



Timber Sale Appraisal
Fat Cat
Sale 341-12-57

"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake

Date: September 08, 2011

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,109,185.73	\$0.00	\$1,109,185.73
		Project Work:	\$(54,636.62)
		Advertised Value:	\$1,054,549.11



"STEWARDSHIP IN FORESTRY"

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timber description

Location: Portions of Sections 18, 19, 20, 29 and 30, T32S, R7.5E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	17	0	95
Ponderosa Pine	14	0	95
Lodgepole Pine	12	0	95

Volume by Grade	Camprur	CR 14" -	CR 22"+	CR 6" - 8	CR 8" - 1	Total
White Fir	0	1,774	720	702	1,677	4,873
Ponderosa Pine	0	310	51	617	698	1,676
Lodgepole Pine	834	0	0	0	0	834
Total	834	2,084	771	1,319	2,375	7,383

comments: Pond Values Used: 2nd Quarter Calendar Year 2011.

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 \$740 daily truck cost.

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

Dust Abatement: \$50,506

Log Branding & Painting: \$5,148

TOTAL Other Costs (with Profit & Risk to be added): \$55,654

Other Costs (No Profit & Risk added):

None.



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logging conditions

combination#: 1 White Fir 25.00%
 Ponderosa Pine 60.00%
 Lodgepole Pine 100.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Wheel Skidder **Process:** Feller Buncher
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 12.0 **bd. ft / load:** 4,000
cost / mbf: \$69.18

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

combination#: 2 White Fir 75.00%
 Ponderosa Pine 40.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Track Skidder **Process:** Manual Falling/Delimiting
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,500
cost / mbf: \$75.69

machines: Log Loader (B)
Track Skidder



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logging costs

Operating Seasons:	2.00	Profit Risk:	12.00%
Project Costs:	\$54,636.62	Other Costs (P/R):	\$55,654.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.52

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	4.5
Ponderosa Pine	\$0.00	3.0	4.1
Lodgepole Pine	\$0.00	3.0	4.0

Local Pond Values

Date	Specie	Grade	Value
8/24/11	White Fir	CR 6" - 8"	\$300.00
8/24/11	White Fir	CR 8" - 14"	\$310.00
8/24/11	White Fir	CR 14" - 22"	\$320.00
8/24/11	White Fir	CR 22"+	\$360.00
8/24/11	Ponderosa Pine	CR 6" - 8"	\$250.00
8/24/11	Ponderosa Pine	CR 8" - 14"	\$290.00
8/24/11	Ponderosa Pine	CR 14" - 22"	\$355.00
8/24/11	Ponderosa Pine	CR 22"+	\$425.00
8/24/11	Lodgepole Pine	Camprun	\$265.00



Timber Sale Appraisal
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 Sale 341-12-57

"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake

Date: September 08, 2011

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
\$74.06	\$0.55	\$1.19	\$51.39	\$7.54	\$16.17	\$0.00	\$5.00	\$0.00	\$155.90
Ponderosa Pine									
\$71.78	\$0.55	\$1.19	\$56.41	\$7.54	\$16.50	\$0.00	\$5.00	\$0.00	\$158.97
Lodgepole Pine									
\$69.18	\$0.55	\$1.19	\$57.81	\$7.54	\$16.35	\$0.00	\$5.00	\$0.00	\$157.62

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$319.59	\$163.69	\$0.00
Ponderosa Pine	\$0.00	\$291.41	\$132.44	\$0.00
Lodgepole Pine	\$0.00	\$265.00	\$107.38	\$0.00



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District: Klamath/Lake

Date: September 08, 2011

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	4,873	\$163.69	\$797,661.37
Ponderosa Pine	1,676	\$132.44	\$221,969.44
Lodgepole Pine	834	\$107.38	\$89,554.92

Gross Timber Sale Value

Recovery: \$1,109,185.73

Prepared by: Chris Weekly

Phone: 541-883-5681

Summary of Project Work



"STEWARDSHIP IN FORESTRY"

