

Timber Sale Appraisal PLJ Sale 341-15-10

District: Klamath/Lake Date: September 30, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$194,047.48	\$0.00	\$194,047.48
		Project Work:	\$(10,613.00)
		Advertised Value:	\$183,434.48

9/30/14



Timber Sale Appraisal PIJSale 341-15-10

"STEWARDSHIP IN FORESTRY"

Klamath/Lake **September 30, 2014** District: Date:

timber description

Location: Portions of Sections 8 and 18, T41S, R7E, and portions of Section 14, T41S, R6E,

W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	27	0	95
Ponderosa Pine	16	0	97

Volume by Grade	CR 14" -	CR 22"+	CR 6" - 8	CR 8" - 1	Total
Douglas - Fir	171	99	14	36	320
Ponderosa Pine	276	31	144	346	797
Total	447	130	158	382	1,117

comments: Pond Values Used: 3rd Quarter Calendar Year 2014.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HUALING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Dust Abatement: \$7,914

Brand & Paint: \$792

TOTAL Other Costs (with Profit & Risk to be added) = \$8,706

Other Costs (No Profit & Risk added):

Temporary water-use license fee for Klamath River: \$250

Private land owner road-use fee: \$2/MBF for total scaled volume.

Appraised volume 93 x \$2/MBF = estimated \$186 access fee.

TOTAL Other Costs (No Profit & Risk added) = \$436

2 9/30/14



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal PLJ Sale 341-15-10

District: Klamath/Lake Date: September 30, 2014

logging conditions

combination#: 1 Douglas - Fir 1.00%

Ponderosa Pine 37.00%

yarding distance:Medium (800 ft)downhill yarding:Nologging system:Wheel SkidderProcess:Feller Bunchertree size:Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBFloads / day:11.0bd. ft / load:4,200

cost / mbf: \$72.60

machines: Log Loader (B)

Stroke Delimber (B)

Feller Buncher w/ Delimber

Tire Skidder

combination#: 2 Douglas - Fir 99.00%

Ponderosa Pine 63.00%

yarding distance: Medium (800 ft) downhill yarding: No

logging system: Track Skidder Process: Manual Falling/Delimbing

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

loads / day: 10.0 bd. ft / load: 4,500

cost / mbf: \$76.45 machines: Log Loader (B)

Track Skidder

9/30/14 3



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal PLJ Sale 341-15-10

September 30, 2014 Klamath/Lake Date:

logging costs

2.00 12.00% **Operating Seasons: Profit Risk:**

Project Costs: \$10,613.00 Other Costs (P/R): \$8,706.00

Slash Disposal: \$0.00 Other Costs: \$436.00

Miles of Road

District:

Road Maintenance: \$1.70

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
Ponderosa Pine	\$0.00	2.0	4.2

Local Pond Values

Date	Specie	Grade	Value
9/30/14	Douglas - Fir	CR 6" - 8"	\$425.00
9/30/14	Douglas - Fir	CR 8" - 14"	\$445.00
9/30/14	Douglas - Fir	CR 14" - 22"	\$455.00
9/30/14	Douglas - Fir	CR 22"+	\$460.00
9/30/14	Ponderosa Pine	CR 6" - 8"	\$285.00
9/30/14	Ponderosa Pine	CR 8" - 14"	\$335.00
9/30/14	Ponderosa Pine	CR 14" - 22"	\$385.00
9/30/14	Ponderosa Pine	CR 22"+	\$420.00

9/30/14 4



Timber Sale Appraisal PLJ Sale 341-15-10

"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake Date: September 30, 2014

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$76.41	\$1.78	\$7.85	\$81.25	\$7.79	\$21.01	\$0.00	\$5.00	\$0.39	\$201.48
Ponderos	a Pine								
\$75.03	\$1.75	\$7.85	\$85.40	\$7.79	\$21.34	\$0.00	\$5.00	\$0.39	\$204.55

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$454.11	\$252.63	\$0.00
Ponderosa Pine	\$0.00	\$346.59	\$142.04	\$0.00

9/30/14 5



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"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake Date: September 30, 2014

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	320	\$252.63	\$80,841.60
Ponderosa Pine	797	\$142.04	\$113,205.88

Gross Timber Sale Value

Recovery: \$194,047.48

Prepared by: Sara Stack Phone: 541-883-5681

9/30/14 6

Summary of Project Work



PLJ 341-15-10

Project No. 1: Improve and construct roads. \$4,693.00

Project No. 2: Felling, skidding, and piling of

Sub-merchantable trees. \$5,522.50

Project No. 3: Road closures. \$397.50

Total: \$10,613.00

PLJ

341-15-10

Other Costs

	Road I	Maintenance
Move-in cost (grader):	\$400.00	
Number of Miles to be Bladed:	6.8	Dorris-Topsy Road + rocked segment of Pt. A to Pt D)
Number of Bladings:	1	
Total Miles	6.8	
Miles / Hour for equipment:	0.5	
Cost / Hour (grader with operator):	\$105.50	
Total Grading Hours:	14	
Grading Cost:	\$1,477.00	
_	\$1,877.00	
Total Cost:		
Cost / MBF:	\$1.68	

