"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Grouse Bully Thin
Sale WO-341-2023-W00901-01

District: West Oregon

Date: July 25, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,011,169.60	$0.00	$1,011,169.60
		Project Work:	($118,037.00)
		Advertised Value:	$893,132.60

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Grouse Bully Thin
Sale WO-341-2023-W00901-01

District: West Oregon **Date: July 25, 2022**

Timber Description

Location: Portions of Sections 25, 35 & 36, T11S, R9W, W.M., Lincoln County, OR.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	38	2,702	2,740
Total	38	2,702	2,740

Comments: Pond Values Used: Local Pond Values, May, 2022

Western Hemlock and Other Conifers Stumpage Price = Conifer Pulp price using a conversion factor of 10 Tons/MBF = $25/MBF

Red Alder Stumpage Price = Pond Value minus Logging Cost:
$89.04/MBF = $670/MBF - $580.96/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$447.04/MBF = $1,178/MBF - $580.96/MBF- $150/MBF(Extra Haul Cost)

Bigleaf maple and other Hardwoods Stumpage Price = Hardwood Pulp price using a conversion factor of 10 Tons/MBF = $25/MBF

PULP (Conifer and Hardwood Price) = $2.50/TON

Other Costs (with Profit & Risk to be added):
Intermediate Support/Tail Trees: 35 supports @ $100/support = $3,500.
Artificial anchor (dead man): 3 anchors @ $500/anchor = $1,500
TOTAL Other Costs (with Profit & Risk to be added) = $5,000

Other Costs (No Profit & Risk added):
Equipment Cleaning (Invasive Species): $2,000
Landing Slash Piling and sorting out firewood: 20 Landings @ $200/Landing = $4,000
Landing Slash Piling: 7 Landings @ $120/Landing = $840
Non-Project Roads and Landings: 6 stations @ $138/station = $828
Water Bar and Block Dirt Roads: 95 stations @ $17.56/station = $1,668
Alternate Haul Route road slough removal: 3 hours @ $145/hour + Excavator move-in cost @ $1,450 = $1,885 (10% fuel adjustment) $2,074
TOTAL Other Costs (No Profit & Risk added) = $11,410

ROAD MAINTENANCE (Includes 10% fuel adjustment)
Move-in: (Grader) $875
Move-in: (Front-End Loader for Stockpile) $875
Interim Road Maintenance: $4,126.00
Final Road Maintenance: $12,532.23
TOTAL Road Maintenance: $18,408.23/2,740MBF = $6.72/MBF

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Grouse Bully Thin
Sale WO-341-2023-W00901-01

District: West Oregon **Date: July 25, 2022**

Logging Conditions

Combination#: 1 Douglas - Fir 75.21%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

yarding distance: Short (400 ft) **downhill yarding:** No

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

loads / day: 4 **bd. ft / load:** 3500

cost / mbf: $432.96

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 24.79%

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: 8 **bd. ft / load:** 3500

cost / mbf: $190.86

machines: Forwarder
Harvester

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Grouse Bully Thin
Sale WO-341-2023-W00901-01

District: West Oregon **Date: July 25, 2022**

Logging Costs

Operating Seasons:	3.00	**Profit Risk:**	14%
Project Costs:	$118,037.00	**Other Costs (P/R):**	$5,000.00
Slash Disposal:	$0.00	**Other Costs:**	$11,410.00

Miles of Road

Road Maintenance: $6.72

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	3.5

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Grouse Bully Thin
Sale WO-341-2023-W00901-01

District: West Oregon **Date: July 25, 2022**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$372.94	$6.92	$4.81	$117.72	$1.82	$70.59	$0.00	$2.00	$4.16	$580.96

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$950.00	$369.04	$0.00

Timber Sale Appraisal
Grouse Bully Thin
Sale WO-341-2023-W00901-01

"STEWARDSHIP IN FORESTRY"

District: West Oregon **Date: July 25, 2022**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,740	$369.04	$1,011,169.60

Gross Timber Sale Value

Recovery: $1,011,169.60

Prepared By: Aaron McEwen **Phone:** 541-929-9168

SUMMARY OF ALL PROJECT COSTS

Sale Name: Grouse Bully Thin Date: June 2022
Time: 10:08

Project #1 - New Construction

Road Segment	Length	Cost
Pt. A to Pt. B	2.0	$974
Pt. C to Pt. D	1.6	$865
Pt. E to Pt. F	1.2	$755
Pt. G to Pt. H	2.0	$974
Pt. I to Pt. J	1.6	$3,955
Fuel Cost Increase		$752
TOTALS	8.4 sta	$8,275

Project #2 - Improvements

Road Segment	Length	Cost
Pt. 1 to Pt. 2	280.5 sta	$7,078
Pt. 3 to Pt. 4	18.0 sta	$4,477
Pt. 5 to Pt. 6	5.2 sta	$2,191
Pt. 3 to Pt. 7	2.1 sta	$1,069
Pt. 8 to Pt. 9	6.6 sta	$615
Pt. 10 to Pt. 11	46.8 sta	$61,273
Pt. 12 to Pt. 13	11.7 sta	$803
Pt. 14 to Pt. 15	5.0 sta	$391
Pt. 16 to Pt. 17	18.9 sta	$1,417
Pt. 2 to Pt. 18	9.2 sta	$1,948
Pt. 19 to Pt. 20	57.0 sta	$4,933
Pt. 21 to Pt. 22	17.6 sta	$1,160
Pt. 23 to Pt. 24	2.5 sta	$182
Pt. 25 to Pt. 26	110.6 sta	$2,855
Pt. 3 to Pt. 27	92.0 sta	$3,506
Fuel Cost Increase		$9,390
TOTALS	683.7 sta	$103,288

Project #3 - Move in	Cost	On-Site Move
Excavator, C325 or equiv.	$1,450	$228
Front-end Loader	$875	$231
Dozer, D-7 or equiv.	$905	$146
Grader, Cat 14-G or equiv.	$875	$160
Vibratory roller	$875	$140
Fuel Cost Increase	$498	$91
TOTAL	$5,478	$996

GRAND TOTAL **$118,037**

Compiled by McEwen Date 06/01/2022

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 1 LENGTH const 2.0 sta
ROAD Pt. A to Pt. B (Unsurfaced)

CLEARING AND GRUBBING

0.14	acres	@	$1,337.00	/acre	=	$187

TOTAL CLEARING AND GRUBBING = $187

EXCAVATION With D6 dozer or equivalent

Construct road	2.0 sta	@	$138.00	/sta	=	$276
Construct Landing	1 Ldg	@	$438.00	/Ldg	=	$438
Shape subgrade (with road grader)	2.0 sta	@	$20.63	/sta	=	$41
Compact subgrade (with vibratory roller)	2.0 sta	@	$16.00	/sta	=	$32

TOTAL EXCAVATION = $787

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $974

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 1 LENGTH const 1.6 sta
ROAD Pt. C to Pt. D (Unsurfaced)

CLEARING AND GRUBBING

0.11	acres	@	$1,337.00	/acre	=	$147

TOTAL CLEARING AND GRUBBING = $147

EXCAVATION With D6 dozer or equivalent

Construct road	1.6	sta	@	$138.00	/sta	= $221
Construct Landing	1	Ldg	@	$438.00	/Ldg	= $438
Shape subgrade (with road grader)	1.6	sta	@	$20.63	/sta	= $33
Compact subgrade (with vibratory roller)	1.6	sta	@	$16.00	/sta	= $26

TOTAL EXCAVATION = $718

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $865

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 1 LENGTH const 1.2 sta
ROAD Pt. E to Pt. F (Unsurfaced)

CLEARING AND GRUBBING

0.08	acres	@	$1,337.00	/acre	=	$107

TOTAL CLEARING AND GRUBBING = $107

EXCAVATION With D6 dozer or equivalent

Construct road	1.2	sta	@	$138.00	/sta	= $166
Construct Landing	1	Ldg	@	$438.00	/Ldg	= $438
Shape subgrade (with road grader)	1.2	sta	@	$20.63	/sta	= $25
Compact subgrade (with vibratory roller)	1.2	sta	@	$16.00	/sta	= $19

TOTAL EXCAVATION = $648

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $755

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 1 LENGTH const 2.0 sta
ROAD Pt. G to Pt. H (Unsurfaced)

CLEARING AND GRUBBING

0.14	acres	@	$1,337.00	/acre	=	$187

TOTAL CLEARING AND GRUBBING = $187

EXCAVATION With D6 dozer or equivalent

Construct road	2.0 sta	@	$138.00	/sta	=	$276
Construct Landing	1 Ldg	@	$438.00	/Ldg	=	$438
Shape subgrade (with road grader)	2.0 sta	@	$20.63	/sta	=	$41
Compact subgrade (with vibratory roller)	2.0 sta	@	$16.00	/sta	=	$32

TOTAL EXCAVATION = $787

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $974

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 1 LENGTH const 1.6 sta
ROAD Pt. I to Pt. J (Surfaced)

CLEARING AND GRUBBING

0.11	acres	@	$1,337.00	/acre	=	$147

TOTAL CLEARING AND GRUBBING = $147

EXCAVATION With D6 dozer or equivalent

Construct road	1.6 sta	@	$138.00	/sta	=	$221
Construct Landing	1 Ldg	@	$438.00	/Ldg	=	$438
Shape subgrade (with road grader)	1.6 sta	@	$20.63	/sta	=	$33
Compact subgrade (with vibratory roller)	1.6 sta	@	$16.00	/sta	=	$26

TOTAL EXCAVATION = $718

SURFACING

			Size	Cost/yd		
Base Rock	70	cy of	Jaw-Run	$29.86	=	$2,090
Landing rock (Pt. 4)	30	cy of	Jaw-Run	$29.86	=	$896
Junction Rock (S1)	10	cy of	1½"-0"	$4.52	=	$45
Shape surface (with road grader/dozer)	1.6 sta	@	$20.63	/sta	=	$33
Compact surface (with vibratory roller)	1.6 sta	@	$16.00	/sta	=	$26

TOTAL ROCK COST = $3,090

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $3,955

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 2 LENGTH improve 280.5 sta
ROAD Pt. 1 to Pt. 2 (Salmon Creek Rd, Wolf Creek Rd, Baber Ridge Rd, Deer Creek Ridge Rd)

IMPROVEMENT

Shape surface (with road grader)	140.0	sta	@	$20.63	/sta	=	$2,888
Compact surface (with vibratory roller)	140.0	sta	@	$16.00	/sta	=	$2,240

