



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
1000 Line Jim Thin
Sale NC-341-2026-W01247-01

District: N Cascade

Date: December 02, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$458,203.24	\$0.00	\$458,203.24
		Project Work:	(\$101,781.21)
		Advertised Value:	\$356,422.03



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Date: December 02, 2025

Timber Description

Location: Portions of Sections 18, 19, 20, & 21 of T10S, R3E, W.M., Linn County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	103	1,645	1,748
Total	103	1,645	1,748

Comments: Pond Values Used: Local Pond Values, October 2025

Western hemlock and other conifers stumpage price = Pond value minus logging cost:
 $\$68.89/\text{MBF} = \$525/\text{MBF} - \$456.11/\text{MBF}$

Western redcedar and other cedars stumpage price = Pond value minus logging cost:
 $\$763.89/\text{MBF} = \$1,220/\text{MBF} - \$456.11/\text{MBF}$

Red alder and other hardwoods stumpage price = Pond value minus logging cost:
 $\$43.89/\text{MBF} = \$500/\text{MBF} - \$456.11/\text{MBF}$

Pulp Price: $\$20/\text{MBF} = \$2/\text{ton} \times 10 \text{ ton}/\text{MBF}$

OTHER COSTS (With Profit & Risk to be added)

Season 1 Equipment Move-In: Accounted for in Logging Cost

Equipment Weed Wash: ($\$50/\text{hr}$ labor cost) 6-hour wash time = $\$300 \times 7$ pieces of equipment = $\$2,100$

Intermediate Supports: ($\$125/\text{support}$) $\times 8$ supports = $\$1,000$

Additional Time for Moving Equipment:

($\$240/\text{hr} \times 2$ Yarders) $\times 1$ -hour move time = $\$480$

($\$200/\text{hr} \times 2$ Processors) $\times 1$ -hour move time = $\$400$

($\$200/\text{hr} \times 2$ Loaders) $\times 1$ -hour move time = $\$400$

TOTAL Other Costs (with Profit & Risk to be added) = $\$4,380$

OTHER COSTS (No Profit and Risk added)

None

SLASH DISPOSAL COSTS

Landing Piles: $\$100/\text{Piling} \times 15$ landings = $\$1,500$

Pile Covering: ($\$15/\text{pile} \times 15$ piles) + ($\$50/\text{hr} \times 2$ personnel $\times 3$ -hours) = $\$525$

TOTAL Slash Disposal Costs = $\$2,025$

ROAD MAINTENANCE COSTS

Grader Move-In: $\$1,050$

Roller Move-In: $\$1,050$

General Road Maintenance: $13.08 \text{ miles} \times \$2,100/\text{mile} = \$27,468$

General Road Subtotal = $\$1,050 + \$1,050 + \$27,468 = \$29,568$

TOTAL Road Maintenance Costs = $\$25,725/1,748 \text{ MBF} = \$16.92/\text{MBF}$



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Logging Conditions

Combination#: 1 Douglas - Fir 53.34%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing

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

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

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

cost / mbf: \$284.93

machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 35.49%

Logging System: Wheel Skidder **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: 12 **bd. ft / load:** 4000

cost / mbf: \$208.33

machines: Forwarder
Harvester

Combination#: 3 Douglas - Fir 11.18%

Logging System: Cable: Small Tower <=40 **Process:** Harvester Head Delimbing

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

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 4 **bd. ft / load:** 3700

cost / mbf: \$502.10

machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Small)



"STEWARDSHIP IN FORESTRY"

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Date: December 02, 2025

Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$101,781.21	Other Costs (P/R): \$4,380.00
Slash Disposal: \$2,025.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$16.92

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0



"STEWARDSHIP IN FORESTRY"

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District: N Cascade

Date: December 02, 2025

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$282.02	\$17.43	\$2.51	\$107.30	\$2.51	\$41.18	\$1.16	\$2.00	\$0.00	\$456.11

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$718.24	\$262.13	\$0.00



"STEWARDSHIP IN FORESTRY"

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District: N Cascade

Date: December 02, 2025

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,748	\$262.13	\$458,203.24

Gross Timber Sale Value

Recovery: \$458,203.24

Prepared By: Zane Sandborg

Phone: 503-781-7754

1000 Line Jim Thin

Project No. 1

NEW CONSTRUCT:

		Rocking			
Segments	Length	Pit Run	6" -0" Jaw Run	1.5"- 0"	Total
Pt. A to Pt. A1	5+00	3 cy	312 cy	134 cy	\$ 12,939.34
Pt. B to Pt. B1	10+15	6 cy	523 cy	249 cy	\$ 22,326.98
Pt. D to Pt. D1	1+25		96 cy	21 cy	\$ 3,665.57
Pt. E to Pt. E1	0+60		68 cy	10 cy	\$ 3,041.37
Total Stations	17+00	9 cy	1,000 cy	415 cy	\$ 41,973.26
Total Miles	0.32				
Project No. 1					\$ 41,973.26

ROAD IMPROVEMENT:

		Rocking			
Segments	Length/sites	Pit Run	6" -0" Jaw Run	1.5"- 0"	Total
Pt. 1 to Pt. 2	#REF!		202 cy	1,069 cy	\$ 19,868.18
Pt. 3 to Pt. 4	46+59		54 cy	792 cy	\$ 15,713.93
Pt. 5 to Pt. 6	11+58		36 cy	197 cy	\$ 2,891.04
Pt. 7 to Pt. 8	4+28		241 cy	73 cy	\$ 4,822.90
Pt. 9 to Pt. 10	451+50		n/a	n/a	\$ 2,257.50
Pt. 11 to Pt. 12	6+75		72 cy	115 cy	\$ 3,281.24
Pt. C to Pt. C1	1+90			32 cy	\$ 1,663.17
Total Stations	#REF!		605 cy	2,277 cy	\$ 50,497.96
Total miles	#REF!				
Project No. 2					\$ 50,497.96

Project No. 3

MOVE-IN:

	\$ 9,310.00
Project No. 3	
	\$ 9,310.00

ROCK SUMMARY TABLE:

Rock Totals			
Location	Size of Rock	Needed for Roads	To Crushed
Tom Rock Pit	1 .5"-0"	2,692 cy	none
Tom Rock Pit	6" -0"	1,605 cy	none
Tom Rock Pit	Pit Run	9 cy	none
Total			
GRAND TOTAL			\$ 101,781.21

PROJECT NO. 1
NEW CONSTRUCTION

Sale: 1000 Line Jim Thin

Road Segment: Pt. A to Pt. A1

NEW CONSTRUCT:

	Station	Designed Cubic Yards/Station				Cost per	Sum \$
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	
New construct	5+00		22 cy	48 cy		\$ 550.00	\$ 2,750.00
0+35 Landing	1			36 cy		\$ 600.00	\$ 600.00
5+00 Landing	1			36 cy		\$ 600.00	\$ 600.00
Endpush excavation to pipe	315 cy					\$ 4.79	\$ 1,509.38
Culverts	1		24 cy		3 cy		\$ -

SUB TOTAL \$ 5,459.38

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
1 - 24" x 30' culvert	ACSP	24	30	\$ 1,224.00				\$ 1,224.00	\$ 600.00	\$ 1,824.00
										\$ 1,824.00

ACSP = aluminum corrugated steel pipe

Mulch - 1- bale (2.5 tons/acre)
Grass Seed (1- lb)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
4	\$ 15.00	\$ 60.00	\$ 60.00	1	\$ 120.00
3	\$ 5.00	\$ 15.00	\$ 60.00	0.25	\$ 30.00
1	\$ 8.00	\$ 8.00	\$ 60.00	0.25	\$ 23.00
1			\$ 180.00	1	\$ 180.00
					\$ 353.00
				SUB TOTAL	\$ 2,177.00

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		110 cy			24 cy			134 cy	\$ 10.16	\$ 1,361.44
6" -0" Jaw Run	72 cy	240 cy						312 cy	\$ 12.54	\$ 3,912.48
Pit Run							3 cy	3 cy	\$ 9.68	\$ 29.04

Total = 449 cy

SUB TOTAL \$ 5,302.96

GRAND TOTAL = \$ 12,939.34

PROJECT NO. 1
NEW CONSTRUCTION

Sale: 1000 Line Jim Thin

Road Segment: Pt. B to Pt. B1

NEW CONSTRUCT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	10+15		22 cy	48 cy		\$ 550.00	\$ 5,582.50
Landing B1	1			36 cy		\$ 600.00	\$ 600.00
Endpush excavation to pipe	650 cy					\$ 4.79	\$ 3,114.58
Culverts	2		24 cy		3 cy		\$ -

SUB TOTAL \$ 9,297.08

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
2 - 24" x 30' culvert	ACSP	24	65	\$ 2,652.00				\$ 2,652.00	\$ 600.00	\$ 3,252.00
										\$ 3,252.00

ACSP = aluminum corrugated steel pipe

Mulch - 1- bale (2.5 tons/acre)
Grass Seed (1- lb)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
10	\$ 11.00	\$ 110.00	\$ 60.00	1	\$ 170.00
10	\$ 5.00	\$ 50.00	\$ 60.00	0.25	\$ 65.00
2	\$ 8.00	\$ 16.00	\$ 60.00	0.25	\$ 31.00
2			\$ 180.00	1	\$ 360.00
					\$ 626.00
SUB TOTAL					\$ 3,878.00

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		201 cy			48 cy			249 cy	\$ 10.16	\$ 2,532.89
6" -0" Jaw Run	36 cy	487 cy						523 cy	\$ 12.54	\$ 6,560.93
Pit Run							6 cy	6 cy	\$ 9.68	\$ 58.08
Total =								779 cy		
SUB TOTAL									\$	9,151.90

GRAND TOTAL = \$ 22,326.98

PROJECT NO. 1
NEW CONSTRUCTION

Sale: 1000 Line Jim Thin

Road Segment: Pt. D to Pt. D1

NEW CONSTRUCT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	1+25		17 cy	48 cy		\$ 550.00	\$ 687.50
Landing	1			36 cy		\$ 600.00	\$ 600.00
Endpush excavation	200 cy					\$ 4.79	\$ 958.33

SUB TOTAL \$ 2,245.83

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
				\$ -				\$ -		\$ -
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 1- bale (2.5 tons/acre)
Grass Seed (1- lb)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
	\$ 16.00	\$ -	\$ 60.00		\$ -
	\$ 5.00	\$ -	\$ 60.00		\$ -
	\$ 8.00	\$ -	\$ 60.00		\$ -
			\$ 180.00		\$ -
					\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		21 cy						21 cy	\$ 10.16	\$ 215.90
6" -0" Jaw Run	36 cy	60 cy						96 cy	\$ 12.54	\$ 1,203.84
Pit Run									\$ 9.68	\$ -

Total = 117 cy

SUB TOTAL \$ 1,419.74

GRAND TOTAL = \$ 3,665.57

PROJECT NO. 1
NEW CONSTRUCTION

Sale: 1000 Line Jim Thin

Road Segment: Pt. E to Pt. E1

NEW CONSTRUCT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	0+60		17 cy	54 cy		\$ 550.00	\$ 330.00
Landing	1			36 cy		\$ 600.00	\$ 600.00
Endpush excavation	240 cy					\$ 4.79	\$ 1,150.00

SUB TOTAL \$ 2,080.00

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
				\$ -				\$ -		\$ -
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 1- bale (2.5 tons/acre)
Grass Seed (1- lb)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
	\$ 16.00	\$ -	\$ 60.00		\$ -
	\$ 5.00	\$ -	\$ 60.00		\$ -
	\$ 8.00	\$ -	\$ 60.00		\$ -
			\$ 180.00		\$ -
					\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		10 cy						10 cy	\$ 10.16	\$ 103.63
6" -0" Jaw Run	36 cy	32 cy						68 cy	\$ 12.54	\$ 857.74
Pit Run									\$ 9.68	\$ -