		Dust	: Abatement (Profit & Risk to be adde	ed in Appraisal)				
	·								
DF	320 I	MBF	29%	Average Load	4.5 MBF No. of Loads	71			
PP	797 I	MBF	71%	Average Load	4.2 MBF No. of Loads	190			
Total:	1117	MBF			Total Loads	261			
Assume:	4 -	Trucks/	'Day						
	3 -	Trips/D	ay		22 Days of Dust Abatemer	it			
_	12 I	Loads p	er Day		4 Hours/Day				
	22	Hauling	g Days		\$88.00 Cost/Hour				
					88 Total Hours				
					\$170.00 Move in for Water Truc	:k			
				!	\$7,914.00 Dust Abatement Cost				
					\$7,914.00 Total Cost				
					\$7.09 Cost/MBF				

Brand & Paint (Profit and Risk to be added in Appraisal)

22 Hauling Days

1.5 Hours/Day

\$24.00 Cost/Hour

\$792.00 Total Cost

\$0.71 Cost/MBF

Other Costs Summary (Profit and Risk to be added in Appraisal)				
\$7,914.00	Total cost for Dust Abatement	\$7.09 per MBF		
\$792.00	Total Cost for Log Branding	\$0.71_ per MBF		
\$8,706.00	Total Other Costs	\$7.80 per MBF		

PLJ 341-15-10

Project Costs

·	Froject Costs					
	Project #1 Road Improvement and Construction					

Move in Cost Dozer:		\$400.00				
Improvement						
	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	D to E	3250	1000	3.3	\$132.50	\$437.25
Open/Clear/Shape	E to F	320	1000	0.3	\$132.50	\$39.75
Open/Clear/Shape	F to G	850	1000	0.9	\$132.50	\$119.25
Open/Clear/Shape	G to H	395	1000	0.4	\$132.50	\$53.00
Open/Clear/Shape	H to I	410	1000	0.4	\$132.50	\$53.00
Open/Clear/Shape	I to J	570	1000	0.6	\$132.50	\$79.50
Open/Clear/Shape	J to K	1675	1000	1.7	\$132.50	\$225.25
Open/Clear/Shape	K to L	930	1000	0.9	\$132.50	\$119.25
Open/Clear/Shape	L to M	1530	1000	1.5	\$132.50	\$198.75
Open/Clear/Shape	M to N	0	1000	0.0	\$132.50	\$0.00
Open/Clear/Shape	N to O	0	1000	0.0	\$132.50	\$0.00
Open/Clear/Shape	J to R	3160	1000	3.2	\$132.50	\$424.00
Open/Clear/Shape	R to S	2830	1000	2.8	\$132.50	\$371.00
Open/Clear/Shape	S to T	1160	1000	1.2	\$132.50	\$159.00
Open/Clear/Shape	S to V	2320	1000	2.3	\$132.50	\$304.75
Open/Clear/Shape	V to W	1560	1000	1.6	\$132.50	\$212.00
Open/Clear/Shape	X to Y1	1400	1000	1.4	\$132.50	\$185.50
Open/Clear/Shape	Y1 toY2	370	1000	0.4	\$132.50	\$53.00
Open/Clear/Shape	Y2 to Z	1050	1000	1.1	\$132.50	\$145.75
Open/Clear/Shape	Z to AA	2375	1000	2.4	\$132.50	\$318.00
Open/Clear/Shape	AA to BB	1570	1000	1.6	\$132.50	\$212.00
	Total	27725			Total	\$3,710.00
Construction	Daint-	Distance (ft)	Foot/Hour	Harms	Cook/Illour	Cost
Comptunet Court	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Construct Spur	O to P	1165	500	2.3	\$132.50	\$304.75
	BB to CC	1050	500	2.1	\$132.50	\$278.25

Project #1 Summary

Total

\$583.00

per MBF	\$4.20
Project #1 Total	\$4,693.00
Open/Clear Shape _	\$4,293.00
Equipment Costs	\$400.00

2215

Total

PLJ

341-15-10

Project Costs

Project #2 Felling, Skidding, and Piling of Submerchantable Trees

Total Sub-Sawlog Volume: 62 MBF

Fell and Skid and sort/MBF: \$60.00

Total: \$3,720.00 per MBF \$3.33

Landing Slash Piling

Number of Landings: 7

Shovel Time: 1 Hour per Landing Cost per Hour: \$125.00 Total Cost \$875.00 Cat Time: 1 Hour per Landing Cost per Hour: \$132.50 Total Cost \$927.50

Total \$1,802.50 per MBF \$1.61

Project #2 Summary

Fell/Pile/Skid: \$3,720.00 Landing Cleanup: \$1,802.50 **Total: \$5,522.50**

Total: \$5,522.50 per MBF \$4.94

PLJ

341-15-10

Project Costs

Project #3 Road Closure

Road Closures

- 3 Number of Closure Points (O, P, BB)
- 1 Hour/Point (Travel Included)

\$132.50 Cost per Hour (Cat)

\$397.50 Total \$0.36 per MBF

Cost Summary All Projects			
\$4,693.00	Project #1 Road Improvement		
\$5,522.50	Project #2 Fell, Skid, and Pile Submerchantable Trees		
\$397.50	Project #3 Road Closure		
\$10,613.00	Total		
\$9.50	per MBF		

PLJ 341-15-10 Cruise Report



SALE NAME: PLJ

LEGAL DESCRIPTION:

Portions of Sections 8 and 18, T41S, R7E; Portions of Section 14, T41S, R6E, W.M., Klamath County, Oregon.

