



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$349,228.52	\$0.00	\$349,228.52
		Project Work:	\$(37,453.00)
		Advertised Value:	\$311,775.52



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

timber description

Location: Portions of Sections 12 & 13, T33S, R7.5E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	17	0	97
Sugar Pine	14	0	97
Ponderosa Pine	14	0	97
Lodgepole Pine	13	0	95

Volume by Grade	Camprur	CR 14" -	CR 6" - 8	CR 8" - 1	Total
White Fir	0	368	219	853	1,440
Sugar Pine	0	12	30	56	98
Ponderosa Pine	0	154	330	730	1,214
Lodgepole Pine	774	0	0	0	774
Total	774	534	579	1,639	3,526



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

comments: Pond Values Used: 3rd Quarter Calendar Year 2008.

Log Markets: Klamath Falls and Medford

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.50/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

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

Dust Abatement: \$8,090

Log Branding & Painting: \$2,232

TOTAL Other Costs (with Profit & Risk to be added) = \$10,322

(See attached sheet for cost details)

Other Costs (No Profit & Risk to be added):

None



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

logging conditions

combination#:	1	White Fir	78.32%
		Sugar Pine	78.20%
		Ponderosa Pine	79.03%
		Lodgepole Pine	79.74%
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:	8.0	bd. ft / load:	3,700
cost / mbf:	\$112.18		
machines:	Log Loader (B) Stroke Delimber (B) Feller Buncher w/ Delimber Tire Skidder		
combination#:	2	White Fir	21.68%
		Sugar Pine	21.80%
		Ponderosa Pine	20.97%
		Lodgepole Pine	20.26%
yarding distance:	Medium (800 ft)	downhill yarding:	Yes
logging system:	Wheel Skidder	Process:	Manual Falling/Delimbing
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	8.0	bd. ft / load:	4,200
cost / mbf:	\$93.57		
machines:	Log Loader (B) Tire Skidder		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

logging costs

Operating Seasons:	1.00	Profit Risk:	12.00%
Project Costs:	\$37,453.00	Other Costs (P/R):	\$10,322.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.54

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	4.0
Sugar Pine	\$0.00	3.0	3.9
Ponderosa Pine	\$0.00	3.0	3.9
Lodgepole Pine	\$0.00	3.0	3.4



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

Local Pond Values

Date	Specie	Grade	Value
9/30/08	White Fir	CR 6" - 8"	\$290.00
9/30/08	White Fir	CR 8" - 14"	\$320.00
9/30/08	White Fir	CR 14" - 22"	\$330.00
9/30/08	White Fir	CR 22"+	\$335.00
9/30/08	Sugar Pine	CR 6" - 8"	\$245.00
9/30/08	Sugar Pine	CR 8" - 14"	\$270.00
9/30/08	Sugar Pine	CR 14" - 22"	\$325.00
9/30/08	Sugar Pine	CR 22"+	\$360.00
9/30/08	Ponderosa Pine	CR 6" - 8"	\$250.00
9/30/08	Ponderosa Pine	CR 8" - 14"	\$285.00
9/30/08	Ponderosa Pine	CR 14" - 22"	\$340.00
9/30/08	Ponderosa Pine	CR 22"+	\$420.00
9/30/08	Lodgepole Pine	Camprun	\$270.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
\$108.15	\$0.56	\$1.24	\$53.64	\$2.93	\$19.98	\$0.00	\$5.00	\$0.00	\$191.50
Sugar Pine									
\$108.12	\$0.56	\$1.24	\$55.02	\$2.93	\$20.14	\$0.00	\$5.00	\$0.00	\$193.01
Ponderosa Pine									
\$108.28	\$0.56	\$1.24	\$55.02	\$2.93	\$20.16	\$0.00	\$5.00	\$0.00	\$193.19
Lodgepole Pine									
\$108.41	\$0.57	\$1.24	\$64.33	\$2.93	\$21.30	\$0.00	\$5.00	\$0.00	\$203.78