Total = 79 cy

SUB TOTAL \$ 961.37

GRAND TOTAL = \$ 3,041.37

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. 1 to Pt. 2

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
0+00 to 57+02 Rocking	57+02		17 cy			\$ 25.00	\$ 1,425.50
164+32 to 167+91	3+59		22 cy			\$ 25.00	\$ 89.75
End Haul 240 +350+50	640 cy					4.79	\$ 3,066.67
Landing	4			36 cy		\$ 350.00	\$ 1,400.00
Step Landing	1+20		17 cy	48 cy		\$ 500.00	\$ 500.00

SUB TOTAL \$ 6,481.92

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	1	\$ -
					\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		1,069 cy						1,069 cy	\$ 10.16	\$ 10,858.20
6" -0" Jaw Run	202 cy							202 cy	\$ 12.54	\$ 2,528.06
Pit Run									\$ 9.68	\$ -
Total =								1,270 cy		
SUB TOTAL									\$ 13,386.26	

GRAND TOTAL = \$ 19,868.18

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. 3 to Pt. 4

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
0+00 to 57+02	46+59		17 cy			\$ 25.00	\$ 1,164.75
End Haul 850 +350	1,200 cy					4.79	\$ 5,750.00
Landing at station 7+72	1			18 cy		\$ 75.00	\$ 75.00
Landing at Pt. 4	1			36 cy			\$ -
				54 cy			
SUB TOTAL							\$ 6,989.75

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0			\$ -	1	\$ -
					\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		792 cy						792 cy	\$ 10.16	\$ 8,047.02
6" -0" Jaw Run	54 cy							54 cy	\$ 12.54	\$ 677.16
Pit Run									\$ 9.68	\$ -
Total =								846 cy		
SUB TOTAL									\$ 8,724.18	

GRAND TOTAL = \$ 15,713.93

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. 5 to Pt. 6

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
0+00 to 57+02	11+58		17 cy			\$ 25.00	\$ 289.50
Landing	1			36 cy		\$ 150.00	\$ 150.00

SUB TOTAL \$ 439.50

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0			\$ -	1	\$ -
					\$ -
					SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		197 cy						197 cy	\$ 10.16	\$ 2,000.10
6" -0" Jaw Run	36 cy							36 cy	\$ 12.54	\$ 451.44
Pit Run									\$ 9.68	\$ -

Total = 233 cy

SUB TOTAL \$ 2,451.54

GRAND TOTAL = \$ 2,891.04

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. 7 to Pt. 8

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
Improvement	4+28		17 cy	48 cy		\$ 200.00	\$ 856.00
Landing	1			36 cy		\$ 200.00	\$ 200.00

SUB TOTAL \$ 1,056.00

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$

\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0			\$ -	1	\$ -
					\$ -
					SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		73 cy						73 cy	\$ 10.16	\$ 739.24
6" -0" Jaw Run	36 cy	205 cy						241 cy	\$ 12.54	\$ 3,027.66
Pit Run									\$ 9.68	\$ -

Total =

Total = 314 cy

SUB TOTAL \$ 3,766.90

GRAND TOTAL = \$ 4,822.90

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. 9 to Pt. 10

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
Grade potholes	451+50					\$ 5.00	\$ 2,257.50

Total= 451+50
Miles = 8.55

SUB TOTAL \$ 2,257.50

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0			\$ -	1	\$ -
					\$ -
					SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 10.16	\$ -
6" -0" Jaw Run									\$ 12.54	\$ -
Pit Run									\$ 9.68	\$ -

Total =

SUB TOTAL \$ -

GRAND TOTAL = \$ 2,257.50

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. 11 to Pt. 12

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
Improvement	6+75		17 cy			\$ 150.00	\$ 1,012.50
Sta. 2+00 Landing	1			36 cy		\$ 200.00	\$ 200.00
Sta. 4+98 Landing	1			36 cy		\$ 200.00	\$ 200.00

SUB TOTAL \$ 1,212.50

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	1	\$ -
					\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	2 - Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		115 cy						115 cy	\$ 10.16	\$ 1,165.86
6" -0" Jaw Run	72 cy							72 cy	\$ 12.54	\$ 902.88
Pit Run									\$ 9.68	\$ -

Total = 187 cy

SUB TOTAL \$ 2,068.74

GRAND TOTAL = \$ 3,281.24

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: 1000 Line Jim Thin

Road Segment: Pt. C to Pt. C1

IMPROVEMENT:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
Improvement	1+90		17 cy			\$ 450.00	\$ 855.00
Endhaul to Sta. 129+15	60 cy					\$ 8.00	\$ 480.00

SUB TOTAL \$ 1,335.00

CULVERTS: (Cost includes hauling pipes)

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
										\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Install \$/Hr	Labor Time	Sum \$
0	\$ -	\$ -	\$ -	1	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0	\$ -	\$ -	\$ -	0.5	\$ -
0			\$ -	1	\$ -
					\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		32 cy						32 cy	\$ 10.16	\$ 328.17
6" -0" Jaw Run									\$ 12.54	\$ -
Pit Run									\$ 9.68	\$ -
Total =								32 cy	SUB TOTAL	\$ 328.17

GRAND TOTAL = \$ 1,663.17

1000 Line Jim Thin								
Rock Summary Table								
Road Segment: Pt. A to Pt. A1				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. A	Pt. A1	0+00	5+00	
				Volume	CY	Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 5+00	4	Station	22	Stations	5	110
Road Base Rock	6"- 0" Jaw Run	0+00 to 5+00	9	Station	48	Stations	5	240
Sta. 0+35 Landing	6"- 0" Jaw Run	0+35	Piled	Station	36	Stations	1	36
Sta. 5+00 Landing	6"- 0" Jaw Run	5+00	Piled	Station	36	Stations	1	36
Culvert bedding	1.5"- 0" Crushed Rock	Pipe # 1	varies	Site	24	Sites	1	24
Culvert outlet dissipator	Pit Run	Pipe # 1	varies	Site	3	Sites	1	3
Total Rock for road segment								449

Road Segment: Pt. B to Pt. B1				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. B	Pt. B1	0+00	10+15	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 9+15	4	Station	22	Stations	9.15	201
Road Base Rock	6"- 0" Jaw Run	0+00 to 10+15	9	Station	48	Stations	10.15	487
Culvert bedding	1.5"- 0" Crushed Rock	Pipe # 2 and 3	varies	Site	24	Sites	2	48
Culvert outlet dissipator	Pit Run	Pipe # 2 and 3	varies	Site	3	Sites	2	6
Station 10+15 Landing	6"- 0" Jaw Run	1	Piled	Station	36	Stations	1	36
Total Rock for road segment								779

Road Segment: Pt. D to Pt. D1					Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. D	to Pt. D1	0+00	to 1+25		
				Volume (CY)		Number of			
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 1+25	3	Station	17	Stations	1.25	21	
Road Base Rock	6"- 0" Jaw Run	0+00 to 1+25	9	Station	48	Stations	1.25	60	
Sta. 1+25 Landing	6"- 0" Jaw Run	1+25	Piled	Station	36	Stations	1	36	
Total Rock for road segment								117	

Road Segment: Pt. E to Pt. E1				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. E	Pt. E1	0+00	0+60	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 1+25	3	Station	17	Stations	0.6	10
Road Base Rock	6"- 0" Jaw Run	0+00 to 1+25	9	Station	54	Stations	0.6	32
Sta. 1+25 Landing	6"- 0" Jaw Run	1+25	Piled	Station	36	Stations	1	36
Total Rock for road segment								79

Road Segment: Pt. 1 to Pt. 2				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. 1	Pt. 2	0+00	167+91	
				Volume (CY)		Number of		
4 Landing	6"- 0" Jaw Run	1000 Line Road	Piles	Station	36	Stations	4	144
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 57+02	4	Station	17	Stations	57.02	969
Step Landing	6"- 0" Jaw Run	0+00 to 1+20	8	Station	48	Stations	1.2	58
Road Top Rock Step Landing	1.5"- 0" Crushed Rock	0+00 to 1+20	3	Station	17	Stations	1.2	20
Road Top Rock	1.5"- 0" Crushed Rock	164+32 to 167+91	4	Station	22	Stations	3.59	79
Total Rock for road segment								1,270

Road Segment: Pt. 3 to Pt. 4				Point		Station		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. 3	Pt. 4	0+00	46+59	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 46+59	4	Station	17	Stations	46.59	792
Sta. 7+72 Landing	6"- 0" Jaw Run	7+72	Piled	Station	18	Stations	1	18
Sta. 46+59 Landing	6"- 0" Jaw Run	46+59	Piled	Station	36	Stations	1	36
Total Rock for road segment								846

Road Segment: Pt. 5 to Pt. 6				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. 5	Pt. 6	0+00	11+58	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 11+58	4	Station	17	Stations	11.58	197
Sta. 11+58 Landing	6"- 0" Jaw Run	11+58	Piled	Station	36	Stations	1	36
Total Rock for road segment								233

Road Segment: Pt. 7 to Pt. 8				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. 7	Pt. 8	0+00	4+28	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 4+98	3	Station	17	Stations	4.28	73
Sta. 4+28 Landing	6"- 0" Jaw Run	1	Piled	Station	36	Stations	1	36
Road Base Rock	6"- 0" Jaw Run	0+00 to 4+98	8	Station	48	Stations	4.28	205
Total Rock for road segment								314

Road Segment: Pt. 11 to Pt. 12				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. 11 to	Pt. 12	0+00 to	6+75	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 4+98	3	Station	17	Stations	6.75	115
2 - Landings	6"- 0" Jaw Run	2+00 and 4+98	Piled	Station	36	Stations	2	72
Total Rock for road segment								187

Road Segment: Pt. C to Pt. C1				Point to Point		Sta. to Sta.		Total Volume (CY)
Application	Rock Size and Type	Location	Rock Depth (in)	Pt. C	Pt. C1	0+00	1+90	
				Volume (CY)		Number of		
Road Top Rock	1.5"- 0" Crushed Rock	0+00 to 4+98	3	Station	17	Stations	1.9	32
Total Rock for road segment								32

Rock Summary Table			
Location	Size of Rock	Needed	In Stockpile
Tom Rock Pit	1.5"- 0" Crushed	2,692 cy	2,692 cy
Tom Rock Pit	6"- 0" Jaw Run	1,605 cy	1,605 cy
Tom Rock Pit	Pit Run Dissipators	9 cy	Dig in pit

1000 Line Jim Thin

(Sale Name)

Tom Rock	(Quarry)	Tom Rock Pit	(Stockpile)
Jaw Run (Rock Type)	D10 (Truck)		(Grader)
6" - 0 (Rock Size)	Cat Exc (Loader)		(Tractor)

Hauling Time Computation

50 MPH	Miles per round trip	0	Minutes
40 MPH	Miles per round trip	0	Minutes
35 MPH	Miles per round trip	0	Minutes
30 MPH	Miles per round trip	0	Minutes
25 MPH	7 Miles per round trip	17	Minutes
20 MPH	1 Miles per round trip	3	Minutes
15 MPH	1.2 Miles per round trip	5	Minutes
10 MPH	0.5 Miles per round trip	3	Minutes
5 MPH	Miles per round trip	0	Minutes
	Total Miles per Round Trip	9.7	

Dump or Spread Time per Round Trip
Total Hauling Cycle Time for this Setting (100% Efficiency)

Operator Efficiency Correction (80% Efficiency)

Time Per Cubic Yard

Hauling Only (per cubic yard)
Delay Time (while loading = loading time per cubic yard)
Total Time Per Cubic Yard

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour
Cost of Truck Operator Per Hour
Total Operating Cost Per Hour
Operating Cost Per Minute

Cost Per Cubic Yard
Loading Cost Per Cubic Yard
Placement Cost Per Cubic Yard

Cost of grader Per Hour
Cost of Operator Per Hour
Cost of Compaction Equip. Per Hour
Cost of Compaction Equip. Op. Per Hour
Total Operating Cost Per Hour
Cost Per Cubic Yard to Place and Compact