BOUNDARY LINES:

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

FUND:

100% B.O.F.

ACREAGE:

Area 1	155	Acres
Area 2	86	Acres
Area 3	18	Acres

Net Sale Acreage: 259 Acres

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

TREATMENT:

Timber Sale Areas 1 and 3 are single tree selection cuts with leave trees marked with orange paint for trees 5.0" DBH and larger. All orange marked trees in Areas 1 and 3 are reserved from cutting. Sale Area 2 is a single tree selection cut with cut trees marked in blue paint for all trees 5.0 inches DBH and larger. All orange marked trees are reserved from cutting in Area 2. All trees less than 5.0 inches DBH are reserved from cutting in these sale areas.

CRUISE METHOD:

For Areas 1, 2, and 3: 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	10 BAF	155
Area 2	5 BAF	86
Area 3	13.61 BAF	18

PLOT DESIGNATION:

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

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Area 1	60	13	155
Area 2	97	13	86
Area 3	54	13	18

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

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

Area 1
$$N = \frac{(1)^2(60)^2}{(13)^2} = 21 \text{ plots}$$
 Took 24 plots

Area 2
$$N = \frac{(1)^2(97)^2}{(13)^2} = 56 \text{ plots}$$
 Took 30 plots

Area 3
$$N = \frac{(1)^2(54)^2}{(13)^2} = 17 \text{ plots}$$
 Took 10 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.

CRUISERS: Chris Weekly, Todd Clement, Sara Stack

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area 1	60	14.0	155
Area 2	97	13.5	86
Area 3	54	14.6	18

TIMBER DESCRIPTION

SAWLOG VOLUME:

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

AREA 1

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Douglas Fir	28.0	331	312
Ponderosa Pine	16.1	542	533

AREA 2

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Douglas Fir	22.0	9	9
Ponderosa Pine	20.4	177	172

AREA 3

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	16.0	95	93

TOTAL SAWLOG VOLUME

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Douglas Fir	27.6	340	320
Ponderosa Pine	16.8	814	797

TOTAL NET SAWLOG VOLUME: 1,117 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.

SPECIES	Fixed Plot Volume
Ponderosa Pine	51
Western Juniper	11

TOTAL GREEN PULP VOLUME: 62 MBF

TC T	LOGSTVB				Lo	g Stocl	k Tal	ole - M	BF								
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PP	CR C	R 16	3		3	2.9						3					
PP	CR C	R 17	18	3.0	17	18.7			4	- 11	3						
PP	CR C	R 26	21	3.1	20	21.7			3	6	7	4					
PP	CR C	R 32	24		24	26.2							24				
PP	CR C	R 34	29	3.0	28	30.5			7	17	5						
PP	To	otals	95	2.2	93	100.0			13	33	15	7	24				
Total Al	l Species	•	95	2.2	93	100.0		•	13	33	15	7	24				

TC T	LOGSTV	В				Lo	g Stoc	k Tal	ble - Ml	BF									
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PP	CR	CR	12	6		6	1.1								6	ó			
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PP	CR	CR	17	48		48	8.9			32	9		7						
PP	CR	CR	22	10		10	1.9							10					
PP	CR	CR	26	108	3.6	104	19.5			38	14	12	10	19	11				
PP	CR	CR	32	168	1.5	165	31.0						19	50	52	44			
PP	CR	CR	34	200	1.4	197	36.9			44	77	76							
PP		Tota	als	542	1.7	533	63.1			114	100	88	39	79	69	44			
DF	CR	CR	17	6		6	2.0			1	1		4						
DF	CR	CR	26	50	2.8	49	15.6			4	10						35		
DF	CR	CR	34	274	6.3	257	82.4			9			17	94	50	22	64		
DF		Tota	als	331	5.7	312	36.9			14	11		21	94	50	22	99		
Total All	Species			873	3.2	845	100.0			128	112	88	60	173	119	67	99		

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							Pro	oject:		PLJ										
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PP	CR	CR	17		17	1.6	17	9.6			() 7	4	4	1					
PP	CR	CR	24		3		3	1.7								3	3			
PP	CR	CR	26		20	.6	20	11.4			5	5 4	4	3	3					
PP	CR	CR	28		3		3	1.5							3					
PP	CR	CR	30		4		4	2.1								4	ļ			
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PP	CR	CR	34		58	2.0	57	32.9			12	2 12	10	15	2	5	5			
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DF	CR	CR	34		9	3.8	9	100.0				2	2		2		3			
DF		Tota	ıls		9	3.8	9	4.8				2	2		2		3			
Total All	Species				186	2.4	181	100.0			17	7 25	21	22	16	42	7	31		

