



Timber Sale Appraisal
Foster
Sale AT-341-2019-W00593-01

District: Astoria

Date: December 07, 2018

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$430,956.45	\$120,639.60	\$551,596.05
		Project Work:	\$0.00
		Advertised Value:	\$551,596.05



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District: Astoria

Date: December 07, 2018

Timber Description

Location: Section 6 T6N, R6W, and Sections 31 & 32 T7N, R6W, W.M., Clatsop County, Oregon

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	96
Alder (Red)	15	0	95

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	895	202	0	0	0	0	1,097
Alder (Red)	0	0	68	137	87	84	376
Total	895	202	68	137	87	84	1,473

Comments: Pond Values: Local Pond Values, August 2018.

Expected Log Markets: Mist, Willamina, Banks, North Plains, Clatskanie, Tillamook, Garibaldi, Forest Grove, Warrenton, Longview, WA, Vancouver, WA, and Chehalis, WA.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
\$992.85/MBF = \$1,200/MBF-\$207.15/MBF

Other Conifers Stumpage Price = Pond Value minus Logging Cost:
\$292.85/MBF = \$500/MBF-\$207.15/MBF

Other Conifers Stumpage Price = Pond Value minus Logging Cost:
\$69.89/MBF = \$500/MBF-\$430.11/MBF

Other Costs (With Profit and Risk to be added):

Machine Washing for Invasive Weed Compliance = \$2,000

Ditch Filters:

20 bales of straw @ \$10/bale = \$200

8 hours of labor @ \$40/hour = \$320

TOTAL Other Costs (with Profit and Risk to be added): \$2,520

Other Costs (No Profit and Risk added):
None

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)

TOTAL Road Maintenance: \$14,580/1,473 MBF = \$9.90/MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	92.00%
	Alder (Red)	92.00%
Logging System:	Cable: Medium Tower >40 - <70	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:	12	bd. ft / load: 4600
cost / mbf:	\$119.57	
machines:	Log Loader (A) Tower Yarder (Medium)	
Combination#: 2	Douglas - Fir	8.00%
	Alder (Red)	8.00%
Logging System:	Shovel	Process: Harvester Head Delimbing
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	18	bd. ft / load: 4100
cost / mbf:	\$72.41	
machines:	Forwarder Harvester	



Timber Sale Appraisal Foster Sale AT-341-2019-W00593-01

District: Astoria

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Logging Costs

Operating Seasons: 1.00	Profit Risk: 12%
Project Costs: \$0.00	Other Costs (P/R): \$2,520.00
Slash Disposal: \$3,258.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$9.90

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	4.0	4.9
Alder (Red)	\$0.00	1.0	4.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$115.80	\$10.30	\$2.98	\$50.41	\$1.71	\$21.74	\$2.21	\$2.00	\$0.00	\$207.15
Alder (Red)									
\$115.80	\$10.40	\$2.98	\$249.38	\$1.71	\$45.63	\$2.21	\$2.00	\$0.00	\$430.11

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$600.00	\$392.85	\$0.00
Alder (Red)	\$0.00	\$750.96	\$320.85	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,097	\$392.85	\$430,956.45
Alder (Red)	376	\$320.85	\$120,639.60

Gross Timber Sale Value

Recovery: \$551,596.05

Prepared By: Cody Valencia

Phone: 503-325-5451

Road Maintenance Cost Summary (Post Harvest)

Sale: Foster
Date: September 4, 2018
By: Cody Valencia

MBF: 1,473.00
\$/MBF: \$9.90

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost	
Final Road Maintenance	Grader 14G	\$778	1	43	\$100	\$5,078	
	Dump Truck 12CY	\$163	1	12	\$79	\$1,111	
	FE Loader C966	\$778	1	12	\$83	\$1,774	
	Vibratory Roller	\$778	1	43	\$77	\$4,089	
	Water Truck 2,500 gallon	\$190	1	12	\$89	\$1,258	
	Rubber Tired Backhoe-small	\$321	1	4	\$77	\$629	
	Labor			8	\$40	\$641	
Total							\$14,580

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	1.5	8.1	5.4	43
Vibratory Roller	1.5	8.1	5.4	43

Process and compact: All crushed rock roads

Foster Mainline 5.3 miles

Northrup Creek 1.7 miles

Unnamed spurs 1.1 miles

Grade & Process Total = 8.1 Miles

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre
Doug-fir	A	0.5	2.0
Hemlock/Fir	B	1.5	4.5
Hemlock/Spruce	C	2.0	6.0
Hemlock	D	2.0	6.0
Conifer/Hardwood	E	1.5	4.5
Whole Tree Yarding	F	0.25	0.5

