



Timber Sale Appraisal
Goat Shot
Sale WO-341-2017-61-

District: West Oregon

Date: April 10, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$959,801.40	\$20,973.11	\$980,774.51
		Project Work:	(\$29,597.00)
		Advertised Value:	\$951,177.51



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District: West Oregon

Date: April 10, 2017

Timber Description

Location: Portions of Section 26, T11S, R8W, W.M., Lincoln County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	27	0	95
Alder (Red)	21	0	95
Maple	25	0	95

Volume by Grade	2S	3S	3S 12"+	4S	Camprun	Total
Douglas - Fir	1,703	171	523	33	0	2,430
Alder (Red)	0	0	0	0	47	47
Maple	0	0	0	0	16	16
Total	1,703	171	523	33	63	2,493

Comments: Pond Values Used: 1st Quarter Calendar Year 2017 + Local Pond Values, February 2017.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$313.59/\text{MBF} = \$535.12/\text{MBF} - \$221.53/\text{MBF}$

Western Redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$895.30/\text{MBF} = \$1,362.53/\text{MBF} - \$467.23/\text{MBF}$

Pulp Logs = $\$35/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

BRANDING AND PAINTING COST ALLOWANCE = $\$2.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$3.00/\text{Gallon}$

LOG HAUL:

Conifer costed to Springfield.

Hardwood costed to Eugene.

Western redcedar costed to Washington.

HAULING COST ALLOWANCE

Hauling costs equivalent to $\$780$ daily truck cost.

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

None.

Other Costs (No Profit & Risk added):

Non-Project Roads and Landings: $\$750$

Invasive Species Equipment Cleaning: $\$2,000$

Felling for Down Wood: 10 trees, 2 fallers @ $\$500/\text{day} = \500

Waterbar and Block (Tank-trap) Dirt Spurs: 19.7 stations @ $\$15.96/\text{station} = \314

Firewood Sorting & Landing Piling: 12 landings @ $\$180/\text{landing} = \$2,160$

TOTAL Other Costs (No Profit & Risk added) = $\$5,724$

SLASH DISPOSAL COSTS:

Move-in: $\$750$

Sale Area Move: $\$250$

Piling Work: $\$2,700$

TOTAL Slash Disposal = $\$3,700$



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Logging Conditions

Combination#: 1 Douglas - Fir 82.64%
 Alder (Red) 82.09%
 Maple 82.00%

Logging System: Cable: Large Tower >=70 **Process:** Stroke Delimber
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12 **bd. ft / load:** 5000
cost / mbf: \$103.33
machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Large)

Combination#: 2 Douglas - Fir 17.36%
 Alder (Red) 17.91%
 Maple 18.00%

Logging System: Shovel **Process:** Manual Falling/Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12 **bd. ft / load:** 5000
cost / mbf: \$65.62
machines: Shovel Logger



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 14%
Project Costs: \$29,597.00	Other Costs (P/R): \$0.00
Slash Disposal: \$3,700.00	Other Costs: \$5,724.00

Miles of Road

Road Maintenance: \$2.54

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	5.0
Alder (Red)	\$0.00	2.0	3.5
Maple	\$0.00	2.0	3.5



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
\$96.78	\$2.67	\$3.52	\$81.90	\$0.00	\$25.88	\$1.48	\$7.00	\$2.30	\$221.53
Alder (Red)									
\$96.57	\$2.67	\$3.52	\$117.00	\$0.00	\$30.77	\$1.48	\$7.00	\$2.30	\$261.31
Maple									
\$96.54	\$2.67	\$3.52	\$117.00	\$0.00	\$30.76	\$1.48	\$7.00	\$2.30	\$261.27

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$616.51	\$394.98	\$0.00
Alder (Red)	\$0.00	\$645.00	\$383.69	\$0.00
Maple	\$0.00	\$445.00	\$183.73	\$0.00



Timber Sale Appraisal
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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,430	\$394.98	\$959,801.40
Alder (Red)	47	\$383.69	\$18,033.43
Maple	16	\$183.73	\$2,939.68

Gross Timber Sale Value

Recovery: \$980,774.51

Prepared By: Carli Morgan

Phone: 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: Goat Shot

Date: March 2017

Time: 10:50

Project #1 - New Construction & Improvements

Road Segment	Length	Cost
A (Landing)	0.0 sta	\$ 965
B to C	1.6 sta	\$ 3,573
D (Landing)	0.0 sta	\$ 1,540
I1 to I3	33.0 sta	\$ 5,412
I3 to I4	13.0 sta	\$ 5,273
I4 to I5	2.2 sta	\$ 3,819
I2 to I6	9.7 sta	\$ 3,973
I7 to I8	19.7 sta	\$ 1,391
	79.2 sta	SUBTOTAL
		\$ 25,946

Equipment Move-in	Cost
Dozer, D7 or equiv.	\$ 805
Grader, G14 or equiv.	\$ 778
Vibratory roller	\$ 778
Excavator, C325 or equiv.	\$ 1,290
	SUBTOTAL
	\$ 3,651
	GRAND TOTAL
	\$ 29,597

Compiled by: C. Morgan

Date: 03/24/2017

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH const 0.0 sta
POINT A (landing construction)

EXCAVATION With C325 excavator equivalent
Landing Construction 1.0 Ldg @ \$389.00 /Ldg = \$389.00

TOTAL EXCAVATION COST = \$ 389

SURFACING
Landing Rock 1.0 30.0 cy Size Cost/yd
jaw run \$19.19 = \$575.70

TOTAL SURFACING COST = \$ 576

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$ 965

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH const 1.6 sta
ROAD B to C (rocked spur)

CLEARING AND GRUBBING

0.20 acre @ \$ 1,010.24 /acre = \$ 202.05

TOTAL CLEARING AND GRUBBING COST = \$ 202

EXCAVATION

With C325 excavator equivalent

Balanced Construction 1.6 sta @ \$122.00 /sta = \$ 195.20
Landing Construction 1.0 Ldg @ \$389.00 /Ldg = \$ 389.00

TOTAL EXCAVATION COST = \$ 584

SUBGRADE PREP

Grade/shape surface 1.6 sta @ \$18.35 /sta = \$ 29.36
Compact subgrade 1.6 sta @ \$20.19 /sta = \$ 32.30
(with vibratory roller)

TOTAL SUBGRADE PREP COST = \$ 62

SURFACING

				Size	Cost/yd		
Turnout Rock	1.0	30.0	cy	jaw run	\$19.19	=	\$ 575.70
Surface Rock (8" lift)		70.0	cy	jaw run	\$19.19	=	\$ 1,343.30
Landing Rock	1.0	40.0	cy	jaw run	\$19.19	=	\$ 767.60
Grade/compact rock	1.6	sta	@	\$24.28 /sta	=	\$ 38.85	
(with vibratory roller)							

TOTAL SURFACING COST = \$ 2,725

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$ 3,573

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH const 0.0 sta
POINT D (landing construction)

EXCAVATION With C325 excavator equivalent
Landing Construction 1.0 Ldg @ \$389.00 /Ldg = \$ 389.00

TOTAL EXCAVATION COST = \$ 389

SURFACING
Landing Rock 1.0 60.0 cy Size Cost/yd
jaw run \$19.19 = \$1,151.40

TOTAL SURFACING COST = \$ 1,151

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$ 1,540

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH improve 33 sta
ROAD I1 to I3

SUBGRADE PREP

Slough/Debris Removal 1.0 hrs @ \$129.00 /hr = \$ 129.00
(with C325 excavator equivalent)

TOTAL SUBGRADE PREP COST = \$ 129

SURFACING

				Size	Cost/yd			
Turnout Rock	2.0	10.0	cy	1½-0"	\$21.85	=	\$	437.00
Spot Rock		150.0	cy	1½-0"	\$21.85	=	\$	3,277.50
Landing Rock (sta 21+80, sta 25+20)	2.0	20.0	cy	jaw run	\$19.19	=	\$	767.60
Grade/compact rock (with vibratory roller)		33.0	sta	\$24.28 /sta		=	\$	801.24

TOTAL SURFACING COST = \$ 5,283

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$ 5,412

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH improve 13 sta
ROAD I3 to I4

SURFACING

			Size	Cost/yd		
Surface Rock (3" lift)	221.0	cy	1½-0"	\$21.85	=	\$4,828.85
Grade/compact surface rock (with vibratory roller)	13.0	sta	\$24.28 /sta		=	\$ 315.64

