Timber Sale Appraisal
SoHo

Sale WO-341-2020-W00343-01

"STEWARDSHIP IN FORESTRY"

District: West Oregon

Date: July 17, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,128,230.77	$0.00	$1,128,230.77
		Project Work:	($39,722.00)
		Advertised Value:	$1,088,508.77

"STEWARDSHIP IN FORESTRY"

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District: West Oregon **Date: July 17, 2019**

Timber Description

Location: Portions of Sections 25 and 36, T10S, R7W, W.M. Benton County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	25	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	2,041	510	2,551
Total	2,041	510	2,551

Comments: Pond Values Used: Local Pond Values, June, 2019

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$293.47/MBF = $550/MBF - $256.53/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$743.47/MBF = $1,000/MBF - $256.53/MBF

Red Alder Stumpage Price = Pond Value minus Logging Cost:
$273.47/MBF = $530/MBF - $256.53/MBF

Bigleaf Maple and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
$163.47/MBF = $420/MBF - $256.53/MBF

PULP (Conifer and Hardwood Price) = $3/TON

Other Costs (with Profit & Risk to be added): None

TOTAL Other Costs (with Profit & Risk to be added) = None

Other Costs (No Profit & Risk added):

Equipment Cleaning (Invasive Species): $2,000

Water Bar and Block Dirt Roads: 25 stations @ $15.96/station = $399.00

Landing slah piling/firewood sorting: 8 Landings @ $180/Landing = $1,440

TOTAL Other Costs (No Profit & Risk added) = $3,839

ROAD MAINTENANCE
Move-in: (Grader and Roller) $1,750
Final Road Maintenance: $5,069.74
TOTAL Road Maintenance: $6,819.74/2,551 MBF = $2.67/MBF

SLASH DISPOSAL
Weed Wash: $300
Move-In: $1,290
Project Work:
In Unit:28 hrs @ $150/hr = $4,200

TOTAL Slash Disposal = $5,790

"STEWARDSHIP IN FORESTRY"

District: West Oregon **Date: July 17, 2019**

Logging Conditions

Combination#: 1 Douglas - Fir 47.00%

Logging System: Cable: Large Tower >=70 **Process:** Manual Falling/Delimbing

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 9 **bd. ft / load:** 4500

cost / mbf: $167.90

machines: Log Loader (A)
Tower Yarder (Large)

Combination#: 2 Douglas - Fir 53.00%

Logging System: Shovel **Process:** Manual Falling/Delimbing

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 10 **bd. ft / load:** 4600

cost / mbf: $85.60

machines: Shovel Logger

"STEWARDSHIP IN FORESTRY"

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Sale WO-341-2020-W00343-01

District: West Oregon **Date: July 17, 2019**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$39,722.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$5,790.00	**Other Costs:**	$2,839.00

Miles of Road

Road Maintenance: $2.67

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

Timber Sale Appraisal
SoHo

Sale WO-341-2020-W00343-01

District: West Oregon **Date: July 17, 2019**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$124.28	$2.75	$3.44	$97.85	$0.00	$22.83	$2.27	$2.00	$1.11	$256.53

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$698.80	$442.27	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
SoHo
Sale WO-341-2020-W00343-01

District: West Oregon **Date: July 17, 2019**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,551	$442.27	$1,128,230.77

Gross Timber Sale Value

Recovery: $1,128,230.77

Prepared By: Cody Valencia **Phone:** 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: SOHO Date: August 2019
Time: 8:46

Project #1 - Improvements

Road Segment	Length	Cost	
1 to 2	114.2 sta	$12,100	
3 to 4	9.2 sta	$1,842	
5 to 6	8.2 sta	$8,777	
7 to 8	15.1 sta	$1,094	
9 to 10	0.9 sta	$27	
11 to 12	13.7 sta	$3,771	
13 to 14	1.5 sta	$44	
TOTALS	162.8 sta		$27,655

Project #2 - Brushing	3.6 miles		
Brushing		$3,309	
Sod and Brush Removal		$2,229	
TOTAL			$5,538

