



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Fir Loop
Sale KI-341-2019-GF8017-01

District: Klamath/Lake

Date: April 26, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$381,576.70	\$0.00	\$381,576.70
		Project Work:	(\$45,696.48)
		Advertised Value:	\$335,880.22



Timber Sale Appraisal Fir Loop Sale KI-341-2019-GF8017-01

District: Klamath/Lake

Date: April 26, 2019

Timber Description

Location: Section(s) 7, 18, 19 or T35S R8E, Section(s) 12, 13 of T35S R7E, W.M., Klamath County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	95
White Fir	17	0	95
Ponderosa Pine	14	0	95
Lodgepole Pine	16	0	95

Volume by Grade	2S	3S & 4S 6"-11"	3S 12"+	6" - 11"	12"-15"	Camprun	Total
Douglas - Fir	250	90	45	0	0	0	385
White Fir	492	369	47	0	0	0	908
Ponderosa Pine	0	0	0	1,131	229	0	1,360
Lodgepole Pine	0	0	0	0	0	42	42
Total	742	459	92	1,131	229	42	2,695

Comments: Pond Values Used: Local Pond Values, February 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: \$400.00

General Road Maintenance: 5.5 miles x \$105.50 per mile x 2 bladings = \$1,160.50

Total Road Maintenance: \$1,560.50, \$1.02 per Mbf



Timber Sale Appraisal
Fir Loop
Sale KI-341-2019-GF8017-01

District: Klamath/Lake

Date: April 26, 2019

Logging Conditions

Combination#: 1

Douglas - Fir	60.00%
White Fir	80.00%
Ponderosa Pine	96.00%
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:** 3800
cost / mbf: \$99.91
machines: Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Tire Skidder

Combination#: 2

Douglas - Fir	40.00%
White Fir	20.00%
Ponderosa Pine	4.00%

Logging System: Track Skidder **Process:** Manual Falling/Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF
loads / day: 8 **bd. ft / load:** 4000
cost / mbf: \$139.23
machines: Log Loader (B)
Track Skidder



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Fir LoAPCE
 Sale KI-341-2019-GF8017-01

District: Klamath/Lake

Date: April 26, 2019

Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$45,696.48	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$1.02

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	4.2
White Fir	\$0.00	3.0	4.2
Ponderosa Pine	\$0.00	3.0	4.0
Lodgepole Pine	\$0.00	3.0	3.8



Timber Sale Appraisal
 Fir LoAPCE
 Sale KI-341-2019-GF8017-01

District: Klamath/Lake

Date: April 26, 2019

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$115.64	\$1.07	\$1.63	\$118.76	\$0.00	\$23.71	\$0.00	\$2.00	\$0.00	\$262.81
White Fir									
\$107.77	\$1.07	\$1.63	\$79.17	\$0.00	\$18.96	\$0.00	\$2.00	\$0.00	\$210.60
Ponderosa Pine									
\$101.48	\$1.07	\$1.63	\$83.13	\$0.00	\$18.73	\$0.00	\$2.00	\$0.00	\$208.04
Lodgepole Pine									
\$99.91	\$1.07	\$1.63	\$87.50	\$0.00	\$19.01	\$0.00	\$2.00	\$0.00	\$211.12

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$510.87	\$248.06	\$0.00
White Fir	\$0.00	\$394.68	\$184.08	\$0.00
Ponderosa Pine	\$0.00	\$290.89	\$82.85	\$0.00
Lodgepole Pine	\$0.00	\$360.00	\$148.88	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Fir Loop
Sale KI-341-2019-GF8017-01

District: Klamath/Lake

Date: April 26, 2019

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
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
Douglas - Fir	385	\$248.06	\$95,503.10
White Fir	908	\$184.08	\$167,144.64
Ponderosa Pine	1,360	\$82.85	\$112,676.00
Lodgepole Pine	42	\$148.88	\$6,252.96