TOTAL IMPROVEMENT = $5,128

SURFACING

			Size	Cost/yd		
Turnout rock (5) (S2)	50	cy of	3"-0"	$4.88	=	$244
Landing rock (S2) (Near Pt.10 & Pt. 2)	80	cy of	3"-0"	$4.88	=	$390
Spot rock (S1)	280	cy of	1½"-0"	$4.52	=	$1,266

TOTAL ROCK COST = $1,900

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	2	culverts	@	$25.00	ea =	$50

TOTAL SPECIAL PROJECTS COST = $50

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $7,078

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 2 LENGTH improve 18.0 sta
ROAD Pt. 3 to Pt. 4 (Surfaced)

EXCAVATION	With D6 dozer or equivalent						
Construct Landing (Sta. 4+94)	1 Ldg	@	$438.00	/Ldg	=	$438	
				TOTAL EXCAVATION =			$438
IMPROVEMENT							
Sod Removal (Sta. 8+17 to Pt. 4)	9.9 sta	@	$15.40	/sta	=	$152	
Shape surface (with road grader)	9.9 sta	@	$20.63	/sta	=	$204	
Compact subgrade (with vibratory roller)	9.9 sta	@	$16.00	/sta	=	$158	
				TOTAL IMPROVEMENT =			$514
SURFACING			Size	Cost/yd			
Surface rock (4"lift) (S2) (Sta. 8+17 to Pt. 4)	220 cy of		3"-0"	$4.88	=	$1,074	
Landing rock (Sta. 4+94 & Pt. 4)	60 cy of		Jaw-Run	$29.86	=	$1,792	
Shape surface (with road grader)	18.0 sta	@	$20.63	/sta	=	$371	
Compact surface (with vibratory roller)	18.0 sta	@	$16.00	/sta	=	$288	
				TOTAL ROCK COST =			$3,525

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $4,477

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	5.2 sta
ROAD	Pt. 5 to Pt. 6	(Surfaced)			

IMPROVEMENT

Sod Removal	5.2	sta	@	$15.40	/sta	=	$80
Shape surface (with road grader)	5.2	sta	@	$20.63	/sta	=	$107
Compact subgrade (with vibratory roller)	5.2	sta	@	$16.00	/sta	=	$83

TOTAL IMPROVEMENT = $270

SURFACING			Size	Cost/yd		
Surface rock (4"lift) (S2)	110	cy of	3"-0"	$4.88	=	$537
Landing rock (Pt. 6)	40	cy of	Jaw-Run	$29.86	=	$1,194
Shape surface (with road grader)	5.2	sta @	$20.63	/sta	=	$107
Compact surface (with vibratory roller)	5.2	sta @	$16.00	/sta	=	$83

TOTAL ROCK COST = $1,921

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $2,191

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	2.1 sta
ROAD	Pt. 3 to Pt. 7	(Surfaced)			

IMPROVEMENT

Sod Removal	2.1 sta	@	$15.40	/sta	=	$32
Re-open Landing	0.5 hrs	@	$128.00	/hr	=	$64
Shape surface (with road grader)	2.1 sta	@	$20.63	/sta	=	$43
Compact surface (with vibratory roller)	2.1 sta	@	$16.00	/sta	=	$34

TOTAL IMPROVEMENT = $173

SURFACING

			Size	Cost/yd		
Landing rock	30 cy of		Jaw-Run	$29.86	=	$896

TOTAL ROCK COST = $896

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $1,069

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 2 LENGTH improve 6.6 sta
ROAD Pt. 8 to Pt. 9 (Unsurfaced)

IMPROVEMENT

Re-open road (w/D6)	6.6 sta	@	$36.67	/sta	=	$242
Re-open Landing	0.5 hrs	@	$128.00	/hr	=	$64
Shape subgrade (with road grader)	6.6 sta	@	$20.63	/sta	=	$136
Compact subgrade (with vibratory roller)	6.6 sta	@	$16.00	/sta	=	$106

TOTAL IMPROVEMENT = $548

SURFACING

			Size	Cost/yd		
Junction Rock (S2)	10 cy of		3"-0"	$4.88	=	$49
Shape surface (with road grader)	0.5 sta	@	$20.63	/sta	=	$10
Compact surface (with vibratory roller)	0.5 sta	@	$16.00	/sta	=	$8

TOTAL ROCK COST = $67

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $615

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	46.8 sta
ROAD	Pt. 10 to Pt. 11	(Surfaced)			

IMPROVEMENT

Re-open Landings (4)	2	hrs	@	$128.00	/hr	=	$256
Shape subgrade (with road grader)	46.8	sta	@	$20.63	/sta	=	$965
Compact subgrade (with vibratory roller)	46.8	sta	@	$16.00	/sta	=	$749
Construct ditchouts (x3)	3		@	$25.00	/ditchout	=	$75
					TOTAL IMPROVEMENT =		$2,045

SURFACING

			Size	Cost/yd		
Base rock (6" lift)	1540	cy of	Jaw-Run	$29.86	=	$45,984
Surface rock (2"lift) (S1)	510	cy of	1½"-0"	$4.52	=	$2,305
Landing rock (6)	150	cy of	Jaw-Run	$29.86	=	$4,479
Shape surface (with road grader)	46.8	sta	@	$20.63	/sta	=	$965
Compact surface (with vibratory roller)	46.8	sta	@	$16.00	/sta	=	$749
				TOTAL ROCK COST =			$54,482

SPECIAL PROJECTS

Install x-drain (Sta. 7+52) (18" x 24')	24	ft	@	$13.75	/ft	=	$330
Install x-drain (Sta. 11+60) (18" x 70')	70	ft	@	$13.75	/ft	=	$963
Install x-drain (Sta. 14+09) (12" x 32')	32	ft	@	$11.75	/ft	=	$376
Install x-drain (Sta. 16+35) (24" x 36')	36	ft	@	$21.45	/ft	=	$772
Culvert install	12	hrs	@	$145.00	/hr	=	$1,740
Culvert bedding rock (S1)	70	cy of	1½"-0"	$4.52		=	$316
Dissipator rock (S2)	10	cy of	3"-0"	$4.88		=	$49
Culvert disposal (4)	4		@	$50.00	/culvert	=	$200
				TOTAL SPECIAL PROJECTS COST =			$4,746

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $61,273

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 2 LENGTH improve 11.7 sta
ROAD Pt. 12 to Pt. 13 (Unsurfaced)

IMPROVEMENT

Re-open road (w/grader)	11.7	sta	@	$15.40	/sta	=	$180
Re-open Landings (2) (Sta. 5+83, Pt. 13)	1	hr	@	$128.00	/hr	=	$128
Shape surface (with road grader)	11.7	sta	@	$20.63	/sta	=	$241
Compact surface (with vibratory roller)	11.7	sta	@	$16.00	/sta	=	$187

TOTAL IMPROVEMENT = $736

SURFACING

				Size	Cost/yd		
Junction rock (S2)	10	cy of		3"-0"	$4.88	=	$49
Shape surface (with road grader)	0.5	sta	@	$20.63	/sta	=	$10
Compact surface (with vibratory roller)	0.5	sta	@	$16.00	/sta	=	$8

TOTAL ROCK COST = $67

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $803

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 2 LENGTH improve 5.0 sta
ROAD Pt. 14 to Pt. 15 (Unsurfaced)

IMPROVEMENT

Re-open road (w/grader)	5.0	sta	@	$15.40	/sta	=	$77
Re-open Landing	0.5	hrs	@	$128.00	/hr	=	$64
Shape surface (with road grader)	5.0	sta	@	$20.63	/sta	=	$103
Compact surface (with vibratory roller)	5.0	sta	@	$16.00	/sta	=	$80

TOTAL IMPROVEMENT = $324

SURFACING

				Size	Cost/yd		
Junction rock (S2)	10	cy of		3"-0"	$4.88	=	$49
Shape surface (with road grader)	0.5	sta	@	$20.63	/sta	=	$10
Compact surface (with vibratory roller)	0.5	sta	@	$16.00	/sta	=	$8

TOTAL ROCK COST = $67

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $391

SUMMARY OF CONSTRUCTION COST

SALE Grouse Bully Thin Project # 2 LENGTH improve 18.9 sta
ROAD Pt. 16 to Pt. 17 (Unsurfaced)

IMPROVEMENT

Re-open road (w/D6)	18.9	sta	@	$36.67	/sta	=	$693
Re-open Landing	0.5	hrs	@	$128.00	/hr	=	$64
Shape surface (with road grader)	18.9	sta	@	$15.40	/sta	=	$291
Compact subgrade (with vibratory roller)	18.9	sta	@	$16.00	/sta	=	$302

TOTAL IMPROVEMENT = $1,350

SURFACING

				Size	Cost/yd		
Junction rock (S2)	10	cy of		3"-0"	$4.88	=	$49
Shape surface (with road grader)	0.5	sta	@	$20.63	/sta	=	$10
Compact surface (with vibratory roller)	0.5	sta	@	$16.00	/sta	=	$8

TOTAL ROCK COST = $67

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $1,417

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	9.2 sta
ROAD	Pt. 2 to Pt. 18	(Surfaced)			

IMPROVEMENT

Sod Removal	9.2	sta	@	$15.40	/sta	=	$142

TOTAL IMPROVEMENT = $142

SURFACING			Size	Cost/yd		
Spot rock (S1)	50	cy of	1½"-0"	$4.52	=	$226
Landing rock	40	cy of	Jaw-Run	$29.86	=	$1,194
Turnaround rock (1) (S2)	10	cy of	3"-0"	$4.88	=	$49
Shape surface (with road grader)	9.2	sta	@	$20.63	/sta	=	$190
Compact surface (with vibratory roller)	9.2	sta	@	$16.00	/sta	=	$147

TOTAL ROCK COST = $1,806

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $1,948

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	57.0 sta
ROAD	Pt. 19 to Pt. 20	(Surfaced)			

IMPROVEMENT

Sod Removal	57.0 sta	@	$15.40	/sta	=	$878
				TOTAL IMPROVEMENT =		$878

EXCAVATION With D6 dozer or equivalent

Construct Landing (Sta. 34+22)	1 hr	@	$128.00	/hr	=	$128
				TOTAL EXCAVATION =		$128

SURFACING			Size	Cost/yd		
Turnout rock (3) (S3)	30	cy of	1½"-0"	$3.84	=	$115
Landing rock (Sta.34+22)	20	cy of	Jaw-Run	$29.86	=	$597
Spot rock (S3)	200	cy of	1½"-0"	$3.84	=	$768
Shape surface (with road grader)	57.0 sta	@	$20.63	/sta	=	$1,176
Compact surface (with vibratory roller)	57.0 sta	@	$16.00	/sta	=	$912
				TOTAL ROCK COST =		$3,568