Project #3 - Roadside Spraying	7.9 miles		$1,646

Project #4 - Move in	Cost	
Excavator, C325 or equiv.	$1,450	
Dozer, D-7 or equiv.	$905	
Grader, Cat 14-G or equiv.	$875	
Vibratory roller	$875	
Road Brusher	$778	
TOTAL		$4,883

GRAND TOTAL **$39,722**

Compiled by Cody Valencia Date 08/05/2019

SUMMARY OF CONSTRUCTION COST

SALE	SOHO	Project #	1	LENGTH improve	114.2 sta
ROAD	1 to 2 (Surfaced)				

IMPROVEMENT

Remove sod (Pt. 11 to Pt. 2) and brushing debris (with grader)	29.6	sta	@	$15.40	/sta	=	$456
Shape surface (with road grader)	32.0	sta	@	$15.40	/sta	=	$493

TOTAL IMPROVEMENT = $949

SURFACING			Size	Cost/yd			
Surface rock (2"lift) (Sta 82+20 to 114+20)	350	cy of	1½"-0"	$17.59	=	$6,157	
Process surface rock (with road grader)	42	sta @	$15.40	/sta	=	$647	
Compact road surface (with vibratory roller)	32	sta @	$14.00	/sta	=	$448	
Turnout rock (2)	20	cy of	1½"-0"	$17.59	=	$352	
Landing rock (Pt. 2)	20	cy of	3"-0"	$17.25	=	$345	
Junction rock (Sta. 82+20)	10	cy of	3"-0"	$17.25	=	$173	
Spot rock (Pt. 1 to 82+20)	50	cy of	1½"-0"	$17.59	=	$880	
Culvert bedding rock (Sta. 13+50)	20	cy of	1½"-0"	$17.59	=	$352	
Dissipator (Sta. 13+5)	10	cy of	Pit-Run	$14.89	=	$149	
Backfill rock (Sta. 12+50)	10	cy of	1½"-0"	$17.59	=	$176	
Backfill rock (Sta. 12+50)	20	cy of	3"-0"	$17.25	=	$345	

TOTAL ROCK COST = $10,024

SPECIAL PROJECTS

Install culvert (Sta. 13+50) (18" x 40' cpp)	40	ft	@	$12.06	/ft	=	$482
Install culvert	2	hrs	@	$140.00	/hr	=	$280
Install dissipator	0.5	hrs	@	$140.00	/hr	=	$70
Culvert Removal (Sta. 12+50)	0.5	hrs	@	$140.00	/hr	=	$70
Culvert disposal	1	culvert	@	$100.00	/culv.	=	$100
Clean out culverts (inlets and outlets)	5	culverts	@	$25.00	ea	=	$125

TOTAL SPECIAL PROJECTS COST = $1,127

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $12,100

SUMMARY OF CONSTRUCTION COST

SALE SOHO Project # 1 LENGTH improve 9.2 sta
ROAD 3 to 4 (Unsurfaced)

CLEARING AND GRUBBING

0.07	acres	@	$1,337.00	/acre	=	$94

TOTAL CLEARING AND GRUBBING = $94

IMPROVEMENT

Re-open road (with dozer)	8.2	sta	@	$36.67	/sta	=	$301
Re-open landing (3) (with dozer)	1.5	hrs	@	$110.00	/hr	=	$165
Shape surface (with road grader)	8.2	sta	@	$15.40	/sta	=	$126
Compact subgrade (with vibratory roller)	8.2	sta	@	$14.00	/sta	=	$115

TOTAL IMPROVEMENT = $707

SURFACING

Junction rock (Sta. 0+00)	20	cy of		3"-0"	$17.25	=	$345
Process surfacing (with road grader)	0.50	Sta	@	$15.40	/sta	=	$8
Compact surfacing (with vibratory roller)	0.50	Sta	@	$14.00	/sta	=	$7

TOTAL ROCK COST = $360

EXCAVATION With D7 dozer or equivalent

Construct road	1.0	sta	@	$214.00	/sta	=	$214
Construct landing	1	ldg	@	$438.00	/ldg	=	$438
Shape subgrade (with road grader)	1.0	sta	@	$15.40	/sta	=	$15
Compact subgrade (with vibratory roller)	1.0	sta	@	$14.00	/sta	=	$14

