



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Peg Leg
Sale KL-341-2021-W00281-01

District: Klamath/Lake

Date: May 02, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$576,516.41	\$0.00	\$576,516.41
		Project Work:	(\$35,045.65)
		Advertised Value:	\$541,470.76



Timber Sale Appraisal Peg Leg Sale KL-341-2021-W00281-01

District: Klamath/Lake

Date: May 02, 2020

Timber Description

Location: Section(s) 1, 2, 11, 12 of T33S, R7.5E and Section(s) 35, 36 of T32S, R7.5E, Willamette Meridain, Klamath County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	98
Sugar Pine	23	0	97
Ponderosa Pine	20	0	97
Lodgepole Pine	13	0	95

Volume by Grade	3S & 4S 6"-11"	3S 12"+	6" - 11"	12"-15"	16"+	Camprun	Total
White Fir	176	17	0	0	0	0	193
Sugar Pine	0	0	74	100	62	0	236
Ponderosa Pine	0	0	1,185	759	1,664	0	3,608
Lodgepole Pine	0	0	0	0	0	11	11
Total	176	17	1,259	859	1,726	11	4,048

Comments: Pond Values Used: Local Pond Values, March 2020.

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: 7.1 miles x \$211.00 per mile x 1 bladings = \$1,498.10

Total Road Maintenance: \$1,998.10, \$0.49 per Mbf



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Logging Conditions

Combination#: 1

White Fir	72.00%
Ponderosa Pine	31.00%
Lodgepole Pine	100.00%

Logging System: Wheel Skidder **Process:** Feller Buncher

yarding distance: Medium (800 ft) **downhill yarding:** Yes

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 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	28.00%
Sugar Pine	100.00%
Ponderosa Pine	69.00%

Logging System: Track Skidder **Process:** Manual Falling/Delimbing

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:** 4300

cost / mbf: \$102.58

machines: Log Loader (B)
Track Skidder



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District: Klamath/Lake

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Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$35,045.65	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.49

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	4.0	4.0
Sugar Pine	\$0.00	4.0	4.2
Ponderosa Pine	\$0.00	4.0	4.2
Lodgepole Pine	\$0.00	3.0	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									
\$97.06	\$0.50	\$1.08	\$60.57	\$0.00	\$15.92	\$0.00	\$2.00	\$0.00	\$177.13
Sugar Pine									
\$102.58	\$0.50	\$1.08	\$58.25	\$0.00	\$16.24	\$0.00	\$2.00	\$0.00	\$180.65
Ponderosa Pine									
\$100.21	\$0.50	\$1.08	\$58.25	\$0.00	\$16.00	\$0.00	\$2.00	\$0.00	\$178.04
Lodgepole Pine									
\$94.92	\$0.51	\$1.08	\$87.50	\$0.00	\$18.40	\$0.00	\$2.00	\$0.00	\$204.41

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$381.97	\$204.84	\$0.00
Sugar Pine	\$0.00	\$308.43	\$127.78	\$0.00
Ponderosa Pine	\$0.00	\$318.13	\$140.09	\$0.00
Lodgepole Pine	\$0.00	\$330.00	\$125.59	\$0.00



"STEWARDSHIP IN FORESTRY"

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Sale KL-341-2021-W00281-01

District: Klamath/Lake

Date: May 02, 2020

Summary

Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Sugar Pine	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	193	\$204.84	\$39,534.12
Sugar Pine	236	\$127.78	\$30,156.08
Ponderosa Pine	3,608	\$140.09	\$505,444.72
Lodgepole Pine	11	\$125.59	\$1,381.49

Gross Timber Sale Value

Recovery: \$576,516.41

Prepared By: Chris Weekly

Phone: 541-883-5681

Peg Leg
KL-341-2021-W00281-01

Other Costs

Road Maintenance

Move-in cost (grader):	\$500.00
Number of Miles to be Bladed:	7.1
Number of Bladings:	1
Total Miles	7.1
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	14
Grading Cost:	\$1,498.10
	\$1,998.10
Total Cost:	\$1,998.10
Cost / Mbf:	\$0.49