Fat Cat
341-12-57

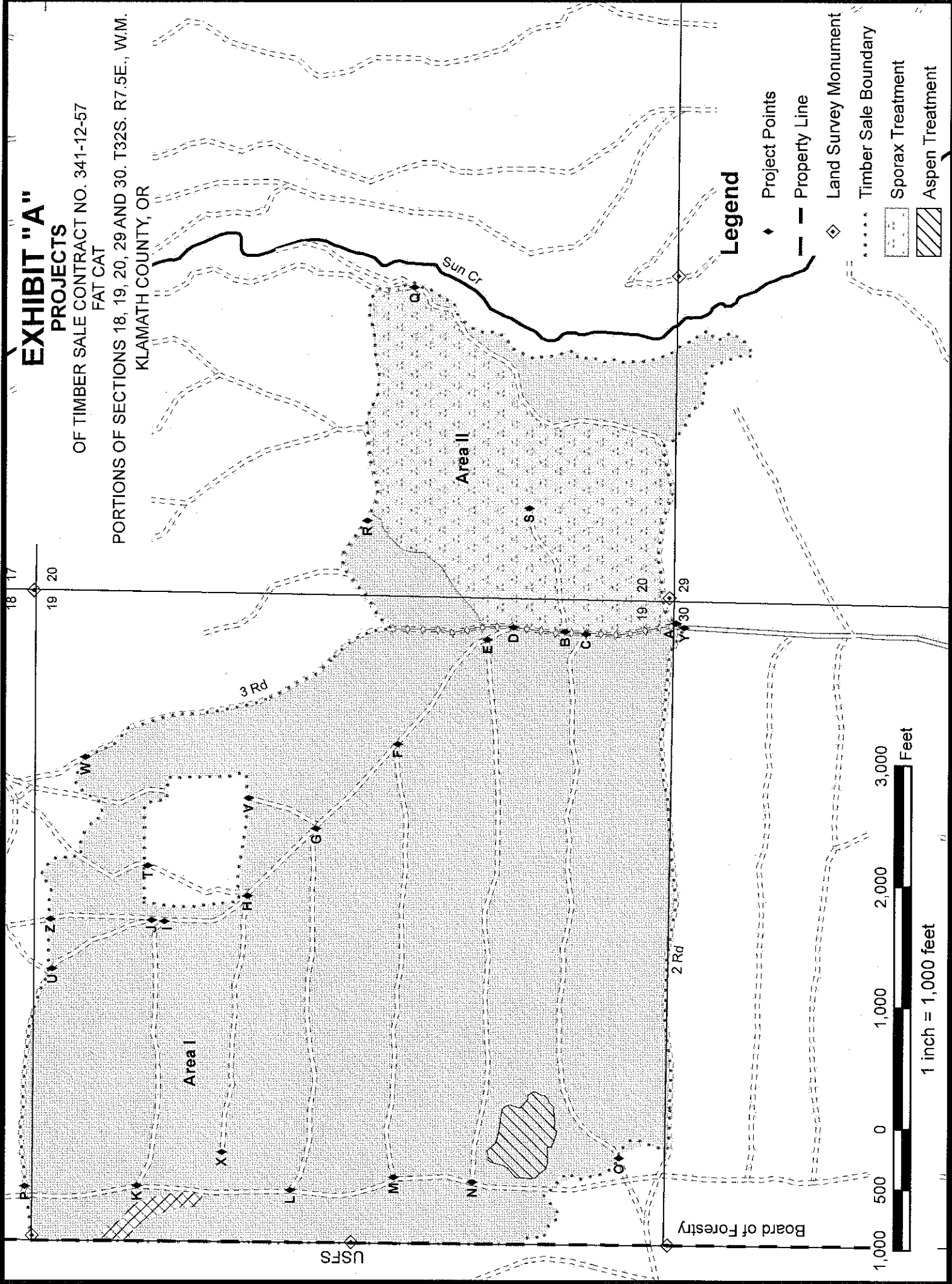
Project # 1: Road Improvement	\$4,823.12
Project # 2: Road Improvement 3 Road	\$983.50
Project # 3: Fell, Skid, and Pile Submerchantable Trees	\$37,130.00
Project # 4: Sporax Fungicide Treatment (Area 2)	\$2,592.00
Project # 5: Spot Rocking on 3 Road	\$4,788.00
Project # 6: Aspen Treatment	\$2,200.00
Project # 7: Road Closures	<u>\$2,120.00</u>
Total:	\$54,636.62

EXHIBIT "A"

PROJECTS

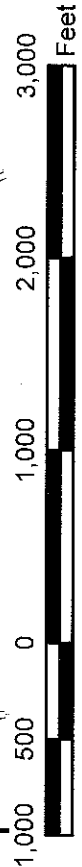
OF TIMBER SALE CONTRACT NO. 341-12-57
FAT CAT

PORTIONS OF SECTIONS 18, 19, 20, 29 AND 30. T32S. R7.5E., W.M.
KLAMATH COUNTY, OR



Legend

- ◆ Project Points
- Property Line
- ◆ Land Survey Monument
- Timber Sale Boundary
- [Hatched Box] Sporax Treatment
- [Dotted Box] Aspen Treatment



1 inch = 1,000 feet

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

Fat Cat
341-12-57
Other Costs

Road Maintenance	
Move-in cost (grader):	\$400.00
Number of Bladings:	2
Number of Miles to be Bladed:	8.1
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	16
Grading Cost:	\$3,418.20
Total Cost:	\$3,818.20
Cost / MBF:	\$0.52

Dust Abatement (Profit & Risk to be added in Appraisal)						
WF	4873 MBF	66%	Average Load	4.5 MBF	No. of Loads	1083
PP	1676 MBF	22%	Average Load	4.1 MBF	No. of Loads	409
LP	834 MBF	12%	Average Load	4.0 MBF	No. of Loads	209
Total:	7383 MBF				Total Loads	1700

Assume:	4 Trucks/Day		
	3 Trips/Day		143 Hauling Days
	12 Loads per Day		4 Hours/Day
			\$88.00 Cost/Hour
			572 Total Hours
			\$170.00 Move in for Water Truck
			\$50,506.00 Dust Abatement Cost
			\$50,506.00 Total Cost
			\$6.84 Cost/MBF

Brand & Paint (Profit and Risk to be added in Appraisal)	
143 Hauling Days	
1.5 Hours/Day	
\$24.00 Cost/Hour	
\$5,148.00 Total Cost	
\$0.70 Cost/MBF	