Total Cost to Load, Haul and Place
No Crushing Cost
Grand Total Combined

Total Cost to Load, Haul and Place
No Crushing Cost
Grand Total Combined

Rates

Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 70.00	\$ 140.00
D10	\$ 50.00	12	\$ 70.00	\$ 120.00
OH25	\$ 80.00	25	\$ 70.00	\$ 150.00

Grader	Rate (\$/Hr.)	Operator (\$/Hr.)	Total
12-G	\$ 75.00	\$ 70.00	\$ 145.00
14-G	\$ 95.00	\$ 70.00	\$ 165.00

Compaction Equipment	Rate (\$/Hr.)	Operator (\$/Hr.)	Total
Vibratory Roller	\$ 75.00	\$ 70.00	\$ 145.00
Vib. Grid Roller	\$ 75.00	\$ 70.00	\$ 145.00
Hand Held Compactor	\$ 15.00	\$ 70.00	\$ 85.00

Tractors	Rate (\$/Hr.)	Operator (\$/Hr.)	Total
D4	\$ 60.00	\$ 70.00	\$ 130.00
D6	\$ 100.00	\$ 70.00	\$ 170.00
D7	\$ 125.00	\$ 70.00	\$ 195.00
D8	\$ 150.00	\$ 70.00	\$ 220.00

Loader/Excavator	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
14G Cat Wheel Loader	\$ 80.00	3	\$ 70.00	\$ 150.00
Cat Excavator	\$ 150.00	3	\$ 70.00	\$ 220.00

Loading Costs	Rate (Min/Load)	Delay (Min)	Total Loading Time (Min)
Crushed Rock	5	0.25	10
Pit-Run/Jaw-Run Rock	5	5.00	10
Rip Rap Rock	10	2.50	12.5
Fill Material	5	1.25	6.25
Reclaim Rock	5	1.25	20

Dump or Spread Time (Min)	
Pile Dump	0.25
Truck Spread	0.5
Spreading w/Grader	5
Placement of Rip Rap	10

1000 Line Jim Thin

(Sale Name)

Tom Rock (Quarry)		Tom Rock Pit (Stockpile)	
Crushed (Rock Type)	D10 (Truck)	12-G (Grader)	Spread
1.5"-0"	14G (Loader)	D8 (Tractor)	Vibratory Roller (Compactor)

Hauling Time Computation

50 MPH	Miles per round trip	0	Minutes
40 MPH	Miles per round trip	0	Minutes
35 MPH	Miles per round trip	0	Minutes
30 MPH	Miles per round trip	0	Minutes
25 MPH	7	17	Minutes
20 MPH	1	3	Minutes
15 MPH	1.2	5	Minutes
10 MPH	0.5	3	Minutes
5 MPH		0	Minutes
	Total Miles per Round Trip		
	9.7		

Dump or Spread Time per Round Trip
Total Hauling Cycle Time for this Setting (100% Efficiency)

Operator Efficiency Correction (80% Efficiency)

Time Per Cubic Yard

Hauling Only (per cubic yard)
Delay Time (while loading = loading time per cubic yard)
Total Time Per Cubic Yard

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour
Cost of Truck Operator Pre Hour
Total Operating Cost Per Hour
Operating Cost Per Minute

Cost Per Cubic Yard

Loading Cost Per Cubic Yard

Spreading Cost Per Cubic Yard

Cost of Grader Per Hour
Cost of Grader Operator Per Hour
Cost of Compaction Equip. Per Hour
Cost of Compaction Equip. Op. Per Hour
Total Operating Cost Per Hour

Cost Per Cubic Yard to Grade and Roll

Total Cost to Load, Haul and Place

No Crushing Cost

Grand Total Combined

Rates

Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 70.00	\$ 140.00
D10	\$ 50.00	12	\$ 70.00	\$ 120.00
OH25	\$ 80.00	25	\$ 70.00	\$ 150.00

Grader

Rate (\$/Hr.)	Operator (\$/Hr.)	Total
12-G	\$ 75.00	\$ 145.00
14-G	\$ 95.00	\$ 165.00

Compaction Equipment

Rate (\$/Hr.)	Operator (\$/Hr.)	Total
Vibratory Roller	\$ 75.00	\$ 145.00
Vib. Grid Roller	\$ 75.00	\$ 145.00
Hand Held Compactor	\$ 15.00	\$ 85.00

Tractors

Rate (\$/Hr.)	Operator (\$/Hr.)	Total
D4	\$ 60.00	\$ 130.00
D6	\$ 100.00	\$ 170.00
D7	\$ 125.00	\$ 195.00
D8	\$ 150.00	\$ 220.00

Loader

Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
14G Cat Wheel Loader	3	\$ 70.00	\$ 150.00
Cat Excavator	3	\$ 70.00	\$ 220.00

Loading Costs

Rate (Min/Load)	Delay (Min)	Loading Time (Min)	Total
Crushed Rock	5	1.25	6.25
Pit-Run/Jaw-Run Rock	5	5.00	10
Rip Rap Rock	10	2.50	12.5
Fill Material	5	1.25	6.25
Reclaim Rock	5	1.25	20

Dump or Spread Time (Min)

Rate (Min/Load)	Delay (Min)	Loading Time (Min)	Total
Pile Dump	0.25		
Truck Spread	7		
Spreading w/Grader	5		
Place Rip Rap	10		

1000 Line Jim Thin

(Sale Name)

Tom Rock (Quarry)		Tom Rock Pit (Stockpile)	
Pit Run (Rock Type)	D10 (Truck)	12-G (Grader)	
8"+ (Rock Size)	14G (Loader)	D8 (Tractor)	

Hauling Time Computation

50 MPH	Miles per round trip	0	Minutes
40 MPH	Miles per round trip	0	Minutes
35 MPH	Miles per round trip	0	Minutes
30 MPH	Miles per round trip	0	Minutes
25 MPH	7	17	Minutes
20 MPH	1	3	Minutes
15 MPH	1.2	5	Minutes
10 MPH	0.5	3	Minutes
5 MPH		0	Minutes
Total Miles per Round Trip		9.7	
Dump or Spread Time per Round Trip			
Total Hauling Cycle Time for this Setting (100% Efficiency)			
Operator Efficiency Correction (80% Efficiency)			

Time Per Cubic Yard

Hauling Only (per cubic yard)
Delay Time (while loading = loading time per cubic yard)
Total Time Per Cubic Yard

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour	\$	50.00	per Hr.
Cost of Truck Operator Pre Hour	\$	70.00	per Hr.
Total Operating Cost Per Hour	\$	120.00	per Hr.
Operating Cost Per Minute	\$	2.00	per Min.
Cost Per Cubic Yard	\$	7.47	per Cu. Yd.
Loading Cost Per Cubic Yard	\$	2.08	per Cu. Yd.
Spreading Cost Per Cubic Yard	\$		
Cost of Excavator Per Hour	\$	150.00	per Hr.
Cost of Excavator Operator Per Hour	\$	70.00	per Hr.
Cost of Compaction Equip. Per Hour	\$	75.00	per Hr.
Cost of Compaction Equip. Op. Per Hour	\$	70.00	per Hr.
Total Operating Cost Per Hour	\$	365.00	per Hr.
Cost Per Cubic Yard to Place and Compact	\$	0.13	Cu. Yd.
Total Cost to Load, Haul and Place	\$	9.68	Cu. Yd.
No Crushing	\$	-	
Grand Total Combined	\$	9.68	

Rates

Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 70.00	\$ 140.00
D10	\$ 50.00	12	\$ 70.00	\$ 120.00
OH25	\$ 80.00	25	\$ 70.00	\$ 150.00
Grader				
12-G	\$ 75.00		\$ 70.00	\$ 145.00
14-G	\$ 95.00		\$ 70.00	\$ 165.00
Compaction Equipment				
Vibratory Roller	\$ 75.00		\$ 70.00	\$ 145.00
Vib. Grid Roller	\$ 75.00		\$ 70.00	\$ 145.00
Hand Held Compactor	\$ 15.00		\$ 70.00	\$ 85.00
Tractors				
D4	\$ 60.00		\$ 70.00	\$ 130.00
D6	\$ 100.00		\$ 70.00	\$ 170.00
D7	\$ 125.00		\$ 70.00	\$ 195.00
D8	\$ 150.00		\$ 70.00	\$ 220.00
Loader				
14G Cat Wheel Loader	\$ 80.00	3	\$ 70.00	\$ 150.00
Cat Excavator	\$ 150.00	3	\$ 70.00	\$ 220.00
Loading Costs				
Crushed Rock		Rate (Min/Load)	Delay (Min)	Total Loading Time (Min)
		5	1.25	6.25
Pit-Run/Jaw-Run Rock		5	5.00	10.00
Rip Rap Rock		5	2.50	7.5
Fill Material		5	1.25	6.25

Dump or Spread Time (Min)

Pile Dump and place rock	0.25
Truck Spread	7
Spreading w/Grader	5
Place Rip Rap	10

1000 Line Jim Thin

(Sale Name)

Total Yards End Hauled: cy

On site

Waste (Type)

(Rock Size)

(Water Truck Size)

End Push

D10 (Truck)

(Loader)

Gal/cu.yd

Spread and Compact

Vibratory Roller

(Compactor)

D6

Cat 336F Excavator

(Grader)

(Excavator)

Endpush Time Computation

50 MPH

Miles per round trip

40 MPH

Miles per round trip

35 MPH

Miles per round trip

30 MPH

Miles per round trip

25 MPH

Miles per round trip

20 MPH

Miles per round trip

15 MPH

Miles per round trip

10 MPH

Miles per round trip

5 MPH

Miles per round trip

0.1

Miles per round trip

0.10

Total Miles per Round Trip

Dump or Spread Time per Round Trip

Total Hauling Cycle Time for this Setting (100% Efficiency)

Operator Efficiency Correction (80% Efficiency)

Time Per Cubic Yard

Pushing Only (per cubic yard)

Delay Time (while loading = loading time per cubic yard)

Total Time Per Cubic Yard

Cost Per Cubic Yard Computation

Cost of D8 cat Per Hour

Cost of Operator Pre Hour

Total Operating Cost Per Hour

Operating Cost Per Minute

Cost Per Cubic Yard

No loading

Spreading Cost Per Cubic Yard

Cost of D8 cat Per Hour

Cost of D8 cat Operator Per Hour

Cost of Compaction Equip. Per Hour

Cost of Compaction Equip. Op. Per Hour

Total Operating Cost Per Hour

Cost Per Cubic Yard to Place and Compact

Total Cost to push

2.08

per Cu. Yd.

2.71

Cu. Yd.

4.79

Cu. Yd.

0.63

min/cu.yd

0.00

min/cu.yd

0.63

min/cu.yd

150.00

per Hr.

50.00

per Hr.

200.00

per Hr.

3.33

per Min.

2.08

per Cu. Yd.

150.00

per Hr.

50.00

per Hr.

75.00

per Hr.

50.00

per Hr.

325.00

per Hr.

2.71

Cu. Yd.

4.79

Cu. Yd.

Dump Truck

Rate (\$/Hr.)

Capacity (cy)

Operator (\$/Hr.)

Total

B20

\$ 70.00

20

\$ 40.00

\$ 110.00

D10

\$ 50.00

12

\$ 40.00

\$ 90.00

OH25

\$ 80.00

25

\$ 40.00

\$ 120.00

Grader

Rate (\$/Hr.)

Operator (\$/Hr.)

Total

12-G

\$ 75.00

\$ 50.00

\$ 125.00

14-G

\$ 95.00

\$ 50.00

\$ 145.00

Compaction Equipment

Rate (\$/Hr.)

Operator (\$/Hr.)

