



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Sunset Summit SI  
Sale 341-13-22

District: Astoria

Date: December 03, 2012

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**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$958,978.76	\$326.87	\$959,305.63
		<b>Project Work:</b>	\$(16,552.00)
		<b>Advertised Value:</b>	\$942,753.63



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**timber description**

**Location:** Portions of Sections 23 and 24, T4N, R7W, W.M., Clatsop County, Oregon.

**Stand Stocking:** 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	97
Western Hemlock / Fir	13	0	97
Alder (Red)	20	0	95

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	1,692	1,067	125	0	2,884
Western Hemlock / Fir	2	51	12	0	65
Alder (Red)	0	0	0	1	1
Total	1,694	1,118	137	1	2,950



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comments: Pond Values Used: 3rd Quarter Calendar Year 2012.

Expected Log Markets: Warrenton, OR; Mist, OR; Clatskanie, OR;  
Tillamook, OR; Forest Grove, OR.

Western redcedar and Other Cedars Stumpage Price = Pond Value  
minus Logging Cost  
 $\$789.67/\text{MBF} = \$975/\text{MBF} - \$185.33/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

100% Branding and Painting:  $\$1/\text{MBF} \times 2,950 \text{ MBF} = \$2,950$

Machine washing for noxious weed compliance = \$2,000

TOTAL Other Costs (with Profit & Risk to be added) = \$4,950

Other Costs (No Profit & Risk added):

Vacate, pull culvert at 9+25 and crunch dirt road segment 1A-1B  
after harvest:

    \$50/station x 11 stations = \$550

    Equipment time to pull culvert at 9+25 = \$475

    (2 hrs X \$77/hr = \$154)

    (Equipment move in = \$321)

    Total = \$1,025

Snag Creation: 46 snags x \$45/snag = \$2,070

TOTAL Other Costs (No Profit & Risk added) = \$3,095



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**logging conditions**

**combination#: 1**            Douglas - Fir                            77.00%  
                                 Western Hemlock / Fir                77.00%  
                                 Alder (Red)                            77.00%

**yarding distance:** Medium (800 ft)                            **downhill yarding:** No  
**logging system:** Shovel    **Process:** Manual Delimiting

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

**loads / day:**                    9.0    **bd. ft / load:**                    4,500

**cost / mbf:**                    \$61.84

**machines:**                    Shovel Logger

**combination#: 2**            Douglas - Fir                            23.00%  
                                 Western Hemlock / Fir                23.00%  
                                 Alder (Red)                            23.00%

**yarding distance:** Medium (800 ft)                            **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70            **Process:** Manual Delimiting

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

**loads / day:**                    7.0    **bd. ft / load:**                    4,500

**cost / mbf:**                    \$109.84

**machines:**                    Log Loader (A)  
                                 Tower Yarder (Medium)



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**logging costs**

<b>Operating Seasons:</b>	1.00	<b>Profit Risk:</b>	14.00%
<b>Project Costs:</b>	\$16,552.00	<b>Other Costs (P/R):</b>	\$4,950.00
<b>Slash Disposal:</b>	\$0.00	<b>Other Costs:</b>	\$3,095.00

**Miles of Road**

Road Maintenance: \$2.83

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	4.5
Western Hemlock / Fir	\$0.00	2.0	4.0
Alder (Red)	\$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	Other	Total
<b>Douglas - Fir</b>									
\$72.88	\$2.91	\$1.49	\$78.30	\$1.68	\$22.02	\$0.00	\$5.00	\$1.05	\$185.33
<b>Western Hemlock / Fir</b>									
\$72.88	\$2.91	\$1.49	\$88.10	\$1.68	\$23.39	\$0.00	\$5.00	\$1.05	\$196.50
<b>Alder (Red)</b>									
\$72.88	\$2.97	\$1.49	\$102.63	\$1.68	\$25.43	\$0.00	\$5.00	\$1.05	\$213.13

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$512.82	\$327.49	\$0.00
Western Hemlock / Fir	\$0.00	\$419.54	\$223.04	\$0.00
Alder (Red)	\$0.00	\$540.00	\$326.87	\$0.00



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**summary**

**Amortized**

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	2,884	\$327.49	\$944,481.16
Western Hemlock / Fir	65	\$223.04	\$14,497.60
Alder (Red)	1	\$326.87	\$326.87

**Gross Timber Sale Value**

Recovery: \$959,305.63

Prepared by: Jasen McCoy

Phone: 503-325-5451

## SUMMARY OF ALL PROJECT COSTS

**SALE NAME:** Sunset Summit SI

**NEW CONSTRUCTION:**

Project No. 1

	<u>Road segment</u>	<u>Length/Sta</u>	<u>Cost</u>
Dirt Roads	1A-1B	10.85	\$5,070
<b>TOTALS</b>	0.21 miles	10.85	\$5,070

**ROAD IMPROVEMENT:**

	<u>Road segment</u>	<u>Length/Sta</u>	<u>Cost</u>
	11-12, 13-14, 15-16, 17-18	31.60	\$4,811
<b>TOTALS</b>	0.60 miles	31.60	\$4,811

**SPECIAL PROJECTS:**

Project Work Road Maintenance	\$744
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**MOVE IN:**

	<u>Equipment</u>	<u>Cost</u>
	Dozer (D8)	\$1,406
	Dump Trucks (12 cy x 4)	\$652
	F E Loader (C966)	\$778
	Grader (14G)	\$778
	Excavator (C330)	\$1,406
	Water Truck (2,500 gal)	\$190
	Rubber Tired Skidder (C518)	\$717
<b>TOTAL</b>		\$5,927

**GRAND TOTAL** \$16,552

Compiled By: J. McCoy

Date: 11/09/2012



Project No. 1 New Road Construction

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Sunset Summit St NEW CONSTRUCTION: 10.85 STATIONS 0.21 MILES  
 ROADS: 1A-1B (10+85) IMPROVEMENT: STATIONS MILES

Method	Acres/amount	Rate	Cost
Scatter Outside of R/W	1.0	\$1,337.00	\$1,337.00
<b>SUB TOTAL FOR CLEARING &amp; GRUBBING</b>			<b>\$1,337</b>

1A-1B	Lineal ft.	Rate	Cost
Balanced Construction Field Design \$/sta.	6.80	\$122.00	\$829.60
Borrow Site excavation and sidecast pull back \$/hr	6.00	\$155.00	\$930.00
Landing Construction	1.00	\$389.00	\$389.00
<b>SUB TOTAL FOR EXCAVATION</b>			<b>\$2,149</b>

Other/miscellaneous:

Location	Dial/type	Lineal ft.	Rate	Cost
1A to 1B	18"CPP	30	\$19.53	\$585.90

**CULVERT MATERIALS AND INSTALLATION**

Location	Description	Quantity	Rate	Cost
Labor	1 hr. @\$40.00 hr. for borrow area	1	\$40.00	\$40.00
Grass seed mix	5lbs X \$1.60/lb	5	\$1.60	\$8.00
Straw bales	@\$10.73 ea. X 5 bales for borrow area	5	\$10.73	\$53.65
Compact fill	w/ rubber tired skidder (1A to 1B)	2	\$92.00	\$184.00
<b>SUB TOTAL FOR OTHER</b>			<b>\$872</b>	<b>\$4,357</b>

**Grand Total:**



**Project No. 1 Road Improvement**

**SUMMARY OF CONSTRUCTION COSTS**

SALE NAME: Sunset Summit SI  
 ROAD: 11-12 (13+00), 13-14 (12+90), 15-16 (1+80), 17-18 (3+90)  
 NEW CONSTRUCTION: 0.00 STATIONS  
 IMPROVEMENT: 31.60 STATIONS  
 0.00 MILES  
 0.60 MILES

Subgrade prep:	Description	Stations/amount	x	Rate/sta/amt	Cost
Grade, Shape and Ditch		31.60	x	\$24.83	\$784.63

ROAD SEGMENT	11 to 12		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost	
	Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of				0+00 to 13+00
Subgrade Leveling	1 1/2"-0" Crushed	11 to 12	N/A	N/A	N/A	N/A	110	\$7.34	\$807	
Surfacing Rock	1 1/2"-0" Crushed	11 to 12	3 Station	19	Stations	13.0	247	\$7.34	\$1,813	
Landing Rock	6"-0" pit-run	12	N/A	N/A	N/A	N/A	30	\$7.34	\$220	
Total Rock for Road Segment:								387		\$2,841

ROAD SEGMENT	13 to 14		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost	
	Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of				0+00 to 12+90
Landing Rock	6"-0" pit-run	14	N/A	N/A	N/A	N/A	30	\$7.34	\$220	
Total Rock for Road Segment:								30		\$220

ROAD SEGMENT	15 to 16		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost	
	Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of				0+00 to 1+80
Landing Rock	6"-0" pit-run	16	N/A	N/A	N/A	N/A	30	\$7.34	\$220	
Total Rock for Road Segment:								30		\$220

ROAD SEGMENT	17 to 18		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost	
	Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of				0+00 to 3+90
Landing Rock	6"-0" pit-run	18	N/A	N/A	N/A	N/A	30	\$7.34	\$220	
Total Rock for Road Segment:								30		\$220

Description	No. sta	Rate/sta	Cost
Water, Process & Compact rock:	6.50	\$56.48	\$367
Process & Compact rock:	6.50	\$24.28	\$158

	24"-6"	6"-0"pr	4"-0"	1 1/2"-0"	3/4"-0"	Total
	0	170	0	377	0	547

**SUB TOTAL FOR SURFACING**

**\$4,811**



**Road Maintenance Cost Summary**

Sale: Sunset Summit SI  
 Date: 15-Oct-12  
 By: J. McCoy

MBF: 2,950  
 \$\$/MBF: \$2.83

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost	Production Rates			
							Miles/day	Distance(miles)	Days	
Final Road Maintenance	Grader 14G	\$675	1	10	\$93	\$1,605	Grader	1.5	1.6	1.1
	Dump Truck 12CY x 2	\$141	2	8	\$73	\$1,309	Vibratory Roller*	1.5	1.6	1.1
	FE Loader C966	\$675	1	8	\$77	\$1,291				
	Excavator C315	\$699	1	8	\$94	\$1,451				
	Vibratory Roller	\$675	1	10	\$72	\$1,395				
	Water Truck 2,500 gallon	\$165	1	10	\$83	\$995				
Labor	\$0	1	8	\$38	\$304					
<b>Total</b>										<b>\$8,350</b>

\*Final Road Maintenance Only

**Road Maintenance after completion of Projects**

**Sale:** Sunset Summit SI  
**Date:** 24-Oct-12  
**By:** J. McCoy

Type	Equipment/Rationale	Hours	Rate	Cost
Final Haul Road Maintenance Haul Route	Grader 14G	8	\$93	\$744
<b>Total</b>				<b>\$744</b>

Miles/day	Distance(miles)	Days
4.0	3.9	1.0
4.0	3.9	1.0

Production Rates  
 Grader  
 Vibratory Roller

**Sunset Summit SI  
TIMBER CRUISE REPORT  
FY 2013**

1. **Sale Area Location:** Areas 1 & 2 are located in portions of Sections 23 and 24, T4N, R7W, W.M., Clatsop County, Oregon.
2. **Fund Distribution:** BOF 100%  
Tax Code 8-01 (100%) Special Comment: LCR obligation of \$743.03  
(Project #35594D04)

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Non-Thinnable	Existing R/W	New R/W	GTRA	Stream Buffer	Net Acres	Survey Method
1	Partial Cut	199	19	8	0	1	18	153	GIS
2	R/W	1	0	0	N/A	0	0	1	GIS
<b>TOTALS</b>		<b>200</b>	<b>19</b>	<b>8</b>	<b>0</b>	<b>1</b>	<b>18</b>	<b>154</b>	

4. **Cruisers and Cruise Dates:** Area 1 was cruised by Jasen McCoy and Kevin Berry on June 12, 13, and 14, 2012.

5. **Cruise Method and Computation:**

Area 1 is a partial cut thinning unit and was variable plot cruised using a 40 BAF. These plots are located on a 3 chain by 11 chain grid, with every third plot measured and graded. A total of 48 plots were sampled, with 16 measured and graded plots, and 32 count plots\*. Red alder and cedar are reserve species, and were recorded as "leave" trees.

\* Statistic reports "cruise" and "count" plot totals vary due to three count plots with measured and graded snags and one count plot with a measured and graded hemlock leave tree.

Area 2 R/W The right-of-way volume within the harvest areas was calculated by multiplying Area 2 R/W acreage by the average volume per acre from the plots in Area 1. In-sale right-of-way totals 1 acre.

All cruisers used Corvallis MicroTechnology (CMT) and/or Allegro data collectors, and were downloaded to the Atterbury Super A.C.E. program in District for computing. See the attached Cruise Design for more details on the cruise method. The cruise calculations were processed in the Astoria district office.

AREA	CRUISE	TRACT	TYPE	ACRES
1	T4NR7W24	AREA1	TAKE	153
2	T4NR7W24	AREA2	R/W	1

6. **Timber Description:** Area 1 is a partial cut thinning unit, approximately 65 years old, consisting of Douglas-fir stands mixed with hemlock and true fir. This stand will be thinned to a SDI of 30% (140 Sq.Ft.BA), removing approximately 81 trees per acre and 18.9 MBF/acre. The average Douglas-fir tree size to be harvested is 17.4 inches DBH, with an average height of 66 feet to a merchantable top (6 inch d.i.b.). The average hemlock tree/true fir size is 13 inches DBH and 50 feet to a merchantable top (6 inch d.i.b.). The "biggest and best" trees were recorded as "leave" trees to meet a target residual basal area of 140 ft<sup>2</sup>/acre. Hardwoods do not count towards the residual basal area.