SPECIAL PROJECTS

Dissipator rock (Sta. 8+57)	5 cy of	Pit-Run	$27.84	/yd	=	$139
Dissipator rock placement	1 hour	@	$145.00	/hr	=	$145
Clean out culverts (inlets and outlets)	3 culverts	@	$25.00	/ea	=	$75
			TOTAL SPECIAL PROJECTS COST =			$359

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $4,933

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	17.6 sta
ROAD	Pt. 21 to Pt. 22	(Unsurfaced)			

IMPROVEMENT (Sta. 0+00 to Sta. 17+60)

Sod Removal	17.6 sta	@	$15.40	/sta	=	$271
Shape subgrade (with road grader)	17.6 sta	@	$15.40	/sta	=	$271
Compact subgrade (with vibratory roller)	17.6 sta	@	$16.00	/sta	=	$282

TOTAL IMPROVEMENT = $824

SURFACING

			Size	Cost/yd		
Junction rock (S3)	10	cy of	1½"-0"	$3.84	=	$38
Shape surface (with road grader)	0.3 sta	@	$20.63	/sta	=	$6
Compact surface (with vibratory roller)	0.3 sta	@	$16.00	/sta	=	$5

TOTAL ROCK COST = $49

SPECIAL PROJECTS

Dissipator rock (Sta. 13+52)	5 cy of	Pit-Run	$27.84	/yd	=	$139
Dissipator rock placement (2)	0.5 hour	@	$145.00	/hr	=	$73
Clean out culverts (inlets and outlets)	3 culverts	@	$25.00	ea	=	$75

TOTAL SPECIAL PROJECTS COST = $287

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $1,160

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project #	2	LENGTH improve	2.5 sta
ROAD	Pt. 23 to Pt. 24	(Unsurfaced)			

IMPROVEMENT

Sod Removal	2.5	sta	@	$15.40	/sta	=	$39
Re-open Landing	0.5	hrs	@	$128.00	/hr	=	$64
Shape subgrade (with road grader)	2.5	sta	@	$15.40	/sta	=	$39
Compact subgrade (with vibratory roller)	2.5	sta	@	$16.00	/sta	=	$40

TOTAL IMPROVEMENT = $182

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $182

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project # 2	LENGTH	improve	110.6 sta
ROAD	Pt. 25 to Pt. 26	(Surfaced/Unsurfaced)			

IMPROVEMENT

Re-open road (w/D6) (Sta.89+70 to Sta.102+60)	12.9	sta	@	$36.67	/sta	=	$473
Shape subgrade (with road grader)	12.9	sta	@	$20.63	/sta	=	$266
Compact subgrade (with vibratory roller)	12.9	sta	@	$16.00	/sta	=	$206
					TOTAL IMPROVEMENT =		$945

EXCAVATION With D6 dozer or equivalent

Construct road (Sta.102+60 to Pt. 26)	8.0	sta	@	$138.00	/sta	=	$1,104
Construct Landing (Pt.26)	1	Ldg	@	$438.00	/Ldg	=	$438
Shape subgrade (with road grader)	8.0	sta	@	$20.63	/sta	=	$165
Compact subgrade (with vibratory roller)	8.0	sta	@	$16.00	/sta	=	$128
					TOTAL EXCAVATION =		$1,835

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	3	culverts	@	$25.00	ea	=	$75
				TOTAL SPECIAL PROJECTS COST =			$75

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> **$2,855**

SUMMARY OF CONSTRUCTION COST

SALE	Grouse Bully Thin	Project # 2	LENGTH improve		92.0 sta
ROAD	Pt. 3 to Pt. 27	(Surfaced)	(Baber Ridge Road)		

IMPROVEMENT

Shape surface (with road grader)	92.0	sta	@	$20.63	/sta	=	$1,898
Compact surface (with vibratory roller)	92.0	sta	@	$16.00	/sta	=	$1,472

TOTAL IMPROVEMENT = $3,370

SURFACING

			Size	Cost/yd		
Spot Rock (S1) (Sta. 4+94 & Sta. 80+35)	30	cy of	1½"-0"	$4.52	=	$136

TOTAL ROCK COST = $136

Compiled by: McEwen
Date: Jun 1, 2022

GRAND TOTAL =====> $3,506

SUMMARY OF MAINTENANCE COST

SALE Grouse Bully Thin Final log haul Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Move-in	Grader	$	875
	Front-end Loader	$	875

Road Segment	Length	Cost/Sta	Cost	Mileage	Rock Type	Stockpile
Pt. 1 to Pt. 2	280.5	$20.63	$5,786.72	5.31	1½"-0"	(S3)
Pt. 3 to Pt. 4	18.0	$20.63	$371.34	0.34	3"-0"	(S2)
Pt. 5 to Pt. 6	5.2	$20.63	$107.28	0.10	3"-0"	(S2)
Pt. 3 to Pt. 7	2.1	$20.63	$43.32	0.04	3"-0"	(S2)
Pt. 10 to Pt. 11	46.8	$20.63	$965.48	0.89	1½"-0"	(S3)
Pt. 2 to Pt. 18	9.2	$20.63	$189.80	0.17	1½"-0"	(S3)
Pt. 19 to Pt. 20	57.0	$20.63	$1,175.91	1.08	1½"-0"	(S3)
Pt. 25 to Sta. 89+70	30.0	$20.63	$618.90	0.57	1½"-0"	(S3)
Total	448.8		$9,258.75	8.50		

INTERIM ROAD MAINTENANCE

Road Segment	Length	Cost/Sta	Cost	Mileage	Rock Type	Stockpile
Haul Route(s)	200.0	$20.63	$4,126.00	3.79	1½"-0"	(S3)
Total	200.0		$4,126.00	3.79		

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	300	$4.52	$1,356.00
3"-0"	50	$4.88	$244.00

Fuel Cost Increase		$	1,673.48
Grand Total		$	18,408.23
TS Volume	2,740 MBF		
Cost / MBF =			$6.72

NOTES:

Rock Haul Cost Computation

SALE NAME: Grouse Bully Thin DATE: Jun 1, 2022
ROAD NAME: All CLASS: Medium
ROCK SOURCE: 1.5" Stockpile 10 CY truck
Route: Deer Creek Ridge Road (S1) towards Pt. 11

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH		MRT	0.0	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH		MRT	0.0	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH		MRT	0.0	minutes
10.	10 MPH	1.2	MRT	7.2	minutes
11.	05 MPH	0.4	MRT	4.8	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		12.50	minutes
Operator efficiency correction	0.85	14.71	minutes
Job efficiency correction	0.90	16.34	minutes
Truck capacity (CY)	10.00	1.63	min/CY
Loading time, delay time per CY		0.75	min/CY
TIME (minutes) per cubic yard		2.38	min/CY

COST per CY computation

Cost of truck and operator per hour	$114.00	/hr.
Cost of truck and operator per minute	$1.90	/min
Cost per CY	$4.52	/CY
Spread and compact — Water truck, Grader & Roller	$1.50	/CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**	**Cost Delivered with processing**
1½" - 0"	$ -	$4.52	$6.02

Rock Haul Cost Computation

SALE NAME: Grouse Bully Thin — DATE: Jun 1, 2022
ROAD NAME: All — CLASS: Medium
ROCK SOURCE: 3" Stockpile — 10 CY truck
Route: Deer Camp Road (S2) to Pt. 5

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH		MRT	0.0	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH		MRT	0.0	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	1.4	MRT	5.6	minutes
10.	10 MPH	1.3	MRT	7.8	minutes
11.	05 MPH		MRT	0.0	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		13.90	minutes
Operator efficiency correction	0.85	16.35	minutes
Job efficiency correction	0.90	18.17	minutes
Truck capacity (CY)	10.00	1.82	min/CY
Loading time, delay time per CY		0.75	min/CY
TIME (minutes) per cubic yard		2.57	min/CY

COST per CY computation

Cost of truck and operator per hour	$114.00	/hr.
Cost of truck and operator per minute	$1.90	/min
Cost per CY	$4.88	/CY
Spread and compact — Water truck, Grader & Roller	$1.50	/CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**	**Cost Delivered with processing**
3" - 0"	$ -	$4.88	$6.38

Rock Haul Cost Computation

SALE NAME: Grouse Bully Thin DATE: Jun 1, 2022
ROAD NAME: All CLASS: Medium
ROCK SOURCE: 1.5" Stockpile 10 CY truck
Route: Wolf Cabin (S3) towards Pt. 20

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH		MRT	0.0	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH		MRT	0.0	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	1.7	MRT	6.8	minutes
10.	10 MPH	0.2	MRT	1.2	minutes
11.	05 MPH	0.1	MRT	1.2	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		9.70	minutes
Operator efficiency correction	0.85	11.41	minutes
Job efficiency correction	0.90	12.68	minutes
Truck capacity (CY)	10.00	1.27	min/CY
Loading time, delay time per CY		0.75	min/CY
TIME (minutes) per cubic yard		2.02	min/CY

COST per CY computation

Cost of truck and operator per hour	$114.00	/hr.
Cost of truck and operator per minute	$1.90	/min
Cost per CY	$3.84	/CY
Spread and compact — Water truck, Grader & Roller	$1.50	/CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**	**Cost Delivered with processing**
1½" - 0"	$ -	$3.84	$5.34

Rock Haul Cost Computation

SALE NAME: Grouse Bully Thin DATE: Jun 1, 2022
ROAD NAME: All CLASS: Medium
ROCK SOURCE: Rickard 10 CY truck
Route: Hwy 20, Salmon Creek, Wolf Creek, Baber Ridge, Deer Creek

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH	36.7	MRT	44.0	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH		MRT	0.0	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH	6.2	MRT	14.9	minutes
8.	20 MPH	2.0	MRT	6.0	minutes
9.	15 MPH		MRT	0.0	minutes
10.	10 MPH	1.8	MRT	10.8	minutes
11.	05 MPH		MRT	0.0	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		76.20	minutes
Operator efficiency correction	0.85	89.65	minutes
Job efficiency correction	0.90	99.61	minutes
Truck capacity (CY)	10.00	9.96	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		10.21	min/CY

COST per CY computation

Cost of truck and operator per hour	$114.00	/hr.
Cost of truck and operator per minute	$1.90	/min
Cost per CY	$19.40	/CY
Spread and compact — Water truck, Grader & Roller	$1.50	/CY

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
1½" - 0"	$ 12.83	$32.23	$33.73
3" - 0"	$ 10.46	$29.86	$31.36
Jaw-Run	$ 10.46	$29.86	$31.36
Pit-Run	$ 8.44	$27.84	$29.34

TIMBER CRUISE REPORT

Grouse Bully Thin
(WO-341-2023-W00901-01)
FY 2023

1. **Sale Area Location**: Portions of Section 25, 35 & 36, T11S, R9W, W.M., Lincoln County, Oregon.