Total

Vibratory Roller

\$ 75.00

\$ 50.00

\$ 125.00

Vib. Grid Roller

\$ 75.00

\$ 50.00

\$ 125.00

Hand Held Compactor

\$ 15.00

\$ 50.00

\$ 65.00

Tractors

Rate (\$/Hr.)

Operator (\$/Hr.)

Total

D4

\$ 60.00

\$ 50.00

\$ 110.00

D6

\$ 100.00

\$ 50.00

\$ 150.00

D7

\$ 125.00

\$ 50.00

\$ 175.00

D8

\$ 150.00

\$ 50.00

\$ 200.00

Loader

Rate (\$/Hr.)

Capacity (cy)

Operator (\$/Hr.)

Total

14G Cat Wheel Loader

\$ 80.00

3

\$ 50.00

\$ 130.00

Cat 336F Excavator

\$ 150.00

3

\$ 50.00

\$ 200.00

Loading Costs

Rate

Delay (Min)

Loading Time (Min)

Crushed Rock

5

1.25

6.25

Pil-Run/Jaw-Run Rock

5

1.25

6.25

Rip Rap Rock

5

1.25

6.25

Fill Material

5

1.25

6.25

Dump or Spread Time (Min)

Rate

Delay (Min)

Loading Time (Min)

Pile Dump

0.25

Truck Spread

0.5

Spreading w/dozer

5

Place with Excavator

2.00

James Stuart 08/01/2025

MOVE-IN COSTS

1000 Line Jim Thin

Move in costs							
No.	Equipment Description	Transport Cost	Hours of Transport	Cost to Move	Weedwash Time (Hrs)	Weedwash Labor (\$50/hour)	Total Cost
1	Grader	\$ 200.00	7	\$ 1,400.00	0	\$ -	\$ 1,400.00
1	Rollers & Compactor	\$ 200.00	7	\$ 1,400.00	0	\$ -	\$ 1,400.00
1	Excavator	\$ 250.00	7	\$ 1,750.00	6	\$ 300.00	\$ 2,050.00
0	Small backhoe	\$ 200.00	7	\$ 1,400.00	4	\$ 200.00	\$ -
1	Tractors Dozer (D5 - D8)	\$ 250.00	7	\$ 1,750.00	6	\$ 300.00	\$ 2,050.00
2	Dump Truck (10 cy +)	\$ 110.00	2	\$ 220.00	0	\$ -	\$ 440.00
1	Loader	\$ 250.00	7	\$ 1,750.00	0	\$ -	\$ 1,750.00
0	Road Brusher	\$ 200.00	7	\$ 1,400.00	6	\$ 300.00	\$ -
1	Water Truck (1000 gallon)	\$ 110.00	2	\$ 220.00	0	\$ -	\$ 220.00
Total one time							\$ 9,310.00

TOTAL MOVE-IN COSTS =	\$ 9,310.00
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CRUISE REPORT
1000 Line Jim Thin
Contract No. NC-341-2026-W01247-01

1. Locations:

Portions of Sections 18, 19, 20, & 21 of T10S, R3E, W.M., Linn County, Oregon.

2. Cruise Design:

The cruise design for the timber sale is as follows:

Sale Area: A desired sampling error of 11% at a 68% confidence level was needed for each unit. Unit 1 contained 18 plots; Unit 2 contained 7 plots; Unit 3 contained 19 plots; and Unit 4 contained 19 plots, all utilizing a 20 BAF and a 1:1 measure/count plot ratio. The achieved average standard error across all units on the net board foot volume was 6.3%.

3. Sampling Methods:

Take and leave trees were recorded based off the desired basal area prescription planned for each unit: **Unit 1** – 120 BA, **Units 2 & 4** – 130 BA, **Unit 3** – 140 BA, **Unit 5 (R/W)** - CC

4. Timber Description:

The timber age for Unit 1 and Unit 5 is primarily 41-year-old Douglas-fir, Unit 2 and 4 is primarily 48-year-old Douglas-fir, and Unit 3 is primarily 63-year-old Douglas-fir. The stands contain a small amount of Western hemlock and red alder. The average Douglas-fir to be removed is approximately 13 inches DBH. The volume per acre to be harvested (net) is approximately **7.8 MBF** for Unit 1, **9.3 MBF** for Unit 2, **8.8 MBF** for Unit 3, **8.5 MBF** for Unit 4, and **21 MBF** for Unit 5 (R/W).

5. Tree Measurement and Grading:

All measure plot sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40-foot segments.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to 25% of DBH or to a 5-inch DIB, whichever was greater.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors:** Form factors were measured for each grade tree using a form point of 16 feet.

6. Data Processing:

- a) **Volumes and Statistics:** Cruise, volume estimates and sampling statistics were derived from Super Ace 2008 cruise software.
- b) **Deductions:** A 3% volume deduction was used for Douglas-fir in units 1, 2, 4 and 5; and 4% volume deduction was used for Douglas-fir in unit 3, for hidden defect and breakage.
- c) **Hand Calculations:** Unit 5 is located primarily within the same stand as Unit 1. Therefore, volume for Unit 5 was calculated based on the sum of take and leave volume per acre found in Unit 1.
- d) **Acreage:** **Unit 1** has a total net acreage of 41. **Unit 2** has a total net acreage of 12. **Unit 3** has a total net acreage of 90. **Unit 4** has a total net acreage of 59. **Unit 5 (R/W)** has a total net acreage of 1 **Total of net acres: 203**

7. Cruisers:

The Sale Area was cruised by ODF in 2025.
Cruisers: Reardon and Driver

8. Total Volume (MBF) by Species and Grade:

Unit	Acres	Species	Gross Volume (MBF)	Cruised D&B %	Cruised D&B (MBF)	Hidden D&B %	Hidden D&B (MBF)	Net Sale Volume (MBF)
1	41	DF	331	0.4%	1	3%	10	320
2	12	DF	117	0.6%	1	3%	4	112
3	90	DF	842	1.7%	14	4%	34	794
4	59	DF	523	1.2%	6	3%	16	501
5 R/W	1	DF	22	0.5%	<1	3%	1	21
Total	203		1,835	1.2%	22	3.5%	65	1,748

Unit	Species	Avg. DBH	Total Net. Vol.	2-Saw	3-Saw	4-Saw
1	DF	12	Grade %	2%	65%	33%
			320	6	208	106
2	DF	13	Grade %	-	72%	28%
			112	-	81	31
3	DF	14	Grade %	9%	70%	21%
			794	71	556	167
4	DF	12	Grade %	5%	69%	26%
			501	25	346	130
5 R/W	DF	12	Grade %	6%	69%	25%
			21	1	15	5
Total			1,748	103	1,206	439

PROJECT STATISTICS								PAGE 1				
PROJECT 1000 JIM								DATE 6/9/2025				
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
10S	03E	18	JIM-1	THIN		41.00	18	180	S	W		
			PLOTS		TREES	TREES	ESTIMATED TOTAL	PERCENT SAMPLE				
					PER PLOT	TREES	TREES					
TOTAL			18	180	10.0							
CRUISE			10	93	9.3	8,077	1.2					
DBH COUNT												
REFOREST												
COUNT			8	84	10.5							
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			51	91.8	15.1	91	29.4	114.4	13,627	13,561	3,724	3,724
DOUG FIR-T			32	93.2	11.8	88	20.7	71.1	8,070	8,034	2,124	2,124
SN-L			3	4.2	15.5	68	1.4	5.6				
BL MAPLE-L			3	2.7	15.0	68	0.9	3.3	127	127	32	32
WHEMLOCK-L			2	1.5	19.9	83	0.7	3.3	292	292	114	114
R ALDER-L			2	3.5	10.9	56	0.7	2.2	99	99	29	29
TOTAL			93	197.0	13.6	88	54.1	200.0	22,215	22,113	6,023	6,023
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			30.3	4.2	156	163	170					
DOUG FIR-T			38.8	6.9	89	95	102					
SN-L												
BL MAPLE-L			141.4	132.4		70	163					
WHEMLOCK-L			34.4	32.2	125	185	245					
R ALDER-L			141.4	132.4		35	81					
TOTAL			48.2	5.0	123	130	136	93	23	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			35.3	4.9	43	45	48					
DOUG FIR-T			46.5	8.2	24	26	28					
SN-L												
BL MAPLE-L			141.4	132.4		18	41					
WHEMLOCK-L			12.6	11.8	66	75	83					
R ALDER-L			141.4	132.4		10	24					
TOTAL			53.8	5.6	34	36	38	116	29	13		
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			22.5	5.5	87	92	97					
DOUG FIR-T			64.1	15.5	79	93	108					
SN-L			172.9	41.9	2	4	6					
BL MAPLE-L			308.7	74.8	1	3	5					
WHEMLOCK-L			231.0	56.0	1	2	2					
R ALDER-L			424.3	102.8		3	7					
TOTAL			29.4	7.1	183	197	211	36	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			18.8	4.5	109	114	120					
DOUG FIR-T			64.2	15.5	60	71	82					
SN-L			165.9	40.2	3	6	8					
BL MAPLE-L			308.7	74.8	1	3	6					

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT	1000 JIM			DATE	6/9/2025	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
10S	03E	18	JIM-1	THIN	41.00		18	180	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
WHEMLOCK-L			230.1	55.8	1	3	5			
R ALDER-L			424.3	102.8		2	5			
TOTAL			24.3	5.9	188	200	212	25	6	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			21.2	5.1	12,864	13,561	14,259			
DOUG FIR-T			66.2	16.0	6,746	8,034	9,322			
SN-L										
BL MAPLE-L			424.3	102.8		127	257			
WHEMLOCK-L			240.2	58.2	122	292	461			
R ALDER-L			424.3	102.8		99	201			
TOTAL			31.8	7.7	20,409	22,113	23,816	43	11	5
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			20.8	5.0	3,536	3,724	3,911			
DOUG FIR-T			65.2	15.8	1,789	2,124	2,460			
SN-L										
BL MAPLE-L			424.3	102.8		32	65			
WHEMLOCK-L			230.1	55.8	50	114	177			
R ALDER-L			424.3	102.8		29	58			
TOTAL			30.5	7.4	5,577	6,023	6,468	39	10	4

TC		PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																		
T10S R03E S18 TyTHIN41.00							Project: 1000_JIM							Page 1						
							Acres 41.00							Date 6/9/2025						
														Time 3:23:27PM						
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					Ln	Dia In	Bd Ft	CF/ Lf	Log Scale Dia.				Log Length				
												4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	
DF	L	DO 2M	7	1.6	1,036	1,019	42	100				100				40	12	203	1.48	5.0
DF	L	DO 3M	71	.5	9,707	9,658	396	100				298				40	9	118	0.80	81.7
DF	L	DO 4M	22		2,885	2,885	118	100				8	42	18	31	29	5	31	0.31	91.8
DF Totals			61	.5	13,627	13,561	556	21	71	8	2	10	4	84	34	7	76	0.61	178.6	
DF	T	DO 2M	2	10.0	204	183	8	100				100				40	12	180	1.48	1.0
DF	T	DO 3M	65	.3	5,248	5,232	215	100				100				40	7	74	0.52	70.9
DF	T	DO 4M	33		2,618	2,618	107	65	35		49	19		32	20	5	23	0.25	114.6	
DF Totals			36	.4	8,070	8,034	329	21	77	2	16	6		78	28	6	43	0.41	186.5	
WH	L	DO 2M	58		169	169	7	100				100				40	12	200	1.38	.8
WH	L	DO 4M	42		122	122	5	21	79		11	21		68	27	7	55	1.13	2.2	
WH Totals			1		292	292	12	9	33	58	5	9		87	30	8	95	1.22	3.1	
BM	L	DO 3M	78		100	100	4	100				100				30	10	110	0.89	.9
BM	L	DO 4M	22		27	27	1	100				100				26	5	30	0.34	.9
BM Totals			1		127	127	5	21	79		100				28	8	70	0.63	1.8	
RA	L	DO 3M	85		85	85	3	100				100				34	7	60	0.53	1.4
RA	L	DO 4M	15		14	14	1	100				100				12	5	10	0.20	1.4
RA Totals			0		99	99	4	14	86		14		86		23	6	35	0.44	2.8	
Totals				0.5	22,215	22,113	907	21	73	6	7	9	3	81	31	6	59	0.52	372.7	

