



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mistletoad
Sale 341-14-80

District: Klamath/Lake

Date: May 21, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$445,112.25	\$0.00	\$445,112.25
		Project Work:	\$(25,760.00)
		Advertised Value:	\$419,352.25



"STEWARDSHIP IN FORESTRY"

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District: Klamath/Lake

Date: May 21, 2014

timber description

Location: Portions of Sections 2, 3, 11, 12, 13, and 14, T33S, R7.5E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	16	0	95
Sugar Pine	17	0	95
Ponderosa Pine	13	0	95
Lodgepole Pine	12	0	95

Volume by Grade	Camprun	CR 14" -	CR 6" - 8	CR 8" - 1	Total
White Fir	0	225	261	759	1,245
Sugar Pine	0	0	11	84	95
Ponderosa Pine	0	30	379	209	618
Lodgepole Pine	45	0	0	0	45
Total	45	255	651	1,052	2,003



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comments: Pond Values Used: 1st Quarter Calendar Year 2014.

Log Markets: Klamath Falls and Medford

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Log Branding & Painting: \$1,404

Dust Abatement: \$7,210

TOTAL Other Costs (with Profit & Risk to be added) = \$8,614

Other Costs (No Profit & Risk added):

None.



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logging conditions

combination#: 1

White Fir	53.00%
Sugar Pine	100.00%
Ponderosa Pine	87.00%
Lodgepole Pine	100.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Wheel Skidder **Process:** Feller Buncher
tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF
loads / day: 12.0 **bd. ft / load:** 3,900
cost / mbf: \$70.95

machines: Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Tire Skidder

combination#: 2

White Fir	47.00%
Ponderosa Pine	13.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Track Skidder **Process:** Manual Falling/Delimbing
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,800
cost / mbf: \$70.96

machines: Log Loader (B)
Track Skidder



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logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$25,760.00	Other Costs (P/R):	\$8,614.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$1.25

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	4.4
Sugar Pine	\$0.00	3.0	4.0
Ponderosa Pine	\$0.00	3.0	4.0
Lodgepole Pine	\$0.00	3.0	4.0



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Local Pond Values

Date	Specie	Grade	Value
5/21/14	White Fir	CR 6" - 8"	\$385.00
5/21/14	White Fir	CR 8" - 14"	\$425.00
5/21/14	White Fir	CR 14" - 22"	\$430.00
5/21/14	White Fir	CR 22"+	\$435.00
5/21/14	Sugar Pine	CR 6" - 8"	\$300.00
5/21/14	Sugar Pine	CR 8" - 14"	\$340.00
5/21/14	Sugar Pine	CR 14" - 22"	\$370.00
5/21/14	Sugar Pine	CR 22"+	\$420.00
5/21/14	Ponderosa Pine	CR 6" - 8"	\$290.00
5/21/14	Ponderosa Pine	CR 8" - 14"	\$335.00
5/21/14	Ponderosa Pine	CR 14" - 22"	\$395.00
5/21/14	Ponderosa Pine	CR 22"+	\$440.00
5/21/14	Lodgepole Pine	Camprun	\$315.00



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
\$70.95	\$1.31	\$2.19	\$56.41	\$4.30	\$13.52	\$0.00	\$5.00	\$0.00	\$153.68
Sugar Pine									
\$70.95	\$1.31	\$2.19	\$62.04	\$4.30	\$14.08	\$0.00	\$5.00	\$0.00	\$159.87
Ponderosa Pine									
\$70.95	\$1.31	\$2.19	\$62.04	\$4.30	\$14.08	\$0.00	\$5.00	\$0.00	\$159.87
Lodgepole Pine									
\$70.95	\$1.31	\$2.19	\$62.04	\$4.30	\$14.08	\$0.00	\$5.00	\$0.00	\$159.87

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$417.52	\$263.84	\$0.00
Sugar Pine	\$0.00	\$335.37	\$175.50	\$0.00
Ponderosa Pine	\$0.00	\$310.32	\$150.45	\$0.00
Lodgepole Pine	\$0.00	\$315.00	\$155.13	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
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District: Klamath/Lake

Date: May 21, 2014

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	1,245	\$263.84	\$328,480.80
Sugar Pine	95	\$175.50	\$16,672.50
Ponderosa Pine	618	\$150.45	\$92,978.10
Lodgepole Pine	45	\$155.13	\$6,980.85

Gross Timber Sale Value

Recovery: \$445,112.25

Prepared by: Todd Clement

Phone: 541-883-5681

Summary of Project Work



"STEWARDSHIP IN FORESTRY"

