	4,228
DOUG FIR-T				20	61.6	15.4	98	20.4	80.0	11,151	10,970	2,653	2,653
R ALDER-L				4	8.8	18.2	86	3.7	16.0	1,977	1,977	433	433
WHEMLOCK-L				2	3.5	20.4	97	1.8	8.0	1,423	1,423	310	310
BL MAPLE-L				1	3.7	14.0	71	1.1	4.0	449	449	102	102
WR CEDAR-L				1	1.3	24.0	89	0.8	4.0	484	484	139	139
TOTAL				59	165.2	16.2	94	58.7	236.0	33,952	33,771	7,864	7,864
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-L		61.0	11.0	245	275	305							
DOUG FIR-T		27.4	6.3	178	190	202							
R ALDER-L		57.1	32.6	172	255	338							
WHEMLOCK-L		53.4	50.0	225	450	675							
BL MAPLE-L													
WR CEDAR-L													
TOTAL		58.1	7.6	231	250	269	135		34	15			
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-L		54.2	9.7	56	62	68							
DOUG FIR-T		33.5	7.7	43	47	50							
R ALDER-L		40.9	23.4	41	54	66							
WHEMLOCK-L		41.4	38.8	58	95	132							
BL MAPLE-L													
WR CEDAR-L													
TOTAL		51.6	6.7	54	58	62	106		27	12			
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-L		36.2	18.0	71	86	102							
DOUG FIR-T		93.7	46.6	33	62	90							
R ALDER-L		150.3	74.7	2	9	15							
WHEMLOCK-L		145.6	72.4	1	4	6							
BL MAPLE-L		223.6	111.1		4	8							
WR CEDAR-L		223.6	111.1		1	3							
TOTAL		20.4	10.1	148	165	182	21		5	2			
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-L		13.5	6.7	116	124	132							
DOUG FIR-T		93.5	46.5	43	80	117							
R ALDER-L		163.0	81.0	3	16	29							
WHEMLOCK-L		136.9	68.0	3	8	13							

TC PSTATS			PROJECT STATISTICS							PAGE	2
			PROJECT			THPIPER				DATE	4/10/2025
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
T4N	R6	12	00U4	00PC	10.00		5	59	S	W	
CL	68.1		COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
BL MAPLE-L			223.6	111.1		4	8				
WR CEDAR-L			223.6	111.1		4	8				
TOTAL			27.7	13.8	203	236	269	38	9	4	
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-L			16.7	8.3	16,934	18,468	20,003				
DOUG FIR-T			95.0	47.2	5,791	10,970	16,149				
R ALDER-L			179.0	88.9	218	1,977	3,735				
WHEMLOCK-L			138.3	68.7	445	1,423	2,401				
BL MAPLE-L			223.6	111.1		449	948				
WR CEDAR-L			223.6	111.1		484	1,021				
TOTAL			31.8	15.8	28,429	33,771	39,113	50	13	6	
CL	68.1		COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR-L			16.8	8.4	3,875	4,228	4,581				
DOUG FIR-T			94.5	46.9	1,408	2,653	3,898				
R ALDER-L			168.7	83.9	70	433	795				
WHEMLOCK-L			137.0	68.1	99	310	521				
BL MAPLE-L			223.6	111.1		102	215				
WR CEDAR-L			223.6	111.1		139	293				
TOTAL			33.9	16.8	6,540	7,864	9,187	57	14	6	

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
TT4N RR6W S12 Ty00PC10.00				Project:THPIPER				Page1				Date4/10/2025				Time2:02:29PM				
				Acres10.00																
S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre			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	
				Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	L	3M	100		18,468	18,468	185	58	32	10		38	21	42		33	9	108	0.75	171.2
DF Totals			55		18,468	18,468	185	58	32	10		38	21	42		33	9	108	0.75	171.2
DF	T	CU														13	13		0.00	3.9
DF	T	2M	12	6.2	1,475	1,384	14			100		42		58		29	14	180	1.43	7.7
DF	T	3M	76	.8	8,404	8,338	83	100						6	94	39	8	108	0.67	77.0
DF	T	4M	12	2.0	1,273	1,247	12	100				14	66	10	10	25	6	32	0.34	38.6
DF Totals			32	1.6	11,151	10,970	110	87	13			7	7	6	80	33	8	86	0.63	127.2
RA	L	CR	100		1,977	1,977	20	17	50	32				100		40	12	224	1.23	8.8
RA Totals			6		1,977	1,977	20	17	50	32				100		40	12	224	1.23	8.8
BM	L	CR	100		449	449	4	100						100		40	9	120	0.68	3.7
BM Totals			1		449	449	4	100						100		40	9	120	0.68	3.7
WH	L	3M	100		1,423	1,423	14	12	53	35		55		45		33	11	171	1.13	8.3
WH Totals			4		1,423	1,423	14	12	53	35		55		45		33	11	171	1.13	8.3
RC	L	3M	100		484	484	5	16	84					100		36	11	190	1.51	2.5
RC Totals			1		484	484	5	16	84					100		36	11	190	1.51	2.5
Totals				0.5	33,952	33,771	338	63	28	9		2	25	13	59	33	9	105	0.73	321.8