[illegible]

TC		PLOGSTVB		Log Stock Table - MBF																
T10S R03E S18 TyTHIN41.00					Project: 1000_JIM										Page 2					
					Acres 41.00										Date 6/9/2025					
															Time 3:23:26PM					
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+
BM	L	DO	3M	30	4		4	78.6				4								
BM	L	DO	4M	26	1		1	21.4		1										
BM		Totals			5		5	.6		1		4								
RA	L	DO	3M	34	3		3	85.7			3									
RA	L	DO	4M	12	1		1	14.3		1										
RA		Totals			4		4	.4		1	3									
Total		All Species			911		907	100.0		191	216	272	172	56						

TC		PSTNDSUM		Stand Table Summary										Page		1					
														Date:		6/9/2025					
T10S R03E S18 TyTHIN				41.00				Project					1000_JIM					Time:		3:23:27PM	
								Acres					41.00					Grown Year:			
S Sp	T	Sample		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							
		DBH	Trees						Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF					
DF L		9	1	87	69	5.079	2.24	5.08	9.2	40.0	1.34	47	203	55	19	8					
DF L		12	3	84	91	8.571	6.73	17.14	12.2	46.7	5.96	209	800	244	86	33					
DF L		13	2	83	97	4.869	4.49	9.74	16.0	60.0	4.44	156	584	182	64	24					
DF L		14	10	84	90	20.991	22.44	41.98	16.7	60.5	19.99	701	2,540	819	288	104					
DF L		15	11	85	91	20.114	24.68	40.23	19.6	74.1	22.50	789	2,981	922	324	122					
DF L		16	6	85	89	9.643	13.46	19.29	22.6	84.2	12.40	435	1,623	508	178	67					
DF L		17	8	86	98	11.389	17.95	22.78	27.1	100.0	17.61	618	2,278	722	253	93					
DF L		18	3	85	98	3.810	6.73	7.62	31.1	110.0	6.75	237	838	277	97	34					
DF L		19	4	85	93	4.621	8.98	9.24	32.9	113.7	8.67	304	1,051	355	125	43					
DF L		20	1	85	96	1.029	2.24	2.06	38.4	120.0	2.25	79	247	92	32	10					
DF L		22	2	82	92	1.700	4.49	3.40	43.6	122.5	4.23	148	417	173	61	17					
DF L		Totals	51	85	91	91.817	114.44	178.56	20.9	76.0	106.12	3,724	13,561	4,351	1,527	556					
DF T		9	1	82	90	5.030	2.22	10.06	4.9	20.0	1.39	49	201	57	20	8					
DF T		10	6	82	86	24.446	13.33	48.89	7.5	32.5	10.46	367	1,589	429	150	65					
DF T		11	5	83	88	16.836	11.11	33.67	9.8	37.0	9.43	331	1,246	387	136	51					
DF T		12	6	84	88	16.977	13.33	33.95	11.7	44.2	11.29	396	1,500	463	162	61					
DF T		13	8	82	87	19.287	17.78	38.57	14.2	49.4	15.65	549	1,905	642	225	78					
DF T		14	3	86	94	6.236	6.67	12.47	17.7	70.0	6.28	220	873	257	90	36					
DF T		15	1	86	101	1.811	2.22	3.62	20.3	80.0	2.10	74	290	86	30	12					
DF T		16	1	84	75	1.592	2.22	3.18	19.3	65.0	1.75	61	207	72	25	8					
DF T		20	1	84	94	1.019	2.22	2.04	38.0	110.0	2.20	77	224	90	32	9					
DF T		Totals	32	83	88	93.233	71.11	186.47	11.4	43.1	60.55	2,124	8,034	2,482	871	329					
WH L		19	1	85	84	.846	1.67	1.69	34.0	115.0	1.84	58	195	76	24	8					
WH L		21	1	61	81	.693	1.67	1.39	40.6	70.0	1.80	56	97	74	23	4					
WH L		Totals	2	74	83	1.539	3.33	3.08	37.0	94.7	3.64	114	292	149	47	12					
BM L		15	3	78	68	2.716	3.33	1.81	17.7	70.0	.85	32	127	35	13	5					
BM L		Totals	3	78	68	2.716	3.33	1.81	17.7	70.0	.85	32	127	35	13	5					
RA L		10	1	50	49	2.037	1.11														
RA L		12	1	78	67	1.415	1.11	2.83	10.2	35.0	.79	29	99	32	12	4					
RA L		Totals	2	61	56	3.452	2.22	2.83	10.2	35.0	.79	29	99	32	12	4					
SN L		14	2	84	66	3.465	3.70														
SN L		21	1	84	77	.770	1.85														
SN L		Totals	3	84	68	4.235	5.56														
Totals		93	83	88		196.993	200.00	372.74	16.2	59.3	171.95	6,023	22,113	7,050	2,469	907					

TC PSTATS			PROJECT STATISTICS						PAGE	1		
			PROJECT		1000 JIM		DATE 6/9/2025					
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
10S	03E	19	JIM-2	THIN		12.00		7	75	S	W	
					TREES	ESTIMATED		PERCENT				
			PLOTS	TREES	PER PLOT	TOTAL		SAMPLE				
					TREES		TREES					
TOTAL			7	75	10.7							
CRUISE			4	44	11.0		2,264	1.9				
DBH COUNT												
REFOREST												
COUNT			3	31	10.3							
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			25	96.4	15.6	103	32.5	128.6	18,218	18,218	4,580	4,580
DOUG FIR-T			17	85.8	12.6	97	20.9	74.3	9,732	9,669	2,483	2,483
WHEMLOCK-L			2	6.5	18.0	87	2.7	11.4	970	970	397	397
TOTAL			44	188.7	14.4	100	56.4	214.3	28,920	28,858	7,461	7,461
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			35.6	7.3	191	206	221					
DOUG FIR-T			34.5	8.6	113	124	134					
WHEMLOCK-L					150	150	150					
TOTAL			42.4	6.4	161	172	183	72	18	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			34.4	7.0	48	52	55					
DOUG FIR-T			35.5	8.9	29	32	35					
WHEMLOCK-L			39.1	36.7	42	66	90					
TOTAL			42.1	6.3	42	45	48	71	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			9.2	3.7	93	96	100					
DOUG FIR-T			44.0	17.9	70	86	101					
WHEMLOCK-L			170.8	69.5	2	6	11					
TOTAL			16.7	6.8	176	189	202	13	3	1		
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			8.3	3.4	124	129	133					
DOUG FIR-T			48.4	19.7	60	74	89					
WHEMLOCK-L			170.8	69.5	3	11	19					
TOTAL			11.7	4.8	204	214	224	6	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			7.6	3.1	17,654	18,218	18,783					
DOUG FIR-T			46.2	18.8	7,851	9,669	11,487					
WHEMLOCK-L			170.8	69.5	296	970	1,645					
TOTAL			12.1	4.9	27,433	28,858	30,282	7	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			7.2	2.9	4,447	4,580	4,714					
DOUG FIR-T			48.3	19.7	1,995	2,483	2,971					

TC PSTATS		PROJECT STATISTICS							PAGE	2
		PROJECT 1000 JIM							DATE	6/9/2025
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
10S	03E	19	JIM-2	THIN	12.00		7	75	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
WHEMLOCK-L			170.8	69.5	121	397	672			
TOTAL			10.7	4.4	7,135	7,461	7,786	5	1	1

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																				
T10S R03E S19 TyTHIN12.00				Project: 1000_JIM												Page 1								
				Acres 12.00												Date 6/9/2025								
																Time 2:52:04PM								
S So Gr Spp T rt ad			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre				
			Log Scale Dia.					Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf									
			4-5	6-11	12-16	17+		12-20	21-30	31-35	36-99													
DF	L	DO 2M	19		3,513	3,513	42	100				100				40	13	226	1.33	15.5				
DF	L	DO 3M	64		11,669	11,669	140	100				1 99				40	9	117	0.74	99.6				
DF	L	DO 4M	17		3,037	3,037	36	100					7	16	23	54	30	5	32	0.30	96.4			
DF Totals			63		18,218	18,218	219	17	64	19					1	3	5	91	35	7	86	0.61	211.6	
DF	T	DO 3M	72	.9	7,084	7,021	84	100				100				40	8	90	0.59	77.8				
DF	T	DO 4M	28		2,648	2,648	32	100					14	41	13	32	29	5	31	0.26	85.8			
DF Totals			34	.6	9,732	9,669	116	27	73					4	11	4	81	34	6	59	0.45	163.6		
WH	L	DO 3M	80		776	776	9	100				100				40	9	120	1.35	6.5				
WH	L	DO 4M	20		194	194	2	100					100				26	5	30	0.29	6.5			
WH Totals			3		970	970	12	20	80					20				80	33	7	75	0.93	12.9	
Totals					0.2	28,920	28,858	346	20	67	12					2	6	4	88	35	7	74	0.55	388.1

TC		PLOGSTVB		Log Stock Table - MBF																	
T10S R03E S19 TyTHIN 12.00				Project: 1000_JIM														Page 1			
				Acres 12.00														Date 6/9/2025			
																		Time 2:52:04PM			
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	DO	2M	40	42		42	19.3				27	16								
DF	L	DO	3M	32	2		2	.9		2											
DF	L	DO	3M	36	2		2	1.0		2											
DF	L	DO	3M	38	4		4	1.9		2	2										
DF	L	DO	3M	40	132		132	60.3		12	58	62									
DF	L	DO	4M	12	2		2	.9		2											
DF	L	DO	4M	18	1		1	.3		1											
DF	L	DO	4M	26	3		3	1.3		3											
DF	L	DO	4M	28	3		3	1.4		3											
DF	L	DO	4M	32	4		4	1.9		4											
DF	L	DO	4M	34	4		4	2.0		4											
DF	L	DO	4M	36	9		9	4.0		9											
DF	L	DO	4M	38	7		7	3.3		7											
DF	L	DO	4M	40	4		4	1.6		4											
DF		Totals			219		219	63.1		36	18	60	62	27	16						
DF	T	DO	3M	40	85		84	72.6		30	32	23									
DF	T	DO	4M	18	2		2	1.7		2											
DF	T	DO	4M	20	3		3	2.3		3											
DF	T	DO	4M	24	2		2	2.1		2											
DF	T	DO	4M	26	7		7	6.1		7											
DF	T	DO	4M	28	3		3	3.0		3											
DF	T	DO	4M	32	1		1	1.3		1											
DF	T	DO	4M	34	3		3	2.3		3											
DF	T	DO	4M	38	3		3	2.8		3											
DF	T	DO	4M	40	7		7	5.9		7											
DF		Totals			117		116	33.5		32	30	32	23								
WH	L	DO	3M	40	9		9	80.0		9											
WH	L	DO	4M	26	2		2	20.0		2											
WH		Totals			12		12	3.4		2	9										
Total		All Species			347		346	100.0		71	48	101	85	27	16						