Date: 09/04/2018

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour C325	Total Cost/Area
1	MC	E	3	5	\$129.00	\$580.50
					In-unit Piling	Sub Total = \$580.50
Sale Area	Number of Landings to be Piled	Cost/Landing Pile	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area
1	4	\$330.00	\$1,320.00	13.5	\$5.00	\$67.50
					Materials	Sub Total = \$67.50
					Landing Piling	Sub Total = \$1,320.00
Move-In Allowance	Number of Move-In's	Total Move-In Allowance				
\$1,290.00	1	\$1,290.00			Move-In	Sub Total = \$1,290.00
Grand Total =						\$3,258.00

**Foster
FY 2019
TIMBER CRUISE REPORT**

- Sale Area Location:** Area 1 is located in portions of Section 6 T6N, R6W, and Sections 31 & 32 T7N, R6W, W.M., Clatsop County, Oregon
- Fund Distribution: Fund:** BOF 100% CSL 0%
Tax Code: 8-01 77% 30-05 23%
- Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffer Acres	Existing RW Acres	Net Acreage	Survey Method
1	Modified Clearcut	43	6	1	36	GIS
TOTALS		43	6	1	36	

- Cruisers and Cruise Dates:** Area 1 was cruised by Bryce Rodgers, John Choate, Cody Valencia, Ella Salkeld and Bodie Dowding on August 23, 2018.
- Cruise Method and Computation:** Area 1 is a modified clearcut unit. A variable plot cruise with a 40 BAF for conifer and a 33.61 BAF for hardwoods was used for this area. The plots were located on a 2 chain by 4 chain grid, with a count/grade plot ratio of 2:1. A total of 47 plots were sampled.

Cruisers used Allegro 2 data collectors that were downloaded to the Atterbury Super A.C.E. program at the Astoria 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.

<u>AREA</u>	<u>PROJECT</u>	<u>TRACT</u>	<u>CRUISE TYPE</u>
1	Foster	A1	00MC, TK

Timber Description: Area 1 is approximately a 60 year old stand of Douglas-fir and red alder. The average take Douglas-fir tree size is approximately 23 inches DBH, with an average merchantable tree height of 90 feet. The average red alder take tree size for harvest is approximately 15 inches DBH, with an average merchantable tree height of 58 feet. The average volume per acre to be harvested (net) is approximately 41 MBF. All trees were cruised to a merchantable top of 6 inch DIB or 40% of form point.

Cedar is a reserved species.

- Statistical Analysis: (See also "Statistics Reports," attached.)**

Area	Target CV	Target SE%	Actual CV	Actual SE%
1	50	9	41.9	6.1

The statistics are for all areas and Take and Leave trees combined based on Net BF/Acre.

- Take Volumes by Species and Log Grades for All Sale Areas by MBF:** (See "Species, Sort Grade-Board Feet Volumes (Project)", "Statistics (Project)", and the "Stand Table Summary" attached). Volumes do not include "in-growth." The majority of defect and breakage was taken out during the cruise.

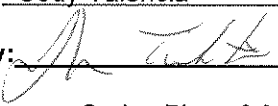
Conifer

Species	DBH	Net Vol. MBF	2 Saw	3Saw	4 Saw	% D & B	% Sale
Douglas-fir	23	1,097	895	163	39	1.2	74

Hardwoods

Species	DBH	Net Vol. MBF	12"+	10-12"	8-10"	6-8"	% D & B	% Sale
Red Alder	15	376	87	137	68	84	1.9	26

TOTAL NET VOLUME	1,473 MBF
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8. Prepared by: Cody ValenciaDate: 09/4/201810. Approved by: Date: 12/12/18

11. Attachments:

- Cruise Plans & Maps (3 pages)
- Species, Sort, Grade Report (1 page)
- Statistics Reports (2 pages)
- Log Stock Table Report MBF (2 pages)
- Stand Table Report (1 page)

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Foster **Area** 1

Harvest Type: (MC) Modified Clearcut

Approx. Cruise Acres: 36 **Estimated CV%** 50 Net BF/Acre **SE% Objective** 9 Net BF/Acre

Planned Sale Volume : 1.2 MMBF **Estimated Sale Area Value/Acre:** \$15,688/Acre
(37 MBF/Ac. @ \$424/Acre)

A. Cruise Goals: (a) Grade minimum 80 conifer and 40 hardwood trees
(b) Sample 47 cruise plots (18 grade/ 29 count); (c) Other goals (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 for conifers, 33.61 for hardwoods (Full point)

Cruise Line Directions: 77°/257°

Cruise Line Spacing 4 (chains) 264 (Feet)

Cruise Plot Spacing 2 (chains) 132 (Feet)

Grade/Count Ratio 1:2

Take plots as marked on cruise map. All cedar will be reserved. Record all snags as SN.