Gross Timber Sale Value

Recovery: \$381,576.70

Prepared By: Chris Weekly

Phone: 541-883-5681

Fir Lo '8V°
KL-341-2019-GF8017-01

Other Costs

Road Maintenance

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	5.5
Number of Bladings:	2
Total Miles:	11
Miles/Hour for Equipment:	0.5
Cost/Hour (grader with operator):	\$ 105.50
Total Grading Hours:	22
Grading Cost:	\$ 2,321.00
Total Cost:	\$ 2,721.00
Cost/Mbf:	\$ 1.02

Fir Lo '8V°
KL-341-2019-GF8017-01

Project Costs

Project #1 Dust Abatement (Profit & Risk to be added in Appraisal)

PP	1333 Mbf	50%	Average Load	4.0 Mbf	No. of Loads	333
WF	906 Mbf	34%	Average Load	4.2 Mbf	No. of Loads	216
DF	385 Mbf	14%	Average Load	4.2 Mbf	No. of Loads	92
LP	43 Mbf	2%	Average Load	3.8 Mbf	No. of Loads	11
Total:	2667 Mbf				Total Loads	652

Assume:	4 Trucks/Day	54 Days of Dust Abatement
	3 Trips/Day	3 Hours/Day
	12 Loads per Day	\$88.00 Cost/Hour
	54 Hauling Days	163 Total Hours
		\$200.00 Move in for Water Truck
		\$9.00 per 1000 gallons
		9,000 gallons per day
		\$81.00 Daily Water Cost
		\$18,943.47 Dust Abatement Cost
		\$18,943.47 Total Cost
		\$7.10 Cost/Mbf

Project #1 Summary

<u>\$18,943</u> Total Cost for Dust Abatement	<u>\$7.10</u> per Mbf
\$18,943 Total Cost	\$7.10 per Mbf

Fir Lo '8V°
KL-341-2019-GF8017-01

Project Costs

Project #2 Road Improvement and Construction

Move in Cost Dozer: \$400

Improvement

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	5791	1000	5.791	\$132.50	\$767.31
Open/Clear/Shape	H to I	2904	1000	2.904	\$132.50	\$384.78
Open/Clear/Shape	G			0.5	\$132.50	\$66.25
					Total	\$1,218.34

Construction

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Construct Spur	C to D	1701	500	3.402	\$132.50	\$450.77
Construct Spur	E to F	1166	500	2.332	\$132.50	\$308.99
Construct Spur	L to O	635	500	1.27	\$132.50	\$168.28
Construct Spur	J to K	1073	500	2.146	\$132.50	\$284.35
					Total	\$1,212.38

Project #2 Summary

Move In Costs	\$400.00
Improvement Cost	\$1,218.34
Construction Cost	\$1,212.38
Project # 2 Total	\$2,830.71
per Mbf	\$1.06

Fir Lo '8V°
KL-341-2019-GF8017-01

Project Costs

Project #3 Fell, Skid, and Pile Submerchantable Material

Total Sub-Sawlog Volume: 65 MBF

Fell and Skid/MBF: \$50.00

Sort/MBF: \$10.00

Total \$3,900.00

per MBF \$1.46

Landing Slash Piling

Number of Landings: 24

Shovel Time:	1 Hour per Landing	Cost per Hour: \$125.00	Total Cost	\$3,000.00
--------------	--------------------	-------------------------	------------	------------

Cat Time:	1 Hour per Landing	Cost per Hour: \$132.50	Total Cost	\$3,180.00
-----------	--------------------	-------------------------	------------	------------