TOTAL SURFACING COST = \$ 5,144

SPECIAL PROJECTS

Remove stump at Point I4 (with C325 excavator equivalent)	1.0	hrs	@	\$129.00 /hr	=	\$ 129.00
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TOTAL SPECIAL PROJECTS COST = \$ 129

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$ 5,273

SUMMARY OF CONSTRUCTION COST

SALE	Goat Shot
ROAD	14 to 15

Project # 1 LENGTH improve

2.2 sta

CLEARING AND GRUBBING

0.2 acre @ \$1,010.24 /acre = \$ 202.05

TOTAL CLEARING AND GRUBBING COST = \$ 202

EXCAVATION

Landing Construction

(With C325 excavator equivalent) 3.0 hrs @ \$129.00 /hr = \$ 387.00

(With D7 dozer equivalent) 3.0 hrs @ \$144.00 /hr = \$ 432.00

TOTAL EXCAVATION COST = \$ 819

SURFACING

Surface Rock (10" lift)	123.0	cy	jaw run	\$19.19	=	\$2,360.37
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Landing Rock	1.0	20.0	cy	jaw run	\$19.19	=	\$ 383.80
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Grade/compact surface rock (with vibratory roller)	2.2	sta	@	\$24.28 /sta	=	\$	53.42
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TOTAL SURFACING COST = \$2,798

Compiled by:

C. Morgan

Date: Mar 24, 2017

GRAND TOTAL =====> \$3,819

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH improve 9.7 sta
ROAD I2 to I6

IMPROVEMENT

Clear brush and debris 9.7 sta @ \$18.35 /sta = \$ 178.00
(with dozer or grader)

TOTAL IMPROVEMENT COST = \$178

EXCAVATION

With C325 excavator equivalent

Landing Construction 1.0 Ldg @ \$389.00 /Ldg = \$ 389.00

TOTAL EXCAVATION COST = \$ 389

SURFACING

				Size	Cost/yd		
Turnout Rock	1.0	20.0	cy	3-0"	\$20.19	=	\$ 403.80
Turnaround Rock	1.0	20.0	cy	3-0"	\$20.19	=	\$ 403.80
Landing Rock	1.0	60.0	cy	jaw run	\$19.19	=	\$1,151.40
Spot Rock		60.0	cy	3-0"	\$20.19	=	\$1,211.40
Grade/compact rock (with vibratory roller)		9.7	sta	@	\$24.28 /sta	=	\$ 235.52

TOTAL SURFACING COST = \$3,406

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$3,973

SUMMARY OF CONSTRUCTION COST

SALE Goat Shot Project # 1 LENGTH improve 19.7 sta
ROAD I7 to I8

SUBGRADE PREP

Slough Removal 1.5 hrs @ \$144.00 /hr = \$ 216.00
(drift with dozer or grader)

TOTAL SUBGRADE PREP COST = \$ 216

IMPROVEMENT

Clear brush and debris 19.7 sta @ \$18.35 /sta = \$ 361.50
(with dozer or grader)
Grade/shape/compact 19.7 sta @ \$20.19 /sta = \$ 397.74
(with grader and vibratory roller)

TOTAL IMPROVEMENT COST = \$ 759

SURFACING

			Size	Cost/yd		
Junction Rock	20.0	cy	3-0"	\$20.19	=	\$ 403.80
Grade/compact rock	0.5	sta	@	\$24.28 /sta	=	\$ 12.14
(with vibratory roller)						

TOTAL SURFACING COST = \$416

Compiled by: C. Morgan
Date: Mar 24, 2017

GRAND TOTAL =====> \$ 1,391

SUMMARY OF MAINTENANCE COST

SALE

Goat Shot

Final Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Grading

Move-in

Grader

\$ 778.00

Road Segment	Length	Cost/Sta	Cost	Mileage
Surfaced Roads				
Goat Ridge Road Gate to I1	46.2	\$13.75	\$ 635.25	0.88
I1 to I3	33	\$13.75	\$ 453.75	0.63
I3 to I4	13	\$13.75	\$ 178.75	0.25
I4 to I5	2.2	\$13.75	\$ 30.25	0.04
I2 to I6	9.7	\$13.75	\$ 133.38	0.18
I1 to I7	32.1	\$13.75	\$ 441.38	0.61
A to B	1.6	\$13.75	\$ 22.00	0.03
Subtotal			\$ 1,894.76	

Maintenance Rock:	Volume (CY)	Cost/CY	Cost
1½-0"	150	\$21.85	\$ 3,277.50
3-0"	50	\$20.19	\$ 1,009.50
Subtotal			\$ 4,287.00

Grand Total

\$ 6,181.76

TS Volume

2,436

MBF

Cost / MBF

\$ 2.54

Rock Haul Cost Computation

SALE NAME: Goat Shot
 ROAD NAME: Area 1 and 2 Roads CLASS: Medium
 ROCK SOURCE: Rickard 10 CY truck
 Route: Garrett Ln, Hwy 20, Harlan/Burnt Woods Rd, Goat Ridge Rd

TIME Computation:

Road speed time factors:

1.	55 MPH		MRT	0.0 minutes
2.	50 MPH	24.6	MRT	29.5 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	4.0	MRT	8.0 minutes
7.	25 MPH	2.6	MRT	6.2 minutes
8.	20 MPH	3.6	MRT	10.8 minutes
9.	15 MPH		MRT	0.0 minutes
10.	10 MPH		MRT	0.0 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) 55.00 minutes

Operator efficiency correction 0.85 64.71 minutes

Job efficiency correction 0.75 86.28 minutes

Truck capacity (CY) 10.00 8.63 min/CY

Loading time, delay time per CY 0.25 min/CY

TIME (minutes) per cubic yard 8.24 min/CY

COST per CY computation

Cost of truck and operator per hour \$79.00 /hr.

Cost of truck and operator per minute \$1.32 /min

Cost per CY \$10.88 /CY

Spread and compact \$1.50 /CY

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered w/ processing
1½ - 0"	\$ 10.97	\$21.85	\$23.35
3 - 0"	\$ 9.31	\$20.19	\$21.69
Jaw Run	\$ 8.31	\$19.19	\$20.69
Pit Run	\$ 7.65	\$18.53	\$20.03

**Goat Shot (341-17-61)
FY 2017**

TIMBER CRUISE REPORT

1. **Sale Area Location:** Portions of Section 26, T11S, R08W, W.M., Lincoln County, Oregon.

2. **Fund Distribution:**

- a. **Fund** CSL 69% BOF 31%
b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffers	Existing Roads	Green Tree Retention Areas	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	62	9	1.5	1.5	50	Ortho photo, GIS, GPS
2	Modified Clearcut	9	0	0.5	1.5	7	Ortho photo, GIS, GPS
Total		71	9	2	3	57	

4. **Cruisers and Cruise Dates:** This sale was cruised by Carli Morgan, Matt McBride, and Jon Long in January and February of 2017. Cruising assistance was provided by Rick Harris and Eric Brekstad.

5. **Cruise Method and Computation:** The Goat Shot timber sale consists of two modified clearcuts. Area 1 was cruised using variable radius plot sampling with a 33.61 BAF. A total of 47 plots were cruised using a 186 by 186 foot grid with a ratio of two count plots for every one grade plot. In total, 29 plots were counted, and 18 plots were graded. Tree count and species were recorded on count plots. Grade plots were measured for DBH, height, form factor, grade, and defect. Marked wildlife trees and snags were cruised if encountered on a plot. These wildlife trees and snags were then deleted from the merchantable stand volume. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume.

Area 2 was also cruised with a 33.61 BAF. A total of 8 plots were cruised using a 186 by 186 foot grid with a ratio of two count plots for every one grade plot. In total, 5 plots were counted, and 3 plots were graded. Tree count and species were recorded on count plots. Cruise 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.

Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap 10.3 was used to determine gross and net acreage.

6. **Measurement Standards:** Heights were measured to the nearest foot, to a top diameter of 7 inches outside bark or to 40% of form factor. Diameters were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor.

7. **Timber Description:** Timber in Areas 1 and 2 consists of 75 to 157-year-old Douglas-fir with minor components of red alder and bigleaf maple.

- In Area 1, the average DBH for Douglas-fir trees is 28 inches, and the average bole height is 104 feet to a merchantable top. The average DBH for red alder is 21 inches with an average bole height of 34 feet. The average DBH for bigleaf maple is 25 inches DBH with an average bole height of 38 feet. The average net volume per acre is 42 MBF. Area 1 contains ice-damaged trees, some of which are recently dead Douglas-fir that are merchantable. There are also many large, open-grown Douglas-fir scattered throughout the stand.