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		4/10/2025	
TT4N RR6W S12 Ty00PC 10.00		Project										THPIPER										Time:		2:02:30PM	
		Acres										10.00										Grown Year:			
S SpC	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s											
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF									
DF L		9	1	87	77	9.054	4.00	9.05	9.0	50.0	2.32	81	453	23	8	5									
DF L		11	1	87	79	6.061	4.00	6.06	14.8	60.0	2.56	90	364	26	9	4									
DF L		14	3	87	83	11.225	12.00	22.45	15.5	68.3	9.89	347	1,534	99	35	15									
DF L		15	3	88	94	9.778	12.00	19.56	19.5	86.7	10.86	381	1,695	109	38	17									
DF L		16	4	88	96	11.459	16.00	22.92	23.7	102.5	15.45	542	2,349	154	54	23									
DF L		17	5	88	105	12.688	20.00	30.45	23.8	104.2	20.63	724	3,172	206	72	32									
DF L		18	5	88	102	11.318	20.00	24.90	28.9	119.1	20.51	719	2,965	205	72	30									
DF L		19	4	89	100	8.126	16.00	18.28	31.3	128.9	16.32	573	2,357	163	57	24									
DF L		20	1	88	99	1.833	4.00	3.67	38.6	145.0	4.04	142	532	40	14	5									
DF L		24	1	88	109	1.273	4.00	3.82	41.5	203.3	4.52	159	777	45	16	8									
DF L		25	1	88	112	1.173	4.00	3.52	45.5	220.0	4.56	160	774	46	16	8									
DF L		26	2	89	108	2.170	8.00	6.51	47.6	230.0	8.83	310	1,497	88	31	15									
DF L		Totals	31	88	94	86.160	124.00	171.19	24.7	107.9	120.50	4,228	18,468	1,205	423	185									
DF T		13	2	88	89	8.679	8.00	17.36	13.7	55.0	6.79	238	955	68	24	10									
DF T		14	6	88	97	22.451	24.00	44.90	17.8	78.3	22.79	800	3,517	228	80	35									
DF T		15	3	88	101	9.778	12.00	19.56	21.4	88.3	11.92	418	1,728	119	42	17									
DF T		16	1	88	91	2.865	4.00	5.73	22.5	90.0	3.68	129	516	37	13	5									
DF T		17	4	89	104	10.151	16.00	20.30	28.3	117.5	16.36	574	2,385	164	57	24									
DF T		18	2	89	104	4.527	8.00	9.05	28.3	112.5	7.32	257	1,019	73	26	10									
DF T		21	1	87	83	1.663	4.00	3.33	28.5	110.0	2.71	95	366	27	9	4									
DF T		22	1	88	97	1.515	4.00	3.03	46.8	160.0	4.04	142	485	40	14	5									
DF T		Totals	20	88	98	61.629	80.00	123.26	21.5	89.0	75.60	2,653	10,970	756	265	110									
RA L		16	1	90	69	2.865	4.00	2.86	33.4	120.0	2.63	96	344	26	10	3									
RA L		17	1	94	97	2.538	4.00	2.54	43.6	200.0	3.04	111	508	30	11	5									
RA L		19	1	92	88	2.032	4.00	2.03	53.8	240.0	3.00	109	488	30	11	5									
RA L		23	1	94	99	1.386	4.00	1.39	84.3	460.0	3.21	117	638	32	12	6									
RA L		Totals	4	92	86	8.820	16.00	8.82	49.0	224.1	11.89	433	1,977	119	43	20									
WH L		18	1	91	96	2.264	4.00	4.53	33.7	140.0	4.89	153	634	49	15	6									
WH L		24	1	93	99	1.273	4.00	3.82	41.1	206.7	5.03	157	789	50	16	8									
WH L		Totals	2	92	97	3.537	8.00	8.35	37.1	170.5	9.91	310	1,423	99	31	14									
RC L		24	1	81	89	1.273	4.00	2.55	54.5	190.0	3.26	139	484	33	14	5									
RC L		Totals	1	81	89	1.273	4.00	2.55	54.5	190.0	3.26	139	484	33	14	5									
BM L		14	1	94	71	3.742	4.00	3.74	27.3	120.0	2.70	102	449	27	10	4									
BM L		Totals	1	94	71	3.742	4.00	3.74	27.3	120.0	2.70	102	449	27	10	4									
Totals			59	88	94	165.161	236.00	317.91	24.7	106.2	223.87	7,864	33,771	2,239	786	338									