Other Costs Summary (Profit and Risk to be added in Appraisal)	
\$50,506.00 Total cost for Dust Abatement	\$6.84 per MBF
\$5,148.00 Total Cost for Log Branding	\$0.70 per MBF
\$55,654.00 Total Other Costs	\$7.54 per MBF

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Other Costs

Project #1 Road Improvement

Move in Cost Dozer \$400.00

Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to Q	4310	1000	4.3	\$132.50	\$571.08
Open/Clear/Shape	B to S	1106	1000	1.1	\$132.50	\$146.55
Open/Clear/Shape	D to R	2140	1000	2.1	\$132.50	\$283.55
Open/Clear/Shape	C to O	4796	1000	4.8	\$132.50	\$635.47
Open/Clear/Shape	E to N	4532	1000	4.5	\$132.50	\$600.49
Open/Clear/Shape	F to M	3633	1000	3.6	\$132.50	\$481.37
Open/Clear/Shape	G to L	3065	1000	3.1	\$132.50	\$406.11
Open/Clear/Shape	H to X	2161	1000	2.2	\$132.50	\$286.33
Open/Clear/Shape	I to K	2273	1000	2.3	\$132.50	\$301.17
Open/Clear/Shape	J to U	1002	1000	1.0	\$132.50	\$132.77
Open/Clear/Shape	H to T	909	1000	0.9	\$132.50	\$120.44
Open/Clear/Shape	G to V	620	1000	0.6	\$132.50	\$82.15
Open/Clear/Shape	D to W	2835	1000	2.8	\$132.50	\$375.64
	Total	33382			Total	\$4,423.12

Project #1 Summary

Move in	\$400.00
Open/Clear Shape	<u>\$4,423.12</u>
Project #1 Total	<u>\$4,823.12</u>
per MBF	\$0.65

Project #2 Road Improvement 3 Road from Points Y to Z

Stump and Berm Removal

	Hours	Cost per hour	Cost
Shovel Time	3	\$125.00	\$375.00
Dozer Time	3	\$132.50	\$397.50
		Total	\$772.50

Miles of Road 1.2

Road Shaping

	Hours	Cost per hour	Cost
Grader Time	2	105.5	\$211.00

Total Cost \$983.50
per MBF \$0.13

Fat Cat
341-12-57
Other Costs

Project #3 Felling, Skidding, and Piling of Submerchantable Trees

Total Sub-Sawlog Volume: 430 MBF

Fell and Skid/MBF:	\$50.00
Sort/MBF:	\$10.00
Total	\$25,800.00
per MBF	\$3.49

Landing Slash Piling

Number of Landings: 44

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$5,500.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	\$5,830.00

Total	\$11,330.00
per MBF	\$1.53

Project #3 Summary

Fell/Pile/Skid:	\$25,800.00
Landing Cleanup:	\$11,330.00
Total	\$37,130.00
per MBF	\$5.03

Fat Cat

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Other Costs

Project #4 Sporax Stump Treatment Area 2

Acres to be treated	108
Basal Area/Acre of WF and PP >14" DBH	26
Basal Area/Acre treated per pound of Sporax	25
Pounds of Sporax per acre	1.04
Price per pound of Sporax	\$1.50
Dye price (Concrete dye - 100 lbs)	<u>\$57.80</u>
Cost for chemical Supplies	<u>\$226.28</u>

State to Provide Chemical Supplies

Cutting days (assume 5 acres/day)	21.6
Hours/Day	5
Cost/Hour	<u>\$24.00</u>
Labor Cost	<u>\$2,592.00</u>

Project #4 Summary

Total Cost	<u>\$2,592.00</u>
per MBF	<u>\$0.35</u>

Project #5 Spot Rocking on 3 Road

Spot Rocking - Delivered

3/4 -	Rock Size	
180	Cubic Yards	
1.5	Tons per Cubic Yard	
270	Tons	
<u>\$12.00</u>	cost per ton (delivered)	
<u>\$3,240.00</u>	Total	
\$0.44	per MBF	

Rock Spreading (Grader)

	8	Total Grader Hours
	<u>\$105.50</u>	Cost per Hour
	\$844.00	Total
	8	Total Water Truck Hours
	<u>\$88.00</u>	Cost per Hour
	\$704.00	Total
	<u>\$1,548.00</u>	Total Rock Spreading
	<u>\$0.21</u>	per MBF

Project #5 Summary

Total cost Rock	\$3,240.00
Total cost Spreading	<u>\$1,548.00</u>
Total	<u>\$4,788.00</u>
per MBF	<u>\$0.65</u>

Fat Cat
341-12-57
Other Costs

Project #6 Aspen Treatment

Fell and Pile Aspen

	Hours	Cost per hour	Cost
Feller Buncher	15	\$130.00	\$1,950.00

Construct Fire Trail

	Hours	Cost per hour	Cost
Dozer	2	\$125.00	\$250.00
		Total Cost	\$2,200.00
		per MBF	\$0.30

Project #7 Road Closure

Road Closures

16	Number of Closure Points (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P)
1	Hour/Point (Travel Included)
\$132.50	Cost per Hour (Cat)
\$2,120.00	Total
\$0.29	per MBF

Cost Summary All Projects

\$4,823.12	Project #1 Road Improvement
\$983.50	Project #2 Road Improvement 3 Road
\$37,130.00	Project #3 Fell, Skid, and Pile Submerchantable Trees
\$2,592.00	Project #4 Sporax Fungicide Treatment Area 2
\$4,788.00	Project #5 Spot Rocking on 3 Road
\$2,200.00	Project #6 Aspen Treatment
\$2,120.00	Project #7 Road Closure
\$54,636.62	Total
\$7.40	per MBF

FAT CAT

341-12-57

Cruise Report



"STEWARDSHIP IN FORESTRY"

SALE NAME: Fat Cat

LEGAL DESCRIPTION:

Township 32S, R7½E, Portions of Sections 18,19,20,29 & 30, 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. Exclusion area is posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging.