2. **Fund Distribution:**
   a. **Fund** BOF 100%

3. **Sale Acreage by Area:**

Unit	Treatment	Gross Acres	Stream Buffers	Existing Roads	Non-stocked Acres	No Harvest Other	Net Sale Acres	Acreage Comp. Method
1	Partial Cut	63	4	2	--	10	47	GIS
2	Partial Cut	160	5	7	--	13	135	GIS
3	Partial Cut	83	3	4	3	--	73	GIS
4	Partial Cut	107	8	2	1	--	96	GIS

4. **Cruisers and Cruise Dates:** The sale was cruised by Leo Williamson, Zane Sandborg, Cody Valencia and Aaron McEwen in March & April 2022.

5. **Cruise Method and Computation:** The sale consists of four thinning units that were cruised using variable radius plot sampling. All Units were cruised on a 5 x 12 chain grid, using a 20 BAF. For all Units, a total of 64 plots were taken with 28 measure plots and 36 count plots.

   Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

   Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap GIS was used to determine gross and net acreage.

6. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 6 inches inside bark or to 40% of form factor. Diameters at breast height (DBH) were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

7. **Timber Description:** Timber in the Units 1, 3, and 4 includes 216 net acres of 33 to 35 year-old Douglas-fir. Unit 2 includes 135 net acres of 36 to 43 year-old Douglas-fir. The average Douglas-fir to be removed in Unit 1 is approximately 12 inches DBH, with an average height of 51 feet to a merchantable top. The average Douglas-fir to be removed in Units 2 and 3 are approximately 13 inches DBH, with an average height of 53 feet to a merchantable top. The average Douglas-fir to be removed in Unit 4 is approximately 11 inches DBH, with an average height of 42 feet to a merchantable top. The average volume per acre to be harvested (net) in Unit 1, 2, 3 and 4 is approximately 6.4 MBF, 9.3 MBF, 6.7 MBF, and 7.2 MBF respectively. Volume for Rights-of-Way and for indiscriminate tree removal inside cable corridors were added. Conifer trees other than Douglas-fir and all hardwoods are reserved from cutting, unless present in yarding corridors, Landings or between R/W tags.

8. **Statistical Analysis and Stand Summary:** (See attached "Statistics").

Unit	Target CV	Target SE	Actual CV	Actual SE
1	40%	13%	25.7%	7.1%
2	40%	13%	13.6%	3.1%
3	40%	13%	38.9%	11.2%
4	40%	13%	15.0%	3.7%

Note: Percentages are for net board foot volume.

9. **Total Volume (MBF) by Species and Grade:** (See attached volume report "Species, Sort Grade – Board Foot Volumes - Project").

Unit	Species	Gross Cruise Volume	R\W Removal (MBF)	Corridor Removal Acres	Corridor Removal Volume* (MBF)	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
1	DF	285	--	4	26	0%	(--)	3.0%	(9)	302
2	DF	1,280	4	7	65	7.1%	(91)	--	--	1,258
3	DF	476	--	5	36	4.7%	(22)	--	--	490
4	DF	647	11	8	58	4.0%	(26)	--	--	690
Total	--	2,688	15	24	185	--	(139)	--	--	2,740

*Based on the difference in volume between the avg. tree in the Unit and the avg. tree to be removed, multiplied by the trees per acre removed and total number of corridor acres.

Unit	Ave. DBH	Species	Net Vol.	2-Saw	3-Saw	4-Saw
1	12	DF	Grade %	--	83%	17%
			302	--	251	51
2	13	DF	Grade %	3%	79%	18%
			1,258	38	994	226
3	13	DF	Grade %	--	73%	27%
			490	--	358	132
4	11	DF	Grade %	--	79%	21%
			690	--	545	145
Total all Units			Grade %	1%	79%	20%
			2,740	38	2,148	554

Attachments: Cruise Design
Species, Sort Grade – Board Foot Volumes
Statistics
Stand Table Summary
Log Stock Table – MBF

Prepared by: _____ Date: _____

Unit Forester: Evelyn Hukari Date: 6/2/2022

Revised August, 2002

CRUISE DESIGN
WEST OREGON DISTRICT

Sale Name: Grouse Bully Thin **Area 1,2,3,4**

Harvest Type: PC
Approx. Cruise Acres: 351 **Estimated CV%** 45 Net BF /Acre **SE% Objective** _13_ Net BF /Acre

Planned Sale Volume: 2,808 MMBF **Estimated Sale Area Value/Acre:** $225

A. **Cruise Goals:** (a) Grade minimum __60____ conifer and ___10__ hardwood trees: (b) Sample __60__ cruise plots (20 grade: 40 count); (c) Other goals _X__ Determine log grades for sale value; _X_ Determine take and leave tree species and sizes.

(Special cruising directions – leave trees etc.) Take plots as shown on map. Do not take plots in buffers.

DO NOT RECORD 12', 22' and 32' (for Hardwoods).

DO NOT RECORD 22' LENGTHS.

B. **Cruise Design:**
1. **Plot Cruises:** BAF _20_ Full point
   Cruise Line Direction(s) 90/270
   Cruise Line Spacing 5/330 (chains) (feet)
   Cruise Plot Spacing 12/792 (chains) (feet)
   Grade/Count Ratio __1:2__

C. **Tree Measurements:**
1. **Diameter:** Minimum DBH to cruise is _8"__ for conifers and _10"_ for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

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

3. **Top Cruise Diameter (TCD):** Minimum top outside bark for conifer is _7"_, _7"_ for hardwoods or _40__ % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.

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

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

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

6. **Species, Sort, and Grade Codes:** A. Species: Record as DF (Douglas-fir); WH (Western hemlock); SS (Sitka Spruce); RC (Western red cedar); NF (Noble fir); SF (Silver fir); RA (Red alder); BM (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DFL, HL, CL, etc.)
   B. Sort: Use code "1" (Domestic).
   C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; K = Camp Run; 0 = Cull ;
   Hardwoods: K = Camprun; #1 Sawmill = 12"+ scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9"; #4 Sawmill = 6" and 7"

7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: Mark cruise line beginning points with red flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie red flagging above eye level near plot center and another red flagging around a sturdy wooden stake marking plot center. On red flagging, write the plot identification number. On "measure/grade" plots write the tree number and/or tree diameter on all measured trees (clockwise from the line direction) in yellow paint. Mark leave trees with an L for leave.
   ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.

9. **Cruising Equipment:** Relaskop, Rangefinder or Lazer, Logger's Tape (with dbh on back), Biltmore Stick, Compass, Cruise Cards or Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.

10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: Leo Williamson_____
Approved by: _____
Date: _____

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	A1	PC	47.00	14	126	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	14	126	9.0		
CRUISE	7	56	8.0	9,483	.6
DBH COUNT					
REFOREST					
COUNT	7	70	10.0		
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
DF-L	36	103.7	14.3	59	30.6	115.7	14,014	13,634	3,976	3,976
DF-T	12	73.4	11.5	51	15.6	52.9	6,067	6,067	1,731	1,731
R ALDER-L	7	22.0	9.1	37	3.3	10.0	1,043	1,043	267	267
SNAG	1	2.6	10.0	66	0.5	1.4				
TOTAL	*56*	*201.8*	*12.8*	*54*	*50.3*	*180.0*	*21,124*	*20,743*	*5,974*	*5,974*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF-L	47.8	8.0	140	152	164			
DF-T	24.3	7.3	79	85	91			
R ALDER-L			83	83	83			
SNAG								
TOTAL	*53.5*	*7.3*	*119*	*129*	*138*	*114*	*29*	*13*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF-L	45.9	7.6	41	45	48			
DF-T	24.8	7.5	23	24	26			
R ALDER-L			21	21	21			
SNAG								
TOTAL	*53.2*	*7.3*	*35*	*37*	*40*	*113*	*28*	*13*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	28.2	7.8	96	104	112			
DF-T	69.1	19.1	59	73	87			
R ALDER-L	223.3	61.9	8	22	36			
SNAG	374.2	103.6		3	5			
TOTAL	*27.6*	*7.6*	*186*	*202*	*217*	*33*	*8*	*4*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	21.6	6.0	109	116	123			
DF-T	70.6	19.5	43	53	63			
R ALDER-L	218.4	60.5	4	10	16			
SNAG	374.2	103.6		1	3			
TOTAL	*24.7*	*6.8*	*168*	*180*	*192*	*26*	*7*	*3*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	22.6	6.3	12,781	13,634	14,486			
DF-T	71.5	19.8	4,865	6,067	7,269			
R ALDER-L	235.2	65.1	363	1,043	1,722			
SNAG								

PROJECT STATISTICS

PROJECT GB THIN

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	A1	PC	47.00	14	126	1	W

CL 68.1 SD: 1.00	COEFF VAR.	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
TOTAL	*25.7*	*7.1*	*19,268*	*20,743*	*22,219*	*28*	*7*	*3*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	21.5	6.0	3,739	3,976	4,212			
DF-T	71.6	19.8	1,388	1,731	2,074			
R ALDER-L	221.5	61.4	103	267	432			
SNAG								
TOTAL	*25.4*	*7.0*	*5,554*	*5,974*	*6,394*	*28*	*7*	*3*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T11S R09W S25 TyPC 47.00

Project: GB THIN
Acres 47.00

Page 1
Date 4/19/2022
Time 3:39:21PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	L	DO CU														16	6		0.00	3.5
DF	L	DO 2M	13	1.7	1,843	1,811	85			100					100	40	12	210	1.37	8.6
DF	L	DO 3M	71	3.3	10,003	9,672	455		96	4				8	92	38	8	97	0.74	100.2
DF	L	DO 4M	16	.8	2,168	2,150	101	13	87			31	36	6	27	23	6	29	0.38	75.0
DF	**Totals**		66	2.7	14,014	13,634	641	2	82	16		5	6	7	83	32	7	73	0.67	187.2
DF	T	DO 3M	83		5,051	5,051	237		100						100	40	7	69	0.50	73.4
DF	T	DO 4M	17		1,016	1,016	48	18	82			72	28			17	6	19	0.30	53.4
DF	**Totals**		29		6,067	6,067	285	3	97			12	5		83	30	6	48	0.45	126.9
RA	L	DO CR	100		1,043	1,043	49		100				19	62	19	31	6	47	0.39	22.0
RA	**Totals**		5		1,043	1,043	49		100				19	62	19	31	6	47	0.39	22.0
Totals				1.8	21,124	20,743	975	2	87	10		7	6	8	80	31	7	62	0.57	336.1