- In Area 2, the average DBH for Douglas-fir trees is 23 inches, and the average bole height is 80 feet to a merchantable top. The average DBH for red alder is 18 inches with an average bole height of 31 feet. The average net volume per acre is 56 MBF. Area 2 contains ice-damaged trees, most of which are alive and merchantable.

8. Statistical Analysis and Stand Summary:

Area	Target CV	Target SE	Actual CV	Actual SE
1	50%	9%	60%	9%
2	35%	10%	38%	14%

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

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

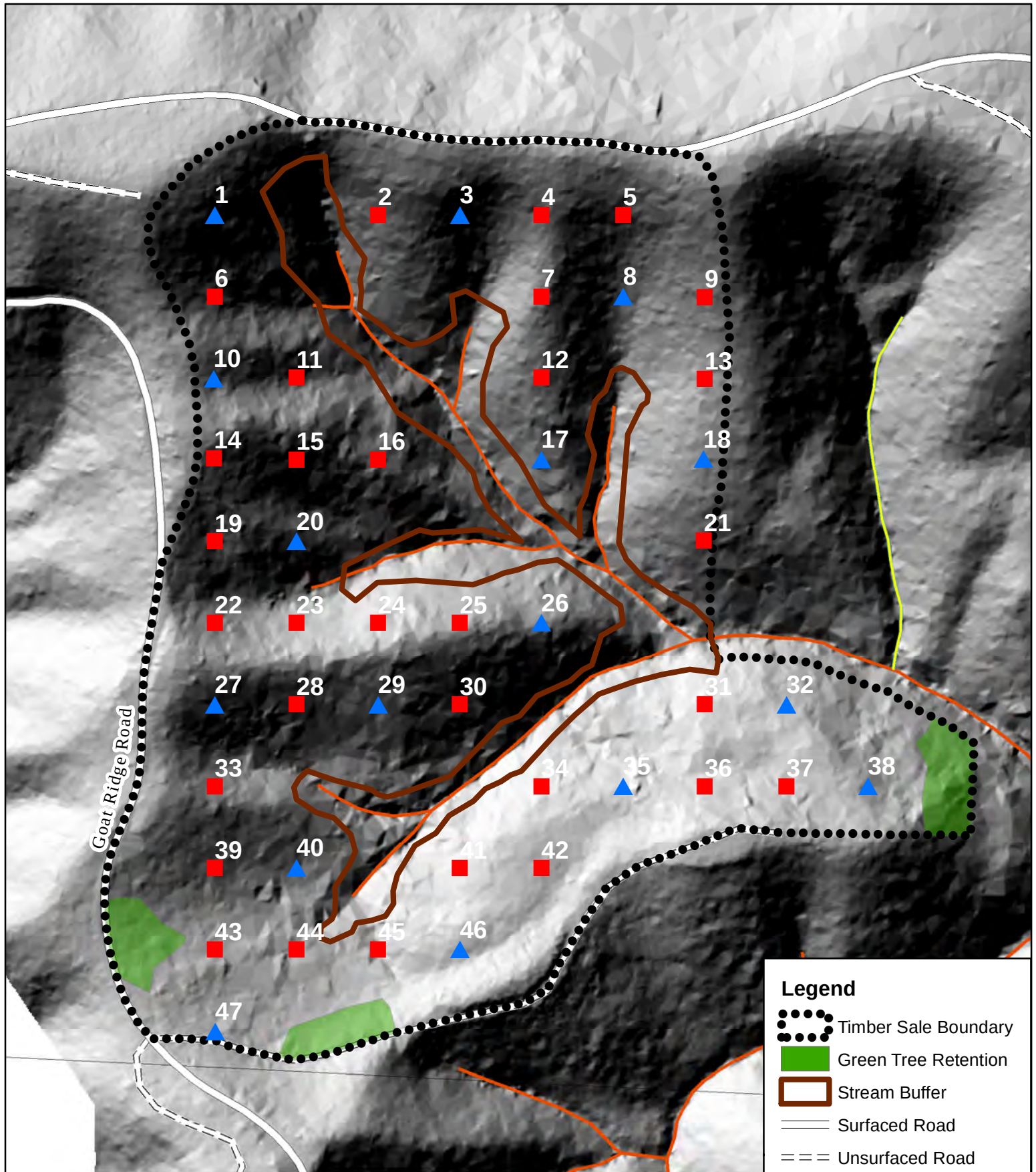
Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Areas 1 and 2						
Douglas-fir	2,741	4.7%	128	7%	183	2,430
Red alder	49	<1%	0	5%	2	47
Bigleaf maple	18	5.6%	1	5%	1	16
Total	2,808		129		186	2,493

Species	Avg. DBH	Net Vol.	2-Saw	3-Saw	3-Saw 12"+	4-Saw	Camp Run	% by Species
Areas 1 and 2								
Douglas-fir	Grade Percentages		70%	7%	22%	1%	--	
	27	2,430	1,703	171	523	33	--	97%
Red alder	Grade Percentages		--	--	--	--	100%	
	21	47	--	--	--	--	47	2%
Bigleaf maple	Grade Percentages		--	--	--	--	100%	
	25	16	--	--	--	--	16	1%
Total		2,493	1,703	171	523	33	63	100%

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

Prepared by: Carli Morgan
Unit Forester: Evelyn Hukari

Date: March 14, 2017
Date: 3/23/17



Goat Ridge Road

Goat Shot A1

PORTIONS OF SECTIONS 26
T11S, R08W, W.M.
LINCOLN COUNTY, OREGON



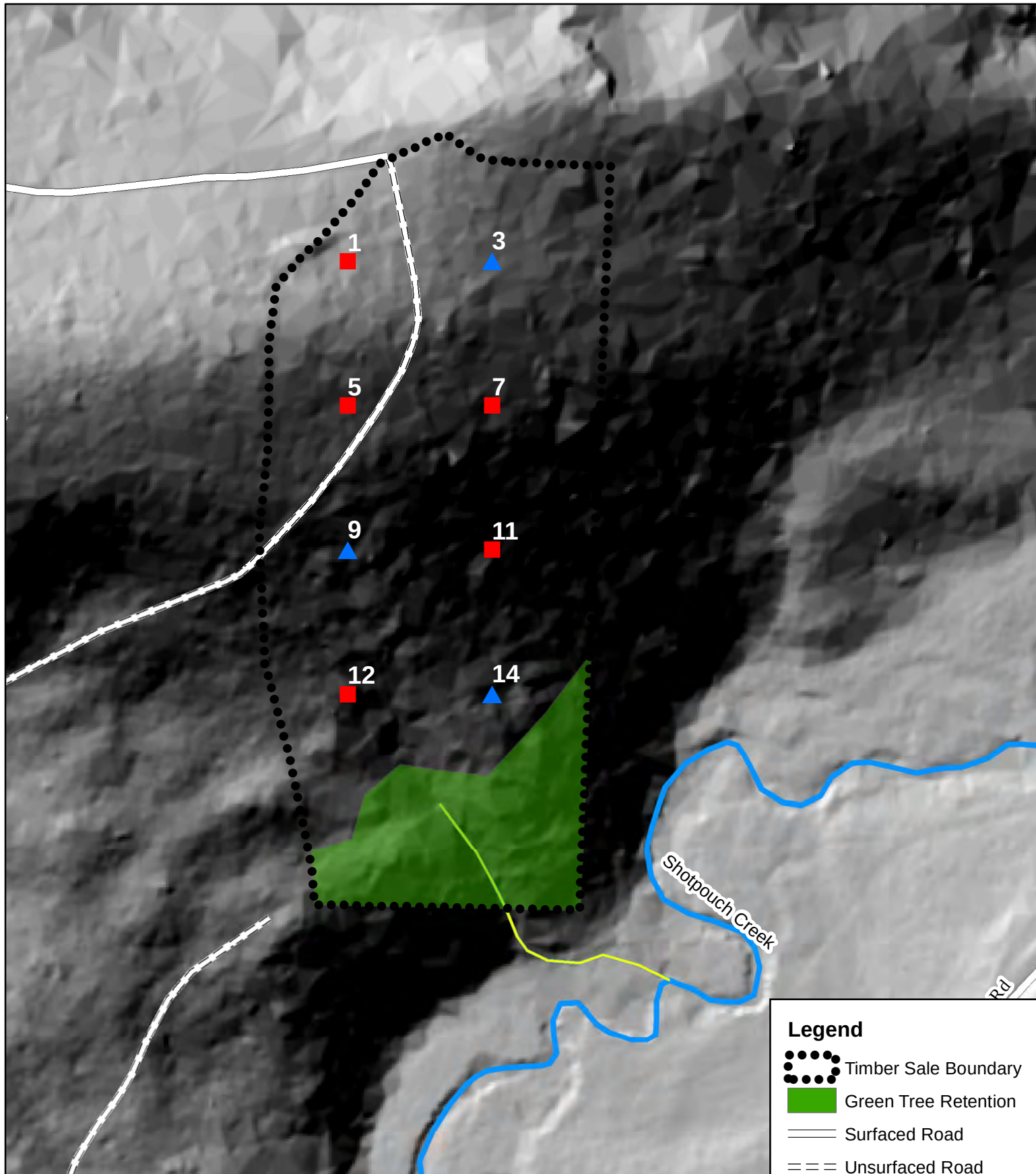
0 125 250 500 750 1,000 Feet

Legend

- Timber Sale Boundary
- Green Tree Retention
- Stream Buffer
- Surfaced Road
- Unsurfaced Road
- Nonfish
- Unknown