FUND:

100% B.O.F.

ACREAGE:

The timber sale was delineated into 2 Sale areas based upon stand history and silvicultural prescription . For cruising purposes Area 1 was split into 2 types, to reflect a change in species composition and stand density, see attached map for the boundaries of the cruise types.

Area I , Type 107	410 Acres
Area I, Type WF	115 Acres
Area II	146 Acres

Net Sale Acreage: 671 Acres

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

TREATMENT:

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

CRUISE METHOD:

For Area I type WF and Area II: Variable Plot cruise with all the plots being measure plots. For Area I type 107: Variable plot cruise with a ratio of 1 count plot for every 2 measure plots. Fixed plot cruise for all submerchantable material (5.0”to 9.0”) dbh for the entire sale area.

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Area I Type 107	14 BAF	410 acres
Area I Type WF	20 BAF	115 acres
Area II	10 BAF	146 acres

PLOT DESIGNATION:

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

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Area I, Type107	75	12	410
Area I, Type WF	60	12	115
Area II	65	12	146

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

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

Area I, Type 107 $N = \frac{(1)^2(75)^2}{(12)^2} = 39$ plots Took 37 plots

Area I, Type WF $N = \frac{(1)^2(60)^2}{(12)^2} = 25$ plots Took 20 plots

Area II $N = \frac{(1)^2(60)^2}{(12)^2} = 25$ plots Took 25 plots

Measurements and Grading:

- DBH and Height were measured on all “in” trees for measure plots.
- All plots were measure plots in Area I Type WF, and Area II.
- Area I Type 107: Ratio of 1 count plot for every 2 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 9” 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:

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 POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

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

CRUISERS: Ed Scheick, Chris Weekly, Mike Dwyer, John Pellissier, John Fitch.

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area I Type 107	88	14.5	410
Area I Type WF	90	20.9	115
Area II	92	18.8	146
COMBINED	103	11.4	783

TIMBER DESCRIPTION

SAWLOG VOLUME:

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

AREA I Type 107

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	17.2	2207	2164
Ponderosa Pine	13.3	1337	1311
Lodgepole Pine	11.6	649	645

AREA I Type WF

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	17.9	2307	2267
Ponderosa Pine	14.1	82	79
Lodgepole Pine	12.1	31	31

AREA II

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	15.2	446	442
Ponderosa Pine	19.0	292	286
Lodgepole Pine	11.2	158	158

TOTAL SAWLOG VOLUME

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	17.2	4960	4873
Ponderosa Pine	13.7	1711	1676
Lodgepole Pine	11.6	838	834

TOTAL NET SAWLOG VOLUME: 7383 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.