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

DO NOT RECORD 22' LENGTHS.

All hardwood will be measured to a G, or as appropriate.

C. Tree Measurements:

1. Diameter: Minimum DBH to cruise is 8" for conifers and 8" for hardwoods.

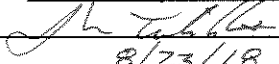
Record dbh to nearest 1/2" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

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 conifer 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. Hardwoods shall be recorded in 8' and 10' multiples.
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; R = Camp Run; 0 = Cull
Hardwoods: Alder Grades: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill, or R = Camp Run; 0 = Cull.
All Maple Camp Run = R
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: Cody Valencia
Approved by: 
Date: 8/23/18

FOSTER

Foster

Area 1 (MC)

Plots Total: 47

Grade Plots: 18

Count Plots: 29

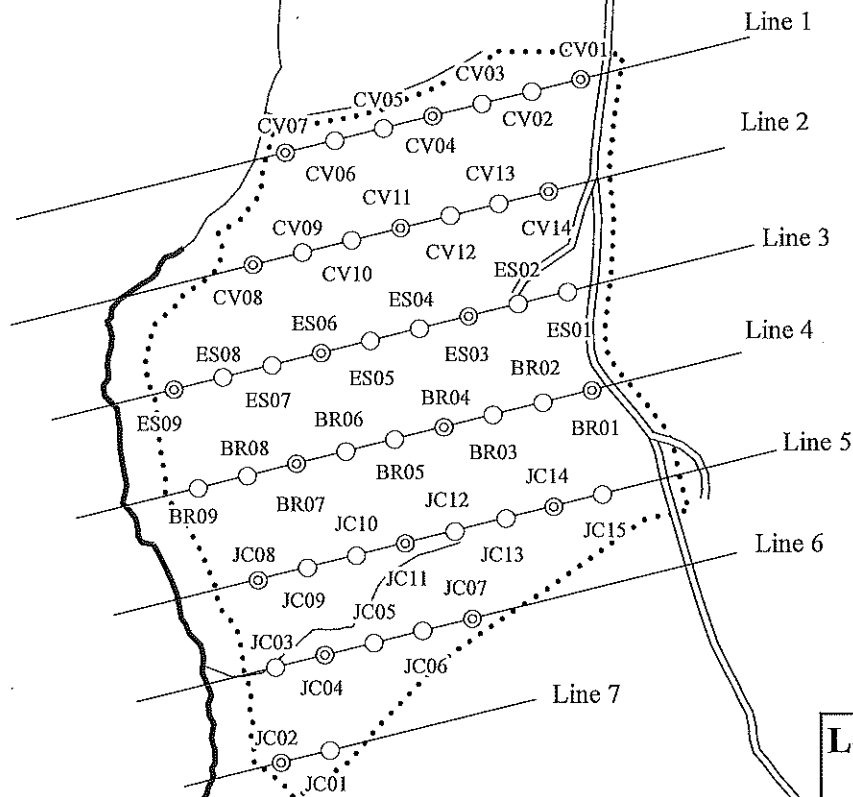
AZ: 77/257

BAF 40 Conifer, 33.61 Hardwood

Plot Spacing: 2 Chains (132')

Line Spacing: 4 Chains (264')

Map Scale 1:6000



Legend

- Count Plot
- ⊙ Grade Plot
- ⋯ Timber Sale Boundary
- Surfaced Road
- Type "F" Stream
- Type "N" Stream

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1			
				Project: FOSTER										Date		9/4/2018			
														Time		10:04:38AM			
T06N R06W S06 TTK										T06N R06W S06 TTK									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt	
06N		06W		06		A1		TK		36.00		47		114		1		W	
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
								Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf			
								4-5 6-11 12-16 17+				12-20 21-30 31-35 36-99							
D DO CU																11 20 0.00			1.5
D DO 2S			81	1.4 25,224 24,875			895	36 64				0 4 96				39 17 458 2.53			54.3
D DO 3S			15	.6 4,566 4,540			163	93 1 6				5 5 24 66				35 9 108 0.88			42.0
D DO 4S			4	1,091 1,091			39	100				55 45				21 7 31 0.47			35.5
D Totals			75	1.2 30,881 30,506			1,097 1,098	17 29 53				3 2 6 88				32 12 229 1.62			133.3
A DO CU																22 10 0.00			5.5
A DO 1S			23	4.8 2,529 2,408			87	100				30 70				36 12 185 1.47			13.0
A DO 2S			36	1.5 3,852 3,796			137	100				11 4 85				38 10 148 1.04			25.7
A DO 3S			18	1.3 1,904 1,878			68	100				21 44 36				29 9 69 0.72			27.3
A DO 4S			23	2,342 2,342			84	100				33 19 15 34				26 6 36 0.50			64.6
A Totals			25	1.9 10,626 10,424			376 375	77 23				11 23 5 61				30 8 77 0.77			136.2
Type Totals				1.4 41,508 40,930			1,473	33 28 40				5 8 6 82				31 10 152 1.21			269.5