Total \$6,180.00

per MBF \$2.32

Project #3 Summary

Fell, Skid, Pile Submerchantable Material	\$3,900.00
---	------------

Landing Slash Piling	\$6,180.00
----------------------	------------

Total Cost \$ 10,080.00

per Mbf \$3.78

Fir Lo '8V°
KL-341-2019-GF8017-01

Project Costs

Project #4 Road Closures and Waterbarring

Road Closures

3	Number of Closure Points - Point H, A, L
<u>\$132.50</u>	Cost per Hour (Cat)
<u>\$397.50</u>	Total
\$0.10	per Mbf

Skid Trail Waterbarring

24	Number of Landings
2	Hours per Landing
<u>\$132.50</u>	Cost per Hour (Cat)
<u>\$6,360.00</u>	Total
\$1.55	per Mbf

Project #4 Summary

Road Closure:	\$397.50
Waterbarring:	<u>\$6,360.00</u>
Total:	<u>\$6,757.50</u>
per Mbf:	\$2.53

Project #5 Fungicide Treatment

State to Provide Chemical Supplies

Acres to be treated:	492
Cutting Days (assume 5 acres per day):	98.4
Hours per Day:	3
Cost per Hour:	<u>\$24.00</u>
Total Cost:	<u>\$7,084.80</u>
Cost per Mbf:	\$2.66

Fir Lo '8V°
KL-341-2019-GF8017-01

Project Costs

Cost Summary All Projects

Project No.1 - Dust Abatement	\$18,943.47
Project No.2 - Road Improvement and Construction	\$2,830.71
Project No.3 - Fell, Skid, and Pile Submerchantable Material	\$10,080.00
Project No.4 - Road Closures and Waterbarring	\$6,757.50
Project No. 5 - Fungicide Treatment	\$7,084.80
Total Cost	\$45,696.48
per Mbf	\$17.13

Summary of Project Work

Fir-Lo

KL-341-2019-GF8017-01



Project No. 1: Dust Abatement	\$18,943.47
Project No. 2: Road Improvement and Construction	\$2,830.71
Project No. 3: Fell Skid and Pile Submerchantable Material	\$10,080.00
Project No. 4: Road Closures and Waterbarring	\$6,757.50
Project No. 5: Fungicide Treatment	\$7,084.80
Total:	\$45,696.48

Fir-Lo I PC
KL-341-2019-GF8017-01
Cruise Report



"STEWARDSHIP IN FORESTRY"

SALE NAME: Fir Lo

LEGAL DESCRIPTION:

Township 35S, Range 7E, Portions of Section 13 W.M., Klamath County, OR

BOUNDARY LINES:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging.

ACREAGE:

Gross Sale Acreage:	543 Acres
Exclusion Acreage	51 Acres
Net Sale Acreage:	492 Acres

Mapping was accomplished using a handheld Global Positioning System unit with the data run on the district Geographical Information System Program.

TREATMENT:

The Timber Sale is a purchaser select, partial cut harvest.

CRUISE METHOD:

Variable plot cruise with a ratio of a count plot for every measure plot. Fixed plot cruise for all sub-merchantable material (5.0" to 10.0") DBH for all Areas.

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Area 1	13.61 BAF	379.6
Area 2	13.61 BAF	163.4

PLOT DESIGNATION:

Plot centers were established at every plot with blue flag wire stakes with the corresponding plot number. Blue flagging was attached to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Area 1	80%	13%	379.6
Area 2	80%	13%	163.4

$$\text{Number of Plots} = \frac{T^2 C^2}{A^2}$$

C = Coefficient of Variation in Percent (Taken from inventory data)

T = Number of Standard Errors

A = Desired Sampling Error for a sale of this size and value

$$\text{Area 1} \quad N = \frac{(1)^2(123)^2}{(13)^2} = 89 \text{ plots}$$

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all “in” trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.
- Separate fixed plot cruise for all submerchantable material (5”to 10” DBH).

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:

10.0" 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 FF.

FORM POINT:

All trees were sighted at DBH.

VOLUME COMPUTATION:

All cruise data was input and run at the district on Atterbury's Super Ace program.

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area 1	80	8.1	492

TIMBER DESCRIPTION

SAWLOG VOLUME:

This volume was obtained from the variable plot cruise. All material graded camprun. See grade table for minimum standards.