Plot Type

- Cruise
- Measure



Goat Shot A2

PORTIONS OF SECTIONS 26
T11S, R08W, W.M.
LINCOLN COUNTY, OREGON



0 62.5 125 250 375 500 Feet

Legend

- Timber Sale Boundary
- Green Tree Retention
- Surfaced Road
- Unsurfaced Road
- Fish
- Unknown

Plot Type

- Cruise
- Measure

TC PSTATS				PROJECT STATISTICS				PAGE	1				
				PROJECT	GOATSHOT				DATE	3/13/2017			
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt			
11S	08	26	ALL	A1	57.00		55	333	1	W			
11S	08W	26	ALL	A2									
				TREES		ESTIMATED	PERCENT						
				PER PLOT		TOTAL	SAMPLE						
				PLOTS	TREES	TREES	TREES						
TOTAL				55	333	6.1							
CRUISE				21	125	6.0	3,141	4.0					
DBH COUNT													
REFOREST													
COUNT				34	198	5.8							
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	
DF				108	44.7	26.8	97	33.8	175.1	48,087	45,840	9,609	9,499
R ALDER				11	8.5	20.7	34	4.4	19.9	853	847	382	382
BL MAPLE				6	1.9	24.8	38	1.3	6.3	320	304	124	124
TOTAL				125	55.1	25.9	85	39.6	201.2	49,260	46,992	10,115	10,005
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		104.3	10.0	2,193	2,438	2,682							
R ALDER		147.6	46.6	77	145	212							
BL MAPLE		155.2	69.1	126	408	691							
TOTAL		116.2	10.4	1,916	2,138	2,360			539	135	60		
CL	68.1	COEFF		TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15		
DF		77.4	10.4	40	45	49							
R ALDER		226.1	30.5	6	9	11							
BL MAPLE		316.8	42.7	1	2	3							
TOTAL		57.9	7.8	51	55	59			134	33	15		
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		59.2	8.0	161	175	189							
R ALDER		232.3	31.3	14	20	26							
BL MAPLE		352.5	47.5	3	6	9							
TOTAL		45.2	6.1	189	201	213			81	20	9		
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		59.9	8.1	42,140	45,840	49,540							
R ALDER		228.8	30.8	586	847	1,109							
BL MAPLE		431.6	58.2	127	304	481							
TOTAL		56.5	7.6	43,415	46,992	50,568			127	32	14		

TC TSTATS				STATISTICS				PAGE	1			
				PROJECT	GOATSHOT			DATE	3/13/2017			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
11S	08W	26	ALL	A1	50.00	47	264	1	W			
				TREES	ESTIMATED	PERCENT						
				PER PLOT	TOTAL	SAMPLE						
					TREES	TREES						
TOTAL			47	264	5.6							
CRUISE			18	101	5.6	2,409	4.2					
DBH COUNT												
REFOREST												
COUNT			29	153	5.3							
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	
DF			86	37.0	28.2	104	30.2	160.2	46,017	43,886	9,100	8,974
R ALDER			9	9.1	20.8	34	4.7	21.5	950	950	418	418
BL MAPLE			6	2.1	24.8	38	1.4	7.2	365	347	142	142
TOTAL			101	48.2	26.8	88	36.5	188.8	47,332	45,183	9,659	9,534
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			97.9	10.5	2,436	2,723	3,010					
R ALDER			133.9	47.3	90	171	252					
BL MAPLE			155.2	69.1	126	408	691					
TOTAL			110.9	11.0	2,098	2,358	2,618	491	123	55		
CL:	68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
DF			81.8	11.9	33	37	41					
R ALDER			218.5	31.8	6	9	12					
BL MAPLE			290.7	42.4	1	2	3					
TOTAL			59.1	8.6	44	48	52	140	35	16		
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			63.1	9.2	145	160	175					
R ALDER			222.6	32.4	14	21	28					
BL MAPLE			324.1	47.2	4	7	11					
TOTAL			46.6	6.8	176	189	202	87	22	10		
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			63.8	9.3	39,806	43,886	47,965					
R ALDER			212.3	30.9	656	950	1,244					
BL MAPLE			397.8	58.0	146	347	548					
TOTAL			59.8	8.7	41,247	45,183	49,119	143	36	16		

TC TSTATS				STATISTICS				PAGE	1			
				PROJECT	GOATSHOT			DATE	3/13/2017			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
11S	08W	26	ALL	A2	7.00	8	69	1	W			
				TREES	ESTIMATED	PERCENT						
				PER PLOT	TOTAL	SAMPLE						
				PLOTS	TREES	TREES						
TOTAL			8	69	8.6							
CRUISE			3	24	8.0	731	3.3					
DBH COUNT												
REFOREST												
COUNT			5	45	9.0							
BLANKS												
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DF			22	99.7	22.7	80	59.0	281.5	62,872	59,800	13,245	13,245
R ALDER			2	4.8	18.0	31	2.0	8.4	160	113	126	126
TOTAL			24	104.5	22.6	77	61.0	289.9	63,033	59,913	13,371	13,371
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		120.7	26.3	974	1,321	1,669						
R ALDER		28.3	26.5	18	25	32						
TOTAL		129.2	26.9	887	1,213	1,540	695	174	77			
CL:	68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
DF		33.7	12.7	87	100	112						
R ALDER		282.8	106.6		5	10						
TOTAL		31.2	11.7	92	104	117	44	11	5			
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		34.9	13.2	244	281	319						
R ALDER		282.8	106.6		8	17						
TOTAL		35.6	13.4	251	290	329	58	14	6			
CL:	68.1 %	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
DF		37.9	14.3	51,262	59,800	68,339						
R ALDER		282.8	106.6		113	233						
TOTAL		37.9	14.3	51,348	59,913	68,477	65	16	7			