TOTAL EXCAVATION = $681

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $1,842

SUMMARY OF CONSTRUCTION COST

SALE SOHO Project # 1 LENGTH improve 8.2 sta
ROAD 5 to 6 (Unsurfaced)

CLEARING AND GRUBBING

0.10	acres	@	$1,337.00	/acre	=	$134

TOTAL CLEARING AND GRUBBING = $134

IMPROVEMENT

Re-open road (with dozer)	6.7	sta	@	$36.67	/sta	= $246
Re-open Landing (with dozer)	0.5	hrs	@	$110.00	/hr	= $55
Shape surface (with road grader)	6.7	sta	@	$15.40	/sta	= $103
Compact subgrade (with vibratory roller)	6.7	sta	@	$14.00	/sta	= $94

TOTAL IMPROVEMENT = $498

EXCAVATION With D7 dozer or equivalent

Construct road	1.5	sta	@	$214.00	/sta	= $321
Construct Landing	1	ldg	@	$438.00	/ldg	= $438
Shape subgrade (with road grader)	1.5	sta	@	$15.40	/sta	= $23
Compact subgrade (with vibratory roller)	1.5	sta	@	$14.00	/sta	= $21

TOTAL EXCAVATION = $803

SURFACING

			Size	Cost/yd		
Base rock (8" lift)	360	cy of	Jaw-Run	$15.90	=	$5,724
Landing rock (2)	80	cy of	Jaw-Run	$15.90	=	$1,272
Junction rock (Pt. 5)	10	cy of	3"-0"	$17.25	=	$173
Turnaround rock	10	cy of	3"-0"	$17.25	=	$173

TOTAL ROCK COST = $7,342

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $8,777

SUMMARY OF CONSTRUCTION COST

SALE SOHO Project # 1 LENGTH improve 15.1 sta
ROAD 7 to 8 (Unsurfaced)

IMPROVEMENT

Re-open road (with road grader)	15.1	sta	@	$15.40	/sta	=	$233
Shape surface (with road grader)	15.1	sta	@	$15.40	/sta	=	$233
Compact subgrade (with vibratory roller)	15.1	sta	@	$14.00	/sta	=	$211
Remove bank slough (with road grader)	0.5	hr	@	$114.00	/hr	=	$57.00

TOTAL IMPROVEMENT = $734

SURFACING

Junction rock (Sta. 0+00)	20	cy of		3"-0"	$17.25	=	$345
Process surfacing (with road grader)	0.50	Sta	@	$15.40	/sta	=	$8
Compact surfacing (with vibratory roller)	0.50	Sta	@	$14.00	/sta	=	$7

TOTAL ROCK COST = $360

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $1,094

SUMMARY OF CONSTRUCTION COST

SALE SOHO Project # 1 LENGTH improve 0.9 sta
ROAD 9 to 10 (Unsurfaced)

IMPROVEMENT

Remove sod and Shape surface (with road grader)	0.9 sta	@	$15.40	/sta	=	$14
Compact subgrade (with vibratory roller)	0.9 sta	@	$14.00	/sta	=	$13

TOTAL IMPROVEMENT COST = $27

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $27

SUMMARY OF CONSTRUCTION COST

SALE	SOHO	Project #	1	LENGTH	improve	13.7 sta
ROAD	11 to 12 (Surfaced)					

IMPROVEMENT

Shape surface (with road grader)	13.7	sta	@	$15.40	/sta	=	$211
					TOTAL IMPROVEMENT =		$211

SURFACING			Size	Cost/yd			
Surface rock (2"lift)	150	cy of	1½"-0"	$17.59	=	$2,639	
Turnout rock (1)	10	cy of	3"-0"	$17.25	=	$173	
Landing rock(1)	20	cy of	3"-0"	$17.25	=	$345	
Process surface rock (with road grader)	13.7	sta	@	$15.40	/sta	=	$211
Compact road surface (with vibratory roller)	13.7	sta	@	$14.00	/sta	=	$192
					TOTAL ROCK COST =		$3,560