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 4/19/2022

T11S R09W S25 TyPC 47.00

Project GB THIN
Acres 47.00

Time: 3:39:21PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF	L	9	1	86	64	7.276	3.21	7.28	12.0	50.0		87	364		41	17
DF	L	10	1	85	68	5.893	3.21	5.89	14.0	60.0		83	354		39	17
DF	L	13	9	86	86	31.384	28.93	52.31	15.3	50.7		802	2,650		377	125
DF	L	14	7	87	93	21.047	22.50	42.09	18.8	63.6		791	2,676		372	126
DF	L	15	4	86	103	10.477	12.86	20.95	23.9	87.5		500	1,833		235	86
DF	L	16	5	84	89	11.510	16.07	23.02	24.6	79.0		566	1,819		266	85
DF	L	17	1	86	106	2.039	3.21	4.08	32.0	115.0		131	469		61	22
DF	L	18	7	87	98	12.732	22.50	25.46	34.6	117.9		882	3,001		415	141
DF	L	21	1	88	105	1.336	3.21	2.67	50.0	175.0		134	468		63	22
DF	L	Totals	36	86	89	103.696	115.71	183.76	21.6	74.2		3,976	13,634		1,869	641
DF	T	10	1	88	96	8.076	4.40	16.15	9.0	35.0		145	565		68	27
DF	T	11	5	85	88	33.372	22.02	46.72	14.1	50.0		661	2,336		311	110
DF	T	12	4	86	96	22.433	17.62	44.87	13.4	45.0		600	2,019		282	95
DF	T	13	2	87	102	9.557	8.81	19.11	17.0	60.0		325	1,147		153	54
DF	T	Totals	12	86	93	73.438	52.86	126.85	13.6	47.8		1,731	6,067		814	285
RA	L	9	6	86	77	19.402	8.57	19.40	12.2	48.3		236	938		111	44
RA	L	10	1	86	50	2.619	1.43	2.62	12.0	40.0		31	105		15	5
RA	L	Totals	7	86	73	22.021	10.00	22.02	12.1	47.3		267	1,043		126	49
SN		10	1	99	66	2.619	1.43									
SN		Totals	1	99	66	2.619	1.43									
Totals			56	86	88	201.775	180.00	332.64	18.0	62.4		5,974	20,743		2,808	975

TC PLOGSTVB

Log Stock Table - MBF

T11S R09W S25 TyPC 47.00

Project: GB THIN
Acres 47.00

Page 1
Date 4/19/2022
Time 3:39:20PM

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	87	1.7	85	13.3						68		18				
DF	L	DO	3M	32	41	7.9	38	6.0			7	31								
DF	L	DO	3M	36	44	11.9	39	6.0			39									
DF	L	DO	3M	40	385	1.8	378	58.9			21	224	116	16						
DF	L	DO	4M	12	5		5	.7		2	3									
DF	L	DO	4M	16	10		10	1.5			10									
DF	L	DO	4M	20	16		16	2.6		5	11									
DF	L	DO	4M	24	24		24	3.7			24									
DF	L	DO	4M	30	13	6.4	13	2.0		3	10									
DF	L	DO	4M	32	6		6	1.0			6									
DF	L	DO	4M	36	27		27	4.3		3	24									
DF		Totals			659	2.7	641	65.7		13	155	255	116	84	18					
DF	T	DO	3M	40	237		237	83.2			197	40								
DF	T	DO	4M	12	7		7	2.4		3	4									
DF	T	DO	4M	16	22		22	7.7		5	17									
DF	T	DO	4M	20	5		5	1.8			5									
DF	T	DO	4M	24	13		13	4.7			13									
DF		Totals			285		285	29.2		8	236	40								
RA	L	DO	CR	24	5		5	10.0			5									
RA	L	DO	CR	28	5		5	9.3			5									
RA	L	DO	CR	32	30		30	62.0			30									
RA	L	DO	CR	36	9		9	18.6			9									
RA		Totals			49		49	5.0			49									
Total		All Species			993	1.8	975	100.0		21	440	296	116	84	18					

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	A2A	PC	135.00	20	227	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	20	227	11.4		
CRUISE	8	92	11.5	25,012	.4
DBH COUNT					
REFOREST					
COUNT	12	135	11.3		
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
DF-L	55	79.2	17.7	78	32.1	135.0	19,843	19,291	5,452	5,452
DF-T	31	82.6	12.9	56	20.9	75.0	9,481	8,804	2,605	2,605
SNAG	4	15.4	10.3	58	2.8	9.0				
R ALDER-L	2	8.1	13.5	51	2.2	8.0	702	702	226	226
TOTAL	*92*	*185.3*	*15.0*	*65*	*58.6*	*227.0*	*30,025*	*28,797*	*8,283*	*8,283*

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
DF-L	47.2	6.4	259	276	294			
DF-T	60.1	10.8	109	122	135			
SNAG								
R ALDER-L	41.6	38.9	52	85	118			
TOTAL	*67.0*	*7.0*	*194*	*208*	*223*	*179*	*45*	*20*

CL 68.1	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-L	42.3	5.7	73	78	82			
DF-T	52.8	9.5	34	37	41			
SNAG								
R ALDER-L	33.4	31.3	19	28	36			
TOTAL	*61.0*	*6.4*	*56*	*60*	*63*	*148*	*37*	*16*

CL 68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-L	13.5	3.1	77	79	82			
DF-T	57.8	13.3	72	83	94			
SNAG	166.8	38.2	10	15	21			
R ALDER-L	205.3	47.1	4	8	12			
TOTAL	*34.5*	*7.9*	*171*	*185*	*200*	*50*	*12*	*6*

CL 68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-L	6.6	1.5	133	135	137			
DF-T	54.6	12.5	66	75	84			
SNAG	168.7	38.7	6	9	12			
R ALDER-L	205.2	47.0	4	8	12			
TOTAL	*18.6*	*4.3*	*217*	*227*	*237*	*15*	*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
DF-L	10.1	2.3	18,843	19,291	19,739			
DF-T	50.1	11.5	7,794	8,804	9,814			
SNAG								
R ALDER-L	207.3	47.5	368	702	1,035			

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	A2A	PC	135.00	20	227	1	W

CL 68.1			NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.00	COEFF VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*13.6*	*3.1*	*27,896*	*28,797*	*29,698*	*8*	*2*	*1*

CL 68.1			NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF-L	7.9	1.8	5,353	5,452	5,551			
DF-T	51.3	11.8	2,298	2,605	2,912			
SNAG								
R ALDER-L	206.7	47.4	119	226	333			
TOTAL	*13.0*	*3.0*	*8,037*	*8,283*	*8,530*	*7*	*2*	*1*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T11S R09W S25 TyPC 135.00

Project: GB THIN
Acres 135.00

Page 1
Date 4/19/2022
Time 3:40:52PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	L	DO 2M	37	3.0	7,494	7,268	981			83	17		2		98	39	13	244	1.64	29.8
DF	L	DO 3M	57	2.9	11,292	10,967	1,481		96	4			2	11	88	38	8	106	0.80	103.8
DF	L	DO 4M	6		1,056	1,056	143	34	66			28	48	14	10	23	6	27	0.39	39.5
DF	**Totals**		67	2.8	19,843	19,291	2,604	2	58	34	6	2	4	7	87	35	9	111	0.90	173.2
DF	T	DO 2M	3	3.4	322	311	42			100					100	40	14	280	1.67	1.1
DF	T	DO 3M	79	8.5	7,562	6,919	934		100					6	94	39	8	81	0.63	85.3
DF	T	DO 4M	18	1.4	1,597	1,574	213	24	76			22	47	24	7	24	6	29	0.35	53.8
DF	**Totals**		31	7.1	9,481	8,804	1,189	4	92	4		4	8	9	78	33	7	63	0.56	140.2
RA	L	DO CR	100		702	702	95		100			12			88	30	7	57	0.60	12.4
RA	**Totals**		2		702	702	95		100			12			88	30	7	57	0.60	12.4
Totals				4.1	30,025	28,797	3,888	3	69	24	4	3	6	7	85	34	8	88	0.75	325.8

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 4/19/2022

T11S R09W S25 TyPC 135.00

Project GB THIN
Acres 135.00

Time: 3:40:53PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF	L	15	13	88	101	26.002	31.91	52.00	23.8	88.8		1,240	4,620		1,674	624
DF	L	16	7	85	110	12.306	17.18	28.13	24.9	86.9		701	2,444		947	330
DF	L	17	7	87	104	10.900	17.18	23.36	29.8	105.3		696	2,460		940	332
DF	L	18	6	86	105	8.334	14.73	18.06	32.7	106.9		590	1,931		797	261
DF	L	19	4	87	106	4.987	9.82	11.22	35.7	117.8		400	1,321		540	178
DF	L	20	5	86	111	5.625	12.27	14.63	35.1	122.3		513	1,789		693	241
DF	L	21	4	87	110	4.082	9.82	9.18	45.1	158.9		414	1,459		559	197
DF	L	22	3	84	95	2.789	7.36	5.58	49.3	161.7		275	902		372	122
DF	L	23	1	89	113	.851	2.45	2.55	43.0	176.7		110	451		148	61
DF	L	24	1	83	106	.781	2.45	1.56	62.5	195.0		98	305		132	41
DF	L	25	1	87	118	.720	2.45	2.16	51.3	203.3		111	439		150	59
DF	L	26	1	86	103	.666	2.45	1.33	73.0	275.0		97	366		131	49
DF	L	28	2	86	110	1.148	4.91	3.44	59.8	233.3		206	804		278	108
DF	L	Totals	55	87	105	79.191	135.00	173.21	31.5	111.4		5,452	19,291		7,360	2,604
DF	T	10	3	88	85	13.307	7.26	17.74	12.8	52.5		226	932		305	126
DF	T	11	5	85	81	18.330	12.10	25.66	13.7	47.1		352	1,210		475	163
DF	T	12	3	87	79	9.241	7.26	12.32	17.2	57.5		213	708		287	96
DF	T	13	5	88	103	13.124	12.10	26.25	18.1	64.0		475	1,680		641	227
DF	T	14	7	88	95	15.842	16.94	31.68	19.4	65.7		613	2,082		828	281
DF	T	15	2	87	104	3.943	4.84	7.89	23.8	70.0		187	552		253	75
DF	T	16	3	86	89	5.198	7.26	10.40	24.2	73.3		251	762		339	103
DF	T	18	1	86	95	1.369	2.42	2.74	32.5	110.0		89	301		120	41
DF	T	20	2	84	105	2.218	4.84	5.54	35.8	104.0		199	577		268	78
DF	T	Totals	31	87	90	82.572	75.00	140.22	18.6	62.8		2,605	8,804		3,517	1,189
RA	L	13	1	86	87	4.340	4.00	8.68	17.0	55.0		148	477		199	64
RA	L	14	1	87	70	3.742	4.00	3.74	21.0	60.0		79	225		106	30
RA	L	Totals	2	86	79	8.081	8.00	12.42	18.2	56.5		226	702		305	95
SN		9	2	98	54	10.186	4.50									
SN		11	1	98	80	3.409	2.25									
SN		15	1	99	38	1.833	2.25									
SN		Totals	4	98	58	15.429	9.00									
Totals			92	88	93	185.273	227.00	325.85	25.4	88.4		8,283	28,797		11,183	3,888