TOTAL SAWLOG VOLUME

SPECIES	Ave. DBH	Gross Vol/ Acre (bf)	Net Vol/ Acre (bf)	Net Sale Vol (mbf)
Ponderosa Pine	14.4	2,800	2,765	1,360
White Fir	16.5	1,849	1,846	908
Doug-Fir	19.2	783	783	385
Lodgepole Pine	16.2	89	87	42
	Total	5,521	5,481	2695

TOTAL NET SAWLOG VOLUME: 2,695 MBF

GREEN PULP VOLUME:

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

TOTAL GREEN PULP VOLUME: ~ 65 MBF

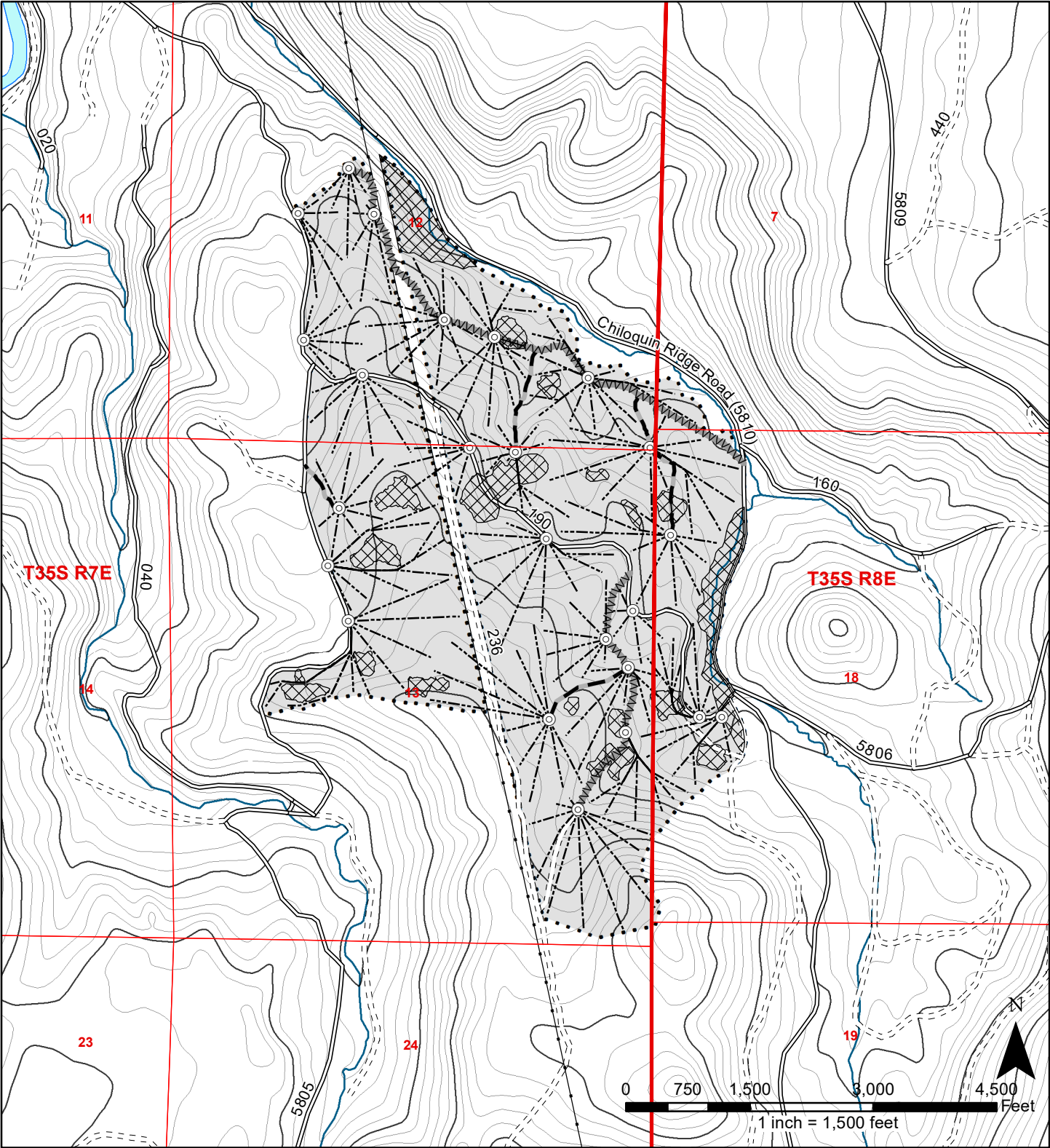
TC PSTATS					PROJECT STATISTICS				PAGE	1		
					PROJECT	LBERT	DATE				12/20/2018	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
035	007	13	119	CUT2	492.00	63	241	1	E			
035	007	13	334	CUT2								
					TREES	ESTIMATED	PERCENT					
					TOTAL	SAMPLE						
					PER PLOT	TREES	TREES					
TOTAL			63	241	3.8							
CRUISE			34	121	3.6	19,886	.6					
DBH COUNT												
REFOREST												
COUNT			22	118	5.4							
BLANKS			7									
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			79	27.8	14.4	43	8.3	31.5	2,800	2,765	657	657
WHITE F			33	9.6	16.5	49	3.5	14.3	1,849	1,846	405	405
DOUG-FIR			5	2.3	19.5	61	1.1	4.8	783	783	161	161
LP PINE			4	.7	16.2	47	0.2	1.0	89	87	24	24