TC		PSTNDSUM		Stand Table Summary								Page		1		
												Date:		3/13/2017		
T11S R08W S26 TyA150.00 T11S R08W S26 TyA27.00				Project		GOATSHOT				Time:		11:59:30AM				
				Acres		57.00				Grown Year:						
S SpC	T	Tot						Average Log		Net		Net		Totals		
		DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF		12	1	93	53	2.001	1.57	2.00	18.0	40.0		36	80		21	5
DF		14	3	84	76	4.585	4.90	7.64	19.6	62.0		150	474		85	27
DF		15	1	95	67	1.280	1.57	2.56	18.5	70.0		47	179		27	10
DF		16	2	85	116	2.340	3.27	4.68	28.0	102.5		131	480		75	27
DF		17	4	88	119	4.067	6.41	9.17	32.6	112.1		299	1,028		170	59
DF		18	2	87	109	1.849	3.27	2.77	29.0	100.0		80	277		46	16
DF		19	2	91	87	1.596	3.14	3.19	35.8	135.0		114	431		65	25
DF		20	4	87	131	2.996	6.54	8.99	36.7	145.8		330	1,311		188	75
DF		21	2	90	101	1.307	3.14	3.27	39.2	160.0		128	523		73	30
DF		22	1	83	116	.619	1.63	1.24	55.0	155.0		68	192		39	11
DF		23	3	86	127	1.699	4.90	5.10	46.1	187.8		235	957		134	55
DF		24	4	89	120	2.060	6.47	6.18	48.9	204.9		302	1,266		172	72
DF		25	4	89	132	1.880	6.41	5.64	59.2	253.7		334	1,431		190	82
DF		26	5	88	149	2.216	8.17	6.65	69.1	308.0		459	2,047		262	117
DF		27	2	87	155	.822	3.27	2.47	75.7	348.3		187	859		106	49
DF		28	3	89	149	1.146	4.90	3.44	79.6	386.7		274	1,330		156	76
DF		29	1	92	73	.343	1.57	.69	71.0	275.0		49	188		28	11
DF		30	5	89	139	1.639	8.04	4.60	93.2	439.7		428	2,021		244	115
DF		31	1	89	170	.312	1.63	1.25	82.7	422.5		103	527		59	30
DF		32	7	88	163	2.025	11.31	7.22	88.7	434.4		640	3,138		365	179
DF		33	5	88	160	1.365	8.11	3.82	119.7	619.9		457	2,368		261	135
DF		35	5	83	165	1.213	8.11	4.37	108.1	543.1		473	2,375		270	135
DF		36	2	86	165	.462	3.27	1.39	138.3	711.7		192	987		109	56
DF		37	1	88	112	.210	1.57	.63	112.3	556.7		71	351		40	20
DF		38	2	89	194	.415	3.27	1.87	125.1	663.3		234	1,238		133	71
DF		40	1	88	191	.187	1.63	.75	151.8	857.5		114	642		65	37
DF		42	5	90	169	.843	8.11	3.21	160.9	896.8		516	2,876		294	164
DF		43	2	88	150	.318	3.21	1.12	159.6	819.4		178	914		101	52
DF		44	3	85	170	.464	4.90	1.55	195.2	1029.0		302	1,592		172	91
DF		45	1	88	191	.148	1.63	.59	192.8	1102.5		114	652		65	37
DF		46	2	86	155	.283	3.27	.85	214.3	973.3		182	827		104	47
DF		49	2	89	158	.250	3.27	1.00	195.0	1046.2		195	1,044		111	60
DF		50	2	83	173	.240	3.27	.84	230.9	1207.1		194	1,013		110	58
DF		51	1	88	165	.115	1.63	.35	280.3	1580.0		97	546		55	31
DF		52	2	89	186	.222	3.27	1.00	220.6	1154.4		220	1,151		125	66
DF		55	1	79	157	.099	1.63	.30	288.0	1163.3		86	346		49	20
DF		56	1	88	191	.096	1.63	.38	296.2	1622.5		113	620		65	35
DF		57	1	86	191	.092	1.63	.37	302.2	1612.5		111	595		64	34
DF		60	2	85	155	.166	3.27	.67	272.1	1328.7		181	885		103	50
DF		61	3	87	185	.242	4.90	.97	333.0	1881.7		322	1,818		183	104
DF		62	2	87	162	.156	3.27	.55	352.6	2008.6		192	1,096		110	62
DF		63	1	90	178	.073	1.57	.29	358.5	1820.0		104	528		59	30
DF		64	1	88	217	.073	1.63	.44	290.7	1696.7		128	745		73	42
DF		65	1	87	191	.071	1.63	.28	392.5	2210.0		111	627		63	36
DF		72	2	84	194	.116	3.27	.46	473.0	2738.7		219	1,266		125	72
DF		Totals	108	88	124	44.699	175.08	116.75	81.4	392.6		9,499	45,840		5,414	2,613
RA		16	3	86	34	3.365	4.70	3.36	20.1	28.9		68	97		39	6
RA		17	1	86	21	1.327	2.09	1.33	16.0	20.0		21	27		12	2
RA		19	1	87	49	1.062	2.09	1.06	39.0	60.0		41	64		24	4
RA		21	1	87	46	.215	.52	.21	43.0	30.0		9	6		5	0
RA		23	1	86	31	.725	2.09	.72	36.0	30.0		26	22		15	1
RA		26	1	87	70	.567	2.09	1.13	57.5	205.0		65	233		37	13
RA		28	1	86	41	.489	2.09	.49	73.0	80.0		36	39		20	2

TC		PSTNDSUM										Stand Table Summary										Page		2	
																						Date:		3/13/2017	
T11S R08W S26 TyA1					50.00					Project					GOATSHOT					Time:		11:59:30AM			
T11S R08W S26 TyA2					7.00					Acres					57.00					Grown Year:					
S Sp	T	Tot							Average Log		Net		Net		T o t a l s										
		DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF									
RA		30	1	86	79	.426	2.09	.85	85.0	340.0		72	290		41	17									
RA		33	1	86	49	.352	2.09	.35	123.0	200.0		43	70		25	4									
RA		Totals	11	86	40	8.526	19.85	9.52	40.2	89.0		382	847		218	48									
BM		20	1	87	34	.479	1.05	.48	30.0	30.0		14	14		8	1									
BM		21	1	86	40	.435	1.05	.43	38.0	40.0		17	17		9	1									
BM		22	1	80	44	.396	1.05	.40	50.0	60.0		20	24		11	1									
BM		24	1	84	51	.333	1.05	.67	34.0	145.0		23	97		13	6									
BM		33	1	86	54	.176	1.05	.18	136.0	360.0		24	63		14	4									
BM		60	1	83	63	.053	1.05	.11	253.0	835.0		27	89		15	5									
BM		Totals	6	85	43	1.872	6.27	2.26	55.0	134.8		124	304		71	17									
Totals			125	87	108	55.097	201.20	128.53	77.8	365.6		10,005	46,992		5,703	2,679									

TC		Stand Table Summary															
TSTNDSUM		Project															
		GOATSHOT															
T11S R08W S26 TA1										T11S R08W S26 TA1							
Twp	Rge	Sec	Tract	Type				Acres	Plots	Sample Trees	Page:	1					
11S	08W	26	ALL	A1				50.00	47	104	Date:	03/13/2017					
										Time:	11:50:42AM						
S Spc	T	Sample		FF	Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
DF		14	3	84	76	5.227	5.59	8.71	19.6	62.0		171	540		85	27	
DF		16	2	85	116	2.668	3.73	5.34	28.0	102.5		149	547		75	27	
DF		17	2	85	123	2.363	3.73	5.91	29.6	108.0		175	638		87	32	
DF		18	2	87	109	2.108	3.73	3.16	29.0	100.0		92	316		46	16	
DF		20	4	87	131	3.415	7.45	10.25	36.7	145.8		376	1,494		188	75	
DF		22	1	83	116	.706	1.86	1.41	55.0	155.0		78	219		39	11	
DF		23	3	86	127	1.937	5.59	5.81	46.1	187.8		268	1,091		134	55	
DF		24	3	88	121	1.779	5.59	5.34	48.9	200.0		261	1,067		130	53	
DF		25	2	89	142	1.093	3.73	3.28	62.5	270.0		205	885		102	44	
DF		26	5	88	149	2.526	9.31	7.58	69.1	308.0		523	2,334		262	117	
DF		27	2	87	155	.937	3.73	2.81	75.7	348.3		213	979		106	49	
DF		28	3	89	149	1.307	5.59	3.92	79.6	386.7		312	1,516		156	76	
DF		30	3	88	146	1.138	5.59	3.42	91.0	428.9		311	1,465		155	73	
DF		31	1	89	170	.355	1.86	1.42	82.7	422.5		118	601		59	30	
DF		32	5	87	167	1.667	9.31	5.67	92.0	448.2		522	2,541		261	127	
DF		33	4	87	161	1.254	7.45	3.45	120.6	615.5		416	2,123		208	106	
DF		35	4	81	165	1.115	7.45	4.18	102.1	502.7		427	2,102		213	105	
DF		36	2	86	165	.527	3.73	1.58	138.3	711.7		219	1,125		109	56	
DF		38	2	89	194	.473	3.73	2.13	125.1	663.3		266	1,412		133	71	
DF		40	1	88	191	.213	1.86	.85	151.8	857.5		130	732		65	37	
DF		42	4	89	171	.774	7.45	3.10	154.1	864.4		477	2,677		239	134	
DF		43	1	86	174	.185	1.86	.74	155.2	792.5		115	585		57	29	
DF		44	3	85	170	.529	5.59	1.76	195.2	1029.0		344	1,815		172	91	
DF		45	1	88	191	.169	1.86	.67	192.8	1102.5		130	744		65	37	
DF		46	2	86	155	.323	3.73	.97	214.3	973.3		208	943		104	47	
DF		49	2	89	158	.284	3.73	1.14	195.0	1046.2		222	1,190		111	60	
DF		50	2	83	173	.273	3.73	.96	230.9	1207.1		221	1,154		110	58	
DF		51	1	88	165	.131	1.86	.39	280.3	1580.0		110	622		55	31	
DF		52	2	89	186	.253	3.73	1.14	220.6	1154.4		251	1,312		125	66	
DF		55	1	79	157	.113	1.86	.34	288.0	1163.3		98	394		49	20	
DF		56	1	88	191	.109	1.86	.44	296.2	1622.5		129	707		65	35	
DF		57	1	86	191	.105	1.86	.42	302.2	1612.5		127	678		64	34	
DF		60	2	85	155	.190	3.73	.76	272.1	1328.7		207	1,008		103	50	
DF		61	3	87	185	.275	5.59	1.10	333.0	1881.7		367	2,072		183	104	
DF		62	2	87	162	.178	3.73	.62	352.6	2008.6		219	1,249		110	62	
DF		64	1	88	217	.083	1.86	.50	290.7	1696.7		145	849		73	42	
DF		65	1	87	191	.081	1.86	.32	392.5	2210.0		127	715		63	36	
DF		72	2	84	194	.132	3.73	.53	473.0	2738.7		249	1,443		125	72	
DF		Totals		86	86	133			36.996	160.18	102.10		8,974	43,886		4,487	2,194
RA		16	2	86	35	3.414	4.77	3.41	20.5	30.0		70	102		35	5	
RA		17	1	86	21	1.512	2.38	1.51	16.0	20.0		24	30		12	2	
RA		19	1	87	49	1.211	2.38	1.21	39.0	60.0		47	73		24	4	
RA		23	1	86	31	.826	2.38	.83	36.0	30.0		30	25		15	1	
RA		26	1	87	70	.647	2.38	1.29	57.5	205.0		74	265		37	13	
RA		28	1	86	41	.557	2.38	.56	73.0	80.0		41	45		20	2	
RA		30	1	86	79	.486	2.38	.97	85.0	340.0		83	330		41	17	
RA		33	1	86	49	.401	2.38	.40	123.0	200.0		49	80		25	4	
RA		Totals		9	86	40			9.054	21.45	10.19		418	950		209	48
BM		20	1	87	34	.546	1.19	.55	30.0	30.0		16	16		8	1	
BM		21	1	86	40	.496	1.19	.50	38.0	40.0		19	20		9	1	
BM		22	1	80	44	.451	1.19	.45	50.0	60.0		23	27		11	1	