Peg Leg

KL-341-2021-W00281-01

Project Costs

Project #1 Dust Abatement

PP	3607 Mbf	89.1%	Average Load	4.2 Mbf	No. of Loads	859
WF	194 Mbf	4.8%	Average Load	4.0 Mbf	No. of Loads	49
SP	235 Mbf	5.8%	Average Load	4.2 Mbf	No. of Loads	56
LP	11 Mbf	0.3%	Average Load	3.8 Mbf	No. of Loads	3
Total:	4047 Mbf				Total Loads	966

Assume:	6 Trucks/Day	
	2 Trips/Day	81 Days of Dust Abatement
	12 Loads per Day	1.5 Hours/Day
	81 Hauling Days	\$88.00 Cost/Hour
		120.8 Total Hours
		\$200.00 Move in for Water Truck
		\$10,827.72 Dust Abatement Cost
		\$10,827.72 Total Cost
		\$2.68 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	1079	1000	1.1	\$132.50	\$142.97
Open/Clear/Shape	C to D	1218	1000	1.2	\$132.50	\$161.39
Open/Clear/Shape	E to F	278	1000	0.3	\$132.50	\$36.84
Open/Clear/Shape	G to I	1819	1000	1.8	\$132.50	\$241.02
Open/Clear/Shape	G to H	3972	1000	4.0	\$132.50	\$526.29
Open/Clear/Shape	J to K	2276	1000	2.3	\$132.50	\$301.57
Open/Clear/Shape	L to M	1644	1000	1.6	\$132.50	\$217.83
Open/Clear/Shape	N to O	5604	1000	5.6	\$132.50	\$742.53
	Total	17890				Total \$2,370.43

Project #2 Summary

Equipment Costs	\$500.00
Improvement Costs	\$2,370.43
Project #2 Total	\$2,870.43
per MBF	\$0.71

Peg Leg
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Project Costs

Project #3 Slash Disposal

Unit acres to be piled	60
Hours per acre	2
Cost per hour	\$85.50
Total Unit Piling	\$10,260.00
per Mbf	\$2.54

Landing Piling

Number of Landings: 41

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$5,125.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	\$5,432.50

Total	\$10,557.50
per Mbf	\$2.61

Project #3 Summary

Unit Piling	\$10,260.00
Landing Piling	\$10,557.50
Total Cost	\$20,817.50
per Mbf	\$5.14

Peg Leg
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Project Costs

Project #4 Road Closures

Road Closures

4	Number of Closure Points - Point E, G, H, I
\$132.50	Cost per Hour (Cat)
\$530.00	Total
\$0.13	per Mbf

Summary

Project No. 1 - Dust Abatement	\$10,827.72
Project No. 2 - Road Improvement	\$2,870.43
Project No. 3 - Slash Disposal	\$20,817.50
Project No.4- Road Closures	\$530.00
Total Cost	\$35,045.65
per Mbf	\$8.66

Peg Leg

KL-341-2021-W00281-01

Cruise Report



SALE NAME: Peg Leg

LEGAL DESCRIPTION:

Section(s) 1, 2, 11, 12 of Township 33S, Range 7¹/₂E, and Section(s) 35, 36 of Township 32S, Range 7¹/₂E, Willamette Meridian, Klamath County, Oregon.

ACREAGE:

Gross Acres: 666

Exclusions: 1.5

Net Acres: 664.5

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

TREATMENT:

The timber sale is a single tree selection partial cut. Cut trees 5.0 inches at DBH and larger are marked with blue paint.

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.

BASAL AREA FACTOR:

BAF	Type Acreage
13.61 BAF	666 acres

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was compiled using SuperACE.

FINAL CRUISE RESULTS:

CV%	SE%	Acres
46.7	8.0	666

TIMBER DESCRIPTION**SAWLOG VOLUME:**

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

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	19.5	5,483	5,433	3,641	3,607
White fir	15.2	292	292	194	194
Sugar Pine	23.2	360	354	239	235
Lodgepole pine	13.1	17	17	11	11
Combined	19.2	6,152	6,096	4,085	4,047