Area 2 R/W is similar to the timber description mentioned above for Area 1. The average volume (net) is approximately 47.9 MBF/acre.

**7. Statistical Analysis and Stand Summary:** (See "Statistics" - Type Reports, attached)

Statistics for Stand B.F. volumes

Area	Estimated CV	Target SE%	Actual CV	Actual SE%
1	40%	7%	24.5%	3.5%


**8. Volumes by Species and Log Grade:** (See "Species, Sort, Grade" - Project Report, attached).

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Species	DBH	Net Vol.	2 Saw	3 Saw	4 Saw	CampRun	% D & B	% Sale
Douglas-fir	17.4"	2,884	1,692	1,067	125	0	<1%	98%
Hemlock/True-fir	13.0"	65	2	51	12	0	<1%	2%
Alder	20.5"	1	0	0	0	1	<1%	<1
<b>TOTALS</b>		<b>2,950</b>				1		

**9. Approvals:**

Prepared by: Jasen McCoy Date: 6/18/12

Unit Forester Approval:  Date: 10/30/12

**10. Attachments:**

- Cruise Designs and Maps – 3 pages
- Volume Report - 3 pages
- Statistics Reports - 5 pages
- Log Stock Tables - 3 page
- Stand Table Summary – 1 page

X:\Jewell\_Unit\Timber Sales\2013\SSS\Sale Prep\SSSI\_CruiseReport.docx



**CRUISE DESIGN  
ASTORIA DISTRICT**

**Sale Name:** Sunset Summit SI **Area(s)** 1

**Harvest Type:** (PC)

**Approx. Cruise Acres:** 154 Estimated **CV%** 40 Net BF **SE% Objective** 7 Net BF

**Planned Sale Volume:** 2,505 MBF **Estimated Sale Area Value/Acre:** \$4,500/Ac  
(15 MBF/Ac.)

- A. Cruise Goals:** (a) Grade minimum 100 conifer:  
(b) Sample 46 cruise plots ( 16 grade/ 30 count); (c) Other goals X Determine "automark" thinning standards; X Determine log grades for sale value; X Determine snag and leave tree species and sizes.

**B. Cruise Design:**

- 1. Plot Cruises:** BAF 40 (Full point, Half point) (circle one)  
Cruise Line Direction(s) 135° (SE/NW)  
Cruise Line Spacing 11 (chains)  
Cruise Plot Spacing 3 (chains)  
Count/Grade Ratio 2:1

The BA target is 140 sq. ft. Alternate selecting 3-4 leave trees per plot. Mark Leave trees with an "L" using yellow paint on grade plots. Cruise all take and leave trees. If a cruise line ends up paralleling in a buffer, boundary or a road offset by 1 chain and continue. All cedars are leave trees and count towards the leave tree basal area. Hardwoods are also a reserve species, but will not count towards the leave tree BA. Grade alder as camprun-sawlogs (30 net BF minimum). Record all snags as SN and estimate diameter and total height. Cruise to maximize 40' log lengths.

**C. Tree Measurements:**

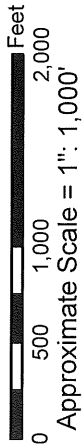
- 1. Diameter:** Minimum DBH to cruise is 8" for conifers and 10" for hardwoods. Record dbh to nearest  $\frac{1}{2}$ " for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest 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 is 7" for conifers and 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. 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 D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For “leave trees” in partial cuts, or for marked “wildlife trees,” add an “L” to the species code (such as DL, 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; 0 = Cull
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 and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100’ apart. On “measure/grade” plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
9. **Cruising Equipment:** Relaskop, Rangefinder, Logger’s Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum 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: Jasen McCoy  
Approved by:   
Date: 6/11/12