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	FOSTER			DATE	9/4/2018		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
06N	06W	06	A1	00MC	36.00	47	304	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		47	304	6.5							
CRUISE		18	116	6.4	4,663	2.5					
DBH COUNT											
REFOREST											
COUNT		29	187	6.4							
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR		70	49.9	23.3	90	30.7	148.1	30,881	30,506	7,033	
R ALDER		44	73.6	14.8	58	22.9	88.0	10,626	10,424	3,115	
SNAG		2	6.0	13.3	67	1.6	5.8				
TOTAL		116	129.5	18.5	71	56.2	241.9	41,508	40,930	10,148	
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		66.3	7.9	866	940	1,015					
R ALDER		46.3	7.0	150	162	173					
SNAG											
TOTAL		98.7	9.2	571	629	686	389	97	43		
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		92.3	13.4	43	50	57					
R ALDER		83.1	12.1	65	74	83					
SNAG		302.4	44.1	3	6	9					
TOTAL		46.4	6.8	121	130	138	86	21	10		
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		73.4	10.7	132	148	164					
R ALDER		83.4	12.2	77	88	99					
SNAG		281.3	41.0	3	6	8					
TOTAL		36.4	5.3	229	242	255	53	13	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		
DOUG FIR		71.0	10.3	27,350	30,506	33,662					
R ALDER		85.6	12.5	9,125	10,424	11,724					
SNAG											
TOTAL		41.9	6.1	38,431	40,930	43,430	70	18	8		

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	FOSTER			DATE	9/4/2018		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
06N	06W	06	A1	TK	36.00	47	297	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		47	297	6.3							
CRUISE		18	114	6.3	4,447	2.6					
DBH COUNT											
REFOREST											
COUNT		29	183	6.3							
BLANKS											
100 %											
STAND SUMMARY											
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR		70	49.9	23.3	90	30.7	148.1	30,881	30,506	7,033	7,033
R ALDER		44	73.6	14.8	58	22.9	88.0	10,626	10,424	3,115	3,115
TOTAL		114	123.5	18.7	71	54.6	236.0	41,508	40,930	10,148	10,148
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		66.3	7.9	866	940	1,015					
R ALDER		46.3	7.0	150	162	173					
TOTAL		96.9	9.1	582	640	698	375	94	42		
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		92.3	13.4	43	50	57					
R ALDER		83.1	12.1	65	74	83					
TOTAL		43.8	6.4	116	124	131	77	19	9		
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		73.4	10.7	132	148	164					
R ALDER		83.4	12.2	77	88	99					
TOTAL		35.6	5.2	224	236	248	51	13	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		
DOUG FIR		71.0	10.3	27,350	30,506	33,662					
R ALDER		85.6	12.5	9,125	10,424	11,724					
TOTAL		41.9	6.1	38,431	40,930	43,430	70	18	8		

TC TLOGSTVB				Log Stock Table - MBF																
				Project: FOSTER																
T06N R06W S06 TTK												T06N R06W S06 TTK								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2											
06N	06W	06	A1	TK	36.00	47	114	Date	9/4/2018											
								Time	10:04:38AM											
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+
A	DO	4S	30	11			11	2.8			11									
A	DO	4S	34	12			12	3.3			12									
A	DO	4S	40	29			29	7.7			29									
A Totals				383	1.9	375	25.5			84	68	137	73	14						
Total All Species				1,494	1.4	1,473	100.0			124	138	217	179	155	272	280	76	33		