TC PLOGSTVB

Log Stock Table - MBF

T11S R09W S25 TyPC 135.00

Project: GB THIN
Acres 135.00

Page 1
Date 4/19/2022
Time 3:40:52PM

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	26	24	7.7	23	.9						23						
DF	L	DO	2M	38	109	7.1	102	3.9						68	34					
DF	L	DO	2M	40	878	2.4	857	32.9						455	191	211				
DF	L	DO	3M	26	26	9.1	24	.9					24							
DF	L	DO	3M	32	164	5.0	156	6.0			57	75	24							
DF	L	DO	3M	36	29	9.4	26	1.0			26									
DF	L	DO	3M	38	42		42	1.6			25	17								
DF	L	DO	3M	40	1,263	2.4	1,232	47.3			185	237	747	30	34					
DF	L	DO	4M	12	6		6	.2		1	5									
DF	L	DO	4M	16	22		22	.8			22									
DF	L	DO	4M	18	5		5	.2			5									
DF	L	DO	4M	20	7		7	.3		2	5									
DF	L	DO	4M	22	8		8	.3			8									
DF	L	DO	4M	24	8		8	.3			8									
DF	L	DO	4M	26	22		22	.8			22									
DF	L	DO	4M	28	8		8	.3		8										
DF	L	DO	4M	30	23		23	.9		23										
DF	L	DO	4M	32	20		20	.8		14	6									
DF	L	DO	4M	36	14		14	.5			14									
DF		Totals			2,679	2.8	2,604	67.0		48	388	328	794	576	258	211				
DF	T	DO	2M	40	43	3.4	42	3.5							42					
DF	T	DO	3M	32	60		60	5.0			60									
DF	T	DO	3M	36	71	16.7	59	5.0			59									
DF	T	DO	3M	40	890	8.4	815	68.6			202	469	145							
DF	T	DO	4M	12	3		3	.3			3									
DF	T	DO	4M	16	30		30	2.5		12	18									
DF	T	DO	4M	20	14		14	1.2			14									
DF	T	DO	4M	24	57		57	4.8			57									
DF	T	DO	4M	26	12		12	1.0			12									
DF	T	DO	4M	28	19		19	1.6		19										
DF	T	DO	4M	30	11		11	.9		11										
DF	T	DO	4M	32	51		51	4.3		9	42									
DF	T	DO	4M	36	18	16.7	15	1.3			15									
DF		Totals			1,280	7.1	1,189	30.6		51	482	469	145		42					
RA	L	DO	CR	16	12		12	12.4			12									

TC PLOGSTVB

Log Stock Table - MBF

T11S R09W S25 TyPC 135.00

Project: GB THIN
Acres 135.00

Date 4/19/2022
Time 3:40:52PM

Spp	ST	Sort	Grade	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	DO	CR	36	30		30	32.0			30									
RA	L	DO	CR	40	53		53	55.6				53								
RA		Totals			95		95	2.4			42	53								
Total		All Species			4,053	4.1	3,888	100.0		99	912	850	939	576	300	211				

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

PAGE 1
DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	A2B~~3~~	PC	73.00	13	124	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	13	124	9.5		
CRUISE	5	32	6.4	12,419	.3
DBH COUNT					
REFOREST					
COUNT	8	86	10.8		
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
DF-L	20	97.0	14.7	58	29.7	113.8	13,959	13,546	4,004	4,004
DF-T	6	65.3	12.8	48	16.3	58.5	6,522	6,214	1,838	1,838
WHEMLOCK-L	5	5.9	15.5	51	2.0	7.7	796	789	245	245
BL MAPLE-L	1	2.0	12.0	29	0.4	1.5				
TOTAL	*32*	*170.1*	*14.0*	*54*	*48.5*	*181.5*	*21,277*	*20,549*	*6,088*	*6,088*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF-L	42.3	9.7	157	174	191			
DF-T	45.9	20.4	93	117	141			
WHEMLOCK-L	45.8	22.8	130	168	206			
BL MAPLE-L								
TOTAL	*48.8*	*8.6*	*143*	*157*	*170*	*95*	*24*	*11*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF-L	45.1	10.3	47	52	57			
DF-T	46.6	20.7	28	35	42			
WHEMLOCK-L	48.4	24.1	40	53	66			
BL MAPLE-L								
TOTAL	*51.0*	*9.0*	*43*	*47*	*52*	*104*	*26*	*12*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	35.7	10.3	87	97	107			
DF-T	89.9	25.9	48	65	82			
WHEMLOCK-L	360.6	103.9		6	12			
BL MAPLE-L	360.6	103.9		2	4			
TOTAL	*39.4*	*11.4*	*151*	*170*	*189*	*67*	*17*	*7*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	35.4	10.2	102	114	125			
DF-T	93.1	26.8	43	58	74			
WHEMLOCK-L	360.6	103.9		8	16			
BL MAPLE-L	360.6	103.9		2	3			
TOTAL	*37.5*	*10.8*	*162*	*182*	*201*	*61*	*15*	*7*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	35.5	10.2	12,160	13,546	14,932			
DF-T	94.8	27.3	4,516	6,214	7,911			
WHEMLOCK-L	360.6	103.9		789	1,610			
BL MAPLE-L								

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	A2B	PC	73.00	13	124	1	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	*38.9*	*11.2*	*18,248*	*20,549*	*22,850*	*65*	*16*	*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
DF-L	36.0	10.4	3,588	4,004	4,420			
DF-T	95.4	27.5	1,332	1,838	2,344			
WHEMLOCK-L	360.6	103.9		245	501			
BL MAPLE-L								
TOTAL	*39.1*	*11.3*	*5,402*	*6,088*	*6,774*	*66*	*17*	*7*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T11S R09W S25 TyPC 73.00

Project: GB THIN
Acres 73.00

Page 1
Date 4/19/2022
Time 3:42:38PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	L	DO 2M	19	5.1	2,759	2,617	191			100				37	63	36	12	184	1.53	14.2
DF	L	DO 3M	67	2.5	9,374	9,143	667		100					6	94	39	8	103	0.77	88.4
DF	L	DO 4M	14	2.2	1,826	1,786	130	32	68			38	53	9		22	6	26	0.37	69.4
DF	**Totals**		66	3.0	13,959	13,546	989	4	76	19		5	7	13	75	32	8	79	0.73	172.1
DF	T	DO 3M	73	4.8	4,802	4,574	334		100						100	40	9	106	0.78	43.2
DF	T	DO 4M	27	4.6	1,719	1,640	120	48	52			26	55	19		22	5	25	0.35	65.3
DF	**Totals**		30	4.7	6,522	6,214	454	13	87			7	14	5	74	29	7	57	0.58	108.5
WH	L	DO 2M	38	2.3	310	303	22			100					100	40	13	215	1.59	1.4
WH	L	DO 3M	52		408	408	30		100				34		66	37	8	92	0.73	4.5
WH	L	DO 4M	10		78	78	6		100			73	27			19	6	22	0.50	3.5
WH	**Totals**		4	.9	796	789	58		62	38		7	20		73	31	8	84	0.84	9.4
Totals				3.4	21,277	20,549	1,500	7	79	14		6	10	10	75	31	7	71	0.68	289.9

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 4/19/2022

T11S R09W S25 TyPC 73.00

Project GB THIN
Acres 73.00

Time: 3:42:39PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF	L	8	1	85	52	16.307	5.69	16.31	5.0	20.0		82	326		60	24
DF	L	11	1	78	58	8.625	5.69	8.63	19.0	60.0		164	518		120	38
DF	L	13	2	91	104	12.351	11.38	24.70	19.0	72.5		469	1,791		343	131
DF	L	14	1	88	75	5.325	5.69	10.65	15.5	50.0		165	532		121	39
DF	L	15	2	85	83	9.277	11.38	18.55	19.8	60.0		366	1,113		268	81
DF	L	16	6	86	94	24.461	34.15	48.92	25.9	90.0		1,268	4,403		926	321
DF	L	17	1	83	102	3.611	5.69	7.22	30.0	100.0		217	722		158	53
DF	L	18	2	82	106	6.442	11.38	12.88	34.5	110.0		445	1,417		325	103
DF	L	19	3	84	110	8.673	17.08	20.24	30.1	101.4		610	2,053		445	150
DF	L	23	1	83	101	1.973	5.69	3.95	55.5	170.0		219	671		160	49
DF	L	Totals	20	85	86	97.046	113.85	172.05	23.3	78.7		4,004	13,546		2,923	989
DF	T	9	1	87	44	22.055	9.74	22.05	7.0	30.0		154	662		113	48
DF	T	12	1	88	83	12.406	9.74	24.81	12.0	40.0		298	992		217	72
DF	T	15	3	87	94	23.819	29.23	47.64	22.5	76.7		1,072	3,652		782	267
DF	T	16	1	86	85	6.978	9.74	13.96	22.5	65.0		314	907		229	66
DF	T	Totals	6	87	74	65.259	58.46	108.46	16.9	57.3		1,838	6,214		1,342	454
WH	L	11	1	86	75	2.331	1.54	2.33	19.0	60.0		44	140		32	10
WH	L	15	1	92	63	1.254	1.54	2.51	17.0	65.0		43	163		31	12
WH	L	18	1	84	77	.871	1.54	1.74	29.5	85.0		51	148		37	11
WH	L	20	2	88	79	1.410	3.08	2.82	38.0	120.0		107	338		78	25
WH	L	Totals	5	87	74	5.866	7.69	9.40	26.1	84.0		245	789		179	58
BM	L	12	1	87	48	1.959	1.54									
BM	L	Totals	1	87	48	1.959	1.54									
Totals			32	86	80	170.129	181.54	289.91	21.0	70.9		6,088	20,549		4,444	1,500