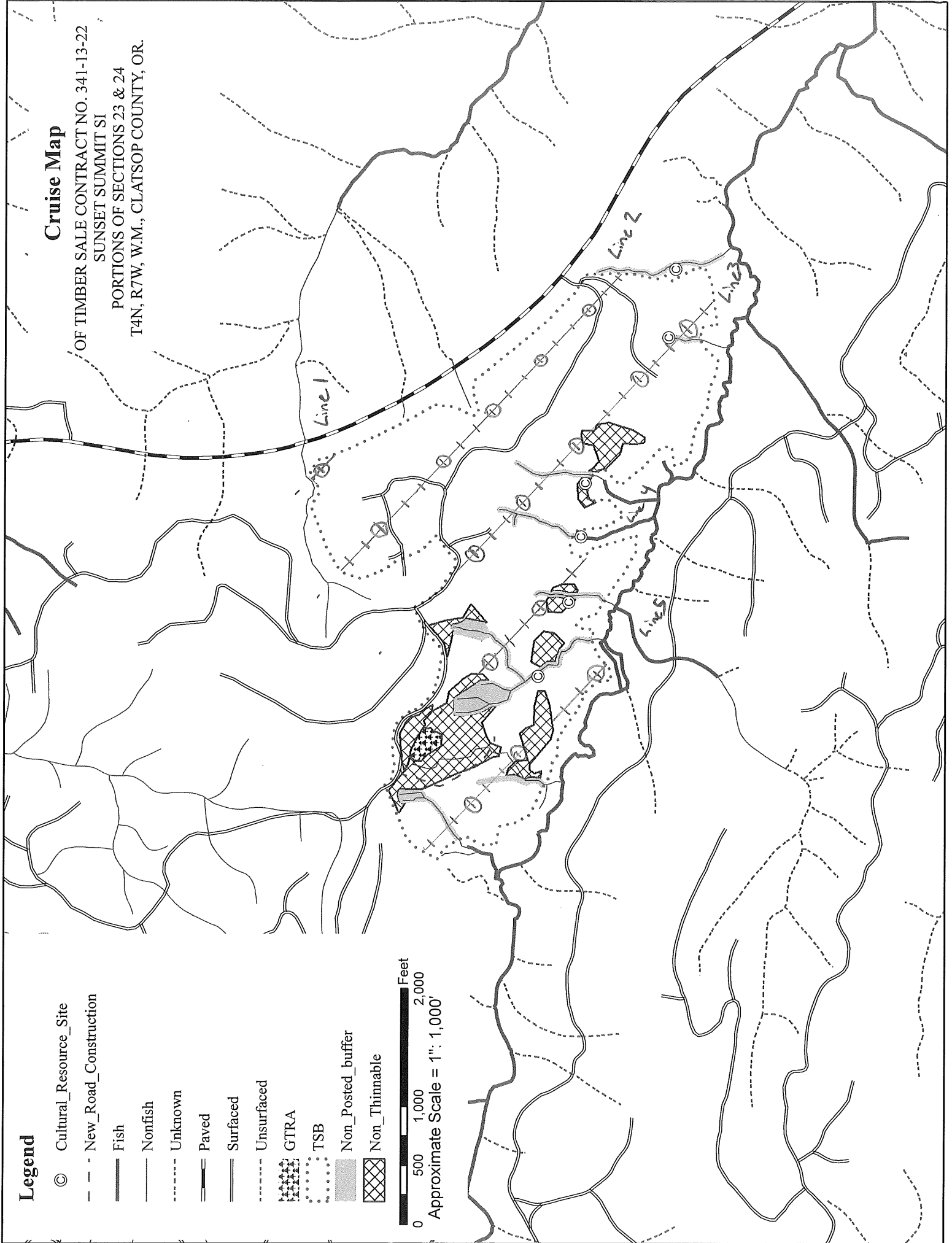
# Legend

- © Cultural\_Resource\_Site
- - - New\_Road\_Construction
- Fish
- Nonfish
- - - Unknown
- Paved
- Surfaced
- - - Unsurfaced
- ▨ GTRA
- ⋯ TSB
- Non\_Posted\_buffer
- ▩ Non\_Thinnable



# Cruise Map

OF TIMBER SALE CONTRACT NO. 341-13-22  
SUNSET SUMMIT SI  
PORTIONS OF SECTIONS 23 & 24  
T4N, R7W, W.M., CLATSOP COUNTY, OR.



**Species, Sort Grade - Board Foot Volumes (Project)**

TT4N RR7W S24 TyTAK	153.00
TT4N RR7W S24 TyR/W	1.00

**Project: SSSI**  
**Acres 154.00**

**Page 1**  
**Date 6/18/2012**  
**Time 1:26:45PM**

Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log			Logs Per /Acre		
			Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf			
							4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
D	DOCU																			
D	DO2S	58	.7	11,072	10,990	1,692			1	64	35		4		1	95	38	313	1.96	35.2
D	DO3S	37	.2	6,938	6,927	1,067		1	94	5			0	5	17	77	36	87	0.69	79.8
D	DO4S	5	.0	813	813	125			100				56	25	6	12	20	28	0.46	29.5
<b>D Totals</b>		<b>98</b>	<b>.5</b>	<b>18,824</b>	<b>18,730</b>	<b>2,884</b>		<b>0</b>	<b>40</b>	<b>39</b>	<b>20</b>		<b>5</b>	<b>3</b>	<b>7</b>	<b>85</b>	<b>32</b>	<b>123</b>	<b>1.00</b>	<b>152.1</b>
NF	DO2S	3	13.4	9	8	1				25	75					100	40	434	2.53	.0
NF	DO3S	75	.3	191	191	29			100	0				0	100	0	32	70	0.66	2.7
NF	DO4S	22		54	54	8			100				100				16	20	0.31	2.7
<b>NF Totals</b>		<b>1</b>	<b>.7</b>	<b>255</b>	<b>253</b>	<b>39</b>			<b>97</b>	<b>1</b>	<b>2</b>		<b>21</b>	<b>0</b>	<b>75</b>	<b>3</b>	<b>24</b>	<b>46</b>	<b>0.55</b>	<b>5.5</b>
H	DO2S			1	1	0				100						100	40	219	1.54	.0
H	DO3S	85		144	144	22		0	100				0	0		100	40	120	1.00	1.2
H	DO4S	15		24	24	4			100				100				14	20	0.36	1.2
<b>H Totals</b>		<b>1</b>		<b>169</b>	<b>169</b>	<b>26</b>		<b>0</b>	<b>99</b>	<b>1</b>			<b>14</b>	<b>0</b>	<b>86</b>		<b>27</b>	<b>70</b>	<b>0.84</b>	<b>2.4</b>
A	DOCR	100		1	1	0			11	89			5	6		89	30	135	1.36	.0
<b>A Totals</b>		<b>0</b>		<b>1</b>	<b>1</b>	<b>0</b>			<b>11</b>	<b>89</b>			<b>5</b>	<b>6</b>	<b>89</b>		<b>30</b>	<b>135</b>	<b>1.36</b>	<b>.0</b>
<b>Totals</b>			<b>0.5</b>	<b>19,249</b>	<b>19,153</b>	<b>2,950</b>		<b>0</b>	<b>41</b>	<b>39</b>	<b>20</b>		<b>5</b>	<b>3</b>	<b>8</b>	<b>84</b>	<b>32</b>	<b>120</b>	<b>0.99</b>	<b>160.0</b>

TT4N RR7W S24 TTAKE	TT4N RR7W S24 TTAKE
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt	BdFt
T4N R7W 24 AREA1 TAKE 153.00 48 45 1	W

S T	So rt	Gr ad	% 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 Ft	Bd Ft	CF/ Lf			
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
D	DO	CU																			
D	DO	2S	58	.7	10,912	10,833	1,657		1	65	34		4		1	95	11		0.00	7.6	
D	DO	3S	37	.2	6,923	6,912	1,058	1	94	5			0	5	17	77	38	311	1.96	34.8	
D	DO	4S	5		809	809	124		100				56	25	6	13	36	87	0.69	79.6	
<b>D</b>	<b>Totals</b>		98	.5	18,644	18,554	2,839	0	40	40	20		5	3	7	85	20	28	0.46	29.4	
																	32	122	1.00	151.5	
NF	DO	3S	77		190	190	29		100						100		32	70	0.66	2.7	
NF	DO	4S	23		54	54	8		100				100				16	20	0.31	2.7	
<b>NF</b>	<b>Totals</b>		1		244	244	37		100				22		78		24	45	0.54	5.4	
H	DO	3S	85		143	143	22		100						100		40	120	1.00	1.2	
H	DO	4S	15		24	24	4		100				100				14	20	0.36	1.2	
<b>H</b>	<b>Totals</b>		1		167	167	26		100				14		86		27	70	0.83	2.4	
<b>Type Totals</b>					.5	19,056	18,965	2,902	0	41	39	19		5	3	8	84	32	119	0.98	159.3