TC		PLOGSTVB		Log Stock Table - MBF																	
TT4N RR6W S12 Ty00PC10.00				Project:THPIPER		Acres10.00														Page1	
																				Date4/10/2025	
																				Time2:02:28PM	
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+		
DF	L	3M	25	3		3	1.8					3									
DF	L	3M	26	13		13	7.2			1		4		4	4						
DF	L	3M	27	8		8	4.2					8									
DF	L	3M	28	23		23	12.5			4		17		2							
DF	L	3M	29	5		5	2.7								5						
DF	L	3M	30	17		17	9.2			4		4	2	2	5						
DF	L	3M	31	4		4	1.9					4									
DF	L	3M	32	17		17	9.4			2		7		2	5						
DF	L	3M	33	5		5	2.7			5											
DF	L	3M	34	7		7	3.7			3			4								
DF	L	3M	35	5		5	2.9			1		4									
DF	L	3M	36	25		25	13.7			3		9	13								
DF	L	3M	37	8		8	4.5			3		5									
DF	L	3M	38	9		9	4.6			4			4								
DF	L	3M	39	9		9	4.9					9									
DF	L	3M	40	22		22	12.0			9			13								
DF	L	3M	41	4		4	2.0			4											
DF		Totals		185		185	54.7			43		63	48	11	19						
DF	T	2M	16	3		3	2.4								3						
DF	T	2M	20	3		3	2.9							3							
DF	T	2M	40	9	10.2	8	7.3						4	4							
DF		3M	32	2		2	1.7			2											
DF	T	3M	33	2		2	1.5			2											
DF	T	3M	35	2		2	1.5			2											
DF	T	3M	36	2		2	1.4			2											
DF	T	3M	38	2		2	2.1			2											
DF	T	3M	40	75		74	67.9			4	38	32									
DF	T	4M	17	1		1	.8			1											
DF	T	4M	18	1		1	.8			1											
DF	T	4M	22	2		2	2.0			2											
DF	T	4M	23	1		1	1.0			1											
DF	T	4M	26	2		2	1.7			2											
DF	T	4M	29	3		3	2.7			3											
DF	T	4M	32	1		1	1.2			1											
DF	T	4M	36	2	16.7	1	1.2			1											
DF		Totals		112	1.6	110	32.5			25	38	32	4	7	3						

TC		PLOGSTVB		Log Stock Table - MBF																	
TT4N RR6W S12 Ty00PC10.00				Project:		THPIPER										Page		2			
																Date		4/10/2025			
																Time		2:02:28PM			
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+	
RA	L		CR	40	20		20	100.0			3		10		6						
RA			Totals		20		20	5.9			3		10		6						
BM	L		CR	40	4		4	100.0			4										
BM			Totals		4		4	1.3			4										
WH	L		3M	26	5		5	34.9							5						
WH	L		3M	28	3		3	20.6			0				3						
WH	L		3M	37	5		5	35.0					5								
WH	L		3M	38	1		1	9.5			1										
WH			Totals		14		14	4.2			2		5		3	5					
RC	L		3M	36	5		5	100.0			1				4						
RC			Totals		5		5	1.4			1				4						
Total			All Species		340		338	100.0			71	46	95	67	25	33					