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $3,771

SUMMARY OF CONSTRUCTION COST

SALE	SOHO		Project #	1	LENGTH	improve	1.5 sta
ROAD	13-14 (Surfaced)						

IMPROVEMENT

Remove sod and Shape surface (with road grader)	1.5 sta	@	$15.40	/sta	=	$23
Compact subgrade (with vibratory roller)	1.5 sta	@	$14.00	/sta	=	$21

TOTAL IMPROVEMENT COST = $44

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $44

SUMMARY OF CONSTRUCTION COST

SALE	SOHO	Project #	2	LENGTH	const	144.75	sta
ROADS	B1 through B24 (Surfaced)						

IMPROVEMENT

Remove sod and brushing debris (with grader)	144.75	sta	@	$15.40	/sta	=	$2,229

TOTAL IMPROVEMENT = $2,229

Compiled by: Cody Valencia
Date: Aug 5, 2019

GRAND TOTAL =====> $2,229

Mechanical Brushing Costs

Project # 2 Date: Aug 5, 2019

Road Segment/ Point	Road Name	Length (Feet)	Miles	Brush Density	Cost / Mile	Segment Cost
11 to 2		2,955	0.56	Light	$800.00	$448
11 to 12		1,370	0.26	Light	$800.00	$208
13 to 14		150	0.03	Medium	$1,100.00	$33
B1 to B2		4,200	0.80	Medium	$1,100.00	$880
B3 to B4		1,025	0.19	Light	$800.00	$152
B5 to B6		803	0.15	Medium	$1,100.00	$165
B7 to B8		1,395	0.26	Light	$800.00	$208
B9 to B10		480	0.09	Medium	$1,100.00	$99
B11 to B12		1,380	0.26	Medium	$1,100.00	$286
B13 to B14		977	0.19	Light	$800.00	$152
B15 to B16		745	0.14	Light	$800.00	$112
B17 to B18		1,310	0.25	Light	$800.00	$200
B17 to B19		200	0.04	Light	$800.00	$32
B17 to B20		250	0.05	Light	$800.00	$40
B21 to B22		1,198	0.23	Light	$800.00	$184
B23 to B24		512	0.10	Medium	$1,100.00	$110
Totals		**18,950**	**3.60**			**$3,309**

Total Cost **$3,309**

Roadside Spraying

Project # 3 Date: Aug 5, 2019

Road Segment/ Point	Road Name	Length (Feet)	Miles	Cost / Mile	Segment Cost
All Roads as shown on Exhibit "F" Roadside Spraying Map		41,806	7.9	$195.00	$1,541
Totals		**41,806**	**7.9**		**$1,541**

Marking Water Crossings

3 Hrs @ $35.00 /hr $105.00

Total Cost **$1,646**

Cost includes labor, equipment and chemicals.

SUMMARY OF MAINTENANCE COST

SALE SOHO Final log haul Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Grading Move-in $ 875

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 7	78.4	$15.40	$1,207.36	1.48
5 to 6	8.2	$15.40	$126.28	0.16
Total	86.6		$1,333.64	1.64

Rolling Move-in $ 875

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 7	78.4	$14.00	$1,097.60	1.48
Total	78.4		$1,097.60	1.48

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	150	$17.59	$2,638.50
3"-0"	0	$17.25	$0.00

Grand Total $ 6,819.74

TS Volume 2,551 MBF

Cost / MBF = $2.67

NOTES:

Rock Haul Cost Computation

SALE NAME: SOHO DATE: Aug 5, 2019
ROAD NAME: Bonner Creek Road CLASS: Medium
ROCK SOURCE Wild Rose 10 CY truck
Route: Hwy 223, Luckiamute Rd., Hoskins Rd., Bonner Creek Rd.

