



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Seaside
Sale KL-341-2020-W00774-01

District: Klamath/Lake

Date: February 11, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$212,675.11	\$0.00	\$212,675.11
		Project Work:	(\$18,421.51)
		Advertised Value:	\$194,253.60



Timber Sale Appraisal Seaside Sale KL-341-2020-W00774-01

District: Klamath/Lake

Date: February 11, 2020

Timber Description

Location: Portions of Sections 19, 30, and 31, Township 32S Range 7.5E, W.M., Klamath County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	95
Ponderosa Pine	21	0	97
Lodgepole Pine	14	0	90

Volume by Grade	2S	3S & 4S 6"-11"	3S 12"+	6" - 11"	12"-15"	16"+	Camprun	Total
White Fir	18	49	10	0	0	0	0	77
Ponderosa Pine	0	0	0	420	385	696	0	1,501
Lodgepole Pine	0	0	0	0	0	0	628	628
Total	18	49	10	420	385	696	628	2,206

Comments: Pond Values Used: Local Pond Values, December 2019.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

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

ROAD MAINTENANCE

Move-in: \$500.00

General Road Maintenance: 6 miles x \$211.00 per mile x 1 bladings = \$1,266.00

Total Road Maintenance: \$1,766.00, \$0.80 per Mbf



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Logging Conditions

Combination#: 1

White Fir	94.00%
Ponderosa Pine	63.00%
Lodgepole Pine	100.00%

Logging System: Wheel Skidder **Process:** Feller Buncher
yarding distance: Medium (800 ft) **downhill yarding:** Yes
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 10 **bd. ft / load:** 4000
cost / mbf: \$94.92
machines: Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Tire Skidder

Combination#: 2

White Fir	6.00%
Ponderosa Pine	37.00%

Logging System: Track Skidder **Process:** Manual Falling/Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** Yes
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 9 **bd. ft / load:** 4100
cost / mbf: \$119.53
machines: Log Loader (B)
Track Skidder



"STEWARDSHIP IN FORESTRY"

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District: Klamath/Lake

Date: February 11, 2020

Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$18,421.51	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.80

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
White Fir	\$0.00	3.0	4.2
Ponderosa Pine	\$0.00	3.0	4.2
Lodgepole Pine	\$0.00	2.0	3.8



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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
White Fir									
\$96.40	\$0.84	\$1.99	\$79.17	\$0.00	\$17.84	\$0.00	\$2.00	\$0.00	\$198.24
Ponderosa Pine									
\$104.03	\$0.82	\$1.99	\$77.66	\$0.00	\$18.45	\$0.00	\$2.00	\$0.00	\$204.95
Lodgepole Pine									
\$94.92	\$0.88	\$1.99	\$137.50	\$0.00	\$23.53	\$0.00	\$2.00	\$0.00	\$260.82

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$364.03	\$165.79	\$0.00
Ponderosa Pine	\$0.00	\$309.19	\$104.24	\$0.00
Lodgepole Pine	\$0.00	\$330.00	\$69.18	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Seaside
Sale KL-341-2020-W00774-01

District: Klamath/Lake

Date: February 11, 2020

Summary

Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
White Fir	77	\$165.79	\$12,765.83
Ponderosa Pine	1,501	\$104.24	\$156,464.24
Lodgepole Pine	628	\$69.18	\$43,445.04

Gross Timber Sale Value

Recovery: \$212,675.11

Prepared By: James Monteil

Phone: 541-883-5681

Seaside
KL-341-2020-W00774-01

Other Costs

Road Maintenance

Move-in cost (grader):	\$500.00
Number of Miles to be Bladed:	6.0
Number of Bladings:	1
Total Miles	6.0
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	12
Grading Cost:	<u>\$1,266.00</u>
	<u>\$1,766.00</u>
Total Cost:	\$1,766.00
Cost / Mbf:	\$0.80

Seaside

KL-341-2020-W00774-01

Project Costs

Project #1 Dust Abatement

PP	1501 Mbf	68.0%	Average Load	4.2 Mbf	No. of Loads	357
LP	628 Mbf	28.5%	Average Load	3.8 Mbf	No. of Loads	165
WF	77 Mbf	3.5%	Average Load	4.2 Mbf	No. of Loads	18
Total:	2206 Mbf				Total Loads	541