Mistletoad 341-14-80

Project # 1:	Road Improvement	\$ 3,262
Project # 2:	Fell, Yard, and Pile Submerchantable Trees	\$15,840
Project # 3:	Shovel Piling	\$ 1,600
Project # 4:	Spot Rocking	\$ 5,058

Total: \$25,760

Mistletoad

341-14-80

Additional Costs



Road Maintenance

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	5.1
Number of Bladings:	2
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	20
Grading Cost:	\$2,110.00
Total Cost:	\$2,510.00
Cost / MBF:	\$1.25

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

39 Hauling Days
1.5 Hours/Day
\$24.00 Cost/Hour
\$1,404.00 Total Cost
\$0.70 Cost/MBF

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

PP	617 MBF	31%	Average Load	4.0 MBF	No. of Loads	154
WF	1,246 MBF	62%	Average Load	4.4 MBF	No. of Loads	283
LP	46 MBF	2%	Average Load	4.0 MBF	No. of Loads	12
SP	95 MBF	5%	Average Load	4.0 MBF	No. of Loads	24
Total:	2,004 MBF				Total Loads	473

Assume:	4 Trucks/Day	
	3 Trips/Day	20 Days of Dust Abatement
	12 Loads per Day	4 Hours/Day
	39 Hauling Days	\$88.00 Cost/Hour
		80 Total Hours
		\$170.00 Move in for Water Truck
		\$7,210.00 Dust Abatement Cost
		\$7,210.00 Total Cost
		\$3.60 Cost/MBF

Other Costs Summary

Log Branding and Painting:	\$1,404.00
Dust Abatement	\$7,210.00
Total Cost:	\$8,614.00

Project #1 Road Improvement/Road Construction

Move in Cost Dozer:	\$400.00
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Improvement	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	116	1000	0.1	\$132.50	\$13.25
Open/Clear/Shape	C to D	205	1000	0.2	\$132.50	\$26.50
Open/Clear/Shape	E to F	384	1000	0.4	\$132.50	\$53.00
Open/Clear/Shape	G to H	863	1000	0.9	\$132.50	\$119.25
Open/Clear/Shape	I to J	169	1000	0.2	\$132.50	\$26.50
Open/Clear/Shape	K to L	238	1000	0.2	\$132.50	\$26.50
Open/Clear/Shape	M to N	517	1000	0.5	\$132.50	\$66.25
Open/Clear/Shape	O to P	557	1000	0.6	\$132.50	\$79.50
Open/Clear/Shape	Q to R	132	1000	0.1	\$132.50	\$13.25
Open/Clear/Shape	S to T	336	1000	0.3	\$132.50	\$39.75
Open/Clear/Shape	U to V	5,440	1000	5.4	\$132.50	\$715.50
Open/Clear/Shape	W to X	2,212	1000	2.2	\$132.50	\$291.50
Open/Clear/Shape	Y to Z	10,544	1000	10.5	\$132.50	\$1,391.25
Total		13,014				Total \$2,862.00
Grand Total with Move in						\$3,262.00

Project #1 Summary

Equipment Costs(Move in)	\$400.00
Open/Clear Shape	\$2,862.00
Project #2 Total	\$3,262.00
per MBF	\$1.63

Project #2 Fell, Yarding, and Piling of Submerchantable Material

Total Sub-Sawlog Volume:	264 MBF
Fell and Skid and sort/MBF:	\$60.00
Total:	\$15,840.00
per MBF	\$7.90

Project #3 Shovel Piling

Move in Cost for Shovel:	\$400
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Treatment Acres	Cost/Acre	Total Cost
10	\$120.00	\$1,200.00

Project #3 Summary

Shovel Piling Total	\$1,600.00
per MBF	\$0.80

Project #4 Spot Rocking**Roads: 232, 20, 13**

Spot Rocking - Delivered		Rock Spreading (Grader)	
3/4 - Rock Size		8	Total Grader Hours
180	Cubic Yards	\$105.50	Cost/Hour
1.5	Tons per Cubic Yard	\$844.00	Total
270	Tons		
\$13.00	Cost/Ton (Delivered)	8	Total Water Truck Hours
\$3,510.00	Total	\$88.00	Cost/Hour
\$1.75	per MBF	\$704.00	Total
		\$1,548.00	Total Rock Spreading
		\$0.77	per MBF

Project #4 Summary

Total Cost of Rock	\$3,510.00
Total Cost of Spreading	\$1,548.00
Total	\$5,058.00
Cost/MBF	\$2.52

Cost Summary All Projects

\$3,262.00	Project #1
\$15,840.00	Project #2
\$1,600.00	Project #3
\$5,058.00	Project #4
\$25,760.00	Total
\$12.85	per MBF

Mistletoad

341-14-80
Cruise Report



SALE NAME: Mistletoad

LEGAL DESCRIPTION:

Portions of sections 2, 3, 11, 12, 13 and 14, T33S, R7.5E, W.M., Klamath County, Oregon..