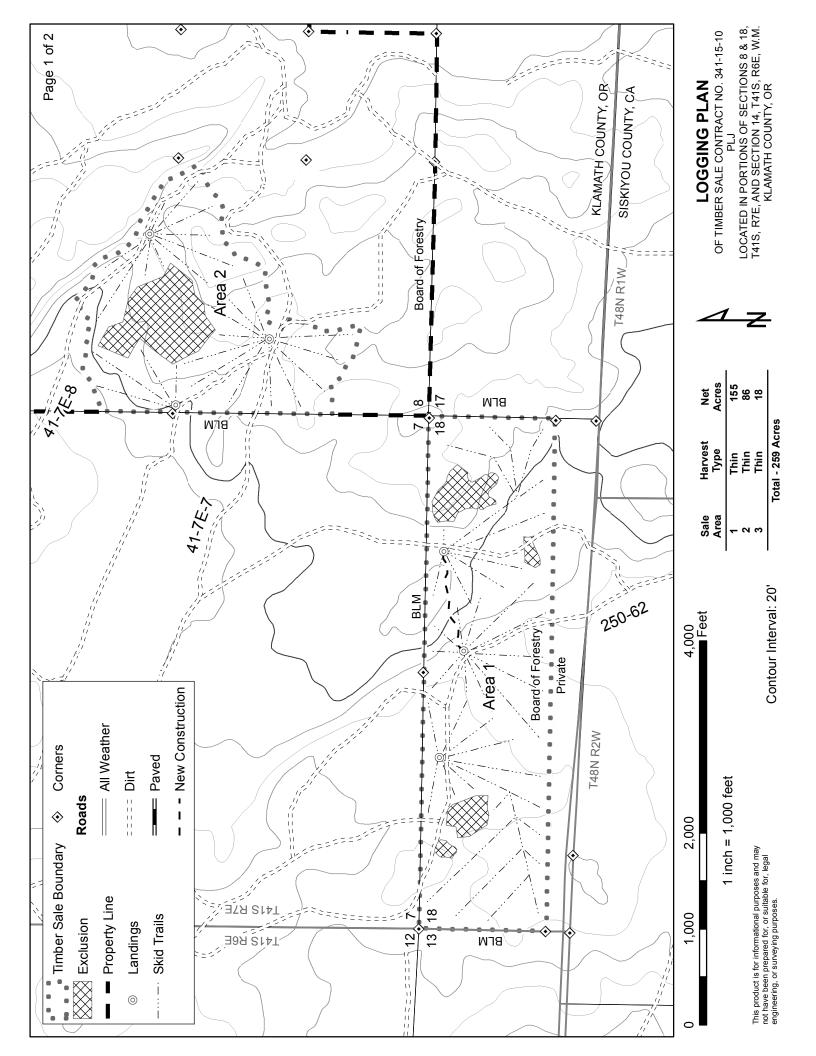
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	COUNT									
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COUN BLAN		5	31	6.2						
100 %										
				STAND SUM	MARY					
		SAMPLE	TREES	AVG BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
PPINE	Ξ	18	47.5	16.0 4	6 16.6	66.7	5,269	5,154	1,233	1,233
TOTA	A L	18	47.5	16.0 40	6 16.6	66.7	5,269	5,154	1,233	1,233
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1017	١ı	108.9	26.4	111	151	190				
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SD:	68.1 % 1.0	108.9 COEFF VAR.%	26.4 S.E.%	111 SAMP LOW	151 151 LE TREES - AVG	190 190 • CF HIGH	#	502	125	5 INF. POP.
SD: PPINE	68.1 % 1.0	108.9 COEFF	26.4	111 SAMP	151 151 LE TREES -	190 190	#	502 OF TREES R	125 REQ.	INF. POP.
SD: PPINE TOTA	68.1 % 1.0	108.9 COEFF VAR.% 83.6	26.4 S.E.% 20.3 20.3	27 27	151 151 LE TREES - AVG 34 34	190 190 • CF HIGH 40		502 OF TREES R 5	125 REQ. 10	5 INF. POP. 1
	68.1 % 1.0 E	108.9 COEFF VAR.% 83.6 83.6	S.E.% 20.3 20.3	27 27	151 151 LE TREES - AVG 34	190 190 • CF HIGH 40		502 OF TREES R 5	125 REQ. 10	5 INF. POP. 1 3 INF. POP.
SD: PPINE TOTA CL: SD: PPINE	68.1 % 1.0 3 AL 68.1 % 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0	26.4 S.E.% 20.3 20.3 S.E.% 12.3	27 27 27 TREE LOW	151 151 LE TREES - AVG 34 34 34 S/ACRE AVG 47	190 190 • CF HIGH 40 40 HIGH 53		502 OF TREES R 5 296 OF PLOTS R 5	125 REQ. 10 74 REQ. 10	5 INF. POP. 1 3 INF. POP. 1
SD: PPINE TOTA CL: SD:	68.1 % 1.0 3 AL 68.1 % 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.%	26.4 S.E.% 20.3 20.3 S.E.%	SAMP LOW 27 27 TREE LOW	151 151 LE TREES - AVG 34 34 S/ACRE AVG	190 190 • CF HIGH 40 40		502 OF TREES R 5 296 OF PLOTS R	125 REQ. 10 74 REQ.	5 INF. POP. 1 3 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL:	68.1 % 1.0 3 AL 68.1 % 1.0 3 AL 68.1 % 68.1 %	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 COEFF	S.E.% 20.3 20.3 S.E.% 12.3 12.3	27 27 27 TREE LOW 42 42 BASA	151 151 LE TREES - AVG 34 34 S/ACRE AVG 47 47 47	190 190 CF HIGH 40 40 HIGH 53 53	#	502 OF TREES R 5 296 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15	3
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD:	68.1 % 1.0 3 AL 68.1 % 1.0 68.1 % 1.0 1.0 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 COEFF VAR.%	26.4 S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.%	27 27 27 TREE LOW 42 42 42 BASA LOW	151 151 LE TREES - AVG 34 34 34 S/ACRE AVG 47 47 47 L AREA/AC	190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH	#	502 OF TREES R 5 296 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15	INF. POP. 1 3 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE	68.1 % 1.0 3 AL 68.1 % 1.0 68.1 % 1.0 3 AL 68.1 % 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8	27 27 27 TREE LOW 42 42 42 BASA LOW 58	151 151 LE TREES - AVG 34 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67	190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH 76	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15 REQ. 10	5 INF. POP. 1 3 INF. POP. 1 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA	68.1 % 1.0 E AL 68.1 % 1.0 E AL 68.1 % 1.0 E AL	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8	### SAMP LOW 27 27 27 ### TREE LOW 42 42 ### BASA LOW 58 58	151 151 LE TREES - AVG 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67 67	190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15 REQ. 10 17 17 18 19	5 INF. POP. 1 3 INF. POP. 1 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA CL:	68.1 % 1.0 3 AL 68.1 % 1.0 3 AL 68.1 % 1.0 68.1 % 68.1 % 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3 COEFF	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8	### SAMP LOW 27 27 27 TREE LOW 42 42 ### BASA LOW 58 58 58 NET E	151 151 151 LE TREES - AVG 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67 67 67	190 190 190 CF HIGH 40 40 HIGH 53 53 REE HIGH 76 76	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5 76 OF PLOTS R	125 REQ. 10 74 REQ. 10 15 REQ. 10 19 REQ. 19	INF. POP. 1 INF. POP. 1 INF. POP.