Assume:	6 Trucks/Day					
	2 Trips/Day				45 Days of Dust Abatement	
	12 Loads per Day			1.5 Hours/Day		
	45 Hauling Days			\$88.00 Cost/Hour		
				68 Total Hours		
				\$200.00 Move in for Water Truck		
				\$6,150.75 Dust Abatement Cost		
				\$6,150.75 Total Cost		
				\$2.79 Cost/Mbf		

Project #2 Road Improvement

Move in Cost Dozer: \$500.00

Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	3781	1000	3.8	\$132.50	\$500.98
Open/Clear/Shape	C to D	3684	1000	3.7	\$132.50	\$488.13
Open/Clear/Shape	E to F	3069	1000	3.1	\$132.50	\$406.64
	Total	10534			Total	\$1,395.76

Project #2 Summary

Equipment Costs	\$500.00
Improvement Costs	\$1,395.76
Project #2 Total	\$1,895.76
per MBF	\$0.86

Seaside
KL-341-2020-W00774-01
Project Costs

Project #3 Fell, Skid, and Pile Submerchantable Material

Total Sub-Sawlog Volume: 32 MBF

Fell and Skid/MBF: \$65.00

Sort/MBF: \$15.00

Total \$2,560.00

per MBF \$1.16

Landing Piling

Number of Landings: 17

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$2,125.00
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Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	\$2,252.50
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Total \$4,377.50

per MBF \$1.98

Project #3 Summary

Landing Piling	<u>\$4,377.50</u>
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Total Cost	<u><u>\$4,377.50</u></u>
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per Mbf	\$1.98
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Seaside
KL-341-2020-W00774-01
Project Costs

Project #4 Road Closures

Road Closures

3	Number of Closure Points - Point A, C, and E
\$132.50	Cost per Hour (Cat)
\$397.50	Total
<u>\$0.18</u>	per Mbf

Project #5 Slash and Brush Piling

Equipment Move In:	\$500.00
Acres to be Piled	30
Hours per Acre	2
Cost per Hour	\$85.00
Cost of Piling	\$5,100.00
Total Cost	\$5,600.00
per Mbf	\$2.54

Seaside
KL-341-2020-W00774-01
Project Costs

Project No. 1 - Dust Abatement	\$6,150.75
Project No. 2 - Road Improvement	\$1,895.76
Project No. 3 - Fell, Skid, and Pile Submerch	\$4,377.50
Project No.4- Road Closures	\$397.50
Project No.5- Slash and Brush Piling	\$5,600.00
Total Cost	\$18,421.51
per Mbf	\$8.35

Seaside

KL-341-2020-W00774
Cruise Report



SALE NAME: Seaside

LEGAL DESCRIPTION:

Section(s) 19, 30, 31 of Township 32S, Range 7.5E, and
Section(s) 25 of Township 32S, Range 6E, Willamette Meridian, Klamath County,
Oregon.

ACREAGE:

The timber sale is 355 acres and was cruised as two separate stands.

Stand	Gross Acres	Exclusion	Net Acres
111	305	0	305
116	50	0	50
Total	355	0	355

Acreage was determined using data collected using GPS and compiled using ArcMap.

TREATMENT:

Stand 111 is a single tree selection cut with cut trees marked with blue paint for trees 9.0 inches dbh and larger. Stand 111 is referenced in the contract as Area 1.

Stand 116 is a selection cut based on prescription by description, and is referenced in the contract as Areas 2. Area 2 is a selection cut with all lodgepole pine containing at least 20 board feet to be cut, and all blue marked ponderosa pine will be cut. Purchaser will also cut all submerchantable lodgepole down to 5 inches dbh. Requirements are listed in contract Section 2320, "Thinning Specifications".

CRUISE METHOD:

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot. Submerchantable material (5.0" to 9.0" dbh) was measured with a 1/50 acre fixed plot.

BASAL AREA FACTOR:

Stand	BAF	Type Acreage
111	13.61 BAF	305 acres
116	20 BAF	50 acres

FIXED PLOT:

Stand	Radius	Type Acreage
116	16.6	50 acres

PLOT DESIGNATION:

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

SAMPLE SIZE:

Stand 111: 33 Plots

Stand 116: 7 Plots

Measurements and Grading:

- DBH and Height were measured on all "in" trees for measure plots.
- Submerch volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole,

and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

9.5" dbh for sawlog volume. 5.0" dbh for submerchantable material.