TC PSTATS				PROJECT STATISTICS					PAGE	1	
				PROJECT	THPIPER			DATE	4/10/2025		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T4N	R5	17	00U5	00PC		6.00	3	39	S	W	
				TREES		ESTIMATED	PERCENT				
				PER PLOT		TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES				
TOTAL			3	39	13.0						
CRUISE			3	39	13.0	1,265	3.1				
DBH COUNT											
REFOREST											
COUNT											
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-L			20	79.0	17.6	116	31.8	133.3	23,610	23,610	5,263
DOUG FIR-T			18	128.4	13.1	108	33.2	120.0	17,114	16,988	4,011
NOB FIR-L			1	3.4	19.0	120	1.5	6.7	1,117	1,117	259
TOTAL			39	210.8	15.0	111	67.0	260.0	41,842	41,715	9,533
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-L			26.5	6.1	293	313	332				
DOUG FIR-T			34.8	8.4	132	144	157				
NOB FIR-L											
TOTAL			46.3	7.4	218	235	253	85	21	9	
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-L			23.1	5.3	66	69	73				
DOUG FIR-T			34.7	8.4	31	34	37				
NOB FIR-L											
TOTAL			42.5	6.8	50	53	57	72	18	8	
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-L			12.1	8.4	72	79	86				
DOUG FIR-T			6.9	4.8	122	128	135				
NOB FIR-L			173.2	119.8		3	7				
TOTAL			5.4	3.7	203	211	219	2	0	0	
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-L			8.7	6.0	125	133	141				
DOUG FIR-T			16.7	11.5	106	120	134				
NOB FIR-L			173.2	119.8		7	15				
TOTAL			7.7	5.3	246	260	274	3	1	0	
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-L			8.7	6.0	22,185	23,610	25,035				
DOUG FIR-T			21.7	15.0	14,443	16,988	19,533				
NOB FIR-L			173.2	119.8		1,117	2,456				
TOTAL			9.3	6.5	39,018	41,715	44,413	5	1	1	
CL	68.1	COEFF	NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR-L			5.5	3.8	5,061	5,263	5,464				
DOUG FIR-T			22.1	15.3	3,397	4,011	4,626				

TC PSTATS			<u>PROJECT STATISTICS</u>						PAGE	2
			PROJECT			THPIPER			DATE	4/10/2025
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R5	17	00U5	00PC		6.00	3	39	S	W
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
NOB FIR-L			173.2	119.8		259	569			
TOTAL			10.8	7.4	8,823	9,533	10,243	7	2	1

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
TT4N RR5W S17 Ty00PC6.00				Project:		THPIPER										Page		1				
				Acres		6.00										Date		4/10/2025				
																Time		2:03:50PM				
S So Gr			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs		
Spp	T	rt ad	Net	Def%	Gross	Net		Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd		CF/	Per
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	L	3M	100		23,610	23,610	142		59	41			61	15	24	33	9	113	0.78	208.2		
DF Totals			57		23,610	23,610	142		59	41			61	15	24	33	9	113	0.78	208.2		
DF	T	CU														4	12		0.00	6.2		
DF	T	3M	87	.8	14,986	14,860	89		100						4	96	39	8	89	0.53	167.8	
DF	T	4M	13		2,128	2,128	13		100			22	65	13		23	6	28	0.27	76.8		
DF Totals			41	.7	17,114	16,988	102		100			3	8	5	84	34	7	68	0.48	250.8		
NF	L	3M	100		1,117	1,117	7		45	55			100			30	10	110	0.85	10.2		
NF Totals			3		1,117	1,117	7		45	55			100			30	10	110	0.85	10.2		
Totals				0.3	41,842	41,715	250		76	24		1	40	11	48	33	8	89	0.61	469.1		

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		4/10/2025	
TT4N RR5W S17 Ty00PC 6.00												Project		THPIPER						Time:		2:03:51PM			
												Acres		6.00						Grown Year:					
S Sp	T	Tot							Average Log		Net		Net		Totals										
		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									
DF	L	15	1	88	100	5.432	6.67	10.86	20.8	95.0	6.44	226	1,032	39	14	6									
DF	L	16	4	87	110	19.099	26.67	38.20	25.8	110.0	28.14	987	4,202	169	59	25									
DF	L	17	4	86	117	16.918	26.67	46.52	22.3	97.3	29.63	1,040	4,526	178	62	27									
DF	L	18	5	86	120	18.863	33.33	56.59	23.9	110.0	38.61	1,355	6,225	232	81	37									
DF	L	19	1	85	120	3.386	6.67	10.16	25.6	110.0	7.42	260	1,117	45	16	7									
DF	L	20	5	87	122	15.279	33.33	45.84	30.4	142.0	39.75	1,395	6,509	238	84	39									
DF	L	Totals	20	87	116	78.977	133.33	208.17	25.3	113.4	149.98	5,263	23,610	900	316	142									
DF	T	10	1	85	99	12.223	6.67	12.22	12.8	60.0	4.45	156	733	27	9	4									
DF	T	11	2	86	111	20.203	13.33	40.41	10.3	45.0	11.89	417	1,818	71	25	11									
DF	T	12	2	86	108	16.977	13.33	33.95	12.6	55.0	12.19	428	1,867	73	26	11									
DF	T	13	3	85	99	21.698	20.00	43.40	14.1	51.7	17.41	611	2,242	104	37	13									
DF	T	14	6	86	113	37.418	40.00	74.84	19.0	84.2	40.46	1,420	6,299	243	85	38									
DF	T	15	2	85	112	10.865	13.33	21.73	22.7	92.5	14.04	493	2,010	84	30	12									
DF	T	16	1	86	117	4.775	6.67	9.55	25.1	105.0	6.84	240	1,003	41	14	6									
DF	T	17	1	85	109	4.229	6.67	8.46	29.1	120.0	7.02	246	1,015	42	15	6									
DF	T	Totals	18	86	108	128.388	120.00	244.55	16.4	69.5	114.32	4,011	16,988	686	241	102									
NF	L	19	1	85	120	3.386	6.67	10.16	25.5	110.0	6.22	259	1,117	37	16	7									
NF	L	Totals	1	85	120	3.386	6.67	10.16	25.5	110.0	6.22	259	1,117	37	16	7									
Totals		39	86	111		210.750	260.00	462.88	20.6	90.1	270.52	9,533	41,715	1,623	572	250									