TC PLOGSTVB

Log Stock Table - MBF

T11S R09W S25 TyPC 73.00

Project: GB THIN
Acres 73.00

Page 1
Date 4/19/2022
Time 3:42:38PM

Spp	ST	Sort	Grade	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	32	75	6.3	71	7.1						71						
DF	L	DO	2M	40	126	4.5	121	12.2						80	40					
DF	L	DO	3M	32	28		28	2.8			13	15								
DF	L	DO	3M	34	15		15	1.5			15									
DF	L	DO	3M	36	31		31	3.1				31								
DF	L	DO	3M	40	610	2.8	594	60.0			92	204	297							
DF	L	DO	4M	16	26		26	2.6		4	21									
DF	L	DO	4M	20	24		24	2.4		24										
DF	L	DO	4M	24	42		42	4.3			42									
DF	L	DO	4M	26	14		14	1.4			14									
DF	L	DO	4M	30	14		14	1.4		14										
DF	L	DO	4M	32	15	20.0	12	1.2			12									
DF		Totals			1,019	3.0	989	65.9		42	209	250	297	151	40					
DF	T	DO	3M	40	351	4.8	334	73.6			63	189	81							
DF	T	DO	4M	12	9		9	2.0		9										
DF	T	DO	4M	20	22		22	4.8			22									
DF	T	DO	4M	24	66		66	14.5		48	17									
DF	T	DO	4M	32	29	20.0	23	5.1			23									
DF		Totals			476	4.7	454	30.2		57	126	189	81							
WH	L	DO	2M	40	23	2.3	22	38.4						22						
WH	L	DO	3M	30	10		10	17.5					10							
WH	L	DO	3M	40	20		20	34.3			10		10							
WH	L	DO	4M	16	2		2	3.2			2									
WH	L	DO	4M	20	2		2	4.0			2									
WH	L	DO	4M	24	2		2	2.7			2									
WH		Totals			58		58	3.8			16		20	22						
Total		All Species			1,553	3.4	1,500	100.0		99	350	439	398	173	40					

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	130A3 4	PC	96.00	17	169	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	17	169	9.9		
CRUISE	8	57	7.1	20,682	.3
DBH COUNT					
REFOREST					
COUNT	9	95	10.6		
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
DF-L	37	112.2	14.5	59	33.9	129.4	15,542	15,059	4,525	4,525
DF-T	18	94.6	11.3	42	19.6	65.9	6,740	6,470	1,879	1,879
R ALDER-L	1	5.3	9.0	36	0.8	2.4	266	266	64	64
BL MAPLE-L	1	3.4	8.0	30	0.4	1.2	67	67	24	24
TOTAL	*57*	*215.4*	*13.0*	*50*	*55.1*	*198.8*	*22,616*	*21,863*	*6,491*	*6,491*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF-L	39.2	6.4	141	151	161			
DF-T	42.2	10.2	70	78	86			
R ALDER-L								
BL MAPLE-L								
TOTAL	*51.3*	*6.8*	*115*	*124*	*132*	*105*	*26*	*12*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF-L	38.7	6.4	43	46	49			
DF-T	43.3	10.5	20	23	25			
R ALDER-L								
BL MAPLE-L								
TOTAL	*51.8*	*6.9*	*35*	*37*	*40*	*107*	*27*	*12*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	16.4	4.1	108	112	117			
DF-T	66.2	16.5	79	95	110			
R ALDER-L	282.3	70.5	2	5	9			
BL MAPLE-L	412.3	103.0		3	7			
TOTAL	*18.8*	*4.7*	*205*	*215*	*226*	*15*	*4*	*2*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	9.6	2.4	126	129	133			
DF-T	66.0	16.5	55	66	77			
R ALDER-L	282.3	70.5	1	2	4			
BL MAPLE-L	412.3	103.0		1	2			
TOTAL	*16.1*	*4.0*	*191*	*199*	*207*	*11*	*3*	*1*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF-L	11.4	2.8	14,632	15,059	15,486			
DF-T	66.7	16.7	5,393	6,470	7,548			
R ALDER-L	282.3	70.5	79	266	454			
BL MAPLE-L	412.3	103.0		67	137			

TC PSTATS

PROJECT STATISTICS

PROJECT GB THIN

DATE 4/19/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	09	25	130A3	PC	96.00	17	169	1	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	*15.0*	*3.7*	*21,045*	*21,863*	*22,681*	*10*	*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
DF-L	10.5	2.6	4,407	4,525	4,643			
DF-T	66.8	16.7	1,565	1,879	2,192			
R ALDER-L	282.3	70.5	19	64	109			
BL MAPLE-L	412.3	103.0		24	48			
TOTAL	*15.0*	*3.8*	*6,247*	*6,491*	*6,735*	*10*	*2*	*1*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T11S R09W S25 TyPC 96.00

Project: GB THIN
Acres 96.00

Date 4/19/2022
Time 3:35:51PM

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	L	DO 2M	11	1.5	1,706	1,681	161			100		13			87	35	12	177	1.40	9.5
DF	L	DO 3M	74	3.4	11,643	11,246	1,080		100				2	15	83	38	8	93	0.75	120.7
DF	L	DO 4M	14	2.9	2,118	2,056	197	38	62			54	43	3		21	6	24	0.36	86.4
DF	L	20 4M	1		76	76	7	100				100				16	5	20	0.31	3.8
DF	**Totals**		69	3.1	15,542	15,059	1,446	6	83	11		9	8	11	72	31	7	68	0.67	220.4
DF	T	DO 3M	79	5.0	5,386	5,116	491		100					27	73	37	7	67	0.53	75.8
DF	T	DO 4M	21		1,354	1,354	130	66	34			72	28			19	5	23	0.31	60.1
DF	**Totals**		30	4.0	6,740	6,470	621	14	86			15	6	22	57	29	6	48	0.47	135.9
RA	L	DO CR	100		266	266	26		100					100		32	6	50	0.37	5.3
RA	**Totals**		1		266	266	26		100					100		32	6	50	0.37	5.3
BM	L	DO CR	100		67	67	6		100			100				20	6	20	0.35	3.4
BM	**Totals**		0		67	67	6		100			100				20	6	20	0.35	3.4
Totals				3.3	22,616	21,863	2,099	8	84	8		11	7	15	66	30	7	60	0.59	365.1

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 4/19/2022

T11S R09W S25 TyPC 96.00

Project GB THIN
Acres 96.00

Time: 3:35:52PM
Grown Year:

Spe	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF	L	10	1	86	78	6.413	3.50	6.41	15.0	60.0		96	385		92	37
DF	L	11	1	85	87	5.300	3.50	10.60	9.5	40.0		101	424		97	41
DF	L	12	2	82	84	8.907	7.00	17.81	12.5	40.0		223	713		214	68
DF	L	13	7	84	88	26.562	24.48	53.12	15.4	50.0		816	2,656		783	255
DF	L	14	5	87	93	16.359	17.49	32.72	18.7	64.0		612	2,094		587	201
DF	L	15	6	87	89	17.101	20.99	34.20	21.8	71.7		747	2,451		717	235
DF	L	16	3	88	90	7.515	10.49	17.53	21.1	68.6		371	1,202		356	115
DF	L	17	5	86	91	11.095	17.49	22.19	28.5	93.0		632	2,064		607	198
DF	L	18	4	86	95	7.917	13.99	15.83	33.5	112.5		530	1,781		509	171
DF	L	19	2	87	92	3.553	7.00	7.11	36.5	120.0		259	853		249	82
DF	L	21	1	85	101	1.454	3.50	2.91	47.5	150.0		138	436		133	42
DF	L	Totals	37	86	89	112.174	129.41	220.44	20.5	68.3		4,525	15,059		4,344	1,446
DF	T	8	1	87	44	10.486	3.66	10.49	5.0	20.0		52	210		50	20
DF	T	9	1	81	52	8.285	3.66	8.28	9.0	30.0		75	249		72	24
DF	T	10	1	87	74	6.711	3.66	6.71	15.0	60.0		101	403		97	39
DF	T	11	7	86	77	38.822	25.62	49.91	13.9	48.9		693	2,440		666	234
DF	T	12	1	86	80	4.660	3.66	9.32	12.0	45.0		112	419		107	40
DF	T	13	3	88	80	11.913	10.98	23.83	14.7	45.0		349	1,072		335	103
DF	T	14	4	87	89	13.695	14.64	27.39	18.1	61.3		496	1,678		477	161
DF	T	Totals	18	86	73	94.572	65.88	135.93	13.8	47.6		1,879	6,470		1,803	621
RA	L	9	1	86	72	5.326	2.35	5.33	12.0	50.0		64	266		61	26
RA	L	Totals	1	86	72	5.326	2.35	5.33	12.0	50.0		64	266		61	26
BM	L	8	1	86	60	3.370	1.18	3.37	7.0	20.0		24	67		23	6
BM	L	Totals	1	86	60	3.370	1.18	3.37	7.0	20.0		24	67		23	6
Totals			57	86	81	215.442	198.82	365.07	17.8	59.9		6,491	21,863		6,232	2,099