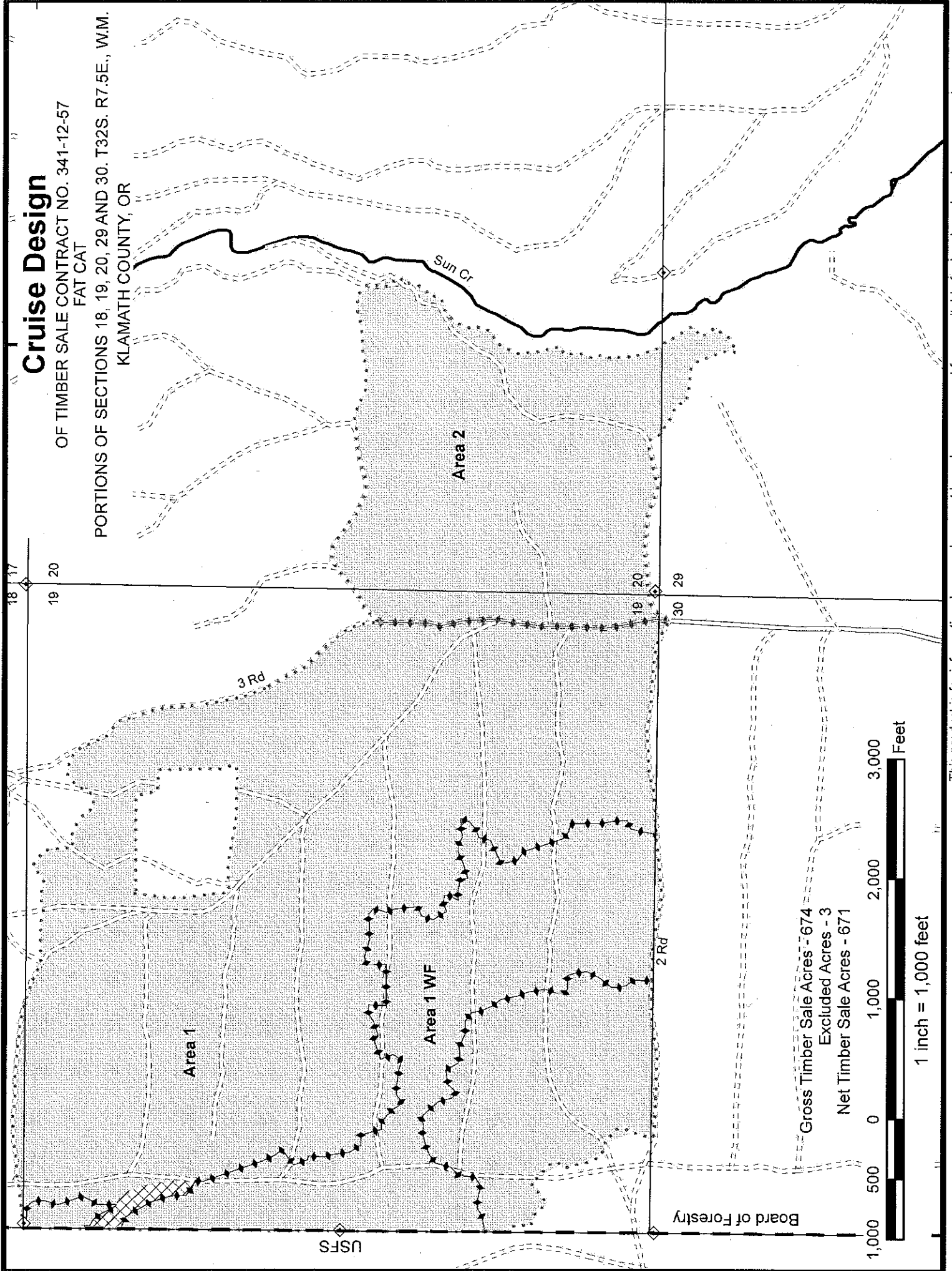
SPECIES	F.PLOT VOLUME
Ponderosa Pine	185
White Fir	156
Lodgepole Pine	89

TOTAL GREEN PULP VOLUME: 430 MBF

Cruise Design

OF TIMBER SALE CONTRACT NO. 341-12-57
FAT CAT

PORTIONS OF SECTIONS 18, 19, 20, 29 AND 30. T32S. R7.5E., W.M.
KLAMATH COUNTY, OR



TC TSTATS		STATISTICS								PAGE	1
		PROJECT		FATCAT		DATE		8/22/2011			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
32S	7.5	19	AREA 1	0107	410.00	37	234	1	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
		PLOTS	TREES	PER PLOT	TREES	TREES					
TOTAL		37	234	6.3							
CRUISE		24	164	6.8	34,649	.5					
DBH COUNT											
REFOREST											
COUNT		12	70	5.8							
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	67	44.2	13.3	38		42.8	3,433	3,369	809	809	
WHITE F	64	18.3	17.2	52	5	29.5	5,383	5,277	1,008	1,008	
LP PINE	33	22.0	11.6	43		16.3	1,679	1,672	391	391	
TOTAL	164	84.5	13.9	42		88.5	10,495	10,318	2,208	2,208	
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	121.1	14.8		110	129	149					
WHITE F	90.0	11.2		532	600	667					
LP PINE	64.0	11.1		83	94	104					
TOTAL	138.3	10.8		273	306	339	765	191		85	
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	95.9	11.7		25	28	32					
WHITE F	79.1	9.9		97	108	118					
LP PINE	58.9	10.3		20	22	24					
TOTAL	118.5	9.2		53	58	63	561	140		62	
CL:	68.1 %	COEFF	TREES/ACRE			# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
PPINE	106.1	17.4		36	44	52					
WHITE F	254.7	41.9		11	18	26					
LP PINE	209.7	34.5		14	22	30					
TOTAL	77.8	12.8		74	85	95	242	60		27	
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	99.1	16.3		36	43	50					
WHITE F	201.5	33.1		20	30	39					
LP PINE	196.1	32.2		11	16	22					
TOTAL	67.1	11.0		79	89	98	180	45		20	
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	106.7	17.5		2,778	3,369	3,960					
WHITE F	184.3	30.3		3,679	5,277	6,875					
LP PINE	203.6	33.5		1,112	1,672	2,231					
TOTAL	88.0	14.5		8,825	10,318	11,811	310	77		34	
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	102.8	16.9		672	809	946					
WHITE F	186.9	30.7		698	1,008	1,317					
LP PINE	202.9	33.4		261	391	522					