TOTAL			121	40.4	15.3	46	13.2	51.6	5,521	5,481	1,247	1,247
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			70.9	8.0	115	125	135					
WHITE F			76.5	13.3	224	259	293					
DOUG-FIR			20.3	10.1	308	342	376					
LP PINE			31.6	18.1	109	133	156					
TOTAL			83.9	7.6	158	171	184	281	70	31		
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			58.6	6.6	27	29	31					
WHITE F			63.4	11.0	48	54	60					
DOUG-FIR			14.4	7.2	65	70	75					
LP PINE			17.4	9.9	33	36	40					
TOTAL			68.9	6.3	36	38	40	190	47	21		
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			124.0	15.6	23	28	32					
WHITE F			192.0	24.2	7	10	12					
DOUG-FIR			329.2	41.4	1	2	3					
LP PINE			562.1	70.8	0	1	1					
TOTAL			94.0	11.8	36	40	45	353	88	39		
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			119.1	15.0	27	31	36					
WHITE F			181.5	22.8	11	14	18					
DOUG-FIR			329.0	41.4	3	5	7					
LP PINE			556.7	70.1	0	1	2					
TOTAL			88.4	11.1	46	52	57	312	78	35		
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			122.5	15.4	2,338	2,765	3,191					
WHITE F			183.8	23.1	1,419	1,846	2,273					
DOUG-FIR			331.3	41.7	457	783	1,110					