Stand Table Summary																
TC		TSTNDSUM														
Project																
GOATSHOT																
T11S R08W S26 TA1										T11S R08W S26 TA1						
Twp	Rge	Sec	Tract	Type				Acres	Plots	Sample Trees	Page:	2				
11S	08W	26	ALL	A1				50.00	47	104	Date:	03/13/2017				
											Time:	11:50:42AM				
S Spc	T	Sample		FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s		
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft.	Bd.Ft.		Tons	Cunits
BM		24	1	84	51	.379	1.19	.76	34.0	145.0		26	110	13	6	
BM		33	1	86	54	.201	1.19	.20	136.0	360.0		27	72	14	4	
BM		60	1	83	63	.061	1.19	.12	253.0	835.0		31	101	15	5	
BM		Totals		6	85	43	2.134	7.15	2.57	55.0	134.8		142	347	71	17
Totals		101		86	111	48.184	188.79	114.86	83.0	393.4		9534	45,183	4,767	2,259	

TC		TSTNDSUM														Stand Table Summary																									
														Project														GOATSHOT													
T11S R08W S26 TA2																												T11S R08W S26 TA2													
Twp		Rge		Sec		Tract		Type				Acres		Plots		Sample Trees		Page:		1																					
11S		08W		26		ALL		A2				7.00		8		24		Date:		03/13/2017																					
																		Time:		11:36:10AM																					
S		Av							Average Log		Net		Net		Net		T o t a l s																								
T		Sample		FF		Ht		Trees/		BA/		Logs		Net		Net		Tons/		Cu.Ft.		Bd.Ft.		Tons		Cunits		MBF													
Spc		DBH		Trees		16'		Tot		Acre		Acre		Acre		Cu.Ft.		Bd.Ft.		Acre		Acre		Acre		Acre		Acre													
DF		12		1		93		53		16.291		12.79		16.29		18.0		40.0		293		652		21		5															
DF		15		1		95		67		10.426		12.79		20.85		18.5		70.0		386		1,460		27		10															
DF		17		2		92		116		16.234		25.59		32.47		36.5		117.5		1,185		3,815		83		27															
DF		19		2		91		87		12.997		25.59		25.99		35.8		135.0		929		3,509		65		25															
DF		21		2		90		101		10.639		25.59		26.60		39.2		160.0		1,043		4,256		73		30															
DF		24		1		92		118		4.073		12.79		12.22		49.0		220.0		599		2,688		42		19															
DF		25		2		90		122		7.507		25.59		22.52		55.7		236.7		1,254		5,330		88		37															
DF		29		1		92		73		2.789		12.79		5.58		71.0		275.0		396		1,534		28		11															
DF		30		2		91		128		5.213		25.59		13.03		97.4		460.0		1,269		5,995		89		42															
DF		32		2		89		152		4.582		25.59		18.33		81.3		403.8		1,489		7,400		104		52															
DF		33		1		92		152		2.154		12.79		6.46		116.3		636.7		752		4,114		53		29															
DF		35		1		93		165		1.915		12.79		5.74		139.7		753.3		802		4,328		56		30															
DF		37		1		88		112		1.714		12.79		5.14		112.3		556.7		577		2,862		40		20															
DF		42		1		92		165		1.330		12.79		3.99		198.7		1076.7		793		4,295		55		30															
DF		43		1		91		125		1.269		12.79		3.81		165.7		856.7		631		3,261		44		23															
DF		63		1		90		178		.591		12.79		2.36		358.5		1820.0		848		4,303		59		30															
DF		Totals		22		92		99		99.723		281.48		221.39		59.8		270.1		13,245		59,800		927		419															
RA		16		1		86		29		3.009		4.20		3.01		17.0		20.0		51		60		4		0															
RA		21		1		87		46		1.747		4.20		1.75		43.0		30.0		75		52		5		0															
RA		Totals		2		86		35		4.756		8.40		4.76		26.5		23.7		126		113		9		1															
Totals				24		91		97		104.478		289.89		226.14		59.1		264.9		13371		59,913		936		419															

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
T11S R08W S26 TyA150.00 T11S R08W S26 TyA27.00				Project: GOATSHOT												Page 1					
				Acres 57.00												Date 3/13/2017					
																Time 11:59:31AM					
Spp	S T	So rt	Gr ad	%	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
				Net BdFt	Def%	Gross	Net		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	D	CU			100.0	434											35	11		0.00	2.0
DF	D	2		70	2.0	32,785	32,123	1,831			18	82			5	95	39	19	680	3.37	47.3
DF	D	3		28	8.0	14,232	13,097	747		25	16	59	3	6	7	84	35	12	259	1.72	50.6
DF	D	4		2	2.4	635	620	35	27	67		6	27	50	10	13	24	6	33	0.50	18.9
DF Totals				98	4.7	48,087	45,840	2,613	0	8	17	75	1	2	6	91	35	14	386	2.28	118.8
BM	D	CU															6	16		0.00	.3
BM	D	CR		100	4.8	320	304	17	13	9	21	58	60	5	6	30	30	9	135	1.86	2.3
BM Totals				1	4.8	320	304	17	13	9	21	58	60	5	6	30	26	10	117	1.81	2.6
RA	D	CR		100	.7	853	847	48	15	21	8	55	3	17	59	21	30	7	89	1.34	9.5
RA Totals				2	.7	853	847	48	15	21	8	55	3	17	59	21	30	7	89	1.34	9.5
Totals					4.6	49,260	46,992	2,679	1	8	17	74	2	3	7	89	34	13	359	2.22	130.9

T	Species, Sort Grade - Board Foot Volumes (Type)													Page	1						
Project: GOATSHOT															Date	3/13/2017					
															Time	11:50:42AM					
T11S R08W S26 TA1															T11S R08W S26 TA1						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
11S	08W	26	ALL	A1	50.00	47	104	1	W												
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf				
DF	D	CU		100.0	495										35	11		0.00	2.3		
DF	D	2	70	1.9	31,514	30,916	1,546			17	83			2	98	39	20	724	3.52	42.7	
DF	D	3	28	7.6	13,508	12,488	624			24	14	62	2	7	6	85	36	12	279	1.81	44.8
DF	D	4	2	3.5	500	483	24	14	77		9		33	53	14		23	6	33	0.50	14.6
DF	Totals		97	4.6	46,017	43,886	2,194	0	8	16	76	1	3	4	93	35	14	420	2.43	104.4	
RA	D	CR	100		950	950	48	13	22	8	56	3	16	60	21	30	8	93	1.38	10.2	
RA	Totals		2		950	950	48	13	22	8	56	3	16	60	21	30	8	93	1.38	10.2	
BM	D	CU														6	16		0.00	.4	
BM	D	CR	100	4.8	365	347	17	13	9	21	58	60	5	6	30	30	9	135	1.86	2.6	
BM	Totals		1	4.8	365	347	17	13	9	21	58	60	5	6	30	26	10	117	1.81	3.0	
Type Totals				4.5	47,332	45,183	2,259	1	8	16	76	2	3	5	91	35	14	384	2.34	117.6	