TC		PLOGSTVB		Log Stock Table - MBF																	
TT4N RR5W S17 Ty00PC6.00				Project: Acres		THPIPER 6.00												Page Date Time		1 4/10/2025 2:03:49PM	
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+		
DF	L	3M	26	4		4	2.9						4								
DF	L	3M	27	3		3	1.8					3									
DF	L	3M	28	1		1	.5			1											
DF	L	3M	29	16		16	11.5						16								
DF	L	3M	30	63		63	44.1			7	4	19	15	18							
DF	L	3M	31	1		1	.6			1											
DF	L	3M	32	13		13	9.2			4		5		4							
DF	L	3M	34	4		4	2.6			1		3									
DF	L	3M	35	4		4	3.0					4									
DF	L	3M	36	2		2	1.4			2											
DF	L	3M	38	8		8	5.7					8									
DF	L	3M	40	22		22	15.4			7		15									
DF	L	3M	41	2		2	1.4			2											
DF		Totals		142		142	56.6			24	4	57	36	22							
DF	T	3M	32	4		4	3.7			4											
DF	T	3M	38	2		2	2.2			2											
DF	T	3M	40	84		83	81.6			27	43	13									
DF	T	4M	12	0		0	.4			0											
DF	T	4M	19	2		2	2.4			2											
DF	T	4M	21	2		2	1.5			2											
DF	T	4M	25	2		2	1.5			2											
DF	T	4M	28	4		4	3.7			4											
DF	T	4M	30	1		1	1.5			1											
DF	T	4M	32	2		2	1.6			2											
DF		Totals		103		102	40.7			46	43	13									
NF	L	3M	30	7		7	100.0			1		2	4								
NF		Totals		7		7	2.7			1		2	4								
Total		All Species		251		250	100.0			70	46	73	39	22							

VOLUME SUMMARY
(Shown in MBF)
Thin Piper
FG-341-2026-W01160-01
April 2025

UNIT 1: PC-M (111 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	135	1,022	184	1,341
	Hidden D&B (2%)	(3)	(20)	(4)	(27)
	NET TOTAL	132	1,002	180	1,314
	% of Total	10	76	14	
Western Hemlock	Cruise Volume	8	17	6	31
	Hidden D&B (2%)	(0)	(0)	(0)	(0)
	NET TOTAL	8	17	6	31
	% of Total	26	55	19	

UNIT 2: PC-M (10 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	0	117	31	148
	Hidden D&B (2%)	(0)	(2)	(1)	(3)
	NET TOTAL	0	115	30	145
	% of Total	0	79	21	

UNIT 3: PC-M (13 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	32	123	23	178
	Hidden D&B (2%)	(1)	(2)	(1)	(4)
	NET TOTAL	31	121	22	174
	% of Total	18	70	12	

UNIT 4: PC-M (10 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	14	83	12	109
	Hidden D&B (2%)	(0)	(2)	(0)	(2)
	NET TOTAL	14	81	12	107
	% of Total	13	76	11	

UNIT 5: PC-M (6 ACRES)