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1							
		Project: SSSI										Date 6/18/2012							
												Time 1:27:42PM							
TT4N RR7W S24 TR/W										TT4N RR7W S24 TR/W									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt										
T4N	R7W	24	AREA2	R/W	1.00	48	109	1	W										
S T	So rt	Gr ad	% 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 Ft	Bd Ft	CF/ Lf	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99				
D	DO	CU														10		0.00	9.2
D	DO	2S	76	1.6	35,587	35,007	35		4	37	59	1		3	96	39	393	2.28	89.0
D	DO	3S	20	.2	9,217	9,200	9	1	92	7		1	9	14	76	35	93	0.77	99.0
D	DO	4S	4	3.1	1,431	1,387	1		100			63	25	3	8	19	29	0.54	48.2
<b>D</b>	<b>Totals</b>		95	1.4	46,236	45,593	46	0	24	30	45	3	3	6	89	33	186	1.39	245.4
NF	DO	2S	77	13.4	1,443	1,250	1			25	75				100	40	434	2.53	2.9
NF	DO	3S	19	24.0	402	305	0		81	19			24	57	19	31	72	0.88	4.2
NF	DO	4S	4		65	65	0		100			100				16	22	0.38	3.0
<b>NF</b>	<b>Totals</b>		3	15.2	1,910	1,620	2		19	23	58	4	4	11	81	29	160	1.45	10.1
H	DO	2S	45		220	220	0			100					100	40	219	1.54	1.0
H	DO	3S	49		238	238	0	9	91			6	9		85	32	88	0.86	2.7
H	DO	4S	6		26	26	0		100			100				16	20	0.45	1.3
<b>H</b>	<b>Totals</b>		1		484	484	0	5	50	46		8	5		87	30	97	0.99	5.0
A	DO	CR	100		197	197	0		11	89		5	6		89	30	135	1.36	1.5
<b>A</b>	<b>Totals</b>		0		197	197	0		11	89		5	6		89	30	135	1.36	1.5
<b>Type Totals</b>				1.9	48,826	47,895	48	0	24	30	45	3	3	6	89	32	183	1.39	261.9

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		SSSI			DATE		6/18/2012		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T4N	R7	24	AREA1	00PC		154.00	48	335	1	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			48	335	7.0						
CRUISE			20	115	5.8	19,331	.6				
DBH COUNT											
REFOREST											
COUNT			28	192	6.9						
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
DOUGLEAV		56	36.8	25.5	93		130.0	26,631	26,130	6,112	6,111
DOUG FIR		43	77.4	17.4	66		128.3	18,644	18,554	4,852	4,852
NFIRLEAV		3	1.7	27.2	105	1	6.7	1,583	1,302	342	339
SNAG		6	3.7	17.0	81		5.8				
NOB FIR		1	2.7	13.0	50	1	2.5	244	244	71	71
HEMLEAV		3	1.4	18.1	64		2.5	304	304	90	90
WHEMLOCK		1	1.2	16.0	55		1.7	167	167	54	54
ALDRLEAV		2	.7	20.5	62		1.7	197	197	60	60
<b>TOTAL</b>		<b>115</b>	<b>125.5</b>	<b>20.2</b>	<b>74</b>		<b>279.2</b>	<b>47,769</b>	<b>46,897</b>	<b>11,580</b>	<b>11,577</b>
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		
DOUGLEAV		49.0	6.5	803	859	915					
DOUG FIR		67.3	10.2	325	362	399					
NFIRLEAV		30.9	21.4	616	783	951					
SNAG											
NOB FIR											
HEMLEAV		20.2	14.0	192	223	255					
WHEMLOCK											
ALDRLEAV				270	270	270					
<b>TOTAL</b>		<b>74.7</b>	<b>7.0</b>	<b>546</b>	<b>587</b>	<b>628</b>	<b>223</b>	<b>56</b>	<b>25</b>		
CL	68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUGLEAV		33.1	4.8	35	37	39					
DOUG FIR		76.8	11.1	69	77	86					
NFIRLEAV		253.2	36.5	1	2	2					
SNAG		353.7	51.0	2	4	6					
NOB FIR		391.4	56.4	1	3	4					
HEMLEAV		399.6	57.6	1	1	2					
WHEMLOCK		484.7	69.9	0	1	2					
ALDRLEAV		692.8	99.9	0	1	1					
<b>TOTAL</b>		<b>48.7</b>	<b>7.0</b>	<b>117</b>	<b>126</b>	<b>134</b>	<b>95</b>	<b>24</b>	<b>11</b>		
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUGLEAV		22.4	3.2	126	130	134					
DOUG FIR		58.9	8.5	117	128	139					
NFIRLEAV		257.6	37.2	4	7	9					
SNAG		374.0	53.9	3	6	9					
NOB FIR		391.4	56.4	1	3	4					
HEMLEAV		391.4	56.4	1	3	4					
WHEMLOCK		484.7	69.9	1	2	3					

TC PSTATS		PROJECT STATISTICS							PAGE	2
		PROJECT		SSSI			DATE		6/18/2012	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
T4N	R7	24	AREA1	00PC	154.00		48	335	1	W
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
ALDRLEAV		692.8	99.9	0	2	3				
<b>TOTAL</b>		21.6	3.1	270	279	288	19	5	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	
DOUGLEAV		25.6	3.7	25,167	26,130	27,092				
DOUG FIR		59.0	8.5	16,976	18,554	20,132				
NFIRLEAV		251.2	36.2	830	1,302	1,774				
SNAG										
NOB FIR		391.4	56.4	106	244	382				
HEMLEAV		392.1	56.6	132	304	475				
WHEMLOCK		484.7	69.9	50	167	284				
ALDRLEAV		692.8	99.9	0	197	393				
<b>TOTAL</b>		24.5	3.5	45,243	46,897	48,552	24	6	3	



TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		SSSI			DATE	6/18/2012			
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T4N	R7	24	AREA1	TAKE		153.00	48	159	1	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			48	159	3.3						
CRUISE			15	45	3.0	12,432	.4				
DBH COUNT											
REFOREST											
COUNT			30	114	3.8						
BLANKS			3								
100 %											
STAND SUMMARY											
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR		43	77.4	17.4	66		128.3	18,644	18,554	4,852	4,852
NOB FIR		1	2.7	13.0	50	1	2.5	244	244	71	71
WHEMLOCK		1	1.2	16.0	55		1.7	167	167	54	54
<b>TOTAL</b>		<b>45</b>	<b>81.3</b>	<b>17.3</b>	<b>65</b>		<b>132.5</b>	<b>19,056</b>	<b>18,965</b>	<b>4,977</b>	<b>4,977</b>
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		67.3	10.2	325	362	399					
NOB FIR											
WHEMLOCK											
<b>TOTAL</b>		<b>69.4</b>	<b>10.3</b>	<b>315</b>	<b>351</b>	<b>388</b>	<b>192</b>	<b>48</b>	<b>21</b>		
CL	68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		76.8	11.1	69	77	86					
NOB FIR		391.4	56.4	1	3	4					
WHEMLOCK		484.7	69.9	0	1	2					
<b>TOTAL</b>		<b>75.2</b>	<b>10.8</b>	<b>72</b>	<b>81</b>	<b>90</b>	<b>226</b>	<b>56</b>	<b>25</b>		
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		58.9	8.5	117	128	139					
NOB FIR		391.4	56.4	1	3	4					
WHEMLOCK		484.7	69.9	1	2	3					
<b>TOTAL</b>		<b>58.1</b>	<b>8.4</b>	<b>121</b>	<b>133</b>	<b>144</b>	<b>135</b>	<b>34</b>	<b>15</b>		
CL	68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		59.0	8.5	16,976	18,554	20,132					
NOB FIR		391.4	56.4	106	244	382					
WHEMLOCK		484.7	69.9	50	167	284					
<b>TOTAL</b>		<b>58.3</b>	<b>8.4</b>	<b>17,371</b>	<b>18,965</b>	<b>20,560</b>	<b>136</b>	<b>34</b>	<b>15</b>		