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	FATCAT			DATE	8/22/2011	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
32S	7.5	19	AREA 1	0107	410.00		37	234	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		80.4	13.2	1,916	2,208	2,500	258	65	29	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	FATCAT		DATE	8/22/2011		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
32S	7.5	19	AREA 1	WF	115.00	20	122	1	E	
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE				
		PLOTS	TREES	PER PLOT	TREES	TREES				
TOTAL		20	122	6.1						
CRUISE		20	122	6.1	8,890	1.4				
DBH COUNT										
REFOREST										
COUNT										
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
WHITE F	106	60.6	17.9	59	19	106.0	20,058	19,713	3,716	3,709
PPINE	10	9.2	14.1	28		10.0	711	687	172	172
LP PINE	6	7.5	12.1	28		6.0	422	422	111	111
TOTAL	122	77.3	17.0	52		122.0	21,190	20,822	3,999	3,992
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	
WHITE F	83.0	8.1		554	603	651				
PPINE	122.8	40.9		96	163	230				
LP PINE	66.6	29.7		52	73	95				
TOTAL	91.8	8.3		496	541	586	337	84	37	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	75.4	7.3		100	108	116				
PPINE	97.0	32.3		26	39	51				
LP PINE	72.5	32.3		13	20	26				
TOTAL	82.6	7.5		90	98	105	273	68	30	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	149.3	34.3		40	61	81				
PPINE	234.4	53.8		4	9	14				
LP PINE	233.6	53.6		3	8	12				
TOTAL	113.8	26.1		57	77	97	546	136	61	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	105.5	24.2		80	106	132				
PPINE	165.4	38.0		6	10	14				
LP PINE	244.2	56.0		3	6	9				
TOTAL	85.6	19.6		98	122	146	308	77	34	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	98.6	22.6		15,253	19,713	24,173				
PPINE	201.1	46.2		370	687	1,004				
LP PINE	235.1	53.9		194	422	649				
TOTAL	90.9	20.9		16,478	20,822	25,165	348	87	39	
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	
WHITE F	101.6	23.3		2,845	3,709	4,574				
PPINE	180.6	41.4		101	172	243				
LP PINE	243.8	55.9		49	111	173				

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	FATCAT			DATE	8/22/2011	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
32S	7.5	19	AREA 1	WF	115.00	20	122	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		91.1	20.9	3,158	3,992	4,826	349	87	39	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	FATCAT		DATE	8/22/2011		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
32S	7.5	20	AREA 2	0105	146.00	25	117	1	E	
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE				
				PER PLOT	TREES	TREES				
TOTAL		25	117	4.7						
CRUISE		23	117	5.1	6,051		1.9			
DBH COUNT										
REFOREST										
COUNT										
BLANKS		2								
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
WHITE F	52	16.5	15.2	50	4	20.8	3,072	3,053	625	625
PPINE	34	6.9	19.0	53		13.6	2,003	1,957	381	381
LP PINE	31	18.0	11.2	40		12.4	1,083	1,083	261	261
TOTAL	117	41.4	14.4	46		46.8	6,159	6,093	1,268	1,268
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	
WHITE F	99.1	13.7		288	334	380				
PPINE	85.9	14.7		508	595	683				
LP PINE	45.8	8.2		59	65	70				
TOTAL	119.0	11.0		301	339	376	566	142	63	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	84.9	11.8		56	64	71				
PPINE	75.6	13.0		95	109	123				
LP PINE	40.5	7.3		15	16	17				
TOTAL	103.9	9.6		58	64	70	431	108	48	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	165.3	33.7		11	17	22				
PPINE	137.5	28.1		5	7	9				
LP PINE	163.3	33.3		12	18	24				
TOTAL	94.0	19.2		33	41	49	368	92	41	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	162.4	33.1		14	21	28				
PPINE	112.1	22.9		10	14	17				
LP PINE	160.1	32.7		8	12	16				
TOTAL	78.9	16.1		39	47	54	259	65	29	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHITE F	174.4	35.6		1,966	3,053	4,140				
PPINE	112.6	23.0		1,507	1,957	2,406				
LP PINE	202.6	41.3		635	1,083	1,531				
TOTAL	92.2	18.8		4,947	6,093	7,240	354	88	39	
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	
WHITE F	168.6	34.4		410	625	840				
PPINE	111.8	22.8		294	381	468				
LP PINE	183.6	37.5		163	261	359				

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	FATCAT			DATE	8/22/2011	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
32S	7.5	20	AREA 2	0105	146.00	25	117	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		87.0	17.8	1,043	1,268	1,493	316	79	35	

Log Stock Table - MBF
Project: **FATCAT**

T32S R7.5 S19 T0107

T32S R7.5 S19 T0107

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 32S 7.5 19 AREA 1 0107 410.00 37 164 1
 Date 8/22/2011
 Time 9:07:56AM

SPP	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches													
									MBF	MBF	Spc	2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39
PP	CR	CR	10		9		9	.7			2	7										
PP	CR	CR	16		10		10	.7						10								
PP	CR	CR	17		168		168	12.1			154			13								
PP	CR	CR	20		20		20	1.4									20					
PP	CR	CR	24		43		43	3.1						21		22						
PP	CR	CR	26		253	.9	250	18.1			134	73		23	21							
PP	CR	CR	32		167	.5	167	12.1							37	93				36		
PP	CR	CR	34		667	3.4	644	46.6			272	301		72								
PP	CR	DP	19		5		5	.4		5												
PP	CR	DP	30		15		15	1.1		15												
PP	CR	DP	35		16		16	1.2		16												
PP	CR	DP	40		21		21	1.5				21										
PP	CR	UT	17		14		14	1.0				14										
PP	Totals				1,407	1.8	1,381	32.7		36	21	562	395	108	89	115	20	36				
WF	CU																					
WF	CR	CR	17		81	1.1	80	3.7		1	50	13		3	14							
WF	CR	CR	26		99		99	4.6			86			13								
WF	CR	CR	34		2,027	2.1	1,985	91.7			176	145		148	367	279	264	207	399			
WF	Totals				2,207	2.0	2,164	51.1		1	312	158		161	370	293	264	207	399			
LP	CR	CR	12		15		15	2.2			6			9								
LP	CR	CR	17		133		133	19.4			78	31		24								
LP	CR	CR	26		144		144	20.9			127	16										
LP	CR	CR	34		357	.9	354	51.6			130	156		68								
LP	CR	GP	40		17		17	2.5		17												
LP	CR	GP	48		23		23	3.3		23												
LP	Totals				689		685	16.2		40		341	204	92	9							
Total All Species					4,303	1.7	4,230	100.0		76	21	1215	756	361	468	407	284	243	399			