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH	9.2	MRT	11.0	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH	3.5	MRT	6.0	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH	2.0	MRT	4.8	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	3.0	MRT	12.0	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)		34.30	minutes
Operator efficiency correction	0.85	40.35	minutes
Job efficiency correction	0.90	44.83	minutes
Truck capacity (CY)	10.00	4.48	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		4.73	min/CY

COST per CY computation

Cost of truck and operator per hour	$68.88	/hr.
Cost of truck and operator per minute	$1.15	/min
Cost per CY	$5.44	/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"	$ 12.15	$17.59	$19.09
3" - 0"	$ 11.81	$17.25	$18.75
Jaw Run	$ 10.46	$15.90	$17.40
Pit-Run	$ 9.45	$14.89	$16.39

TIMBER CRUISE REPORT

SOHO
(WO-341-2020-W00343-01)
FY 2019

1. **Sale Area Location**: Portions of Sections 25 and 36, T10S, R7W, W.M., Benton County, Oregon.

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

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffers	Existing Roads	New Roads	Green Tree Areas	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	66	3	3	<1	<1	60	GIS

4. **Cruisers and Cruise Dates:** 24 of the plots in this sale were cruised by Joe Koch December 2017. The remaining plot was cruised by Cody Valencia July 2019.

5. **Cruise Method and Computation:** The sale consists of one modified clearcut area that was cruised using variable radius plot sampling. The sale area was cruised using a nested plot design using a 20 BAF and 40 BAF with plots spaced 3 chains apart on plot lines spaced 6 chains apart. A total of 25 plots were taken with 9 measure plots and 16 count plots. Plots #23 was dropped due to being within an existing road. Plot 26 was added to reduce the SE%.

6. 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.

7. **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.

8. **Timber Description:** Timber in the sale area includes 60 acres of 40 to 91 year-old Douglas-fir. The average Douglas-fir is approximately 25 inches DBH, with an average height of 132 feet to a merchantable top. The average volume per acre to be harvested (net) is approximately 43 MBF. Conifer trees other than Douglas-fir are reserved from cutting.

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

Area	Target CV	Target SE	Actual CV	Actual SE
1	45%	9%	43.9%	9.0%

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

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

Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Douglas-fir	2,604	--%	1	2%	52	2,551
Total	2,604	--%	1	2%	52	2,551

Species	Ave. DBH	Net Vol.	2-Saw	3-Saw	4-Saw	% by Species
Douglas-fir	25	Grade %	80%	17%	3%	100%
		2,551	2,041	434	76	
Total		2,551	2,041	434	76	100%

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

Prepared by: Cody Valencia Date: 8/1/2019

Unit Forester: Evelyn Hukari Date: 8/2/19

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: SOHO

Page 1
Date 8/5/2019
Time 9:00:09AM

T010 R007 S25 T0MCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
010	007	25	SOHO	0MCC	60.00	25	51	1	W

T010 R007 S25 T0MCC

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent 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		DO	CU														4	22		0.00	.8
DF		DO	2M	80	.0	34,911	34,903	2,094			9	91		2	1	97	40	20	734	3.41	47.5
DF		DO	3M	17		7,228	7,228	434	1	52	31	16			6	94	39	10	167	1.12	43.4
DF		DO	4M	3		1,253	1,253	75	37	58	5		29	25	14	32	25	6	38	0.49	33.1
DF	**Totals**			100	.0	43,392	43,383	2,603	1	10	13	76	1	2	2	95	35	13	348	1.98	124.8
Type Totals					.0	43,392	43,383	2,603	1	10	13	76	1	2	2	95	35	13	348	1.98	124.8

TC TSTATS

STATISTICS

PAGE 1

PROJECT SOHO

DATE 8/5/2019

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
010	**007**	**25**	**SOHO**	**0MCC**	60.00	25	139	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	25	139	5.6		
CRUISE	9	51	5.7	2,558	2.0
DBH COUNT					
REFOREST					
COUNT	16	88	5.5		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF	51	42.6	25.4	132	29.8	150.4	43,392	43,383	8,744	8,744
TOTAL	*51*	*42.6*	*25.4*	*132*	*29.8*	*150.4*	*43,392*	*43,383*	*8,744*	*8,744*

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	105.1	14.7	1,478	1,733	1,988			
TOTAL	*105.1*	*14.7*	*1,478*	*1,733*	*1,988*	*441*	*110*	*49*