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		SSSI			DATE		6/18/2012		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T4N	R7	24	AREA2	R/W		1.00	48	328	1	W	
		PLOTS		TREES	PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		48	328	6.8							
CRUISE		17	109	6.4		116	93.6				
DBH COUNT											
REFOREST											
COUNT		31	214	6.9							
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE TREES		TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
DOUG FIR		99	109.0	20.8	76	258.3	46,236	45,593	11,113	11,112	
NOB FIR		4	4.2	20.0	73	9.2	1,910	1,620	427	424	
WHEMLOCK		4	2.5	17.5	61	4.2	484	484	146	146	
R ALDER		2	.7	20.5	62	1.7	197	197	60	60	
<b>TOTAL</b>		<i>109</i>	<i>116.4</i>	<i>20.7</i>	<i>76</i>	<i>273.3</i>	<i>48,826</i>	<i>47,895</i>	<i>11,746</i>	<i>11,743</i>	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF	SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		67.1	6.7	600	643	687					
NOB FIR		66.3	37.9	391	630	869					
WHEMLOCK		27.5	15.7	171	203	234					
R ALDER				270	270	270					
<b>TOTAL</b>		<i>69.1</i>	<i>6.6</i>	<i>579</i>	<i>620</i>	<i>661</i>	<i>190</i>	<i>48</i>	<i>21</i>		
CL	68.1	COEFF	TREES/ACRE			# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		55.6	8.0	100	109	118					
NOB FIR		271.3	39.1	3	4	6					
WHEMLOCK		301.4	43.5	1	2	4					
R ALDER		692.8	99.9	0	1	1					
<b>TOTAL</b>		<i>49.6</i>	<i>7.2</i>	<i>108</i>	<i>116</i>	<i>125</i>	<i>98</i>	<i>25</i>	<i>11</i>		
CL	68.1	COEFF	BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		32.9	4.7	246	258	271					
NOB FIR		258.4	37.3	6	9	13					
WHEMLOCK		296.4	42.7	2	4	6					
R ALDER		692.8	99.9	0	2	3					
<b>TOTAL</b>		<i>27.4</i>	<i>4.0</i>	<i>263</i>	<i>273</i>	<i>284</i>	<i>30</i>	<i>7</i>	<i>3</i>		
CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		32.3	4.7	43,467	45,593	47,720					
NOB FIR		245.2	35.4	1,047	1,620	2,193					
WHEMLOCK		297.6	42.9	276	484	692					
R ALDER		692.8	99.9	0	197	393					
<b>TOTAL</b>		<i>27.6</i>	<i>4.0</i>	<i>45,990</i>	<i>47,895</i>	<i>49,799</i>	<i>30</i>	<i>8</i>	<i>3</i>		

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		SSSI			DATE		6/18/2012		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T4N	R7	24	AREA1	LEAV		153.00	48	176	1	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			48	176	3.7						
CRUISE			20	70	3.5	6,773	1.0				
DBH COUNT											
REFOREST											
COUNT			28	94	3.4						
BLANKS											
100 %											
<b>STAND SUMMARY</b>											
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUGLEAV		56	36.8	25.5	93		130.0	26,631	26,129	6,112	6,111
NFIRLEAV		3	1.7	27.2	105	1	6.7	1,583	1,302	342	339
SNAG		6	3.7	17.0	81		5.8				
HEMLEAV		3	1.4	18.1	64		2.5	304	304	90	90
ALDRLEAV		2	.7	20.5	62		1.7	197	197	60	60
<b>TOTAL</b>		<b>70</b>	<b>44.3</b>	<b>24.6</b>	<b>91</b>		<b>146.7</b>	<b>28,714</b>	<b>27,932</b>	<b>6,604</b>	<b>6,600</b>
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		
DOUGLEAV		49.0	6.5	803	859	915					
NFIRLEAV		30.9	21.4	616	783	951					
SNAG											
HEMLEAV		20.2	14.0	192	223	255					
ALDRLEAV				270	270	270					
<b>TOTAL</b>		<b>63.6</b>	<b>7.6</b>	<b>682</b>	<b>738</b>	<b>794</b>	<b>162</b>	<b>40</b>	<b>18</b>		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUGLEAV		33.1	4.8	35	37	39					
NFIRLEAV		253.2	36.5	1	2	2					
SNAG		353.7	51.0	2	4	6					
HEMLEAV		399.6	57.6	1	1	2					
ALDRLEAV		692.8	99.9	0	1	1					
<b>TOTAL</b>		<b>23.1</b>	<b>3.3</b>	<b>43</b>	<b>44</b>	<b>46</b>	<b>21</b>	<b>5</b>	<b>2</b>		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUGLEAV		22.4	3.2	126	130	134					
NFIRLEAV		257.6	37.2	4	7	9					
SNAG		374.0	53.9	3	6	9					
HEMLEAV		391.4	56.4	1	3	4					
ALDRLEAV		692.8	99.9	0	2	3					
<b>TOTAL</b>				<b>147</b>	<b>147</b>	<b>147</b>					
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUGLEAV		25.6	3.7	25,167	26,129	27,092					
NFIRLEAV		251.2	36.2	830	1,302	1,774					
SNAG											
HEMLEAV		392.1	56.6	132	304	475					
ALDRLEAV		692.8	99.9	0	197	393					
<b>TOTAL</b>		<b>18.8</b>	<b>2.7</b>	<b>27,173</b>	<b>27,932</b>	<b>28,691</b>	<b>14</b>	<b>4</b>	<b>2</b>		

**Log Stock Table - MBF**  
**Project: SSSI**

TT4N RR7W S24 TTAK

TT4N RR7W S24 TTAK

**Twp Rge Sec Tract Type Acres Plots Sample Trees Page**  
**T4N R7W 24 AREA1 TAKE 153.00 48 45 Date 6/18/2012**  
**Time 1:30:29PM**