TC PSTATS				<u>PROJECT STATISTICS</u>				PAGE	2	
				PROJECT	LBERT			DATE	12/20/2018	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
035	007	13	119	CUT2	492.00		63	241	1	E
035	007	13	334	CUT2						
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
LP PINE			556.7	70.1	26	87	148			
TOTAL			95.3	12.0	4,823	5,481	6,138	363	91	40
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			119.7	15.1	558	657	756			
WHITE F			183.8	23.1	311	405	499			
DOUG-FIR			330.2	41.6	94	161	228			
LP PINE			557.3	70.2	7	24	41			
TOTAL			91.9	11.6	1,103	1,247	1,392	338	84	38

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
<div><div>T035 R007 S13 TyCUT2153.00</div><div>T035 R007 S13 TyCUT2339.00</div></div>				Project:				LBERT				Page				1				
				Acres				492.00				Date				12/20/2018				
												Time				7:41:20AM				
S			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs
Spp	So	Gr	Net BdFt	Def%	Gross	Net	Total Net MBF	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
PP	CR	CR	97	1.3	2,742	2,707	1,332	8317				9	11	80	28	8	85	0.71	31.9	
PP	CR	GP	3		58	58	28	19	81			81	19		14	4	10	0.24	5.8	
PP Totals			50	1.3	2,800	2,765	1,360	0	83	17		11	11	78	26	8	73	0.67	37.7	
WF	CR	CR	100	.2	1,849	1,846	908	415010				3	9	88	30	10	145	1.05	12.8	
WF Totals			34	.2	1,849	1,846	908	41	50	10		3	9	88	30	10	145	1.05	12.8	
DF	CR	CR	100		783	783	385	2377				2	7	91	31	11	169	1.14	4.6	
DF Totals			14		783	783	385	23	77			2	7	91	31	11	169	1.14	4.6	
LP	CR	CR	100	2.1	89	87	43	100				4		96	30	8	101	0.92	.9	
LP Totals			2	2.1	89	87	43	100				4		96	30	8	101	0.92	.9	
Totals				0.7	5,521	5,481	2,696	0	60	36	3	7	10	84	27	8	98	0.81	55.9	

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		12/20/2018	
<div>T035 R007 S13 TyCUT2153.00</div> <div>T035 R007 S13 TyCUT2339.00</div>				Project		LBERT				Time:		7:42:18AM					
				Acres		492.00				Grown Year:							
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net Bd.Ft. Acre	T o t a l s				
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre		Cu.Ft. Acre	Tons	Cunits	MBF	
PP		9	2	81	31	1.998	.80	2.93	3.0	10.0	.30	9	29	147	44	14	
PP		10	3	80	30	2.089	1.16	2.91	4.6	16.6	.43	13	48	213	66	24	
PP		11	2	82	37	1.142	.73	1.74	5.9	16.3	.33	10	28	161	50	14	
PP		12	6	82	44	2.762	2.20	2.76	10.2	31.7	.89	28	88	437	139	43	
PP		13	5	82	75	2.258	2.03	2.74	15.3	59.9	1.31	42	164	644	206	81	
PP		14	16	83	64	5.823	6.25	6.24	17.9	73.7	3.44	112	460	1,695	551	226	
PP		15	9	83	66	2.989	3.62	3.33	21.7	86.2	2.20	72	287	1,084	355	141	
PP		16	8	82	74	2.412	3.32	3.98	20.1	85.9	2.42	80	342	1,191	393	168	
PP		17	12	82	76	2.977	4.72	4.97	22.9	97.5	3.42	114	485	1,683	561	239	
PP		18	5	85	76	1.159	2.03	1.86	25.4	114.5	1.41	47	212	693	232	104	
PP		19	5	85	77	1.082	2.09	1.94	26.8	118.5	1.54	52	229	757	255	113	
PP		20	5	86	93	.965	2.09	1.93	33.6	171.7	1.91	65	331	941	319	163	
PP		21	1	83	88	.188	.43	.38	33.0	160.0	.37	12	60	180	61	30	
PP		Totals	79	83	61	27.846	31.47	37.71	17.4	73.3	19.97	657	2,765	9,826	3,232	1,360	
WF		11	1	78	59	.852	.57	.85	16.0	50.0	.43	14	43	214	67	21	
WF		12	2	81	35	1.014	.76	1.01	10.5	30.0	.34	11	30	165	52	15	
WF		13	2	82	54	1.262	1.15	1.26	20.0	70.0	.79	25	88	387	124	43	
WF		15	5	82	55	2.042	2.48	2.04	27.3	113.3	1.70	56	231	838	275	114	
WF		16	4	79	62	.819	1.15	.82	35.2	144.8	.87	29	119	428	142	58	
WF		17	2	81	69	.251	.38	.37	29.5	130.8	.33	11	49	163	54	24	
WF		18	1	84	63	.317	.57	.63	28.0	115.0	.53	18	73	260	87	36	
WF		19	6	85	76	1.152	2.29	2.21	34.5	168.2	2.26	76	371	1,110	375	183	
WF		20	4	87	79	.872	1.91	1.74	38.2	185.8	1.96	67	324	967	328	159	
WF		22	2	80	72	.422	1.15	.63	42.7	220.0	.79	27	139	388	133	69	
WF		23	2	80	79	.260	.76	.52	49.1	215.1	.74	26	112	365	125	55	
WF		24	1	83	99	.182	.57	.36	63.0	345.0	.67	23	126	328	113	62	
WF		27	1	85	95	.145	.57	.29	82.0	485.0	.68	24	141	336	117	69	
WF		Totals	33	82	62	9.589	14.32	12.75	31.8	144.7	12.09	405	1,846	5,950	1,992	908	
DF		18	1	83	72	.521	.96	1.04	27.0	120.0	.84	28	125	412	138	62	
DF		19	1	84	104	.469	.96	.94	38.0	190.0	1.05	36	178	518	175	88	
DF		20	2	85	87	.918	1.92	1.84	36.3	182.5	1.97	67	335	968	327	165	
DF		21	1	84	80	.404	.96	.81	38.5	180.0	.91	31	145	449	153	72	
DF		Totals	5	84	86	2.311	4.81	4.62	34.9	169.5	4.77	161	783	2,348	794	385	
LP		15	2	82	57	.382	.48	.57	22.1	76.5	.38	13	43	188	62	21	
LP		17	1	81	59	.151	.24	.15	38.0	150.0	.17	6	23	85	28	11	
LP		18	1	80	59	.139	.24	.14	41.0	150.0	.17	6	21	84	28	10	
LP		Totals	4	81	58	.672	.96	.86	28.0	101.4	.72	24	87	356	118	43	
Totals			121	82	63	40.419	51.55	55.94	22.3	98.0	37.56	1,247	5,481	18,480	6,136	2,696	