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	89.8	12.6	288	330	371			
TOTAL	*89.8*	*12.6*	*288*	*330*	*371*	*322*	*81*	*36*

CL: 68.1 % COEFF — **TREES/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	58.7	12.0	38	43	48			
TOTAL	*58.7*	*12.0*	*38*	*43*	*48*	*143*	*36*	*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	40.1	8.2	138	150	163			
TOTAL	*40.1*	*8.2*	*138*	*150*	*163*	*67*	*17*	*7*

CL: 68.1 % COEFF — **NET BF/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	43.9	9.0	39,495	43,383	47,271			
TOTAL	*43.9*	*9.0*	*39,495*	*43,383*	*47,271*	*80*	*20*	*9*

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	42.6	8.7	7,984	8,744	9,504			
TOTAL	*42.6*	*8.7*	*7,984*	*8,744*	*9,504*	*76*	*19*	*8*

TC TSTNDSUM

Stand Table Summary

Project SOHO

T010 R007 S25 T0MCC

T010 R007 S25 T0MCC

Page: 1

Date: 08/05/201

Time: 9:00:10AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
010	007	25	SOHO	0MCC	60.00	25	51

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	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		11	1	88	96	2.922	1.93	5.84	12.5	50.0		73	292		44	18
DF		13	2	88	86	4.184	3.86	8.37	16.5	55.0		138	460		83	28
DF		14	3	88	94	5.411	5.78	10.82	20.7	76.7		224	830		134	50
DF		16	2	89	105	2.762	3.86	5.52	28.7	107.5		159	594		95	36
DF		17	1	88	116	1.223	1.93	2.45	36.5	135.0		89	330		54	20
DF		18	1	88	109	1.091	1.93	3.27	25.7	93.3		84	306		50	18
DF		21	2	89	131	1.603	3.86	4.81	40.7	170.0		196	818		117	49
DF		23	1	89	145	1.337	3.86	4.01	52.0	213.3		209	855		125	51
DF		24	1	88	150	1.228	3.86	3.68	58.3	253.3		215	933		129	56
DF		25	1	89	140	.566	1.93	1.70	62.0	276.7		105	469		63	28
DF		26	1	88	149	1.046	3.86	3.14	70.7	320.0		222	1,004		133	60
DF		28	3	88	158	2.706	11.57	8.12	83.0	403.3		674	3,274		404	196
DF		29	3	88	173	2.522	11.57	10.09	70.7	354.2		713	3,573		428	214
DF		30	6	88	161	3.928	19.28	14.14	81.3	401.7		1,149	5,680		690	341
DF		31	4	88	157	1.839	9.64	6.25	90.8	450.0		568	2,814		341	169
DF		32	3	87	155	1.381	7.71	4.83	91.4	442.1		442	2,137		265	128
DF		33	5	88	163	2.922	17.35	11.04	94.7	477.9		1,045	5,275		627	317
DF		34	2	88	169	1.223	7.71	4.89	98.9	523.8		484	2,563		290	154
DF		35	1	88	165	.289	1.93	1.15	103.2	545.0		119	629		72	38
DF		36	1	88	185	.546	3.86	2.18	119.5	672.5		261	1,468		156	88
DF		40	1	86	193	.442	3.86	1.77	147.0	792.5		260	1,401		156	84
DF		41	1	88	165	.421	3.86	1.68	142.0	767.5		239	1,291		143	77
DF		42	1	89	178	.200	1.93	.80	156.5	895.0		125	717		75	43
DF		44	1	88	180	.183	1.93	.73	178.8	1005.0		131	734		78	44
DF		51	1	88	190	.272	3.86	1.09	245.5	1420.0		267	1,544		160	93
DF		57	1	88	200	.218	3.86	.87	318.0	1922.5		277	1,674		166	100
DF		64	1	89	203	.173	3.86	.69	403.5	2487.5		279	1,718		167	103
DF		Totals	51	88	134	42.635	150.40	123.95	70.5	350.0		8,744	43,383		5,247	2,603
Totals			51	88	134	42.635	150.40	123.95	70.5	350.0		8744	43,383		5,247	2,603