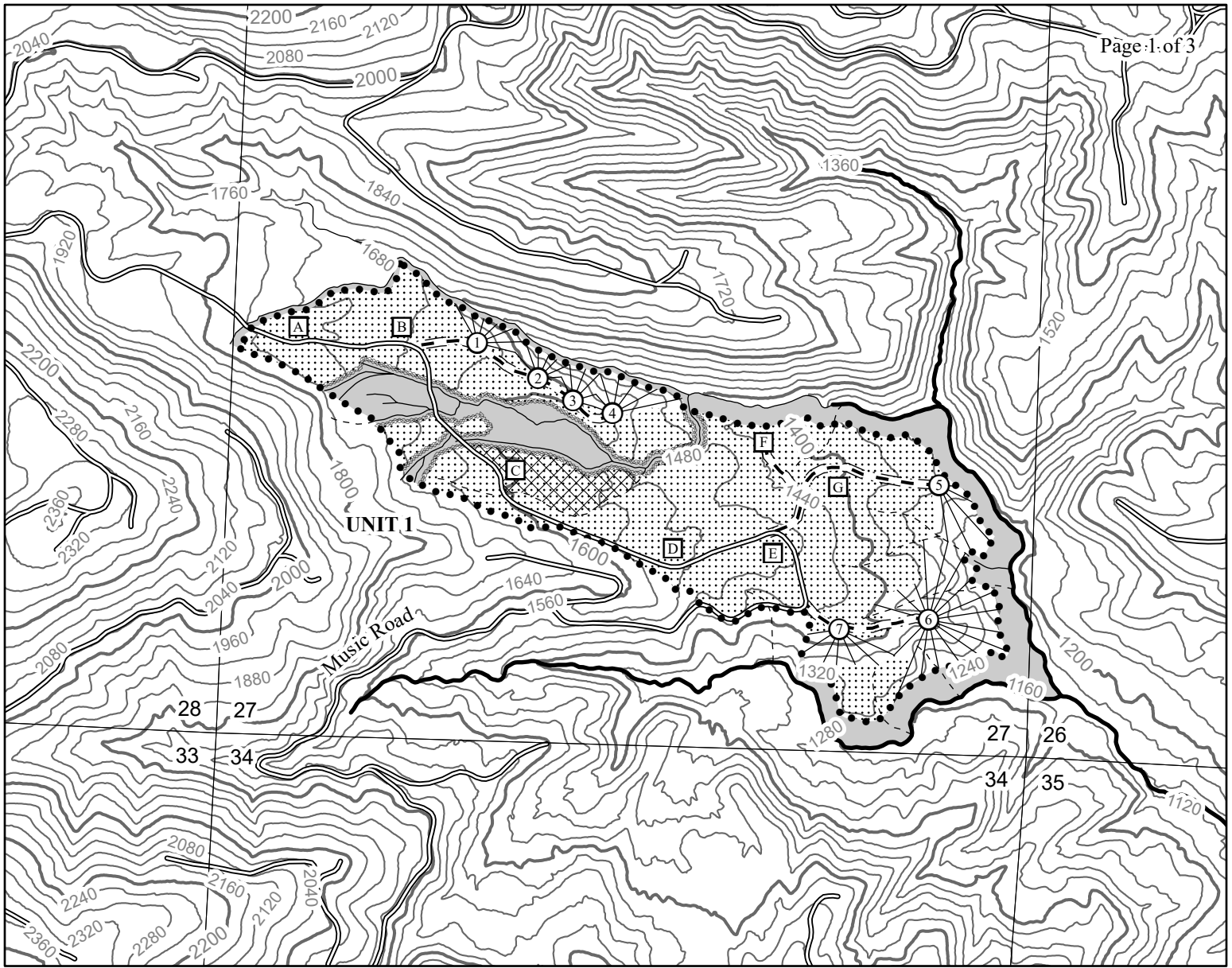
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	0	89	13	102
	Hidden D&B (2%)	(0)	(2)	(0)	(2)
	NET TOTAL	0	87	13	100
	% of Total	0	87	13	

UNIT 6: R/W (3 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	11	84	16	111
	Hidden D&B (2%)	(0)	(2)	(0)	(2)
	NET TOTAL	11	82	16	109
	% of Total	10	75	15	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	188	1,488	273	1,949
Western Hemlock	8	17	6	31
Total	196	1,505	279	1,980



- Legend**
- • • Timber Sale Boundary
 - Stream Buffer Boundary
 - Right-of-Way Boundary
 - Surfaced Road
 - - - New Road Construction
 - Type-F Stream
 - Type-N Stream - Perennial
 - Type-N Stream - Seasonal
 - Stream Buffer
 - Cable Yarding Area
 - Tractor Yarding Area
 - Cable Landing
 - Tractor Landing
 - Fertilization Study Area
 - Section Line
 - 40 Foot Contour Band
 - 200 Foot Contour Band

LOGGING PLAN

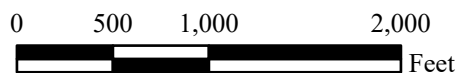
FOR TIMBER SALE CONTRACT #FG-341-2026-W01160-01
THIN PIPER
PORTIONS OF SECTIONS 17, T4N, R5W, W.M.
PORTIONS OF SECTIONS 12, 13, 26 & 27, T4N, R6W, W.M.
CLATSOP & COLUMBIA COUNTY, OREGON