T	Species, Sort Grade - Board Foot Volumes (Type)										Page		1								
	Project: GOATSHOT										Date		3/13/2017								
											Time		11:36:10AM								
T11S R08W S26 TA2										T11S R08W S26 TA2											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
11S	08W	26	ALL	A2	7.00	8	24	1	W												
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf				
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft			
DF	D	2	68	2.7	41,866	40,751	285			22	78			19	81	37	18	511	2.74	79.7	
DF	D	3	29	10.1	19,403	17,447	122			28	30	42	6	2	13	79	34	11	191	1.41	91.6
DF	D	4	3		1,603	1,603	11	54	46				15	44		41	27	6	32	0.49	50.1
DF	Totals		100	4.9	62,872	59,800	419	1	9	23	66	2	2	17	80	34	12	270	1.77	221.4	
RA	D	CR	100	29.7	160	113	1	100					53		47	31	5	24	0.87	4.8	
RA	Totals		0	29.7	160	113	1	100					53		47	31	5	24	0.87	4.8	
Type Totals				4.9	63,033	59,913	419	2	9	23	66	2	2	17	80	34	12	265	1.75	226.1	

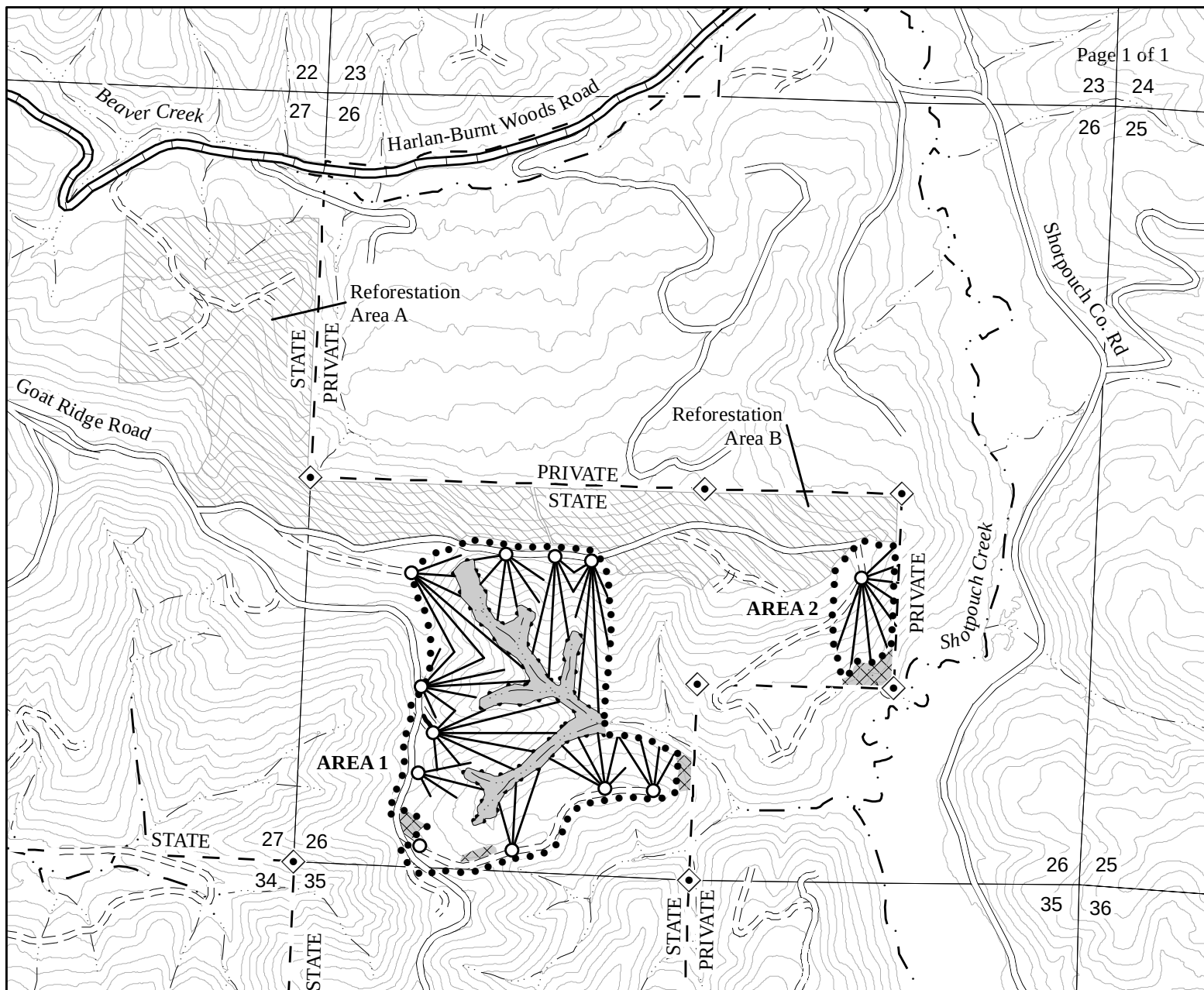
TC		PLOGSTVB		Log Stock Table - MBF																			
T11S R08W S26 TyA1				50.00		Project: GOATSHOT Acres 57.00		Net Volume by Scaling Diameter in Inches												Page 1			
T11S R08W S26 TyA2				7.00																Date 3/13/2017			
																				Time 11:59:32AM			
Spp	S T	So Gr rt	Log de Len	Gross MBF	Def %	Net MBF	% Spc													20-23	24-29	30-39	40+
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19								
DF		D	CU	16	1	100.0																	
DF		D	CU	25	11	100.0																	
DF		D	CU	30	3	100.0																	
DF		D	CU	50	10	100.0																	
DF		D	2	32	90	9.4	82	3.1				29	25	11	17								
DF		D	2	34	8		8	.3						8									
DF		D	2	40	1,770	1.7	1,741	66.6				62	141	343	295	368	357	176					
DF		D	3	10	1		1	.0				1											
DF		D	3	11	5	25.9	4	.1					1	1	1								
DF		D	3	12	2	22.2	1	.1						1									
DF		D	3	13	4	16.6	3	.1				2	1	1									
DF		D	3	14	2	23.8	1	.1							1								
DF		D	3	15	3	9.0	2	.1					2										
DF		D	3	16	2		2	.1					1			1							
DF		D	3	17	1		1	.0						1									
DF		D	3	18	1		1	.0				1											
DF		D	3	19	1		1	.0				1											
DF		D	3	20	3		3	.1						3									
DF		D	3	21	4		4	.2					1	1	1								
DF		D	3	22	14	16.6	12	.4								6	6						
DF		D	3	24	2		2	.1				2											
DF		D	3	25	10	8.1	9	.3				1			4		4						
DF		D	3	26	12	10.0	10	.4				1	2	2	2	3	2						
DF		D	3	28	5	10.3	4	.2									4						
DF		D	3	30	5	11.1	5	.2							5								
DF		D	3	31	4	12.2	3	.1							1	2							
DF		D	3	32	41	3.5	40	1.5				13	17	1	4	2	2						
DF		D	3	33	2		2	.1				2											
DF		D	3	34	6		6	.2				2	4										
DF		D	3	35	2		2	.1				2											
DF		D	3	36	6	7.4	6	.2				4		2									
DF		D	3	37	17	3.3	16	.6				4	8	2	2								
DF		D	3	39	2		2	.1				2											
DF		D	3	40	650	8.1	597	22.9				21	37	51	42	43	32	22	92	143	116		
DF		D	3	41	5	10.0	4	.2				4											
DF		D	4	13	1		1	.0				1											