TC TLOGSTVB

Log Stock Table - MBF

Project: SOHO

T010 R007 S25 T0MCC

T010 R007 S25 T0MCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
010	007	25	SOHO	0MCC	60.00	25	51

Date 8/5/2019

Time 9:00:09AM

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		DO	CU	4																
DF		DO	2M	24	41		41	1.6									41			
DF		DO	2M	32	18		18	.7											18	
DF		DO	2M	40	2,036	.0	2,035	78.2						43	31	531	716	405	186	123
DF		DO	3M	32	25		25	1.0				5	5		4	6	6			
DF		DO	3M	36	6		6	.2					6							
DF		DO	3M	40	403		403	15.5		3	18	87	106	79	38	45		27		
DF		DO	4M	6																
DF		DO	4M	12	3		3	.1		1	0	0	2							
DF		DO	4M	16	8		8	.3		2	2	3	2							
DF		DO	4M	17	1		1	.0		1										
DF		DO	4M	20	11		11	.4			1	4	5							
DF		DO	4M	23	5		5	.2		5										
DF		DO	4M	24	11		11	.4		9	2									
DF		DO	4M	26	3		3	.1						3						
DF		DO	4M	32	10		10	.4		3	4	1	2							
DF		DO	4M	36	4		4	.2		4										
DF		DO	4M	38	3		3	.1		3										
DF		DO	4M	40	16		16	.6			16									
DF		Totals			2,604		2,603	100.0		31	44	100	126	126	73	582	763	432	203	123
Total All Species					2,604		2,603	100.0		31	44	100	126	126	73	582	763	432	203	123

Oregon Department of Forestry

OPERATIONAL PERIODS and SEASONAL RESTRICTIONS

West Oregon, NWOA
24533 ALSEA HWY, PHILOMATH, OR 97370
(541) 929-3266

Sale Number		
WO-341-2020-W00343-01	SoHo	October 31, 2021

Harvesting	Comments	Units	Project	Jan 1	Jan 15	Feb 1	Feb 15	Mar 1	Mar 15	Apr 1	Apr 15	May 1	May 15	Jun 1	Jun 15	Jul 1	Jul 15	Aug 1	Aug 15	Sep 1	Sep 15	Oct 1	Oct 15	Nov 1	Nov 15	Dec 1	Dec 15	Date
Slash Treatment	Slash Piling																											
Ground yarding																												

Hauling	Comments	Units	Project	Jan 1	Jan 15	Feb 1	Feb 15	Mar 1	Mar 15	Apr 1	Apr 15	May 1	May 15	Jun 1	Jun 15	Jul 1	Jul 15	Aug 1	Aug 15	Sep 1	Sep 15	Oct 1	Oct 15	Nov 1	Nov 15	Dec 1	Dec 15	Date
Log Hauling on Unsurfaced Roads																												