S Spp	So T	Gr rt	Log de	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
D	DO	CU	6																
D	DO	CU	8																
D	DO	CU	10																
D	DO	CU	14																
D	DO	CU	16																
D	DO	CU	18																
D	DO	2S	12		14		14	.5							14				
D	DO	2S	20		57		57	2.0					23		35				
D	DO	2S	32		20		20	.7					20						
D	DO	2S	40		1,578	.8	1,566	55.2			21		308	623	540	75			
D	DO	3S	12		2		2	.1				2							
D	DO	3S	22		5		5	.2				5							
D	DO	3S	24		23		23	.8		10		13							
D	DO	3S	26		21		21	.7			21								
D	DO	3S	28		7		7	.3				7							
D	DO	3S	32		168		168	5.9			63	41	64						
D	DO	3S	34		12		12	.4				12							
D	DO	3S	38		13		13	.4				13							
D	DO	3S	40		809	.2	807	28.4			231	222	303	52					
D	DO	4S	12		8		8	.3			3	5							
D	DO	4S	14		11		11	.4			9	2							
D	DO	4S	16		31		31	1.1			28	4							
D	DO	4S	18		5		5	.2			5								
D	DO	4S	20		13		13	.5			7	6							
D	DO	4S	22		16		16	.5			16								
D	DO	4S	26		16		16	.5			16								
D	DO	4S	32		8		8	.3			8								
D	DO	4S	40		16		16	.5			16								
D	Totals				2,853		2,839	97.8		10	446	328	367	402	623	588	75		
NF	DO	3S	32		29		29	77.8			29								
NF	DO	4S	16		8		8	22.2			8								
NF	Totals				37		37	1.3			8	29							
H	DO	3S	40		22		22	85.7			22								
H	DO	4S	14		4		4	14.3			4								
H	Totals				26		26	.9			4	22							
Total All Species					2,916		2,902	100.0		10	458	379	367	402	623	588	75		

**Log Stock Table - MBF**

**Project: SSSI**

**TT4N RR7W S24 TR/W**

**TT4N RR7W S24 TR/W**

**Twp Rge Sec Tract Type Acres Plots Sample Trees**  
**T4N R7W 24 AREA2 R/W 1.00 48 109**

**Page 1**  
**Date 6/18/2012**  
**Time 1:30:29PM**

Spp	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches									
									MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
D	DO	CU	6															
D	DO	CU	8															
D	DO	CU	10															
D	DO	CU	14															
D	DO	CU	16															
D	DO	CU	18															
D	DO	2S	12		0		0	.2							0			
D	DO	2S	20		0		0	.7					0		0			
D	DO	2S	32		1	5.6	1	2.4					0		1	0		
D	DO	2S	34		0		0	.1					0					
D	DO	2S	36		0		0	.8							0			
D	DO	2S	40		34	1.5	33	72.6			0	1	3	7	13	7	2	
D	DO	3S	12		0		0	.0										
D	DO	3S	20		0		0	.1			0							
D	DO	3S	22		0		0	.3										
D	DO	3S	24		0		0	.8		0								
D	DO	3S	26		0		0	.5		0	0							
D	DO	3S	28		0		0	.3		0	0							
D	DO	3S	32		1		1	2.6		0	0			0				
D	DO	3S	34		0		0	.3		0								
D	DO	3S	38		0		0	.2		0								
D	DO	3S	40		7	.3	7	15.1		1	2	3	0	0				
D	DO	4S	12		0		0	.5		0	0		0					
D	DO	4S	14		0		0	.3		0	0		0					
D	DO	4S	16		0		0	.7		0	0		0					
D	DO	4S	18		0		0	.2		0	0							
D	DO	4S	20		0		0	.2		0	0							
D	DO	4S	22		0		0	.2		0								
D	DO	4S	24		0		0	.1			0							
D	DO	4S	26		0		0	.3		0	0							
D	DO	4S	28		0	7.2	0	.2		0								
D	DO	4S	32		0		0	.1		0								
D	DO	4S	40		0	23.2	0	.3		0	0							
D		Totals			46	1.4	46	95.2		0	3	3	5	4	7	14	7	2
NF	DO	2S	40		1	13.4	1	77.2					0	0	0	1		
NF	DO	3S	24		0		0	2.0			0							
NF	DO	3S	26		0		0	2.5			0							
NF	DO	3S	32		0		0	10.7			0							
NF	DO	3S	40		0	62.1	0	3.6						0				
NF	DO	4S	14		0		0	.9			0							
NF	DO	4S	16		0		0	3.1		0								
NF		Totals			2	15.2	2	3.4		0	0		0	0	0	1		
H	DO	2S	40		0		0	45.5					0					
H	DO	3S	20		0		0	3.0			0							
H	DO	3S	25		0		0	4.6		0								
H	DO	3S	40		0		0	41.6			0	0						
H	DO	4S	14		0		0	3.1			0							
H	DO	4S	18		0		0	2.2			0							

TC TLOGSTVB

**Log Stock Table - MBF**  
**Project: SSSI**

TT4N RR7W S24 TR/W

TT4N RR7W S24 TR/W

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
T4N	R7W	24	AREA2	R/W	1.00	48	109	Date	6/18/2012
								Time	1:30:29PM

Spp	T	S	So	Gr	Log	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+
H					Totals	0		0	1.0	0		0	0	0	0						
A		DO	CR	18		0		0	5.3			0									
A		DO	CR	22		0		0	5.8			0									
A		DO	CR	40		0		0	88.9					0							
A					Totals	0		0	.4			0		0							
Total All Species						49	1.9	48	100.0	0	3	3	5	5	8	14	8	2			

TC TSTNDSUM		Stand Table Summary													
Project DEMO											TT4N RR7W S24 TTAK				
TT4N RR7W S24 TTAK											Page: 1				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees		Date:	Time:					
T4N	R7W	24	AREA1	TAKE	153.00				10/30/20	11:28:55AM					
S Spc	T	Sample DBH	FF Trees	Av Ht 16'	Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Net Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Totals		
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
D		10	2	83	74	10.944	5.97	10.94	14.5	55.0	159	602		243	92
D		11	2	84	68	9.045	5.97	9.04	15.0	50.0	136	452		208	69
D		12	1	86	84	3.800	2.98	7.60	12.0	45.0	91	342		140	52
D		13	1	84	69	3.238	2.98	3.24	24.0	70.0	78	227		119	35
D		14	3	85	93	8.375	8.95	16.75	18.5	65.0	310	1,089		474	167
D		15	2	86	127	4.864	5.97	12.16	22.8	88.0	277	1,070		424	164
D		16	1	85	83	2.137	2.98	4.27	22.5	75.0	96	321		147	49
D		17	2	86	102	3.787	5.97	7.57	28.5	105.0	216	795		330	122
D		18	2	87	107	3.378	5.97	6.76	37.0	130.0	250	878		382	134
D		19	2	89	100	3.032	5.97	6.06	39.5	137.5	239	834		366	128
D		20	3	90	104	4.104	8.95	8.21	44.5	161.7	365	1,327		559	203
D		21	1	88	126	1.241	2.98	2.48	50.0	240.0	124	596		190	91
D		22	6	87	110	6.783	17.91	16.96	42.0	165.3	712	2,804		1,090	429
D		23	2	86	123	2.069	5.97	5.17	53.8	212.0	278	1,096		426	168
D		24	2	84	91	1.900	5.97	3.80	42.5	140.0	161	532		247	81
D		25	3	87	104	2.627	8.95	7.00	52.3	211.2	366	1,480		560	226
D		26	3	86	120	2.428	8.95	7.29	55.8	228.9	406	1,667		622	255
D		27	3	87	93	2.252	8.95	4.50	68.5	251.7	309	1,133		472	173
D		28	1	88	141	.698	2.98	2.09	77.7	376.7	163	789		249	121
D		29	1	85	109	.651	2.98	1.95	59.3	266.7	116	521		177	80
D		Totals	43	86	94	77.352	128.33	143.86	33.7	129.0	4,852	18,554		7,424	2,839
NF		13	1	85	73	2.712	2.50	5.42	13.0	45.0	71	244		108	37
NF		Totals	1	85	73	2.712	2.50	5.42	13.0	45.0	71	244		108	37
H		16	1	86	71	1.194	1.67	2.39	22.5	70.0	54	167		82	26
H		Totals	1	86	71	1.194	1.67	2.39	22.5	70.0	54	167		82	26
Totals			45	86	93	81.258	132.50	151.68	32.8	125.0	4977	18,965		7,614	2,902