TC PLOGSTVB

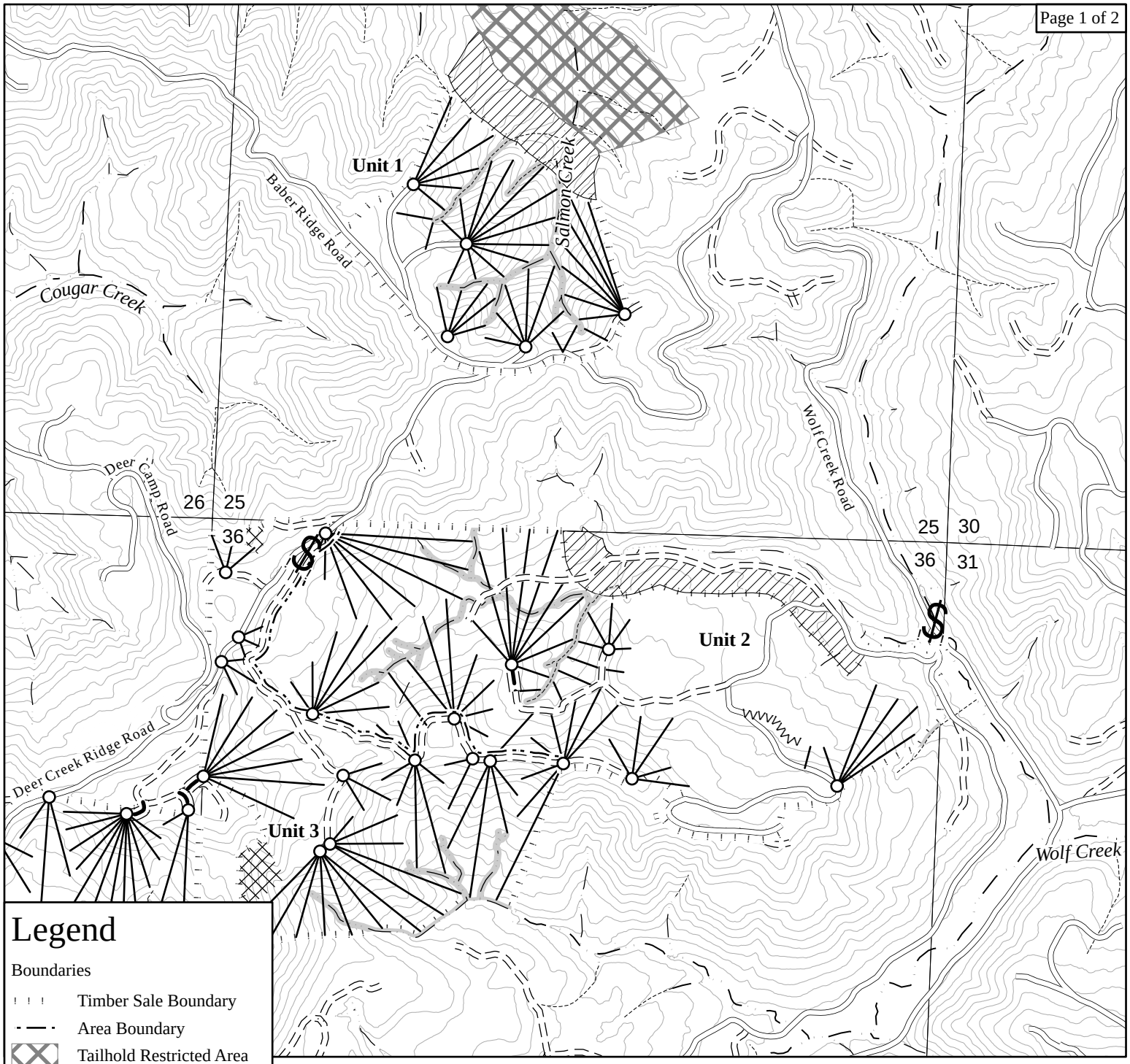
Log Stock Table - MBF

T11S R09W S25 TyPC 96.00

Project: GB THIN
Acres 96.00

Page 1
Date 4/19/2022
Time 3:35:51PM

Spp	ST	Sort	Grade	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	20	24	10.0	22	1.5						22						
DF	L	DO	2M	40	140		140	9.7						140						
DF	L	DO	3M	30	26		26	1.8				26								
DF	L	DO	3M	32	153	3.1	148	10.2			106	42								
DF	L	DO	3M	34	9		9	.6			9									
DF	L	DO	3M	38	11		11	.8			11									
DF	L	DO	3M	40	919	3.6	886	61.3			122	427	337							
DF	L	DO	4M	16	70		70	4.8		39	31									
DF	L	DO	4M	20	37		37	2.6		25	12									
DF	L	DO	4M	22	16		16	1.1			16									
DF	L	DO	4M	24	30		30	2.1			30									
DF	L	DO	4M	28	12		12	.9			12									
DF	L	DO	4M	30	28	7.6	26	1.8		11	15									
DF	L	DO	4M	32	10	40.0	6	.4			6									
DF	L	20	4M	16	7		7	.5		7										
DF		Totals			1,492	3.1	1,446	68.9		83	369	495	337	161						
DF	T	DO	3M	32	156	14.1	134	21.6			53	81								
DF	T	DO	3M	40	361	1.1	357	57.5			198	159								
DF	T	DO	4M	16	59		59	9.4		35	23									
DF	T	DO	4M	20	34		34	5.5		27	8									
DF	T	DO	4M	26	24		24	3.8		24										
DF	T	DO	4M	30	13		13	2.1			13									
DF		Totals			647	4.0	621	29.6		86	296	240								
RA	L	DO	CR	32	26		26	100.0			26									
RA		Totals			26		26	1.2			26									
BM	L	DO	CR	20	6		6	100.0			6									
BM		Totals			6		6	.3			6									
Total		All Species			2,171	3.3	2,099	100.0		169	697	734	337	161						



LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2023-W00901-01
GROUSE BULLY THIN
PORTIONS OF SECTIONS 25, 35 & 36, T11S, R09W, W.M.,
LINCOLN COUNTY, OREGON

UNIT	TRACTOR ACRES	CABLE ACRES
1 (PC)	7	40
2 (PC)	53	82
3 (PC)	13	60
4 (PC)	8	88
TOTAL	81	270

Legend

Boundaries
- Timber Sale Boundary
- Area Boundary
- Tailhold Restricted Area
- Non-Harvest-Other
- Non-posted Stream Buffer
- Partial Cut Not Required

Roads
- Surfaced Road
- Unsurfaced Road
- Old Roadbed, Undrivable
- New Construction

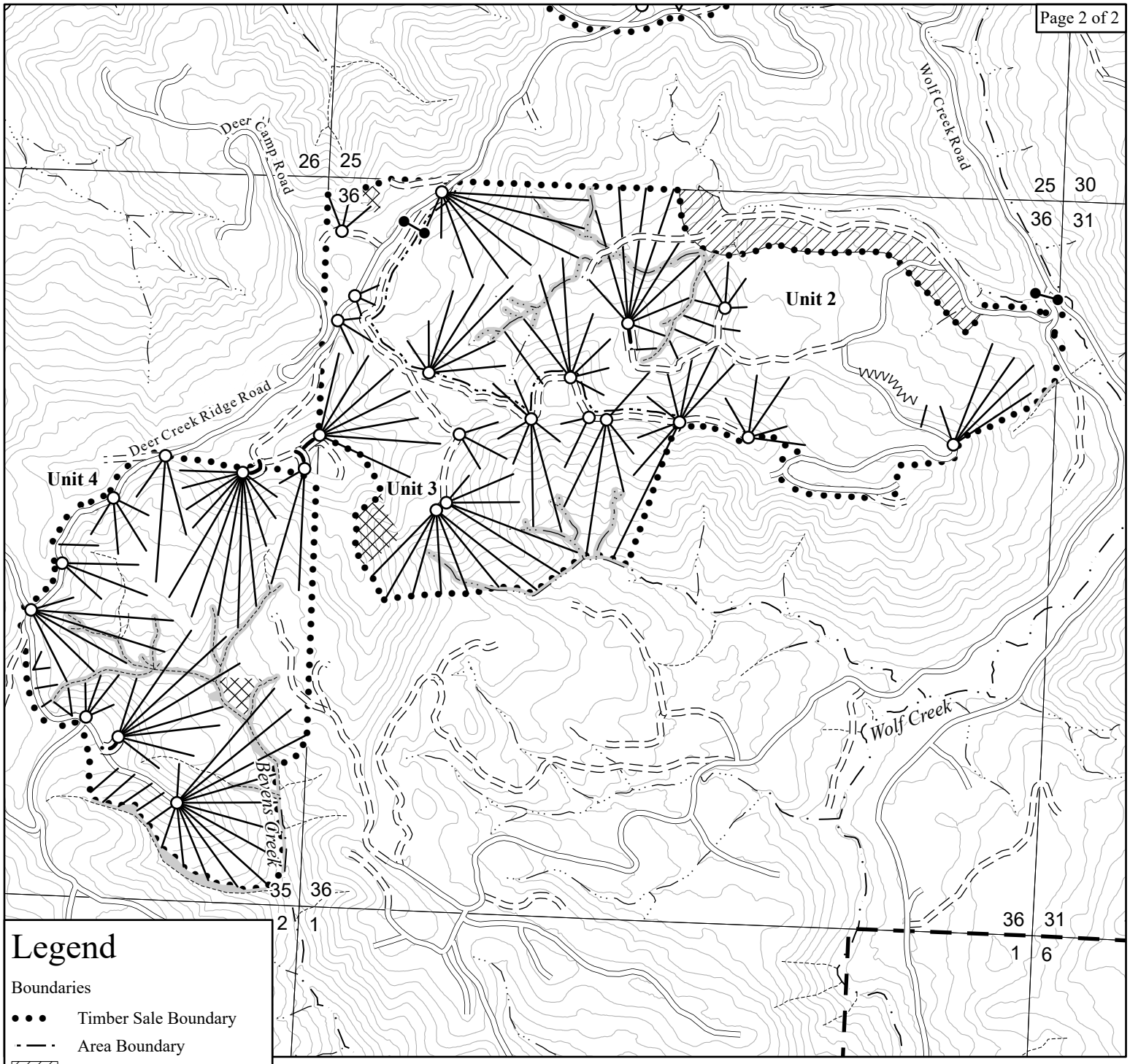
Streams
- Type F Stream
- Type N Stream
- Unknown Stream

- Landing
- Cable Corridor
- Gate

1:12,000

650 325 0 650 1,300 1,950 2,600 Feet

06/23/2022



LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2023-W00901-01
GROUSE BULLY THIN
PORTIONS OF SECTIONS 25, 35 & 36, T11S, R09W, W.M.,
LINCOLN COUNTY, OREGON

UNIT	TRACTOR ACRES	CABLE ACRES
1 (PC)	7	40
2 (PC)	53	82
3 (PC)	13	60
4 (PC)	8	88
TOTAL	81	270

Legend

Boundaries
- Timber Sale Boundary
- Area Boundary
- Non-Harvest-Other
- Non-posted Stream Buffer
- Partial Cut Not Required

Roads
- Surfaced Road
- Unsurfaced Road
- Old Roadbed, Undrivable
- New Construction

Streams
- Type F Stream
- Type N Stream
- Unknown Stream

- Landing
- Cable Corridor
- Gate

1:12,000

650 325 0 650 1,300 1,950 2,600 Feet

N W E S

06/02/2022