DIAMETER STANDARDS:

1" diameter class

BTR:

Standard ratios were used. See attached species tables.

FORM FACTOR:

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own form factor.

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was compiled using SuperACE.

FINAL CRUISE RESULTS:

STAND	CV%	SE%	Acres
111	56.2	9.8	305
116	15.6	6.4	50
Combined	50.2	7.9	355

TIMBER DESCRIPTION

SAWLOG VOLUME:

All material graded camprun. See grade table for minimum standards.

Stand 111

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per area (Mbf)	Net Volume per area (Mbf)
Ponderosa pine	20.2	4,694	4,658	1,421	1,410
Lodgepole pine	14.7	797	797	243	243
White fir	14.6	253	253	77	77
Combined	18.1	5,744	5,707	1,741	1,730

Stand 116

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per area (Mbf)	Net Volume per area (Mbf)
Lodgepole pine	14.2	7,707	7,707	385	385
Ponderosa pine	29.2	1,855	1,830	92	91
Combined	14.9	9,561	9,537	478	477

TOTAL SAWLOG VOLUME

Species	Average DBH	Gross Volume (Mbf)	Net Volume (Mbf)
Ponderosa pine	20.5	1,513	1,501
Lodgepole pine	14.4	628	628
White fir	14.6	77	77
Combined	17.1	2,219	2,206

TOTAL NET SAWLOG VOLUME: 2,206 MBF

GREEN PULP VOLUME:

Submerchantable Material

This volume was obtained from the fixed plot cruise (5.0" – 9.0" DBH) combined with all material graded as green pulp during the variable plot cruise. All material was graded green pulp, see grade table for minimum standards.

Species	Average DBH	Gross Volume (mbf)
Submerch.	6.6	32

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	SEASIDE	DATE 2/10/2020					
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
032	007	30	111	VARI	305.00	33	108	1	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		33	108	3.3							
CRUISE		17	61	3.6	7,521	.8					
DBH COUNT											
REFOREST											
COUNT		14	45	3.2							
BLANKS		2									
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	
P PINE		49	14.5	20.2	54	7.2	32.3	4,694	4,658	902	
LP PINE		8	7.7	14.7	41	2.4	9.1	797	797	199	
WHITE F		4	2.5	14.6	33	0.8	2.9	253	253	62	
TOTAL		61	24.7	18.1	48	10.4	44.3	5,744	5,707	1,163	
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		
P PINE		89.6	12.8	513	589	664					
LP PINE		57.6	21.7	94	120	146					
WHITE F		135.2	77.2	48	213	377					
TOTAL		101.1	12.9	437	502	567	408	102	45		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
P PINE		79.7	11.4	96	108	120					
LP PINE		43.4	16.4	24	29	33					
WHITE F		122.7	70.1	14	48	81					
TOTAL		89.3	11.4	83	94	104	318	80	35		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
P PINE		107.7	18.7	12	15	17					
LP PINE		216.3	37.6	5	8	11					
WHITE F		349.4	60.8	1	2	4					
TOTAL		70.9	12.3	22	25	28	201	50	22		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
P PINE		80.9	14.1	28	33	37					
LP PINE		207.7	36.1	6	9	12					
WHITE F		306.4	53.3	1	3	4					
TOTAL		46.6	8.1	41	45	48	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		
P PINE		83.9	14.6	4,008	4,693	5,378					
LP PINE		216.7	37.7	497	797	1,097					
WHITE F		286.2	49.8	127	253	379					
TOTAL		56.2	9.8	5,182	5,743	6,304	126	32	14		
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		
P PINE		81.5	14.2	780	909	1,037					
LP PINE		218.2	37.9	124	199	275					
WHITE F		291.8	50.8	31	62	94					

TC TSTATS				STATISTICS PROJECT SEASDE				PAGE 2		
								DATE 2/10/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
032	007	30	111	VARI	305.00	33	108	1	E	
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
TOTAL		50.1	8.7	1,068	1,170	1,272		100	25	11