SD: PPINE TOTA CL: SD: PPINE TOTA CL:	68.1 % 1.0 3 AL 68.1 % 1.0 3 AL 68.1 % 1.0 68.1 % 1.0 3 AL 68.1 % 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8	### SAMP LOW 27 27 27 ### TREE LOW 42 42 ### BASA LOW 58 58	151 151 LE TREES - AVG 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67 67	190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH 76	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15 REQ. 10 17 17 18 19	5 INF. POP. 1 3 INF. POP. 1 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA	68.1 % 1.0 3 AL 68.1 % 1.0 3 AL 68.1 % 1.0 68.1 % 1.0 3 AL 68.1 % 1.0 3	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3 COEFF VAR.%	26.4 S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8 13.8	### SAMP LOW 27 27 27 ### TREE LOW 42 42 ### BASA LOW 58 58 58 ### NET E LOW	151 151 151 151 LE TREES - AVG 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67 67 67 67 EF/ACRE AVG	190 190 190 CF HIGH 40 40 HIGH 53 53 REE HIGH 76 76 HIGH	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5 76 OF PLOTS R	125 REQ. 10 74 REQ. 10 15 REQ. 10 19 REQ. 19	INF. POP. 1 INF. POP. 1 INF. POP.
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA	68.1 % 1.0 3 AL 68.1 % 1.0 3 AL 68.1 % 1.0 68.1 % 1.0 3 AL 68.1 % 1.0 3	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3 COEFF VAR.% 44.0	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8 13.8 S.E.% 14.6 14.6	### SAMP LOW 27 27 27 ### TREE LOW 42 42 ### BASA LOW 58 58	151 151 151 LE TREES - AVG 34 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67 67 67 67 67 67 67 67 5F/ACRE AVG 5,154	190 190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH 76 76 HIGH 5,909 5,909	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5 76 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15 REQ. 10 19 REQ. 10 21	5 INF. POP. 1 INF. POP. 1 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: SD: SD:	68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3 COEFF VAR.% 44.0 44.0	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8 13.8 S.E.% 14.6 14.6	### SAMP LOW 27 27 27 ### TREE LOW 42 42 ### BASA LOW 58 58	151 151 151 LE TREES - AVG 34 34 S/ACRE AVG 47 47 L AREA/AC AVG 67 67 67 67 67 67 5,154 5,154	190 190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH 76 76 HIGH 5,909 5,909	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5 76 OF PLOTS R 5	125 REQ. 10 74 REQ. 10 15 REQ. 10 19 REQ. 10 21	5 INF. POP. 1 INF. POP. 1 INF. POP. 1
SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA CL: SD: PPINE TOTA CL: CL: CL:	68.1 % 1.0 3 AL	108.9 COEFF VAR.% 83.6 83.6 COEFF VAR.% 37.0 37.0 COEFF VAR.% 41.3 41.3 COEFF VAR.% 44.0 COEFF	S.E.% 20.3 20.3 S.E.% 12.3 12.3 S.E.% 13.8 13.8 S.E.% 14.6 14.6	### SAMP LOW 27 27 27 ### TREE LOW 42 42 ### ### LOW 58 58 58 ### NET E LOW 4,400 4,400 ### NET C	151 151 151 151 151 151 151 151 151 151	190 190 190 CF HIGH 40 40 HIGH 53 53 RE HIGH 76 76 HIGH 5,909 5,909	#	502 OF TREES R 5 296 OF PLOTS R 5 61 OF PLOTS R 5 76 OF PLOTS R 5 86 OF PLOTS R	125 REQ. 10 74 REQ. 10 15 REQ. 10 19 REQ. 10 21	INF. POP. INF. POP. INF. POP. INF. POP.