TOTAL NET SAWLOG VOLUME: 4,047 MBF

Stand Table Summary

TC

TSTNDSUM

Project

PEGLEG

T033 R007 S01 T033 R007 S02 TORIG

Page: 1							
Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees
033	007	02	216	ORIG	664.00	34	56
Av	Average Log	Net	Net				
S	Sample	FF	Ht	Trees/	BA/	Logs	Net
Spc	T	DBH	Trees	16'	Tot	Acre	Acre
PP		12	2	83	40	2.331	1.84
PP		13	2	83	51	2.114	1.84
PP		14	4	84	68	3.685	3.69
PP		15	1	85	61	0.762	0.92
PP		16	2	82	53	1.297	1.84
PP		17	2	83	68	1.228	1.84
PP		18	2	84	66	1.005	1.84
PP		19	2	84	70	0.923	1.84
						13.343	0.31
PP		20	1	83	75	0.423	0.92
PP		21	2	84	86	0.760	1.84
PP		23	3	84	87	0.943	2.77
PP		24	1	85	102	0.286	0.92
PP		25	3	85	90	0.819	2.77
PP		26	3	84	84	0.735	2.77
PP		27	3	85	94	0.706	2.77
PP		28	3	84	92	0.644	2.77
PP		29	2	82	95	0.405	1.84
PP		30	3	82	99	0.565	2.77
PP		32	4	85	98	0.667	3.69
PP		36	1	85	97	0.130	0.92
PP	Totals	46	84	70	20.426	42.43	30.31
SP		21	2	83	66	0.775	1.80
SP		24	1	80	67	0.292	0.90
SP		32	1	80	73	0.161	0.90
SP	Totals	4	82	67	1.227	3.60	2.07
WF		12	1	86	38	0.949	0.72
WF		15	2	86	55	1.159	1.44
WF		16	1	87	69	0.497	0.72
						2.605	0.72
WF		23	1	80	31	0.261	0.72
WF	Totals	5	85	50	2.866	3.60	3.36
LP		13	1	80	38	0.428	0.40
LP	Totals	1	80	38	0.428	0.40	0.43
Totals		56	84	67	24.947	50.04	35.2