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		6/9/2025	
T10S R03E S19 TyTHIN12.00					Project					1000_JIM			Time:		2:52:05PM		
					Acres					12.00			Grown Year:				
S SpC	T	Sample DBH		Tot FF Av 16' Ht		Trees/ BA/ Logs Acre Acre Acre		Average Log		Net Tons/ Cu.Ft. Acre		Net Cu.Ft. Bd.Ft. Acre		T o t a l s Tons Cunits MBF			
								Net Cu.Ft.	Net Bd.Ft.								
DF L		11	1	84	105	7.793	5.14	15.59	11.9	50.0	5.28	185	779	63	22	9	
DF L		13	1	86	109	5.579	5.14	11.16	15.7	65.0	5.00	175	725	60	21	9	
DF L		14	1	85	102	4.811	5.14	9.62	20.0	80.0	5.49	193	770	66	23	9	
DF L		15	9	87	98	37.717	46.29	75.43	20.5	81.1	44.12	1,548	6,119	529	186	73	
DF L		16	5	86	104	18.417	25.71	36.83	24.3	95.0	25.55	896	3,499	307	108	42	
DF L		17	2	88	106	6.525	10.29	16.31	23.2	94.0	10.78	378	1,533	129	45	18	
DF L		18	2	89	114	5.821	10.29	17.46	23.2	91.7	11.55	405	1,601	139	49	19	
DF L		19	2	87	109	5.224	10.29	15.67	24.0	91.7	10.70	376	1,437	128	45	17	
DF L		20	1	87	121	2.357	5.14	7.07	31.2	133.3	6.28	220	943	75	26	11	
DF L		21	1	87	110	2.138	5.14	6.41	31.6	126.7	5.78	203	812	69	24	10	
DF L		Totals	25	87	103	96.382	128.57	211.57	21.7	86.1	130.54	4,580	18,218	1,567	550	219	
DF T		10	2	84	89	16.024	8.74	24.04	9.8	40.0	6.71	235	961	81	28	12	
DF T		11	1	84	102	6.621	4.37	13.24	11.7	50.0	4.41	155	662	53	19	8	
DF T		12	5	85	99	27.819	21.85	55.64	12.9	51.0	20.47	718	2,838	246	86	34	
DF T		13	3	84	95	14.222	13.11	28.44	15.9	60.0	12.86	451	1,707	154	54	20	
DF T		14	2	86	96	8.175	8.74	16.35	17.9	67.5	8.35	293	1,104	100	35	13	
DF T		15	1	92	102	3.561	4.37	7.12	22.6	95.0	4.59	161	677	55	19	8	
DF T		16	3	86	105	9.389	13.11	18.78	25.0	91.7	13.38	469	1,721	161	56	21	
DF T		Totals	17	85	97	85.811	74.29	163.61	15.2	59.1	70.77	2,483	9,669	849	298	116	
WH L		16	1	79	87	4.093	5.71	8.19	23.9	75.0	6.27	196	614	75	24	7	
WH L		21	1	60	86	2.376	5.71	4.75	42.3	75.0	6.43	201	356	77	24	4	
WH L		Totals	2	72	87	6.468	11.43	12.94	30.7	75.0	12.70	397	970	152	48	12	
Totals			44	85	100	188.661	214.29	388.11	19.2	74.4	214.01	7,461	28,858	2,568	895	346	

TC PSTATS				PROJECT STATISTICS					PAGE	1	
				PROJECT	1000 JIM			DATE	6/9/2025		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
10S	03E	19	JIM-3	THIN	90.00		19	201	S	W	
				TREES	ESTIMATED		PERCENT				
				PER PLOT	TOTAL		SAMPLE				
				TREES	TREES		TREES				
TOTAL			19	201	10.6						
CRUISE			9	89	9.9		12,422		.7		
DBH COUNT											
REFOREST											
COUNT			10	112	11.2						
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			62	73.0	18.7	116	32.1	138.9	25,488	25,318	5,828
DOUG FIR-T			26	63.7	14.1	99	18.5	69.5	9,358	9,194	2,333
WHEMLOCK-L			1	1.3	17.0	98	0.5	2.1	294	280	80
TOTAL			89	138.0	16.7	108	51.5	210.5	35,139	34,792	8,240
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			61.4	7.8	396	429	463				
DOUG FIR-T			54.7	10.9	159	179	198				
WHEMLOCK-L											
TOTAL			71.7	7.6	327	354	381	205	51	23	
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			53.5	6.8	91	97	104				
DOUG FIR-T			55.8	11.2	40	46	51				
WHEMLOCK-L											
TOTAL			62.7	6.6	76	82	87	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			19.4	4.6	70	73	76				
DOUG FIR-T			50.2	11.8	56	64	71				
WHEMLOCK-L			299.5	70.6	0	1	2				
TOTAL			25.9	6.1	130	138	146	28	7	3	
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			3.3	.8	138	139	140				
DOUG FIR-T			53.7	12.7	61	69	78				
WHEMLOCK-L			299.5	70.6	1	2	4				
TOTAL			19.4	4.6	201	211	220	16	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-T			61.2	14.4	7,868	9,194	10,521				
DOUG FIR-L			8.9	2.1	24,787	25,318	25,849				
WHEMLOCK-L			299.5	70.6	83	280	478				
TOTAL			19.7	4.6	33,176	34,792	36,409	16	4	2	
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			6.8	1.6	5,735	5,828	5,920				
DOUG FIR-T			59.2	14.0	2,007	2,333	2,658				

TC PSTATS		<u>PROJECT STATISTICS</u>							PAGE	2
		PROJECT 1000 JIM							DATE	6/9/2025
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
10S	03E	19	JIM-3	THIN	90.00		19	201	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
WHEMLOCK-L			299.5	70.6	24	80	136			
TOTAL			19.8	4.7	7,856	8,240	8,624	17	4	2

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
T10S R03E S19 TyTHIN90.00				Project: 1000_JIM												Page 1						
				Acres 90.00												Date 6/9/2025						
																Time 3:43:10PM						
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/	Per	
				BdFt					4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						Ft
DF	L	DO	2M	57	.9	14,801	14,671	1,320	85 15				1 99				39	14	300	1.62	48.9	
DF	L	DO	3M	34	.5	8,619	8,579	772	100				1 2 97				39	9	114	0.72	75.5	
DF	L	DO	4M	9		2,067	2,067	186	88	12			31	25	14	30	24	5	28	0.33	74.4	
DF Totals				73	.7	25,488	25,318	2,279	7	35	49	9	3	2	2	93	33	9	127	0.88	198.8	
DF	T	DO	2M	9	7.3	958	888	80	100				100				40	13	250	1.55	3.5	
DF	T	DO	3M	70	1.4	6,505	6,412	577	100				3 7 91				38	9	109	0.71	58.8	
DF	T	DO	4M	21		1,894	1,894	170	100				10	15		75	30	5	31	0.28	60.8	
DF Totals				26	1.7	9,358	9,194	827	21	70	10		2	5	5	88	34	7	75	0.55	123.2	
WH	L	DO	3M	80	5.6	240	227	20	100				100				40	11	170	1.12	1.3	
WH	L	DO	4M	20		53	53	5	100							100	38	5	40	0.40	1.3	
WH Totals				1	4.5	294	280	25	19	81			100				39	8	105	0.77	2.7	
Totals					1.0	35,139	34,792	3,131	11	44	38	6	3	3	3	92	34	8	107	0.75	324.7	

TC		PLOGSTVB		Log Stock Table - MBF																	
T10S R03E S19 TyTHIN 90.00				Project: 1000_JIM Acres 90.00		Page 1 Date 6/9/2025 Time 3:43:10PM															
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	DO	2M	18	16	18.2	13	.6				13									
DF	L	DO	2M	40	1,316		1,307	57.4				370	599	274	30	35					
DF	L	DO	3M	18	12	25.0	9	.4				9									
DF	L	DO	3M	32	9		9	.4			9										
DF	L	DO	3M	34	8		8	.4			8										
DF	L	DO	3M	36	21		21	.9			14	7									
DF	L	DO	3M	38	8		8	.4			8										
DF	L	DO	3M	40	718		717	31.5			37	354	326								
DF	L	DO	4M	12	9		9	.4		9											
DF	L	DO	4M	14	1		1	.1		1											
DF	L	DO	4M	16	9		9	.4		9											
DF	L	DO	4M	18	15		15	.6		15											
DF	L	DO	4M	20	23		23	1.0		23											
DF	L	DO	4M	23	2		2	.1		2											
DF	L	DO	4M	24	7		7	.3		7											
DF	L	DO	4M	26	15		15	.7		15											
DF	L	DO	4M	28	17		17	.7		17											
DF	L	DO	4M	30	6		6	.3		6											
DF	L	DO	4M	32	14		14	.6		14											
DF	L	DO	4M	34	12		12	.5		12											
DF	L	DO	4M	36	14		14	.6		14											
DF	L	DO	4M	38	3		3	.1		3											
DF	L	DO	4M	40	39		39	1.7		16		23									
DF		Totals			2,294		2,279	72.8		163	76	362	357	383	599	274	30	35			
DF	T	DO	2M	40	86	7.3	80	9.7				27	53								
DF	T	DO	3M	26	16		16	1.9			16										
DF	T	DO	3M	32	29		29	3.5		29											
DF	T	DO	3M	34	9		9	1.1		9											
DF	T	DO	3M	36	9		9	1.1		9											
DF	T	DO	3M	38	20		20	2.4		20											
DF	T	DO	3M	40	503	1.7	494	59.7		55	158	282									
DF	T	DO	4M	12	11		11	1.3		11											
DF	T	DO	4M	14	1		1	.1		1											
DF	T	DO	4M	18	5		5	.7		5											
DF	T	DO	4M	24	9		9	1.1		9											
DF	T	DO	4M	28	16		16	1.9		16											

TC		PLOGSTVB		Log Stock Table - MBF																		
T10S R03E S19 TyTHIN90.00					Project:		1000_JIM												Page		2	
					Acres		90.00												Date		6/9/2025	
																			Time		3:43:10PM	
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	DO	4M	36	17		17	2.0		17												
DF	T	DO	4M	38	27		27	3.3		27												
DF	T	DO	4M	40	84		84	10.2		84												
DF		Totals			842	1.7	827	26.4		170	122	173	282	27	53							
WH	L	DO	3M	40	22	5.6	20	81.0					20									
WH	L	DO	4M	38	5		5	19.0		5												
WH		Totals			26	4.5	25	.8		5			20									
Total		All Species			3,163		3,131	100.0		338	198	535	659	410	651	274	30	35				