TC TSTATS				STATISTICS				PAGE 1			
				PROJECT	SEASIDE		DATE 2/10/2020				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
032	007	30	116	VARI	50.00	7	35	1	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL				7	35	5.0					
CRUISE				3	16	5.3	4,150	.4			
DBH COUNT											
REFOREST											
COUNT				4	19	4.8					
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	
LP PINE		14	80.5	14.2	41	23.5	88.6	7,707	7,707	1,850	
P PINE		2	2.5	29.2	77	2.1	11.4	1,855	1,830	344	
TOTAL		16	83.0	14.9	42	25.9	100.0	9,561	9,537	2,194	
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		
LP PINE		56.0	15.5	100	118	136					
P PINE		12.3	11.6	659	745	831					
TOTAL		114.2	29.5	138	196	254	555	139	62		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		54.1	15.0	23	28	32					
P PINE		11.1	10.4	125	140	155					
TOTAL		98.8	25.5	31	42	52	415	104	46		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		26.8	10.9	72	81	89					
P PINE		137.7	56.0	1	2	4					
TOTAL		23.3	9.5	75	83	91	25	6	3		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		28.7	11.7	78	89	99					
P PINE		137.7	56.0	5	11	18					
TOTAL		16.3	6.6	93	100	107	12	3	1		
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		29.7	12.1	6,774	7,707	8,639					
P PINE		137.7	56.0	805	1,830	2,855					
TOTAL		15.6	6.4	8,930	9,537	10,144	11	3	1		
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		28.9	11.8	1,615	1,830	2,045					
P PINE		137.7	56.0	151	344	537					
TOTAL		15.3	6.2	2,038	2,174	2,309	11	3	1		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	SEASIDE	DATE 2/10/2020				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
032	007	30	116	FIXD	50.00	7	2	1	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
PLOTS		TREES								
TOTAL		7		2		.3				
CRUISE		1		1		1.0		714		
DBH COUNT		1		1		1.0		.1		
REFOREST										
COUNT										
BLANKS		5								
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
LP PINE		1	14.3	6.6	31	1.3	3.4	429	429	71
TOTAL		1	14.3	6.6	31	1.3	3.4	429	429	71
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.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0			
LP PINE										
TOTAL										
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0			
LP PINE										
TOTAL										
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15
LP PINE		170.8	69.5	4	14	24				
TOTAL		170.8	69.5	4	14	24	1,352		338	150
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15
LP PINE		170.8	69.5	1	3	6				
TOTAL		170.8	69.5	1	3	6	1,352		338	150
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15
LP PINE		170.8	69.5	131	429	726				
TOTAL		170.8	69.5	131	429	726	1,352		338	150
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
LP PINE		170.8	69.5	22	71	121				
TOTAL		170.8	69.5	22	71	121	1,352		338	150