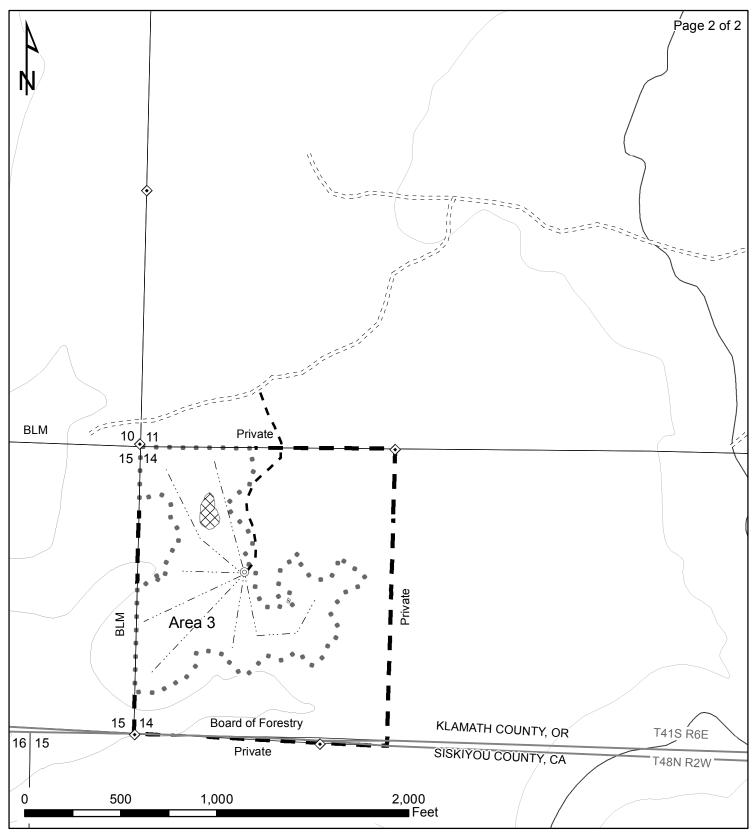
TC TSTA	ATS				ST	TATIST	ICS PLJ			PAGE DATE	1 3/6/2014
TWP	RGE	SECT TI	RACT		TYPE		RES	PLOTS	TREES	CuFt	BdFt
041	007	18 60			VARI		153.30	24	114	1	E
										•	
				,	TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES	1	PER PLOT		TREES	TI	REES		
TOTA	L	24	114		4.8						
CRUIS	SE	12	62		5.2		4,324		1.4		
	COUNT										
REFO					4.5						
COUN		11 1	52		4.7						
100 %		1									
				STAN	D SUMM	ARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
PPINE	3	50	25.6	16.1	43	9.0	36.3	3,500	3,441	760	760
DOUC	G-FIR	12	2.6	28.0	74	2.1	11.3	2,133	2,011	381	381
TOTA	L	62	28.2	17.6	46	11.3	47.5	5,632	5,452	1,141	1,141
CONI		LIMITS OF TH TIMES OUT O		LUME WIL	L BE WIT	HIN THE S	AMPLE ERR	OR			
CL:	68.1 %	COEFF			SAMPLI	E TREES -	BF	#	OF TREES R	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC)W	AVG	HIGH		5	10	15
PPINE	E	99.0	14.0		214	249	284				
DOUG		55.1	16.6		771	924	1,078				
TOTA	AL	107.9	13.7		328	380	432		465	116	52
CL:	68.1 %	COEFF				E TREES -		#	OF TREES F	•	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC)W	AVG	HIGH		5	10	15
PPINE		82.6 43.0	11.7 13.0		45 145	51 167	57 188				
TOTA		91.0	11.6		65	74	82		331	83	37
CL:	68.1 %	COEFF			TDEEC	A CDE		#	OF PLOTS R	PEO	INE DOD
SD:	1.0	VAR.%	S.E.%	1.0	TREES/A	ACRE	HIGH	#	5	10	INF. POP.
PPINE		60.7	12.6		22	26	29			10	13
DOUG	3-FIR	147.0	30.6		2	3	3				
TOTA	L	56.1	11.7		25	28	32		132	33	15
CL:	68.1 %	COEFF			BASAL A	AREA/ACI	RE	#	OF PLOTS F	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC	ow	AVG	HIGH		5	10	15
PPINE		54.5	11.4		32	36	40				
DOUG TOTA		139.5	29.1		8	11	15		110	20	10
		53.5	11.2		42	48	53		119	30	13
CL:	68.1 %	COEFF	a		NET BF/			#	OF PLOTS F	-	INF. POP.
SD: PPINE	1.0	VAR.% 59.9	S.E.%		3,012	AVG	HIGH		5	10	15
DOUG		39.9 137.4	12.5 28.6		1,435	3,441 2,011	3,870 2,587				
TOTA		67.4	14.0		4,687	5,452	6,218		189	47	21
CL:	68.1 %	COEFF			NET CIT	FT FT/AC	PE .	#	OF PLOTS F	PEO.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC	NET CU. DW	AVG	KE HIGH	π	5	10	15
PPINE		56.8	11.8		670	760	850			10	13
DOUG		139.9	29.2		270	381	492				
TOTA	AL.	62.5	13.0		992	1,141	1,289		163	41	18