Forest Grove District GIS
April, 2025

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

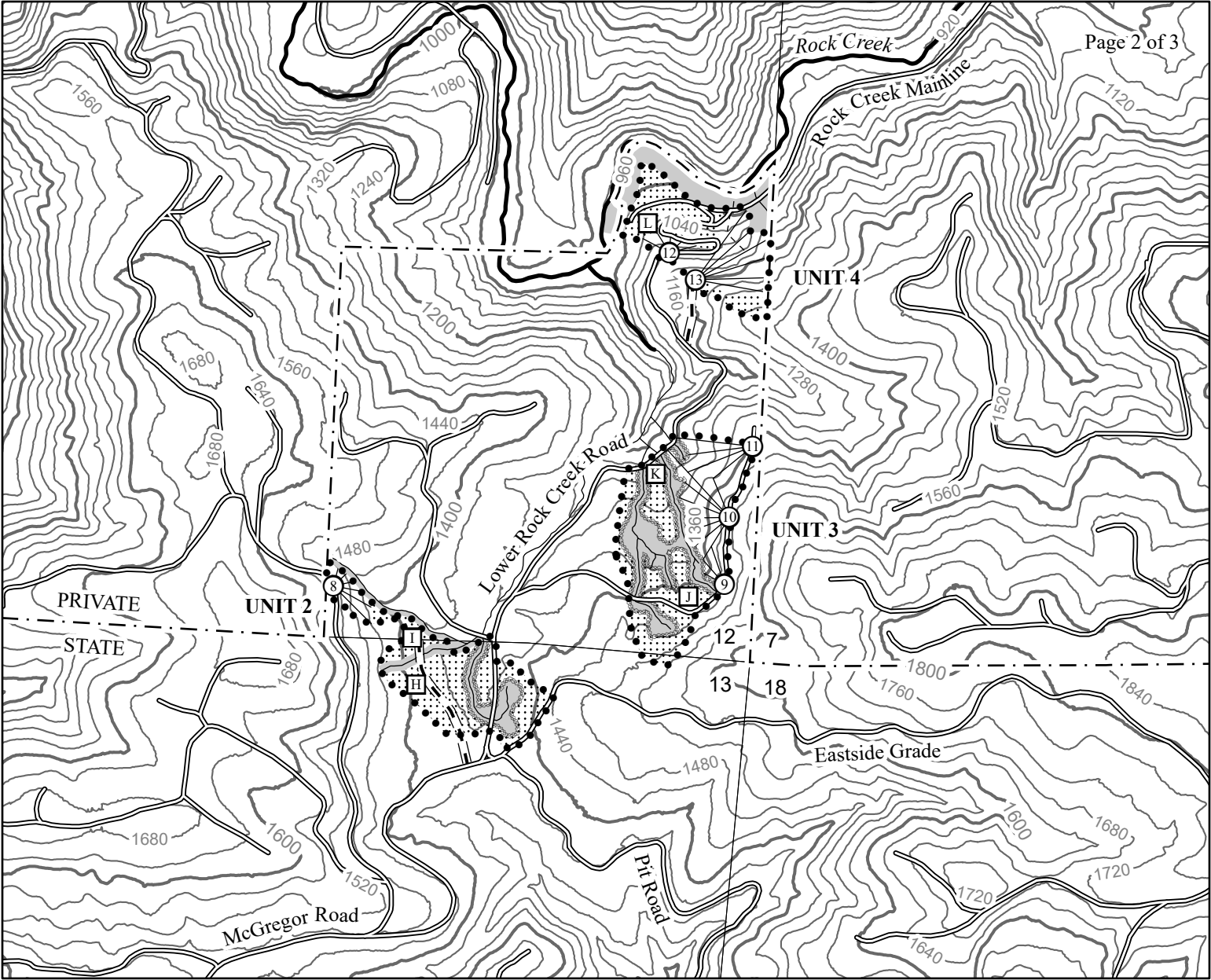
1:12,000

1 inch = 1,000 feet



APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	89	22
UNIT 2	9	1
UNIT 3	7	6
UNIT 4	5	5
UNIT 5	6	0
UNIT 6	3	0
TOTAL	118	35



- Legend**
- • • Timber Sale Boundary
 - Stream Buffer Boundary
 - Right-of-Way Boundary
 - ODF Ownership Boundary
 - Surfaced Road
 - New Road Construction
 - Type-F Stream
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 - Stream Buffer
 - Cable Yarding Area
 - Tractor Yarding Area
 - Cable Landing
 - Tractor Landing
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LOGGING PLAN