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		6/9/2025	
T10S R03E S19 TyTHIN					90.00					Project					1000_JIM					Time:		3:43:11PM			
										Acres					90.00					Grown Year:					
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Cu.Ft. Acre	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									
DF L		11	1	83	92	3.396	2.24	6.79	10.1	40.0	1.95	68	272	175	61	24									
DF L		12	1	89	100	2.853	2.24	5.71	13.5	60.0	2.19	77	342	197	69	31									
DF L		13	1	87	104	2.431	2.24	4.86	15.5	65.0	2.14	75	316	193	68	28									
DF L		14	2	88	97	4.193	4.48	8.39	18.3	77.5	4.36	153	650	393	138	58									
DF L		15	3	87	101	5.479	6.72	12.78	18.5	78.6	6.72	236	1,004	605	212	90									
DF L		16	3	89	108	4.815	6.72	14.45	17.8	76.7	7.34	257	1,107	660	232	100									
DF L		17	4	89	110	5.687	8.96	14.22	23.8	97.0	9.65	338	1,379	868	305	124									
DF L		18	4	87	127	5.073	8.96	15.22	25.4	107.5	11.01	386	1,636	991	348	147									
DF L		19	6	87	123	6.829	13.45	20.49	27.8	116.1	16.23	569	2,379	1,460	512	214									
DF L		20	11	88	118	11.300	24.65	32.87	31.4	132.5	29.45	1,033	4,355	2,650	930	392									
DF L		21	10	88	127	9.317	22.41	27.95	35.3	154.0	28.14	988	4,305	2,533	889	387									
DF L		22	5	88	123	4.245	11.21	12.73	38.2	174.0	13.86	486	2,216	1,248	438	199									
DF L		23	6	89	134	4.660	13.45	13.98	45.7	211.7	18.21	639	2,959	1,639	575	266									
DF L		24	2	86	132	1.427	4.48	4.28	48.4	213.3	5.91	207	913	532	187	82									
DF L		27	1	86	129	.564	2.24	1.69	58.0	253.3	2.79	98	428	252	88	39									
DF L		34	1	85	121	.355	2.24	1.07	92.9	420.0	2.82	99	448	254	89	40									
DF L		35	1	87	150	.335	2.24	1.34	86.4	452.5	3.30	116	607	297	104	55									
DF L		Totals	62	88	116	72.960	138.95	198.82	29.3	127.3	166.08	5,828	25,318	14,948	5,245	2,279									
DF T		9	1	86	84	6.048	2.67	6.05	9.7	40.0	1.67	59	242	151	53	22									
DF T		10	1	83	82	4.899	2.67	4.90	13.6	40.0	1.90	67	196	171	60	18									
DF T		12	3	86	86	10.207	8.02	20.41	10.8	45.0	6.29	221	919	566	199	83									
DF T		13	2	85	87	5.798	5.34	5.80	13.5	50.0	2.23	78	290	200	70	26									
DF T		14	4	84	104	9.998	10.69	20.00	19.1	73.7	10.89	382	1,475	980	344	133									
DF T		15	5	85	106	10.887	13.36	21.77	22.6	87.0	14.01	491	1,894	1,261	442	170									
DF T		16	3	87	116	5.741	8.02	15.31	20.5	88.7	8.95	314	1,359	805	282	122									
DF T		17	3	86	114	5.086	8.02	15.26	20.1	84.4	8.73	306	1,288	786	276	116									
DF T		18	2	85	109	3.024	5.34	7.56	26.1	98.0	5.62	197	741	505	177	67									
DF T		21	1	85	119	1.111	2.67	3.33	34.1	123.3	3.24	114	411	291	102	37									
DF T		23	1	87	112	.926	2.67	2.78	37.4	136.7	2.96	104	380	267	94	34									
DF T		Totals	26	85	99	63.725	69.47	123.17	18.9	74.6	66.48	2,333	9,194	5,983	2,099	827									
WH L		17	1	87	98	1.336	2.11	2.67	29.9	105.0	2.56	80	280	230	72	25									
WH L		Totals	1	87	98	1.336	2.11	2.67	29.9	105.0	2.56	80	280	230	72	25									
Totals			89	87	108	138.021	210.53	324.66	25.4	107.2	235.12	8,240	34,792	21,161	7,416	3,131									

TC PSTATS			PROJECT STATISTICS						PAGE	1	
			PROJECT		1000 JIM				DATE	6/9/2025	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
10S	03E	19	JIM-4	THIN		59.00	19	197	S	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			19	197	10.4						
CRUISE			10	98	9.8	11,381	.9				
DBH COUNT											
REFOREST											
COUNT			9	99	11.0						
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			62	90.0	16.1	105	127.4	18,303	18,303	4,718	4,718
DOUG FIR-T			32	86.6	11.9	96	67.4	8,856	8,751	2,176	2,176
BL MAPLE-L			2	13.9	9.9	90	7.4	724	724	188	188
WHEMLOCK-L			2	2.4	17.9	83	4.2	425	412	136	136
TOTAL			98	192.9	14.0	100	206.3	28,308	28,190	7,218	7,218
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			40.1	5.1	214	226	237				
DOUG FIR-T			63.9	11.3	119	135	150				
BL MAPLE-L			38.6	36.1	35	55	75				
WHEMLOCK-L			28.3	26.5	129	175	221				
TOTAL			51.6	5.2	182	192	202	106	27	12	
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			38.1	4.8	56	58	61				
DOUG FIR-T			66.0	11.6	30	34	38				
BL MAPLE-L			46.2	43.2	8	14	21				
WHEMLOCK-L			15.5	14.5	49	57	66				
TOTAL			50.7	5.1	47	49	52	103	26	11	
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			15.3	3.6	87	90	93				
DOUG FIR-T			85.2	20.1	69	87	104				
BL MAPLE-L			316.7	74.6	4	14	24				
WHEMLOCK-L			199.7	47.1	1	2	4				
TOTAL			37.3	8.8	176	193	210	59	15	7	
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH		5	10	15	
DOUG FIR-L			11.9	2.8	124	127	131				
DOUG FIR-T			87.5	20.6	53	67	81				
BL MAPLE-L			316.2	74.5	2	7	13				
WHEMLOCK-L			199.0	46.9	2	4	6				
TOTAL			28.2	6.6	193	206	220	34	8	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			16.9	4.0	17,572	18,303	19,033				
DOUG FIR-T			95.8	22.6	6,775	8,751	10,727				
BL MAPLE-L			316.2	74.5	185	724	1,264				
WHEMLOCK-L			199.5	47.0	218	412	605				

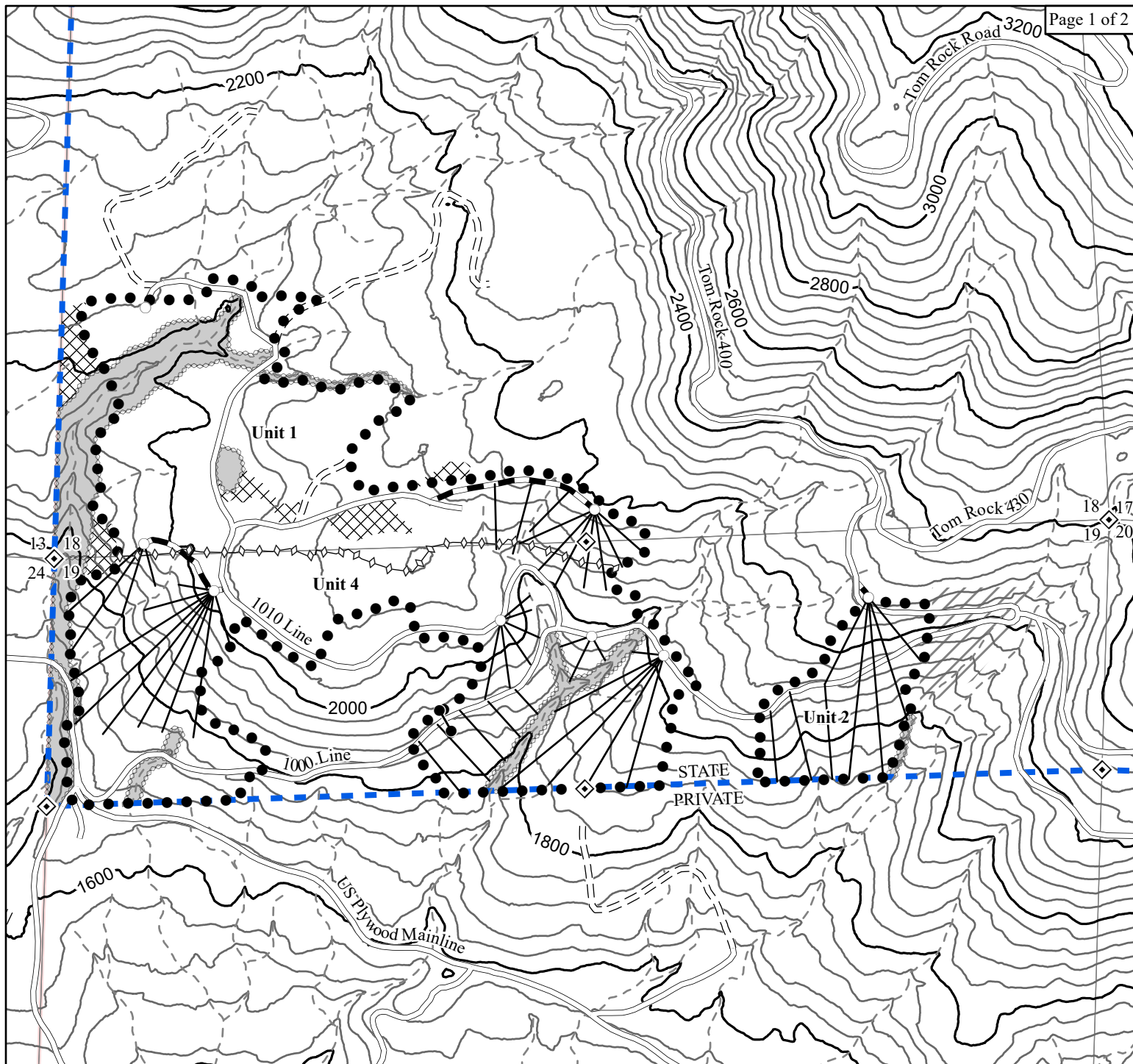
TC PSTATS			PROJECT STATISTICS						PAGE	2
			PROJECT 1000 JIM						DATE	6/9/2025
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
10S	03E	19	JIM-4	THIN		59.00	19	197	S	W
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			33.9	8.0	25,939	28,190	30,440	48	12	5
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			15.9	3.8	4,541	4,718	4,895			
DOUG FIR-T			95.1	22.4	1,689	2,176	2,664			
BL MAPLE-L			316.4	74.6	48	188	328			
WHEMLOCK-L			199.0	46.9	72	136	200			
TOTAL			31.6	7.4	6,681	7,218	7,755	42	11	5

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
T10S R03E S19 TyTHIN59.00					Project: 1000_JIM					Page 1												
					Acres 59.00					Date 6/9/2025												
										Time 12:54:39PM												
S So Gr Spp T rt ad				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	L	DO	2M	23		4,248	4,248	251	100				100				40	13	234	1.43	18.1	
DF	L	DO	3M	63		11,606	11,606	685	100				6 94				39	9	113	0.74	103.0	
DF	L	DO	4M	14		2,448	2,448	144	97	3			21	20	8	50	26	5	27	0.29	90.9	
DF Totals				65		18,303	18,303	1,080	13	64	23		3	3	5	90	34	7	86	0.66	212.0	
DF	T	DO	2M	5		470	470	28	100				100				40	12	218	1.40	2.2	
DF	T	DO	3M	69	1.7	6,180	6,075	358	100				3 97				39	7	86	0.54	70.8	
DF	T	DO	4M	26		2,207	2,207	130	97	3			30	11	4	55	25	5	25	0.25	86.6	
DF Totals				31		1.2	8,856	8,751	516	24	70	5		8	3	3	87	31	6	55	0.43	159.6
BM	L	DO	3M	46		335	335	20	100				100				40	6	60	0.43	5.6	
BM	L	DO	4M	54		389	389	23	57	43			100				18	5	17	0.23	22.3	
BM Totals				3		724	724	43	31	69			54			46	22	6	26	0.30	27.8	
WH	L	DO	3M	85		353	353	21	100				100				40	10	147	1.20	2.4	
WH	L	DO	4M	15	18.5	72	59	3	100				100				26	5	24	0.34	2.4	
WH Totals				1		3.1	425	412	24	14	86			14		86		33	7	86	0.86	4.8
Totals						0.4	28,308	28,189	1,663	17	66	17		6	3	4	87	32	7	70	0.56	404.2