TC TSTA	ATS				ST PROJEC	TATIST	ICS PLJ			PAGE DATE	1 3/6/2014
TWP	RGE	SECT TI	RACT		TYPE	ACI		PLOTS	TREES	CuFt	BdFt
041	007	08 61			VARI	1101	83.74	30	140	1	E
V 7 1	007	<u> </u>	.U		VARI		03.74	30	140		<u></u>
				т	DEEC		ESTIMATED		ERCENT		
		PLOTS	TREES		REES ER PLOT		TOTAL TREES		AMPLE REES		
TOTA	T			r			IKEES	1.	KEES		
TOTA		30 14	140 64		4.7 4.6		858		7.5		
	COUNT	14	04		4.0		656		7.5		
REFO	REST										
COUN	T	14	76		5.4						
BLAN	IKS	2									
100 %											
				STAN	D SUMMA	ARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
PPINE	= 	60	9.9	20.4	42	4.9	22.3	2,052	2,006	435	435
DOUC	G-FIR	4	.4	22.0	53	0.2	1.0	106	102	23	23
TOTA	A L	64	10.2	20.4	43	5.2	23.3	2,158	2,107	459	459
CONI		LIMITS OF TH TIMES OUT O		LUME WILI	L BE WITI	HIN THE S	AMPLE ERRO	OR			
CL:	68.1 %	COEFF			SAMPLE	TREES -	BF	#	OF TREES I	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LO	W	AVG	HIGH		5	10	15
PPINE		121.0	15.6		311	368	425				
DOUG		63.4	36.2		209	328	446		5.00		
TOTA	AL .	118.6	14.8		311	365	420		562	141	62
CL:	68.1 %	COEFF				TREES -		#	OF TREES I	•	INF. POP.
SD:	1.0	VAR.%	S.E.%	LO		AVG	HIGH		5	10	15
PPINE		95.2 51.1	12.3 29.2		63 52	72 73	81 94				
TOTA		92.7	11.6		64	72	81		344	86	38
CL:	68.1 %	COEFF			TDEEC/A						
SD:	1.0					CDE			OE DI OTC I		INE DOD
	1.0	VAR %	SE%	LO		ACRE AVG	HIGH	#	OF PLOTS I	REQ.	INF. POP.
PPINE	Ξ.	VAR.% 84.7	S.E.% 15.7	LO		AVG 10	HIGH 11	#	OF PLOTS I		INF. POP.
DOUG				LO	W	AVG		#		REQ.	
	G-FIR	84.7	15.7	LO	<u>W</u> 8	AVG 10	11	#		REQ.	
DOUG	G-FIR	84.7 305.9	15.7 56.8	LO	8 0 9	AVG 10 0	11 1 12		5	REQ. 10	15
DOUG	G-FIR AL	84.7 305.9 82.6	15.7 56.8	LO	8 0 9 BASAL A	10 0 10	11 1 12		5 283	REQ. 10	15 31
DOUC TOTA CL: SD: PPINE	G-FIR AL 68.1 % 1.0	84.7 305.9 82.6 COEFF VAR.%	15.7 56.8 15.3 S.E.%		8 0 9 BASAL A W 19	10 0 10 AREA/ACE AVG 22	11 1 12 RE HIGH		5 283 OF PLOTS F	71 REQ.	31 INF. POP.
DOUG TOTA CL: SD: PPINE DOUG	G-FIR AL 68.1 % 1.0 E G-FIR	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4	15.7 56.8 15.3 S.E.% 13.6 51.2		8 0 9 BASAL A W 19 0	AVG 10 0 10 AREA/ACE AVG 22 1	11 12 RE HIGH 25 2		5 283 OF PLOTS F 5	71 REQ. 10	31 INF. POP. 15
DOUC TOTA CL: SD: PPINE DOUC TOTA	G-FIR AL 68.1 % 1.0 3 G-FIR AL	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1	15.7 56.8 15.3 S.E.%		W 8 0 9 BASAL A W 19 0 20	AVG 10 0 10 AREA/ACE AVG 22 1 23	11 1 12 RE HIGH	#	5 283 OF PLOTS I 5	71 REQ. 10 54	15 31 INF. POP. 15
DOUCE TOTAL CL:	G-FIR 68.1 % 1.0 3-FIR AL 68.1 %	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4	LO	8 0 9 BASAL A W 19 0 20 NET BF /A	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE	11 12 RE HIGH 25 2 26	#	5 283 OF PLOTS I 5 216 OF PLOTS I	71 REQ. 10 54 REQ.	15 31 INF. POP. 15 24 INF. POP.
DOUCE TOTAL CL: SD: PPINE DOUCE TOTAL CL: SD:	G-FIR 68.1 % 1.0 G-FIR AL 68.1 % 1.0	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.%	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4	LO	8 0 9 BASAL A W 19 0 20 NET BF /4	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG	11 12 RE HIGH 25 2 26	#	5 283 OF PLOTS I 5	71 REQ. 10 54	15 31 INF. POP. 15
DOUC TOTA CL: SD: PPINE DOUC TOTA CL: SD: PPINE	G-FIR 68.1 % 1.0 G-FIR AL 68.1 % 1.0 68.1 % 1.0	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.%	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4 S.E.%	LO	8 0 9 BASAL A W 19 0 20 NET BF /A	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG 2,006	11 12 RE HIGH 25 2 26 HIGH 2,283	#	5 283 OF PLOTS I 5 216 OF PLOTS I	71 REQ. 10 54 REQ.	15 31 INF. POP. 15 24 INF. POP.