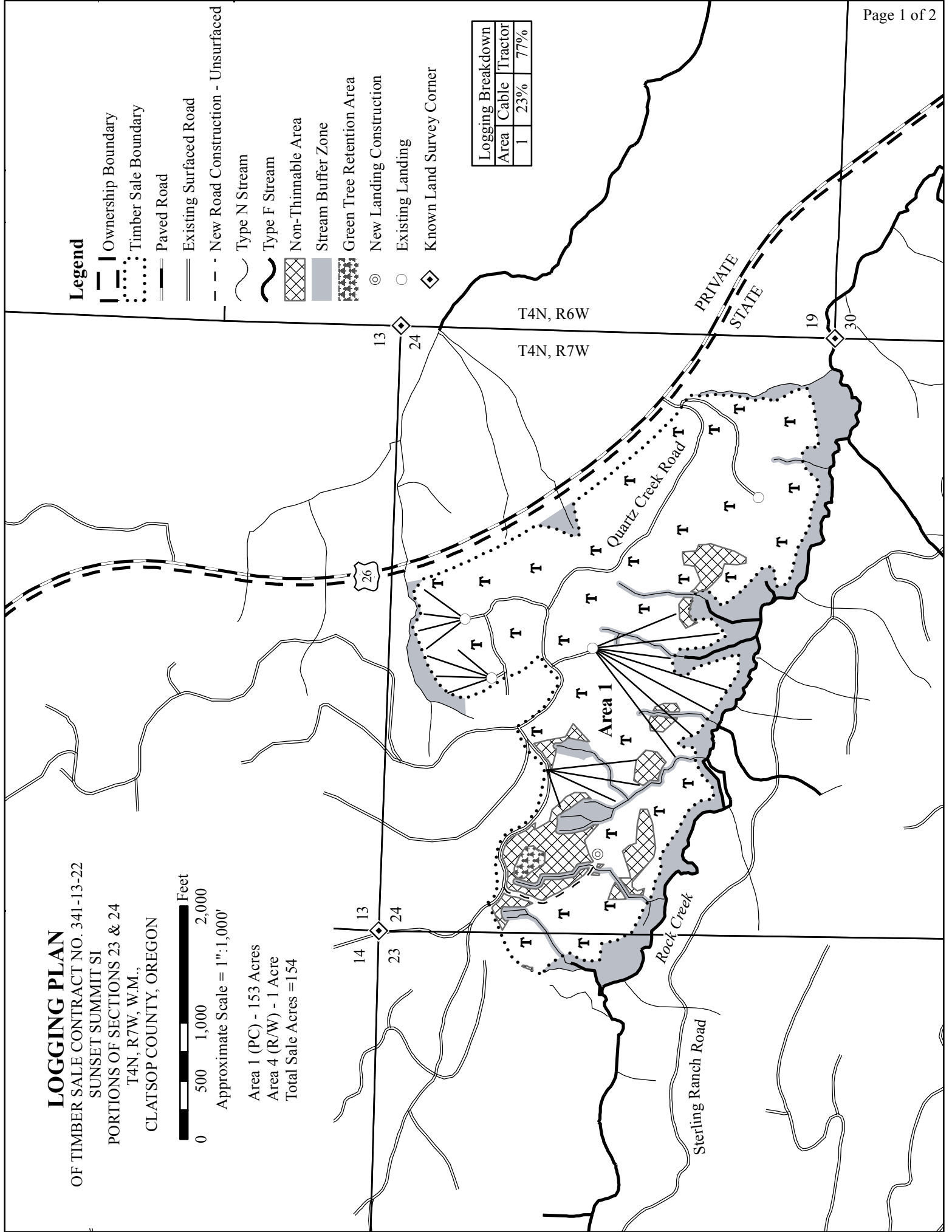
**LOGGING PLAN**  
 OF TIMBER SALE CONTRACT NO. 341-13-22  
 SUNSET SUMMIT SI  
 PORTIONS OF SECTIONS 23 & 24  
 T4N, R7W, W.M.,  
 CLATSOP COUNTY, OREGON



Area 1 (PC) - 153 Acres  
 Area 4 (R/W) - 1 Acre  
 Total Sale Acres = 154

- Legend**
- Ownership Boundary
  - Timber Sale Boundary
  - Paved Road
  - Existing Surfaced Road
  - New Road Construction - Unsurfaced
  - Type N Stream
  - Type F Stream
  - Non-Thinnable Area
  - Stream Buffer Zone
  - Green Tree Retention Area
  - New Landing Construction
  - Existing Landing
  - Known Land Survey Corner

Logging Breakdown	
Area	Tractor
1	77%
	23%





**LOGGING PLAN**  
 OF TIMBER SALE CONTRACT NO. 341-13-22  
 SUNSET SUMMIT SI  
 PORTIONS OF SECTIONS 23 & 24  
 T4N, R7W, W.M.,  
 CLATSOP COUNTY, OREGON



Area 1 (PC) - 153 Acres  
 Area 4 (R/W) - 1 Acre  
 Total Sale Acres = 154

- Legend**
- Ownership Boundary
  - Timber Sale Boundary
  - Paved Road
  - Existing Surfaced Road
  - lidar07\_40ft
  - New Road Construction - Unsurfaced
  - Type N Stream
  - Type F Stream
  - Non-Thinnable Area
  - Stream Buffer Zone
  - Green Tree Retention Area
  - New Landing Construction
  - Existing Landing
  - Known Land Survey Corner

Logging Breakdown Area	Cable	Tractor	77%
1	23%	77%	