TC		PLOGSTVB		Log Stock Table - MBF																
T10S R03E S19 TyTHIN					59.00		Project: 1000_JIM										Page 1			
							Acres 59.00										Date 6/9/2025			
																	Time 12:59:40PM			
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	DO	2M	40	251		251	23.2					190	61						
DF	L	DO	3M	32	19		19	1.7			19									
DF	L	DO	3M	34	22		22	2.1			22									
DF	L	DO	3M	36	14		14	1.3			14									
DF	L	DO	3M	38	11		11	1.0			6	4								
DF	L	DO	3M	40	619		619	57.3			42	267	310							
DF	L	DO	4M	12	14		14	1.3		14										
DF	L	DO	4M	14	1		1	.1		1										
DF	L	DO	4M	18	8		8	.7		8										
DF	L	DO	4M	20	8		8	.7		8										
DF	L	DO	4M	24	8		8	.7		8										
DF	L	DO	4M	26	5		5	.5		5										
DF	L	DO	4M	28	10		10	.9		10										
DF	L	DO	4M	30	7		7	.6		7										
DF	L	DO	4M	32	3		3	.3		3										
DF	L	DO	4M	34	9		9	.8		9										
DF	L	DO	4M	36	9		9	.9		9										
DF	L	DO	4M	38	3		3	.3		3										
DF	L	DO	4M	40	60		60	5.5		56	4									
DF		Totals			1,080		1,080	64.9		141	108	271	310	190	61					
DF	T	DO	2M	40	28		28	5.4					28							
DF	T	DO	3M	32	10		10	1.9		10										
DF	T	DO	3M	36	14		14	2.6		14										
DF	T	DO	3M	38	11		11	2.1		11										
DF	T	DO	3M	40	330	1.9	324	62.7		132	65	127								
DF	T	DO	4M	12	11		11	2.1		11										
DF	T	DO	4M	14	8		8	1.5		4		4								
DF	T	DO	4M	16	9		9	1.7		9										
DF	T	DO	4M	20	12		12	2.3		12										
DF	T	DO	4M	24	6		6	1.1		6										
DF	T	DO	4M	26	8		8	1.6		8										
DF	T	DO	4M	34	5		5	1.0		5										
DF	T	DO	4M	36	24		24	4.6		24										
DF	T	DO	4M	40	48		48	9.3		48										
DF		Totals			523	1.2	516	31.0		126	167	68	127	28						

TC		PLOGSTVB		Log Stock Table - MBF																	
T10S R03E S19 TyTHIN59.00					Project:1000_JIM Acres59.00										Page2						
															Date6/9/2025						
															Time12:59:40PM						
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+	
BM	L	DO	3M	40	20		20	46.2			20										
BM	L	DO	4M	12	3		3	7.7			3										
BM	L	DO	4M	20	20		20	46.1			10	10									
BM		Totals			43		43	2.6			13	30									
WH	L	DO	3M	40	21		21	85.7			9	11									
WH	L	DO	4M	24	2	33.3	2	6.5			2										
WH	L	DO	4M	28	2		2	7.8			2										
WH		Totals			25	3.1	24	1.5			3	9	11								
Total		All Species			1,670		1,663	100.0			284	304	349	448	217	61					

TC		PSTNDSUM		Stand Table Summary									Page Date:		1 6/9/2025	
T10S R03E S19 TyTHIN 59.00					Project 1000_JIM					Time:		12:54:39PM				
					Acres 59.00					Grown Year:						
S SpC	T	DBH	Sample Trees	Tot FF 16'	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		12	1	87	84	2.616	2.05	5.23	11.1	45.0	1.65	58	235	98	34	14
DF L		13	6	87	95	13.372	12.33	26.74	14.6	60.0	11.14	391	1,605	658	231	95
DF L		14	6	85	102	11.530	12.33	23.06	18.5	73.3	12.14	426	1,691	716	251	100
DF L		15	7	86	107	11.718	14.38	25.11	20.7	79.3	14.83	520	1,992	875	307	118
DF L		16	12	86	104	17.656	24.65	41.20	21.5	84.6	25.30	888	3,487	1,493	524	206
DF L		17	7	84	106	9.123	14.38	23.46	22.9	87.8	15.30	537	2,059	903	317	121
DF L		18	12	84	111	13.950	24.65	37.20	25.8	95.9	27.35	960	3,569	1,614	566	211
DF L		19	2	88	119	2.087	4.11	6.26	27.1	105.0	4.83	170	657	285	100	39
DF L		20	5	85	116	4.708	10.27	14.12	29.5	109.3	11.86	416	1,544	700	246	91
DF L		21	2	84	126	1.708	4.11	5.12	34.9	140.0	5.10	179	717	301	106	42
DF L		22	1	87	122	.778	2.05	2.33	37.3	166.7	2.48	87	389	146	51	23
DF L		23	1	84	121	.712	2.05	2.14	40.5	166.7	2.46	86	356	145	51	21
DF L		Totals	62	85	105	89.959	127.37	211.98	22.3	86.3	134.46	4,718	18,303	7,933	2,783	1,080
DF T		8	1	83	83	6.031	2.11	6.03	8.7	40.0	1.50	53	241	89	31	14
DF T		9	2	87	92	9.531	4.21	9.53	10.6	40.0	2.89	101	381	170	60	22
DF T		10	5	83	89	19.300	10.53	34.74	8.4	35.6	8.35	293	1,235	492	173	73
DF T		11	7	84	92	22.330	14.74	41.47	9.5	39.2	11.22	394	1,627	662	232	96
DF T		12	2	85	101	5.361	4.21	10.72	12.9	55.0	3.93	138	590	232	81	35
DF T		13	3	84	98	6.852	6.32	13.70	15.7	61.7	6.14	216	845	363	127	50
DF T		15	4	86	110	6.862	8.42	13.72	22.8	85.0	8.93	313	1,167	527	185	69
DF T		16	1	84	113	1.508	2.11	4.52	18.1	73.3	2.33	82	332	138	48	20
DF T		17	5	86	113	6.678	10.53	18.70	21.8	89.3	11.63	408	1,670	686	241	99
DF T		18	1	83	124	1.191	2.11	3.57	25.1	96.7	2.56	90	345	151	53	20
DF T		20	1	83	124	.965	2.11	2.89	30.8	110.0	2.54	89	318	150	53	19
DF T		Totals	32	84	96	86.609	67.37	159.61	13.6	54.8	62.02	2,176	8,751	3,659	1,284	516
BML		9	1	78	90	8.339	3.68	16.68	4.9	20.0	2.15	81	334	127	48	20
BML		11	1	78	90	5.583	3.68	11.17	9.6	35.0	2.83	107	391	167	63	23
BML		Totals	2	78	90	13.922	7.37	27.84	6.7	26.0	4.97	188	724	293	111	43
WHL		17	1	76	82	1.336	2.11	2.67	25.6	70.0	2.18	68	187	129	40	11
WHL		19	1	82	85	1.069	2.11	2.14	31.9	105.0	2.18	68	225	129	40	13
WHL		Totals	2	79	83	2.405	4.21	4.81	28.4	85.6	4.37	136	412	258	80	24
Totals			98	84	100	192.894	206.32	404.25	17.9	69.7	205.82	7,218	28,189	12,143	4,259	1,663



Legend

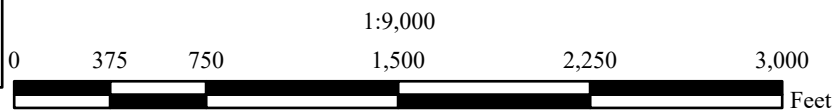
- Timber Sale Boundary
- ◇◇ Unit Boundary
- ▨ Stream Buffer
- ▩ Partial Cut - Non Required
- ▨ Reforestation Area
- Surfaced Road
- == Unsurfaced Road
- New Construction
- - - Non-Fish
- Transportation Gate
- ◇ Land Survey Monument
- Landing

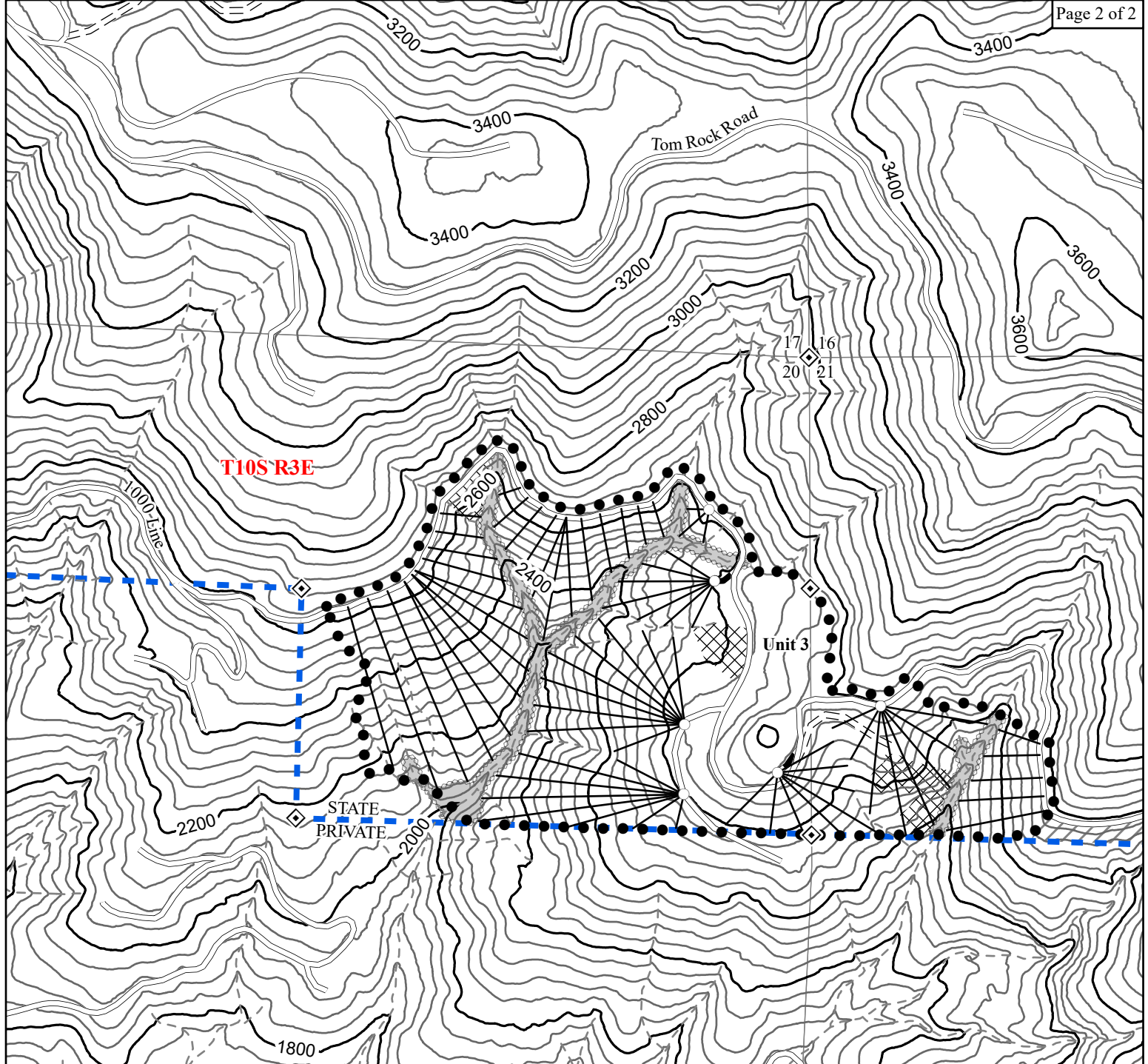
LOGGING PLAN

OF TIMBER SALE CONTRACT NO. NC-341-2026-W01247-01
1000 LINE JIM THIN
PORTIONS OF SECTIONS 18, 19, 20 & 21, T10S, R3E, W.M.,
LINN COUNTY, OREGON

This product is for informational use and may not have
been prepared for or be suitable for legal, engineering
or survey purposes.

UNIT	CABLE TRACTOR	
	ACRES	ACRES
1 (PC)	8	33
2 (PC)	12	0
3 (PC)	60	30
4 (PC)	51	8
5 (R/W)	0	1
TOTAL	131	72





Legend

- ● Timber Sale Boundary
- ▨ Stream Buffer
- ▤ Partial Cut - Non Required
- ▦ Reforestation Area
- Surfaced Road
- - - Unsurfaced Road
- New Construction
- - - Non-Fish
- ◆ Land Survey Monument
- Landing

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. NC-341-2026-W01247-01
1000 LINE JIM THIN
PORTIONS OF SECTIONS 18, 19, 20 & 21, T10S, R3E, W.M.,
LINN COUNTY, OREGON

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or survey purposes.

UNIT	CABLE TRACTOR	
	ACRES	ACRES
1 (PC)	8	33
2 (PC)	12	0
3 (PC)	60	30
4 (PC)	51	8
5 (R/W)	0	1
TOTAL	131	72