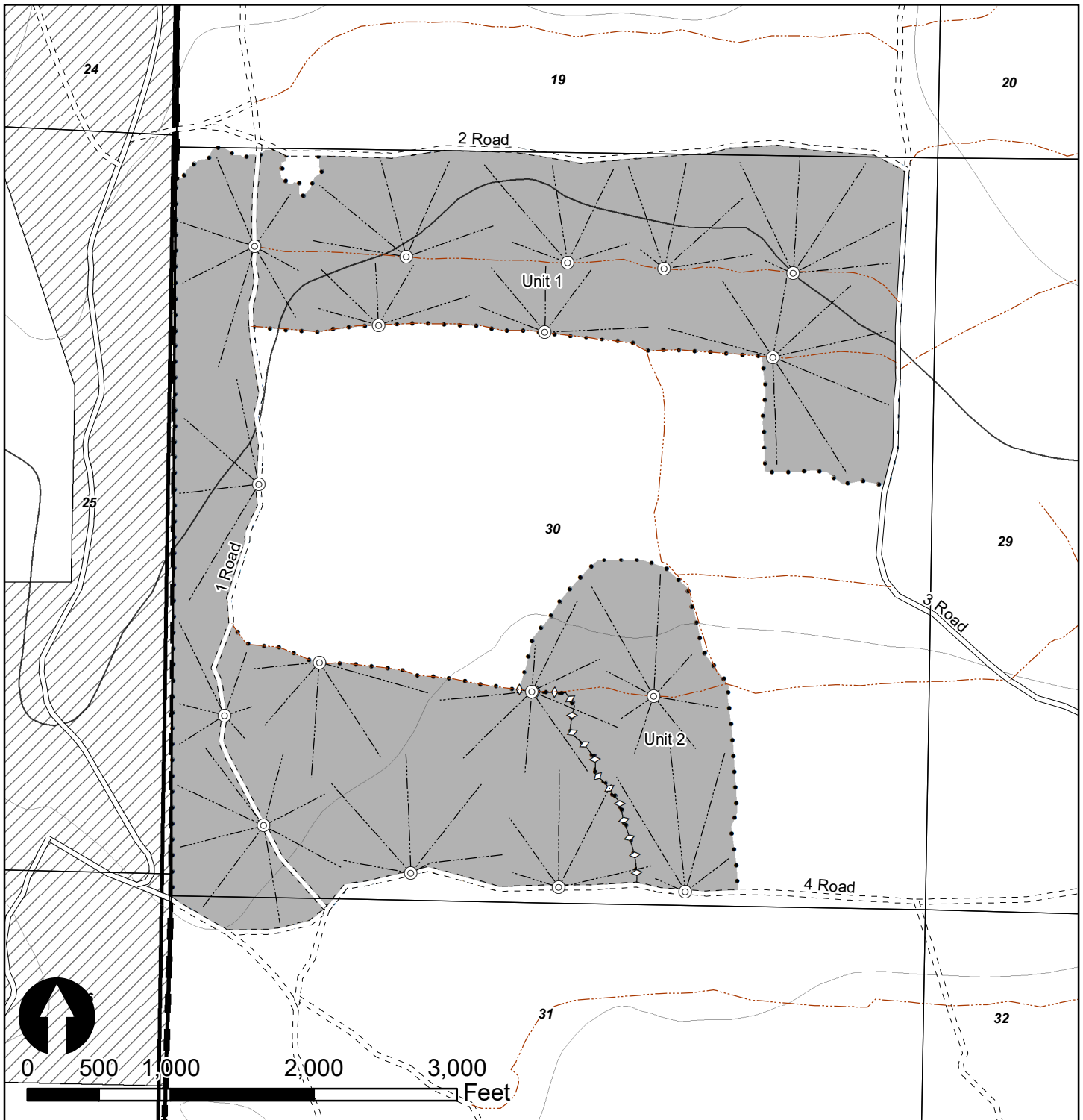
TC PSTATS				PROJECT STATISTICS					PAGE	1			
				PROJECT	SEASDE	DATE 2/10/2020							
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt				
032	007	30	111	VARI	355.00	40	143	1	E				
032	007	30	116	VARI									
				TREES	ESTIMATED	PERCENT							
				PER PLOT	TOTAL	SAMPLE							
				TREES	TREES	TREES							
TOTAL				40	143	3.6							
CRUISE				20	77	3.8	11,671	.7					
DBH COUNT													
REFOREST													
COUNT				18	64	3.6							
BLANKS				2									
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	
LP PINE				22	17.9	14.4	41	5.3	20.3	1,770	1,770	432	429
P PINE				51	12.8	20.5	55	6.5	29.4	4,294	4,259	823	823
WHITE F				4	2.1	14.6	33	0.6	2.5	217	217	54	54
TOTAL				77	32.9	17.1	46	12.6	52.1	6,282	6,247	1,309	1,306
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				
LP PINE			55.2	12.0	104	119	133						
P PINE			87.0	12.2	522	595	667						
WHITE F			135.2	77.2	48	213	377						
TOTAL			109.1	12.4	384	439	493	476	119	53			
CL	68.1	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15				
LP PINE			49.2	10.7	25	28	31						
P PINE			77.4	10.8	97	109	121						
WHITE F			122.7	70.1	14	48	81						
TOTAL			95.9	10.9	74	83	92	367	92	41			
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15				
LP PINE			154.7	24.4	14	18	22						
P PINE			122.0	19.3	10	13	15						
WHITE F			386.5	61.1	1	2	3						
TOTAL			71.8	11.3	29	33	37	206	51	23			
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15				
LP PINE			151.8	24.0	15	20	25						
P PINE			91.4	14.4	25	29	34						
WHITE F			339.6	53.7	1	2	4						
TOTAL			46.1	7.3	48	52	56	85	21	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				
LP PINE			154.2	24.4	1,339	1,770	2,201						
P PINE			93.7	14.8	3,629	4,259	4,890						
WHITE F			317.7	50.2	108	217	326						
TOTAL			50.2	7.9	5,752	6,247	6,742	101	25	11			
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				
LP PINE			153.4	24.2	325	429	533						
P PINE			91.6	14.5	704	823	942						