TC		PLOGSTVB		Log Stock Table - MBF																
T11S R08W S26 TyA150.00 T11S R08W S26 TyA27.00				Project:GOATSHOT		Acres57.00		Page2 Date3/13/2017 Time11:59:32AM												
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		D	4	15	1		1	.0			1									
DF		D	4	16	3		3	.1			3									
DF		D	4	17	3		3	.1			3									
DF		D	4	18	1		1	.0				1								
DF		D	4	19	1		1	.0				1								
DF		D	4	20	1		1	.0			1									
DF		D	4	21	1		1	.1		1										
DF		D	4	22	5		5	.2			2	3								
DF		D	4	23	2		2	.1			2									
DF		D	4	26	4		4	.2			4									
DF		D	4	27	2		2	.1									2			
DF		D	4	30	3	25.0	3	.1			3									
DF		D	4	35	3		3	.1		3										
DF		D	4	40	5		5	.2		5										
DF		Totals			2,741	4.7	2,613	97.5		10	50	76	82	142	224	414	350	474	500	291
BM		D	CR	18	0		0	2.2		0										
BM		D	CR	20	11	8.1	10	57.7							5				5	
BM		D	CR	30	1		1	4.7		1										
BM		D	CR	35	1		1	5.7		1										
BM		D	CR	36	1		1	7.8			1									
BM		D	CR	38	0		0	1.0			0									
BM		D	CR	40	4		4	20.8						4						
BM		Totals			18	4.8	17	.6		2	2			4	5				5	
RA		D	CR	19	2		2	3.1			2									
RA		D	CR	24	1		1	2.7			1									
RA		D	CR	25	1	33.3	0	.9		0										
RA		D	CR	28	1		1	2.6		1										
RA		D	CR	29	3		3	5.3		3										
RA		D	CR	30	3		3	5.3		3										
RA		D	CR	31	2		2	3.5			2									
RA		D	CR	32	27		27	55.4							12	15				
RA		D	CR	36	2		2	4.6			2									
RA		D	CR	40	8	1.5	8	16.6		0	4		4							
RA		Totals			49		48	1.8		7	5	5	4		12	15				
Total		All Species			2,808	4.6	2,679	100.0		19	57	82	82	146	228	431	364	474	500	296

TC TLOGSTVB				Log Stock Table - MBF																
				Project: GOATSHOT																
T11S R08W S26 TA1										T11S R08W S26 TA1										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
11S	08W	26	ALL	A1	50.00	47	104	Date	3/13/2017											
										Time	11:50:42AM									
Spp	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
									MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
DF	D	CU	16		1	100.0														
DF	D	CU	25		11	100.0														
DF	D	CU	30		3	100.0														
DF	D	CU	50		10	100.0														
DF	D	2	32		35	18.1	29	1.3						17	4		8			
DF	D	2	34		8		8	.4							8					
DF	D	2	40		1,533	1.5	1,509	68.8						52	124	285	240	292	340	176
DF	D	3	11		5	25.9	4	.2							1	1	1			
DF	D	3	12		2	22.2	1	.1								1				
DF	D	3	13		4	16.6	3	.2					2	1	1					
DF	D	3	14		2	23.8	1	.1								1				
DF	D	3	15		2	13.3	2	.1						2						
DF	D	3	16		1		1	.0						1						
DF	D	3	18		1		1	.0					1							
DF	D	3	19		1		1	.1					1							
DF	D	3	21		4		4	.2						1	1	1				
DF	D	3	22		14	16.6	12	.5									6		6	
DF	D	3	24		2		2	.1					2							
DF	D	3	25		9	9.2	8	.4								4			4	
DF	D	3	26		10	11.2	9	.4					2	2	2	3	2			
DF	D	3	28		5	10.3	4	.2											4	
DF	D	3	30		5	11.1	5	.2								5				
DF	D	3	31		4	12.2	3	.2								1	2			
DF	D	3	32		27	5.3	26	1.2				13	3	1	4	2	2			
DF	D	3	34		6		6	.3			2	4								
DF	D	3	35		2		2	.1				2								
DF	D	3	36		6	7.4	6	.3				4		2						
DF	D	3	37		17	3.3	16	.7			4	8	2		2					
DF	D	3	40		547	7.3	507	23.1			18	33	51	15	39	32	15	86	118	101
DF	D	4	13		1		1	.0			1									
DF	D	4	16		3		3	.1			3									
DF	D	4	17		3		3	.1			3									
DF	D	4	18		1		1	.0					1							
DF	D	4	20		1		1	.0			1									
DF	D	4	22		4		4	.2			2	2								
DF	D	4	26		4		4	.2			4									
DF	D	4	27		2		2	.1									2			
DF	D	4	30		3	25.0	3	.1			3									
DF	D	4	35		3		3	.2		3										
DF	Totals				2,301	4.6	2,194	97.1		3	38	67	64	94	178	345	277	393	458	277
RA	D	CR	19		2		2	3.2			2									
RA	D	CR	24		1		1	2.7				1								
RA	D	CR	28		1		1	2.6		1										
RA	D	CR	29		3		3	5.4		3										
RA	D	CR	30		3		3	5.4		3										
RA	D	CR	31		2		2	3.6				2								
RA	D	CR	32		27		27	56.3								12	15			
RA	D	CR	36		2		2	4.7				2								
RA	D	CR	40		8		8	16.1			4			4						
RA	Totals				48		48	2.1		6	5	5		4		12	15			

TC TLOGSTVB				Log Stock Table - MBF															
				Project: GOATSHOT															
T11S R08W S26 TA1										T11S R08W S26 TA1									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		2	
11S		08W		26		ALL		A1		50.00		47		104		Date		3/13/2017	
																Time		11:50:42AM	
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches									
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13
BM	D	CU	6																
BM		D	CR	18		0		0	2.2		0								
BM		D	CR	20		11	8.1	10	57.7								5		5
BM		D	CR	30		1		1	4.7		1								
BM		D	CR	35		1		1	5.7		1								
BM		D	CR	36		1		1	7.8			1							
BM		D	CR	38		0		0	1.0			0							
BM		D	CR	40		4		4	20.8							4			
BM		Totals			18	4.8	17	.8	2	2				4	5				5
Total All Species					2,367	4.5	2,259	100.0	12	45	72	64	98	182	362	292	393	458	282

TC TLOGSTVB				Log Stock Table - MBF																																					
				Project: GOATSHOT																																					
T11S R08W S26 TA2										T11S R08W S26 TA2																															
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1																							
11S		08W		26		ALL		A2		7.00		8		24		Date		3/13/2017																							
																Time		11:36:11AM																							
S				So Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																									
Spp				T		rt de		Len		MBF		Def		MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
DF				D		2		32		55		3.8		53		12.7								11		21		11		10											
DF				D		2		40		238		2.4		232		55.5								9		17		58		55		76		17							
DF				D		3		10		1				1		.3								1																	
DF				D		3		15		1				1		.2								1																	
DF				D		3		16		1				1		.3												1													
DF				D		3		17		1				1		.3										1															
DF				D		3		20		3				3		.7										3															
DF				D		3		25		1				1		.3						1																			
DF				D		3		26		1				1		.3						1																			
DF				D		3		32		14				14		3.3								14																	
DF				D		3		33		2				2		.5				2																					
DF				D		3		39		2				2		.6								2																	
DF				D		3		40		103		12.8		90		21.5				3		5				27		4				7		5		24		14			
DF				D		3		41		5		10.0		4		1.0				4		5																			
DF				D		4		15		1				1		.1						1																			
DF				D		4		19		1				1		.3						1																			
DF				D		4		21		1				1		.3				1																					
DF				D		4		22		1				1		.3						1																			
DF				D		4		23		2				2		.6				2																					
DF				D		4		40		5		10.0		5		1.1				5																					
DF						Totals				440		4.9		419		99.8				6		12		10		17		49		46		69		73		81		41		14	
RA				D		CR		25		1		33.3		0		53.5				0																					
RA				D		CR		40		0		25.0		0		46.5				0																					
RA						Totals				1		29.7		1		.2				1																					
Total All Species										441		4.9		419		100.0				7		12		10		17		49		46		69		73		81		41		14	



Legend

Boundaries

- Timber Sale Boundary
- + - - Area Boundary (Posted)
- - - State Forest Property Boundary
- . - . Right of Way (Posted)

Roads

- = = = Unsurfaced Road
- — — Surfaced Road
- — — Paved Road
- — — New Construction

Streams

- — · Type F Stream
- — · Type N Stream
- — — Posted Stream Buffer
- — — Stream Buffer
- — — Reforestation Area

- — — Cable Corridors

- Landings
- ◆ Land Survey Monument
- ▨ Green Tree Retention Area

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-17-061
GOAT SHOT
PORTIONS OF SECTION 26, T11S, R8W, W.M.,
LINCOLN COUNTY, OREGON

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Scale

1:12,000



	NET ACRES TRACTOR	NET ACRES CABLE
1 (MC)	9	41
2 (MC)	1	6
TOTAL	10	47



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