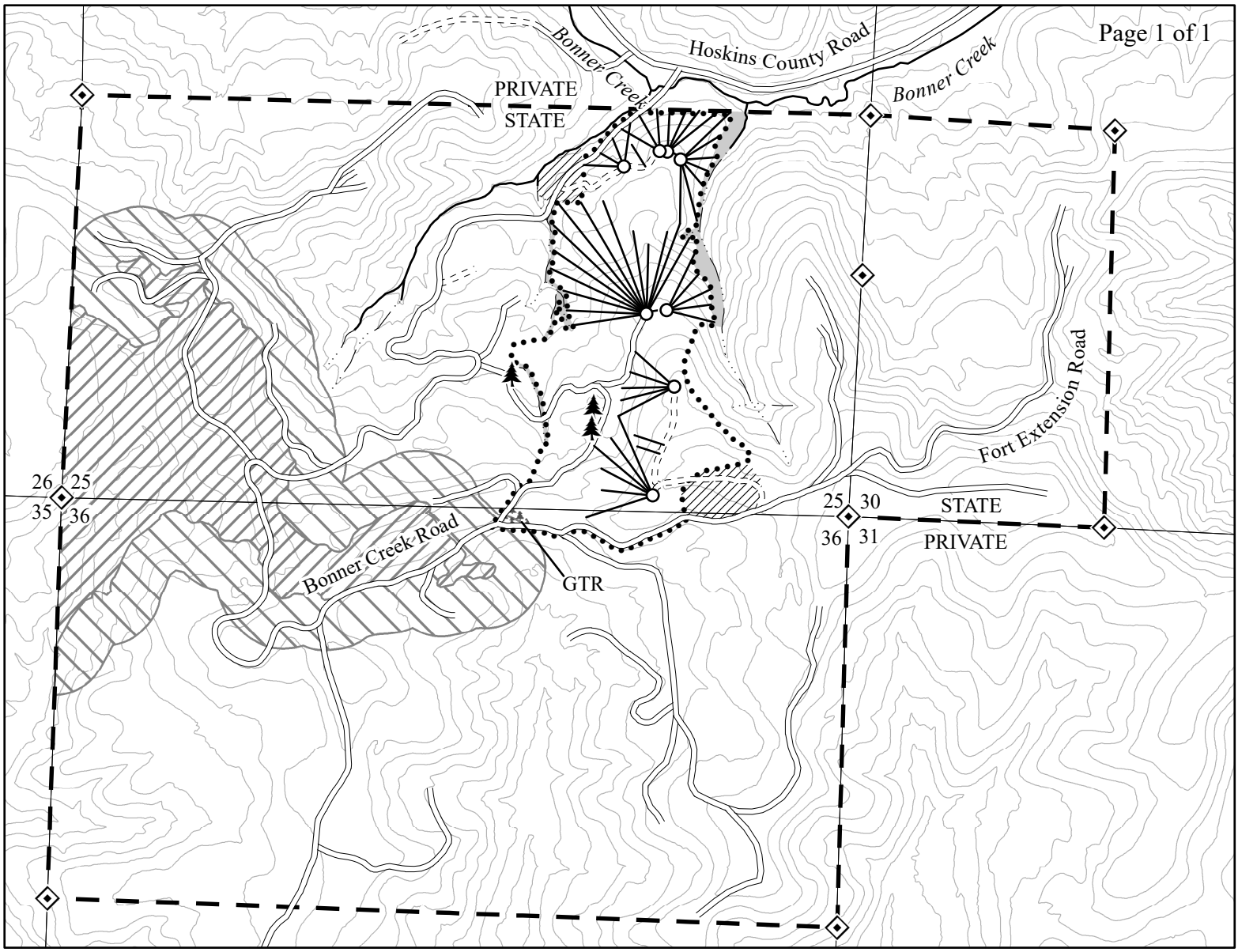
Project Work	Comments	Units	Project	Jan 1	Jan 15	Feb 1	Feb 15	Mar 1	Mar 15	Apr 1	Apr 15	May 1	May 15	Jun 1	Jun 15	Jul 1	Jul 15	Aug 1	Aug 15	Sep 1	Sep 15	Oct 1	Oct 15	Nov 1	Nov 15	Dec 1	Dec 15	Date
Landing and Road Construction or Improvement Operations																												
Non-project roads and landings																												
Activity in Live Streams																												
Other	Roadside Spraying																											

Operation Allowed

Operation Restricted

Activity Restricted 2 hours before sunset and 2 hours after sunrise

This report is for information purposes only. Refer to Section 2455 Seasonal Restrictions of the contract.



Logging Plan

OF TIMBER SALE CONTRACT NO.
WO-341-2020-W00343-01
SOHO
PORTIONS OF SECTIONS 25 AND 36
OF T10S, R7W, W.M.
BENTON COUNTY, OREGON.

Area	Tractor Acres	Cable Acres
1 (MC)	32	28
TOTAL	32	28

Legend

- Ownership
- Timber Sale Boundary
- Green Tree Retention Area (GTR)
- Stream Buffer

Marbled Murrelet Management Area

- Occupied Habitat
- Non-Habitat Buffer
- Reforested Area
- Surfaced Road
- Unsurfaced Road
- New Construction
- Type "F" Stream
- Type "N" Stream
- Cable Corridor
- Landing
- Land Survey Monument

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information

N

Approximate Scale 1" = 1000'

0 500 1,000 2,000 Feet