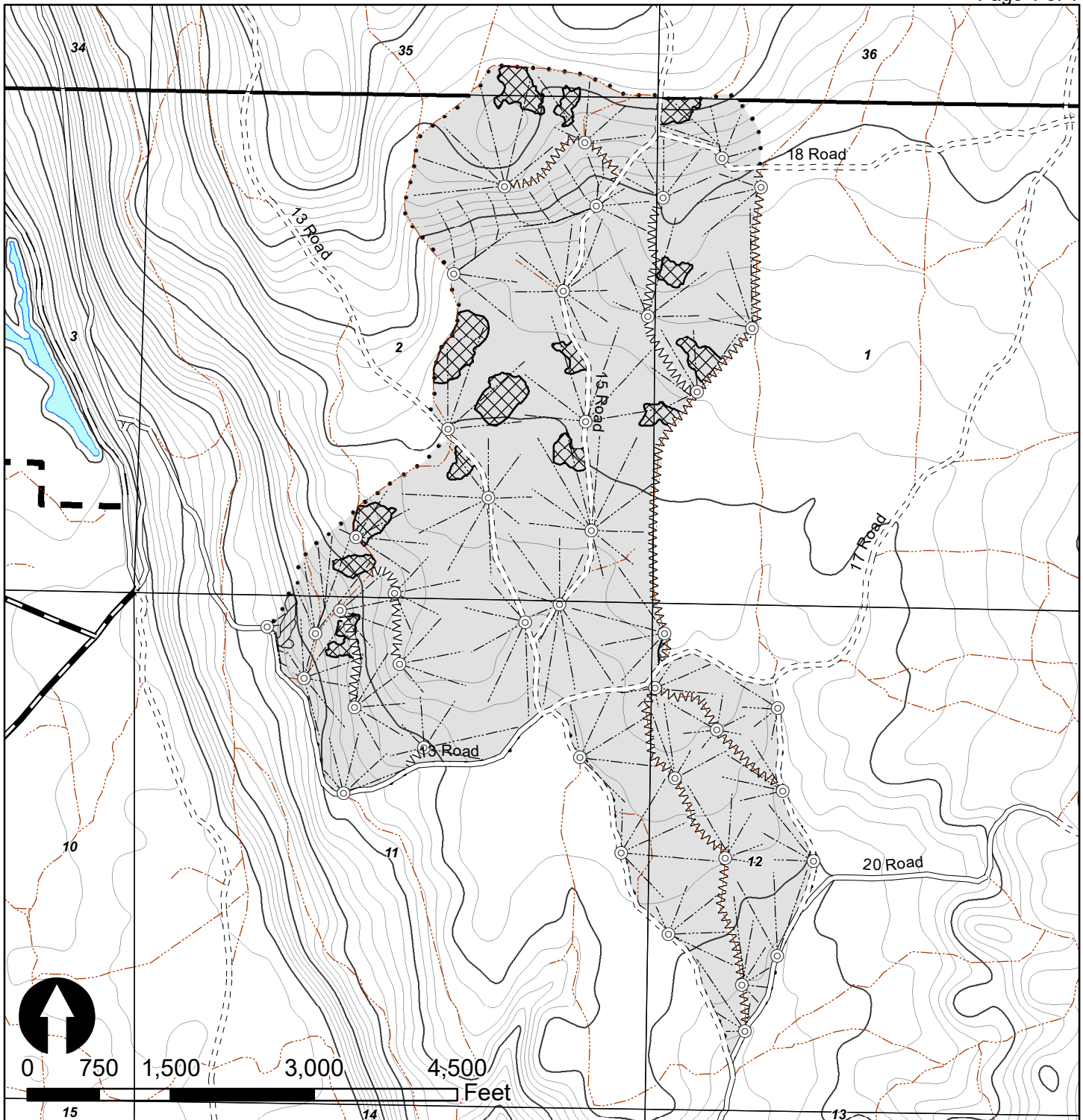
Time: 7:18:44 AM

Net	Tons/	Cu.Ft.	Bd.Ft.	T o t a l s					
Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF	
2.33	11.0	34.9	0.80	26	81	533	169	54	
2.11	15.0	64.8	0.99	32	137	656	210	91	
4.60	15.4	63.9	2.19	71	294	1,454	470	195	
0.76	24.0	90.0	0.56	18	69	371	121	46	
1.30	26.0	90.0	1.02	34	117	676	224	78	
1.23	31.0	110.0	1.15	38	135	761	253	90	
1.50	25.3	110.0	1.13	38	166	754	253	110	
1.37	31.4	129.8	1.28	43	178	848	286	118	
0.85	28.5	120.0	0.71	24	101	472	160	67	
1.52	36.8	180.2	1.64	56	274	1,089	371	182	
1.89	41.9	200.4	2.30	79	378	1,526	525	251	
0.86	37.3	196.7	0.93	32	169	617	213	112	
1.64	44.3	224.0	2.10	72	367	1,392	481	244	
1.23	60.2	294.0	2.12	74	361	1,411	490	239	
1.41	61.4	338.9	2.49	87	479	1,655	576	318	
1.50	60.0	316.0	2.57	90	474	1,709	597	315	
0.81	64.4	349.5	1.49	52	283	990	346	188	
1.31	70.7	374.9	2.65	93	493	1,759	617	327	
1.83	67.8	380.0	3.52	124	696	2,338	824	462	
0.26	118.0	705.0	0.86	31	183	573	203	121	
36.7	179.3	32.51	1,113	5,433	21,585	7,391	3,607		
1.16	33.7	140.1	1.15	39	163	763	260	108	
0.58	36.5	135.0	0.62	21	79	410	141	52	
0.32	75.5	350.0	0.69	24	113	459	162	75	
41.0	171.5	2.46	85	354	1,632	563	235		
0.95	9.0	30.0	0.27	9	28	179	57	19	
1.16	26.0	114.9	0.92	30	133	609	200	88	
0.99	22.0	105.0	0.66	22	104	438	145	69	
0.26	29.0	100.0	0.22	8	26	147	50	17	
20.2	86.9	2.07	68	292	1,373	452	194		
0.43	16.0	40.0	0.21	7	17	141	45	11	
16.0	40.0	0.21	7	17	141	45	11		
168.6	37.25	1273	6,096	24,732	8,451	4,048			