TC TSTNDSUM				Stand Table Summary										
Project FOSTER														
T06N R06W S06 TTK										T06N R06W S06 TTK				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1					
06N	06W	06	A1	TK	36.00	47	114	Date:	09/04/20					
										Time:	10:04:37AM			
S Spc	T	Sample		Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals	
		DBH	Trees	FF 16'				Tot	Net Cu.Ft.		Net Bd.Ft.	Cu.Ft. Acre		
D		11	1	86	128	3.206	2.12	6.41	13.5	50.0	87	321	31	12
D		12	1	88	105	2.694	2.12	5.39	14.0	50.0	75	269	27	10
D		13	1	86	118	2.295	2.12	4.59	18.0	65.0	83	298	30	11
D		14	2	86	70	3.958	4.23	5.94	19.0	66.7	113	396	41	14
D		15	1	86	110	1.724	2.12	3.45	25.0	95.0	86	328	31	12
D		17	1	89	124	1.342	2.12	4.03	26.0	93.3	105	376	38	14
D		18	1	89	112	1.197	2.12	3.59	25.7	90.0	92	323	33	12
D		19	2	89	128	2.149	4.23	6.45	32.0	123.3	206	795	74	29
D		20	3	88	118	2.909	6.35	8.73	33.6	132.2	293	1,154	105	42
D		21	4	88	116	3.518	8.46	9.67	39.0	150.9	377	1,460	136	53
D		22	1	89	117	.801	2.12	2.40	40.3	173.3	97	417	35	15
D		23	2	87	129	1.466	4.23	4.40	48.2	195.0	212	858	76	31
D		24	4	85	123	2.694	8.46	8.08	48.5	190.8	392	1,542	141	56
D		25	7	88	130	4.344	14.81	13.03	57.5	243.8	750	3,177	270	114
D		26	4	86	123	2.295	8.46	6.31	57.0	232.7	360	1,469	130	53
D		27	2	87	131	1.064	4.23	3.19	66.0	286.7	211	915	76	33
D		28	2	89	129	.989	4.23	2.97	70.3	321.7	209	955	75	34
D		29	5	87	126	2.306	10.58	6.46	79.8	347.1	515	2,241	185	81
D		30	4	84	141	1.724	8.46	5.17	83.9	374.2	434	1,935	156	70
D		31	4	88	138	1.614	8.46	4.84	91.9	442.5	445	2,143	160	77
D		32	3	86	140	1.136	6.35	3.41	97.6	460.0	333	1,568	120	56
D		33	5	85	134	1.781	10.58	5.34	99.1	458.0	529	2,447	191	88
D		34	2	85	125	.671	4.23	2.01	99.5	450.0	200	906	72	33
D		35	3	86	142	.950	6.35	2.85	103.8	522.2	296	1,488	106	54
D		38	1	92	157	.269	2.12	.81	159.0	866.7	128	698	46	25
D		41	1	86	146	.231	2.12	.69	164.7	823.3	114	570	41	21
D		42	1	89	146	.220	2.12	.66	176.3	923.3	116	609	42	22
D		44	1	83	157	.200	2.12	.60	192.3	913.3	116	549	42	20
D		51	1	83	121	.149	2.12	.30	202.0	1000.0	60	298	22	11
D		Totals	70	87	121	49.896	148.09	131.77	53.4	231.5	7,033	30,506	2,532	1,098
A		11	2	87	78	6.058	4.00	9.09	14.0	46.7	127	424	46	15
A		12	5	86	67	12.726	10.00	17.82	15.4	45.7	275	814	99	29
A		13	5	87	87	10.844	10.00	19.52	18.7	66.7	364	1,301	131	47
A		14	6	86	78	11.220	11.99	18.70	19.9	66.0	372	1,234	134	44
A		15	4	87	88	6.516	8.00	13.03	24.8	87.5	323	1,140	116	41
A		16	5	86	84	7.159	10.00	14.32	26.7	92.0	382	1,317	138	47
A		17	7	86	88	8.878	13.99	17.76	31.4	104.3	557	1,852	200	67
A		18	4	87	84	4.525	8.00	9.05	30.2	102.5	274	928	99	33
A		19	2	87	79	2.031	4.00	4.06	36.3	122.5	147	497	53	18
A		20	4	86	80	3.665	8.00	7.33	40.1	125.0	294	916	106	33
A		Totals	44	86	80	73.621	87.96	130.67	23.8	79.8	3,115	10,424	1,121	375
Totals			114	87	97	123.517	236.04	262.44	38.7	156.0	10148	40,930	3,653	1,473

LOGGING PLAN

OF TIMBER SALE FOSTER
PORTIONS OF SECTION 6 OF T6N, R6W
AND SECTIONS 31 & 32, T7N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Approximate Net Acreage	MC Acres
Area 1 (MC) -	36
Total Sale Acreage =	36

Logging Breakdown	Tractor	Cable
Area 1 (MC) -	8%, 3 acres	92%, 33 acres
Total =	8%, 3 acres	92%, 33 acres