BOUNDARY LINES:

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

FUND:

100% B.O.F.

ACREAGE:

The timber sale is 395 acres and was cruised as a single tract. See attached map for the boundary of the cruise type.

Net Sale Acreage: 395 Acres

Mapping was accomplished using a handheld GPS and the data was compiled using ArcMap 10.

TREATMENT:

The entire sale area is a single tree selection cut. Cut trees are marked with blue paint for trees 5.0 inches dbh and larger. All trees less than 5.0 inches dbh are reserved from cutting in the timber sale area.

CRUISE METHOD:

Merchantable volume was sampled using a variable plot cruise with odd numbered plots being measure plots, and even numbered plots being count plots. Fixed plot cruise for all submerchantable material (5.0”to 9.0” dbh).

SAMPLING INTENSITY:

Area	BAF	Type Acreage
Mistletoad	10 BAF	395 acres

FIXED PLOT:

Area	Radius	Type Acreage
Mistletoad	16.6 (1/50 th)	395 acres

PLOT DESIGNATION:

Plot centers were established at every plot. Blue wire flags with the corresponding plot number were placed for plot center and blue and white flagging with the plot number was also attached to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Mistletoad	56	12	395

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

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

$$\text{Mistletoad} \quad N = \frac{(1)^2(56)^2}{(12)^2} = \quad \text{Took 39 plots}$$

Measurements and Grading:

- DBH and Height were measured on all “in” trees for measure plots.
- Ratio of 1 count plot for every 1 measure plot.
- 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 9” dbh).

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is 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:

9.0" 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 Factor).

FORM POINT:

All trees were sighted at D.B.H. (Diameter at Breast Height)

VOLUME COMPUTATION:

All cruise data was input and run at the district using SuperAce 2008.

CRUISERS: Todd Clement, Ed Scheick, Chris Weekly, Jon Fitch, Sara Stack

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Mistletoad	76	12.4	395

TIMBER DESCRIPTION**SAWLOG VOLUME:**

This volume was obtained from the systematic random sampling cruise. All material graded camp run. See grade table for minimum standards.

Mistletoad

Mistletoad Cruise report

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	13.2	628	617
White Fir	16.6	1,254	1,246
Sugar Pine	17.5	95	95
Lodgepole Pine	12.1	47	46

TOTAL NET SAWLOG VOLUME: 2,004 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.

MISTLETOAD

SPECIES	Fixed Plot Volume
Ponderosa Pine	75
White Fir	179
Sugar Pine	10
TOTAL	264

TOTAL GREEN PULP VOLUME: 264 MBF

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	MISTLTOD			DATE	1/22/2014		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
033	007	11	212	MRC	395.00		38	187	1	E	
					TREES	ESTIMATED		PERCENT			
					PER PLOT	TOTAL		SAMPLE			
						TREES		TREES			
TOTAL			38	187	4.9						
CRUISE			20	107	5.3		17,223	.6			
DBH COUNT											
REFOREST											
COUNT			17	80	4.7						
BLANKS			1								
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
PPINE			52	25.5	13.2	38	6.7	24.2	1,590	1,563	408
WHITE F			51	15.0	16.6	54	5.5	22.6	3,175	3,154	671
SUG PINE			1	1.4	17.5	56	0.6	2.4	241	241	60
LP PINE			3	1.6	12.1	30	0.4	1.3	120	115	27
TOTAL			107	43.6	14.6	43	13.2	50.5	5,126	5,074	1,166
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	
PPINE			102.8	14.3	69	81	92				
WHITE F			78.4	11.0	239	269	299				
SUG PINE											
LP PINE			97.6	67.6	26	80	134				
TOTAL			106.4	10.3	154	171	189	453	113	50	
CL	68.1	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
PPINE			75.6	10.5	18	20	23				
WHITE F			63.3	8.9	51	56	61				
SUG PINE											
LP PINE			60.1	41.6	11	18	25				
TOTAL			85.3	8.2	34	37	40	291	73	32	
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
PPINE			95.3	15.5	22	26	29				
WHITE F			134.3	21.8	12	15	18				
SUG PINE			249.0	40.4	1	1	2				
LP PINE			371.6	60.3	1	2	3				
TOTAL			62.7	10.2	39	44	48	157	39	17	
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
PPINE			89.3	14.5	21	24	28				
WHITE F			117.9	19.1	18	23	27				
SUG PINE			249.0	40.4	1	2	3				
LP PINE			360.9	58.5	1	1	2				
TOTAL			56.6	9.2	46	51	55	128	32	14	
CL	68.1	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
PPINE			87.8	14.2	1,340	1,563	1,786				
WHITE F			129.7	21.0	2,491	3,154	3,818				
SUG PINE			249.0	40.4	144	241	338				
LP PINE			357.8	58.0	48	115	182				