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT	SEASDE			DATE	2/10/2020	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
032	007	30	111	VARI	355.00	40	143	1	E	
032	007	30	116	VARI						
CL	68.1		COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.	INF. POP.		
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F			323.8	51.2	26	54	81			
TOTAL			45.7	7.2	1,211	1,306	1,400	83	21	9

T	Species, Sort Grade - Board Foot Volumes (Type)														Page		1					
Project: SEASDE														Date		2/10/2020						
														Time		2:35:38PM						
T032 R007 S30 TVARI														T032 R007 S30 TVARI								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt													
032	007	30	111	VARI	305.00	33	62	1	E													
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		
PP	CR	CR	99	.8	4,659	4,623	1,410			29	29	43		6	8	86		29	11	209	1.41	22.1
PP	CR	GP	1		35	35	11			33	67			100				14	5	15	0.26	2.3
PP	Totals		82	.8	4,694	4,658	1,421			0	29	28	43	7	8	85		27	11	191	1.36	24.4
LP	CR	CR	100		797	797	243			70	30			18	15	66		28	8	84	0.75	9.5
LP	Totals		14		797	797	243			70	30			18	15	66		28	8	84	0.75	9.5
WF	CR	CR	100		253	253	77			63		37		18	16	66		25	9	95	0.94	2.6
WF	Totals		4		253	253	77			63		37		18	16	66		25	9	95	0.94	2.6
Type Totals				.6	5,744	5,707	1,741			0	36	27	36	9	10	82		27	10	156	1.17	36.5

T	TSPCSTGR									Species, Sort Grade - Board Foot Volumes (Type)										Page		1							
										Project:		SEASDE								Date		2/10/2020							
																				Time		2:36:23PM							
T032 R007 S30 TVARI															T032 R007 S30 TVARI														
Twp			Rge			Sec			Tract			Type			Acres			Plots			Sample Trees			CuFt			BdFt		
032			007			30			116			VARI			50.00			7			16			1			E		
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def%GrossNet			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												
LP				CR	CR	100	7,707	7,707	385	76		24		16	11	73	27	9	88	0.79	87.2								
LP				Totals		81	7,707	7,707	385	76		24		16	11	73	27	9	88	0.79	87.2								
PP				CR	CR	100	1.3	1,855	1,830	91	17		24		59	22		78	27	14	297	2.06	6.2						
PP				Totals		19	1.3	1,855	1,830	91	17		24		59	22		78	27	14	297	2.06	6.2						
Type Totals							.3	9,561	9,537	477	65		24		11	17	9	74	27	9	102	0.87	93.3						

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																				
<div>T032 R007 S30 TyVARI305.00</div> <div>T032 R007 S30 TyVARI50.00</div>							Project:		SEASDE								Page		1					
							Acres		355.00								Date		2/10/2020					
																	Time		2:34:40PM					
S Spp			So Gr T rt ad			% Net BdFt	Bd. Ft. per Acre Def%GrossNet			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
											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
PP			CR CR			99	.84,2644,229			1,501	282844				7885				29122131.44				19.8	
PP			CR GP			1	3030			11	3367				100				145150.26				2.0	
PP Totals						68	.84,2944,259			1,512	0282844				8885				27111951.38				21.8	
WF			CR CR			100	217217			77	6337				181666				259950.94				2.3	
WF Totals						3	217217			77	6337				181666				259950.94				2.3	
LP			CR CR			100	1,7701,770			628	7327				171370				279870.77				20.4	
LP Totals						28	1,7701,770			628	7327				171370				279870.77				20.4	
Totals							0.66,2826,247			2,218	0422731				111080				27101401.08				44.5	



LOGGING PLAN

Of Timber Sale Contract
KL-341-2020-W00774-01

Seaside

Section(s) 19, 30, 31, T32S,
R7.5E, Willamette Meridian,
Klamath County, Oregon
Approximately 355 acres