TC		TLOGSTVB		Log Stock Table - MBF				Project: FATCAT												
T32S R7.5 S19 TWF										T32S R7.5 S19 TWF										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	I											
32S	7.5	19	AREA 1	WF	115.00	20	122	Date	8/22/2011											
								Time	10:43:22AM											
Spp	T	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
									MBF	MBF	2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29
WF	CR	CR	10		5		5	.2						5						
WF	CR	CR	12		1		1	.0			1									
WF	CR	CR	17		72	1.6	71	3.1			38	9	2	8		5			9	
WF	CR	CR	26		107		107	4.7			63	17	27							
WF	CR	CR	34		2,122	1.8	2,083	91.9			184	223	207	307	288	404	188		283	
WF			Totals		2,307	1.7	2,267	94.7			286	249	236	320	288	409	188		291	
PP	CR	CR	14		11	24.5	9	10.8						5	4					
PP	CR	CR	17		19		19	23.6			16	2								
PP	CR	CR	18		4		4	4.8					4							
PP	CR	CR	26		12		12	15.7			3			9						
PP	CR	CR	32		21		21	26.2					8			13				
PP	CR	CR	34		15		15	19.0			8		7							
PP			Totals		82	3.4	79	3.3			27	2	19	14	4	13				
LP	CR	CR	12		7		7	14.7						7						
LP	CR	CR	17		1		1	2.5			1									
LP	CR	CR	26		15		15	30.8			6		9							
LP	CR	CR	34		8		8	16.9			8									
LP	CR	GP	18		5		5	10.5			5									
LP	CR	DP	15		4		4	8.2			4									
LP	CR	DP	16		8		8	16.4				8								
LP			Totals		48		48	2.0			5	20	8	9	7					
Total All Species					2,437	1.7	2,394	100.0			5	333	259	263	341	292	422	188		291

Log Stock Table - MBF
Project: **FATCAT**

T32S R7.5 S20 T0105

T32S R7.5 S20 T0105

Twp Rge Sec Tract Type Acres Plots Sample Trees
32S 7.5 20 AREA 2 0105 146.00 25 117

Page 1
Date 8/22/2011
Time 10:44:32AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches														
										MBF	MBF	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	CR	17		23		23	5.1				21	2										
WF		CR	CR	26		41		41	9.1				34	4			3							
WF		CR	CR	34		382	.7	379	85.0				49	66	58	51	71	45	9	30				
WF		CR	GP	16		3		3	.8				3											
WF		Totals				449		446	50.1				107	71	58	54	71	45	9	30				
PP		CR	CR	13		1		1	.5							1								
PP		CR	CR	14		7		7	2.4										3	4				
PP		CR	CR	16		6		6	2.1							2	4							
PP		CR	CR	17		14		14	4.8			8	2	3										
PP		CR	CR	24		6		6	1.9								6							
PP		CR	CR	26		23		23	7.9			15	5	3										
PP		CR	CR	28		12	1.3	11	4.0									7	5					
PP		CR	CR	32		178	3.5	172	60.1					3	25	31	31	31	36	46				
PP		CR	CR	34		47	.8	46	16.2			5	24	13	5									
PP		Totals				292	2.3	286	32.1			28	31	21	33	41	38	43	51					
LP		CR	CR	17		36		36	22.9			21	11	5										
LP		CR	CR	26		25		25	16.1			20	5											
LP		CR	CR	34		97		97	61.0			79	17											
LP		Totals				158		158	17.8			120	33	5										
Total All Species						899	1.1	890	100.0			255	136	84	87	112	82	53	80					

Species Table Report

TblSpecies

Date: 10/15/2010

Table Name: SUNPASS

Page: 1

Code	Abry	Description	Bark Ratio	ASuba Const	Form Factor	Wood Type	Component	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	C	C	PP-EQUA--100	3	9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	C	C	DF-EQUA--050	3	9	20	1.0	99	200	E	1	5000
3	LP	LP PINE	.96	DF	.9	C	C	LP-EQUA--100	3	9	20	1.0	99	200	E	1	4800
4	DF	DOUG-FIR	.92	DF	.87	C	C	DF-EQUA--050	3	9	20	1.0	99	200	E	1	5700
5	SP	SUG PINE	.87	PP	.84	C	C	PP-EQUA--100	3	9	20	1.0	99	200	E	1	4800
6	IC	INC CED	.90	SS	.8	C	C	DF-EQUA--050	3	9	20	1.0	99	200	E	1	4500
7	RF	SH RFIK	.924	DF	.89	C	C	DF-EQUA--050	3	9	20	1.0	99	200	E	1	5000