TC PLOGSTVB				Log Stock Table - MBF																
<div>T035 R007 S13 TyCUT2153.00</div> <div>T035 R007 S13 TyCUT2339.00</div>				Project: LBERT										Page 1						
				Acres 492.00										Date 12/20/2018						
				Time 7:40:34AM																
S T Spp	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
PP	CR	CR	17	128	5.0	121	8.9			62	36	6	8	9						
PP	CR	CR	26	145		144	10.6			88	41		15							
PP	CR	CR	34	1,062		1,052	77.3			120	366	370	170	27						
PP	CR	CR	35	15		15	1.1				15									
PP	CR	GP	13	9		9	.7			9										
PP	CR	GP	14	14		14	1.0			14										
PP	CR	GP	21	5		5	.4	5												
PP	Totals			1,377	1.3	1,360	50.4	5		293	458	375	192	36						
WF	CR	CR	17	27		27	3.0			7	13	7								
WF	CR	CR	26	85		85	9.4			13	52	20								
WF	CR	CR	34	797		796	87.6			64	100	91	206	246	40	47				
WF	Totals			910		908	33.7			84	165	118	206	246	40	47				
DF	CR	CR	17	8		8	2.0				8									
DF	CR	CR	26	25		25	6.5			11	14									
DF	CR	CR	34	353		353	91.5				57		172	123						
DF	Totals			385		385	14.3			11	79		172	123						
LP	CR	CR	17	2		2	4.3			2										
LP	CR	CR	34	42	2.2	41	95.7			7		34								
LP	Totals			44	2.1	43	1.6			9		34								
Total	All Species			2,716		2,696	100.0	5		398	702	528	571	406	40	47				



"STEWARDSHIP IN FORESTRY"

LOGGING PLAN

Of Timber Sale Contract
KL-341-2019-GF8017-01

Fir Lo

Section(s) 7, 18, 19, T35S,
R8E, Section(s) 12, 13, T35S,
R7E, Willamette Meridian,
Klamath County, Oregon

543 gross acres
492 net acres

Fir Lo Timber Sale	Paved Road
Exclusions	All weather
Project Points	Dirt Road
Electric Transmission Lines	Road Improvement
Road Construction	Skid Trails
Landings	