DOUCE TOTAL CL: SD: PPINE DOUCE TOTAL CL: SD:	68.1 % 1.0 G-FIR 1.0 G-FIR 1.0 68.1 % 1.0 68.1 % 1.0 G-FIR	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.%	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4	LO	8 0 9 BASAL A W 19 0 20 NET BF /4	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG	11 12 RE HIGH 25 2 26	#	5 283 OF PLOTS I 5 216 OF PLOTS I	71 REQ. 10 54 REQ.	15 31 INF. POP. 15 24 INF. POP.
DOUCE TOTA CL: SD: PPINE DOUCE TOTA CL: SD: PPINE DOUCE TOTA	G-FIR 68.1 % 1.0 G-FIR AL 68.1 % 1.0 68.1 % 1.0 G-FIR AL 68.1 % 1.0	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.% 74.5 269.2	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4 S.E.% 13.8 50.0	LO	8 0 9 BASAL A W 19 0 20 NET BF /4 W 1,728 51 ,822	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG 2,006 102 2,107	11 12 RE HIGH 25 2 26 HIGH 2,283 152 2,393	#	5 283 OF PLOTS F 5 216 OF PLOTS F 5	71 REQ. 10 54 REQ. 10 55	15 31 INF. POP. 15 24 INF. POP. 15
CL: SD: PPINE DOUG TOTA CL: SD: PPINE DOUG TOTA CL: CL: CL:	G-FIR 68.1 % 1.0 G-FIR AL 68.1 % 1.0 68.1 % 1.0 G-FIR AL 68.1 % 68.1 %	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.% 74.5 269.2 72.9 COEFF	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4 S.E.% 13.8 50.0 13.5	LO LO	8 0 9 BASAL A W 19 0 20 NET BF /A W 1,728 51 ,822 NET CUE	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG 2,006 102 2,107 ET FT/ACI	11 12 RE HIGH 25 2 26 HIGH 2,283 152 2,393 RE	#	5 283 OF PLOTS I 5 216 OF PLOTS I 5	71 REQ. 10 54 REQ. 10 55 REQ.	15 31 INF. POP. 15 24 INF. POP. 15
CL: SD: PPINE DOUG TOTA CL: SD: PPINE DOUG TOTA CL: CL: CL:	68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.% 74.5 269.2 72.9	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4 S.E.% 13.8 50.0	LO	8 0 9 BASAL A W 19 0 20 NET BF /A W 1,728 51 ,822 NET CUE	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG 2,006 102 2,107	11 12 RE HIGH 25 2 26 HIGH 2,283 152 2,393	#	5 283 OF PLOTS F 5 216 OF PLOTS F 5	71 REQ. 10 54 REQ. 10 55	15 31 INF. POP. 15 24 INF. POP. 15
DOUCE TOTA CL: SD: PPINE DOUCE TOTA CL: SD: PPINE CL: SD: SD: CL: SD: SD:	G-FIR AL 68.1 % 1.0 G-FIR AL 68.1 % 1.0 G-FIR AL 68.1 % 1.0 G-FIR AL	84.7 305.9 82.6 COEFF VAR.% 73.4 275.4 72.1 COEFF VAR.% 74.5 269.2 72.9 COEFF VAR.%	15.7 56.8 15.3 S.E.% 13.6 51.2 13.4 S.E.% 13.8 50.0 13.5	LO LO	8 0 9 BASAL A W 19 0 20 NET BF/A W 1,728 51 ,822 NET CUE	AVG 10 0 10 AREA/ACE AVG 22 1 23 ACRE AVG 2,006 102 2,107 ET FT/ACI AVG	11 12 RE HIGH 25 2 26 HIGH 2,283 152 2,393 RE HIGH	#	5 283 OF PLOTS I 5 216 OF PLOTS I 5	71 REQ. 10 54 REQ. 10 55 REQ.	15 31 INF. POP. 15 24 INF. POP. 15

Sale Area (Unit)	Notes	Total MBF Volume	Unit SE% (cruise statistics result)	SE in MBF (calculated)	Squared (calculated)
۷	Area 1	835.7916	14.0%	117	13692
В	Area 2	176.44018	13.5%	24	292
U	Area 3	94.3182	14.6%	14	190
۵				0	0
ш				0	0
ш				0	0
ŋ				0	0
I				0	0
_				0	0
7				0	0
¥				0	0
L				0	0
Totals		1106.54998	10.9%	:	14449

SE in MBF





LOGGING PLAN OF TIMBER SALE CONTRACT NO. 341-15 -10 -

PLJ LOCATED IN PORTIONS OF SECTIONS 8 & 18, T41S, R7E, AND SECTION 14, T41S, R6E, W.M. KLAMATH COUNTY, OR

Contour Interval: 20'
1 inch = 500 feet

Sale Area	Harvest Type	Net Acres
1	Thin	155
2	Thin	86
3	Thin	18
	T-4-1 050 A	

Total - 259 Acres

This product is for informational purposes and may
not have been prepared for, or suitable for, legal
engineering, or surveying purposes.