TC TSTATS				STATISTICS				PAGE	1				
				PROJECT	PEGLEG	DATE 5/2/2020							
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt				
033	007	02	216	ORIG	664.00	34	125	1	E				
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE							
				PLOTS	TREES	PER PLOT	TREES	TREES					
TOTAL				34	125	3.7							
CRUISE				17	56	3.3	16,565	.3					
DBH COUNT													
REFOREST													
COUNT				17	69	4.1							
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
P PINE				46	20.4	19.5	48	9.6	42.4	5,483	5,433	1,113	1,113
WHITE F				5	2.9	15.2	40	0.9	3.6	292	292	68	68
SUG PINE				4	1.2	23.2	53	0.7	3.6	360	354	85	85
LP PINE				1	.4	13.1	30	0.1	.4	17	17	7	7
TOTAL				56	24.9	19.2	47	11.4	50.0	6,152	6,096	1,273	1,273
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			78.5	11.6	406	460	513						
WHITE F			56.4	28.0	82	114	146						
SUG PINE			68.5	39.1	212	348	483						
LP PINE													
TOTAL			84.8	11.3	366	413	460	287	72	32			
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			69.2	10.2	80	89	98						
WHITE F			46.7	23.2	21	27	33						
SUG PINE			59.1	33.7	54	81	109						
LP PINE													
TOTAL			73.9	9.9	73	82	90	218	54	24			
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			55.4	9.5	18	20	22						
WHITE F			234.8	40.2	2	3	4						
SUG PINE			341.6	58.5	1	1	2						
LP PINE			583.1	99.9	0	0	1						
TOTAL			50.7	8.7	23	25	27	103	26	11			
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			47.2	8.1	39	42	46						
WHITE F			214.3	36.7	2	4	5						
SUG PINE			339.3	58.1	2	4	6						
LP PINE			583.1	99.9	0	0	1						
TOTAL			42.2	7.2	46	50	54	71	18	8			
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			54.0	9.3	4,930	5,433	5,936						
WHITE F			217.4	37.2	183	292	401						
SUG PINE			340.1	58.3	148	354	561						
LP PINE			583.1	99.9	0	17	34						
TOTAL			46.7	8.0	5,608	6,096	6,584	87	22	10			

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	PEGLEG		DATE	5/2/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
033	007	02	216	ORIG	664.00	34	125	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
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		52.2	8.9	1,014	1,113	1,213			
WHITE F		214.6	36.8	43	68	93			
SUG PINE		339.7	58.2	35	85	134			
LP PINE		583.1	99.9	0	7	14			
TOTAL		45.1	7.7	1,174	1,273	1,371	81	20	9

TC TLOGSTVB				Log Stock Table - MBF																
				Project: PEGLEG																
T033 R007 S02 TORIG										T033 R007 S02 TORIG										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
033	007	02	216	ORIG	664.00	34	56	Date	5/2/2020											
										Time	7:17:14AM									
Spp	S	So	Gr	Log	Gross	% Def	Net	% 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+
PP	CR	CR	12		18		18	.5								18				
PP	CR	CR	17		197		197	5.5			12	98	47				41			
PP	CR	CR	27		256		256	7.1			75	62				119				
PP	CR	CR	34		3,170	1.0	3,137	87.0			107	477	307	399	360	1005	399	83		
PP Totals					3,641		3,607	89.1			194	637	354	399	360	1141	440	83		
WF	CR	CR	17		46		46	23.8				29		17						
WF	CR	CR	34		148		148	76.2				88	59							
WF Totals					194		194	4.8				117	59	17						
SP	CR	CR	17		13		13	5.7			6	8								
SP	CR	CR	27		13		13	5.5				13								
SP	CR	CR	34		213	1.8	209	88.8					47	100		62				
SP Totals					239	1.6	235	5.8			6	21	47	100		62				
LP	CR	CR	27		11		11	100.0			11									
LP Totals					11		11	.3			11									
Total All Species					4,085		4,048	100.0			211	775	460	516	360	1203	440	83		



LOGGING PLAN

Of Timber Sale Contract KL-341-2021-W00281-01

Peg Leg

Portions of Sections 35 and 36, T32S, R7.5E,

Portions of Sections 1, 2, 11, and 12

T33S, R7.5E, Willamette Meridian,

Klamath County, Oregon

Approximately 666 acres