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT MISTLTOD				DATE	1/22/2014	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
033	007	11	212	MRC	395.00	38	187	1	E	
CL	68.1		COEFF		NET BF/ACRE		# OF PLOTS REQ.		INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			76.4	12.4	4,445	5,074	5,703	234	58	26
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
PPINE			86.5	14.0	351	408	465			
WHITE F			124.1	20.1	536	671	807			
SUG PINE			249.0	40.4	35	60	84			
LP PINE			350.0	56.8	12	27	42			
TOTAL			69.0	11.2	1,036	1,166	1,297	190	48	21

TblSortGrade

Sort/Grade Table

Table Name: SUNPASS Date: 01/22/2014

Sort	Grd	Abr	Desc	Fbr	Min Dia	Max Dia	Max B Butt	Min I Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot S Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
0	0	CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0	0		
	1	CR	CAMPRU	G	6	0	0	10	99	0	0	M	0	0	0			0	0	0		
	7	GP	GRNPULP	G	3	0	0	10	99	0	0	M	0	0	0			0	0	0		
	8	DP	DEADPUL	G	3	0	0	10	99	0	0	M	0	0	0			0	0	0		
	9	UT	UTILITY	G	8	0	0	12	99	0	0	M	0	0	0			0	0	0		
		CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0	0		
	1	CR	CAMPRU	G	1	0	0	1	99	0	0	M	0	0	0			0	0	0		

Species Table Report

TblSpecies

Date: 01/22/2014
Page: 1

Table Name: SUNPASS

Code	Abrv	Description	Bark Ratio	ASub Const	Form Factor	Wood Type	Comp- onent	Yield Table	Min Log Dia	Min Log Len	Max Log Len	Log Trim	Max Tree Dia	Max Tree Hgt.	BdFt Rule	CuFt Rule	Weight
1	PP	PPINE	.87	PP	.85	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	W	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000
3	LP	LP PINE	.96	DF	.9	P	C	LP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
4	DF	DOUG-FIR	.92	DF	.87	D	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5700
5	SP	SUG PINE	.87	PP	.84	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
6	IC	INC CED	.90	SS	.80	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	4500
7	RF	SH FIR	.924	DF	.89	W	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000

TC		PLOGSTVB																		Log Stock Table - MBF									
T33 R7 S11 TySUB				395.00		Project: MISTLTOD										Page 1													
						Acres 395.00										Date 5/12/2014													
																Time 8:21:19AM													
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches																				
									2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+									
WF		CR	GP	16	93		93	52.0	31		62																		
WF		CR	GP	18	29		29	16.0	29																				
WF		CR	GP	19	57		57	32.0			57																		
WF		Totals			179		179	67.6	60		119																		
PP		CR	GP	12	2		2	3.0			2																		
PP		CR	GP	13	6		6	8.5	2		5																		
PP		CR	GP	14	16		16	21.7	8		8																		
PP		CR	GP	15	27		27	35.6	10	16																			
PP		CR	GP	16	14		14	18.9	1	3	10																		
PP		CR	GP	17	4		4	4.8			4																		
PP		CR	GP	19	1		1	1.3	1																				
PP		CR	GP	20	5		5	6.3				5																	
PP		Totals			75		75	28.4	22	19	30	5																	
SP		CR	GP	15	10		10	100.0		10																			
SP		Totals			10		10	3.9		10																			
Total		All Species			264		264	100.0	82	29	149	5																	

LOGGING PLAN
 OF TIMBER SALE CONTRACT 341-14-80
 MISTLETOAD
 PORTIONS OF SECTIONS 2, 3, 11,
 12, 13 AND 14, T33S, R7.5E, W.M.
 KLAMATH COUNTY, OREGON