TblSortGrade

Sort/Grade Table

Table Name: SUNPASS

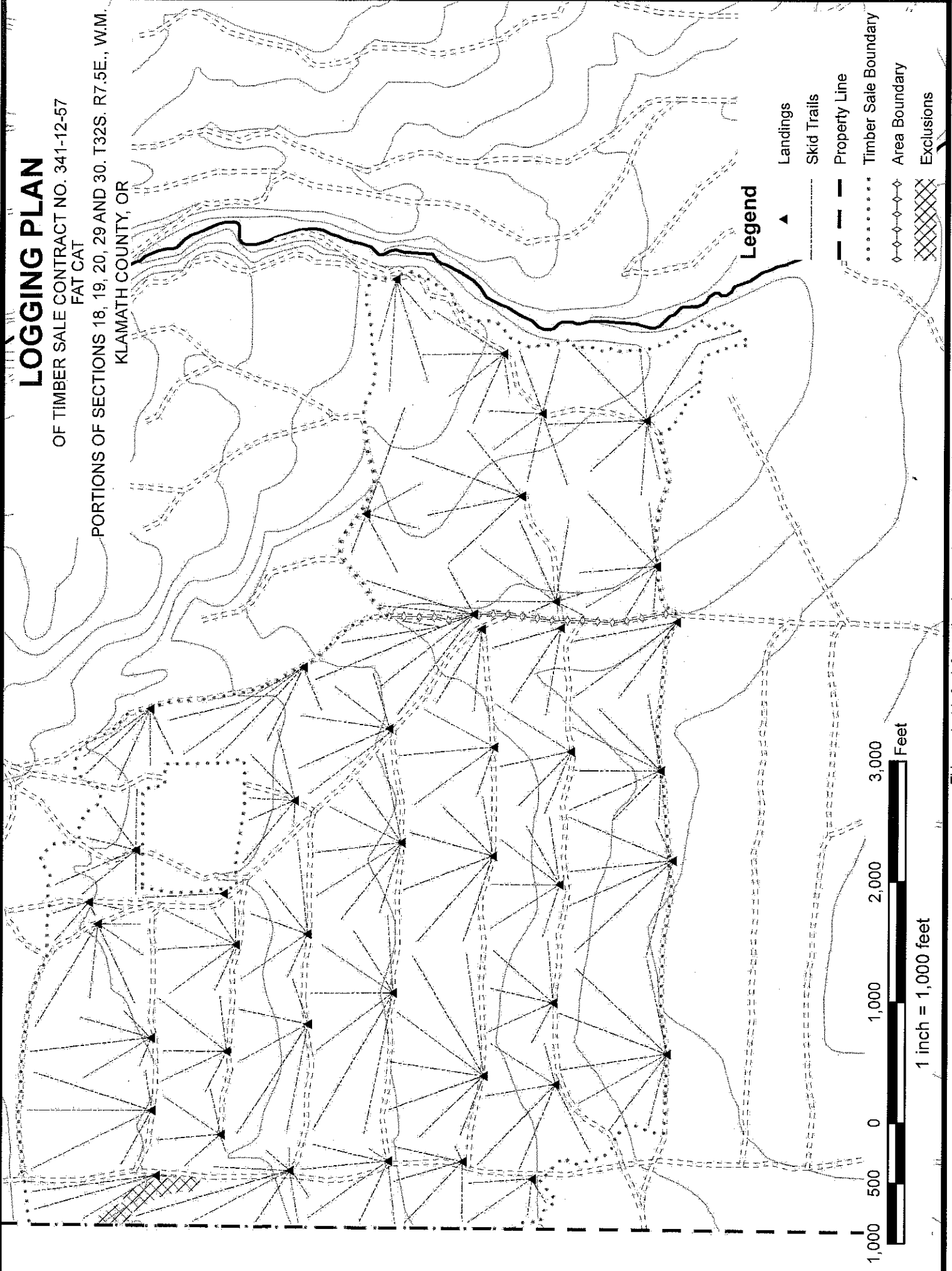
Date: 10/15/2010

Sort	Grd	Abry	Desc	Fbr	Min Dia	Max Dia	Max Butt	Min Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
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	
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	

LOGGING PLAN

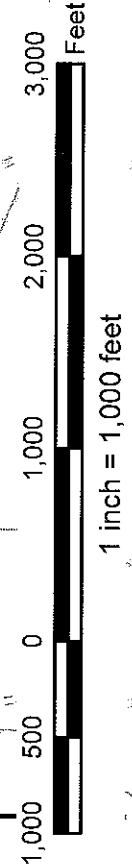
OF TIMBER SALE CONTRACT NO. 341-12-57
FAT CAT

PORTIONS OF SECTIONS 18, 19, 20, 29 AND 30. T32S. R7.5E., W.M.
KLAMATH COUNTY, OR



Legend

- ▲ Landings
- Skid Trails
- Property Line
- Timber Sale Boundary
- ◇◇◇◇ Area Boundary
- XXXX Exclusions



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