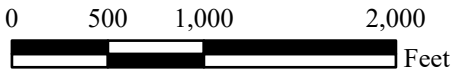
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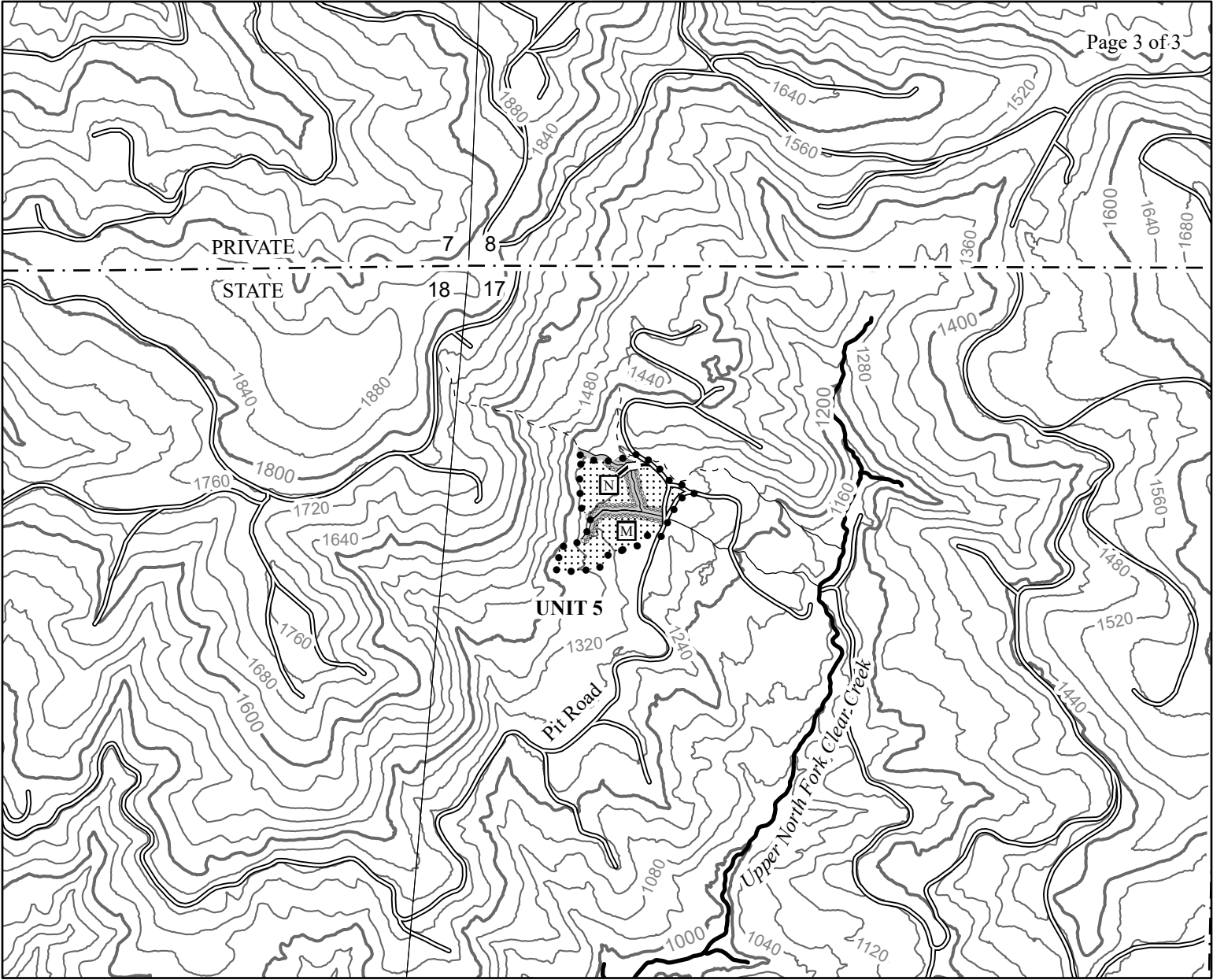
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	APPROXIMATE NET ACRES	
	TRACTOR	CABLE
UNIT 1	89	22
UNIT 2	9	1
UNIT 3	7	6
UNIT 4	5	5
UNIT 5	6	0
UNIT 6	3	0
TOTAL	118	35



- Legend**
- • • Timber Sale Boundary
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LOGGING PLAN

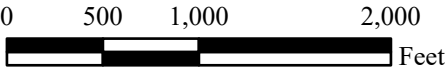
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APPROXIMATE NET ACRES

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UNIT 2	9	1
UNIT 3	7	6
UNIT 4	5	5
UNIT 5	6	0
UNIT 6	3	0
TOTAL	118	35