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$317.99	\$126.49	\$0.00
Sugar Pine	\$0.00	\$269.08	\$76.07	\$0.00
Ponderosa Pine	\$0.00	\$282.46	\$89.27	\$0.00
Lodgepole Pine	\$0.00	\$270.00	\$66.22	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Willy Nilly
Sale 341-09-20

District: Klamath/Lake

Date: September 30, 2008

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	1,440	\$126.49	\$182,145.60
Sugar Pine	98	\$76.07	\$7,454.86
Ponderosa Pine	1,214	\$89.27	\$108,373.78
Lodgepole Pine	774	\$66.22	\$51,254.28

Gross Timber Sale Value

Recovery: \$349,228.52

Prepared by: Jason Pettigrew

Phone: 541-883-5681

Willy Nilly**341-09-20****Other Costs****Road Maintenance**

Move-in cost (grader):	\$	400.00
Number of Bladings		1
Number of Miles to be Bladed		7.2
Miles / Hour for equipment		0.5
Cost / Hour (grader with operator):	\$	105.50
Total Grading Hours:		14.4
Grading Cost:	\$	1,519.20
Total Cost:	\$	1,919.20
Cost / MBF	\$	0.54

Dust Abatement (Profit & Risk Included)

PP & SP	1312	MBF	37%	Average Load	3900	BF	336	# of Loads
WF	1440	MBF	41%	Average Load	4000	BF	360	# of Loads
LP	775	MBF	22%	Average Load	3400	BF	228	# of Loads
Total:	3,527	MBF					Total Loads	924

Assume:

5	Trucks/Day
3	Trips / Day
15	Loads Per Day

62	Hauling Days
30	Possible # of Summer Haul
3	Hours / Day
\$ 88.00	Cost / Hour
90	Total Hours
\$ 7,920.00	Move-In for Water Truck
\$ 7,920.00	Dust Abatement Cost
\$ 8,090.00	Total Cost
\$ 2.29	Cost / MBF

Assuming a period of operation will occur during the summer haul period.

Brand & Paint (Profit and Risk Included)

62	Hauling Days
1.5	Hours / Day
\$ 24.00	Cost / Hour
\$ 2,232.00	Total Cost
\$ 0.63	Cost / MBF

\$ 1,919.20 **Total Cost for Road Maintenance (\$0.54 / MBF).**

\$ 10,322.00 **Total Cost for Dust Abatement & Branding with P & R included (\$2.92 / MBF)**

Summary of Project Work

Willy Nilly
341-09-20



Project # 1: Road Construction & Improvement	\$ 23,389.00
Project # 2: Felling, yarding, and piling of submerchantable trees and pulp wood	\$ 7,926.00
Project # 3: Road Closures and Waterbars.....	\$ 2,418.00
Project # 4: Sporax Fungicide Application.....	<u>\$ 3,720.00</u>
Total:	\$37,453.00

Willy Nilly**341-09-20****Other Costs**

"STEWARDSHIP IN FORESTRY"

Road Maintenance

Move-in cost (grader):	\$	400.00
Number of Bladings		1
Number of Miles to be Bladed		7.2
Miles / Hour for equipment		0.5
Cost / Hour (grader with operator):	\$	105.50
Total Grading Hours:		14.4
Grading Cost:	\$	1,519.20
Total Cost:	\$	1,919.20
Cost / MBF	\$	0.54

Dust Abatement (Profit & Risk Included)

PP & SP	1,312	MBF	37%	Average Load	3900	BF	336	# of Loads
WF	1,440	MBF	41%	Average Load	4000	BF	360	# of Loads
LP	775	MBF	22%	Average Load	3400	BF	228	# of Loads
Total:	3,527	MBF					Total Loads	924

Assume:

5	Trucks/Day
3	Trips / Day
15	Loads Per Day

62	Hauling Days
30	Possible # of Summer Haul
3	Hours / Day
\$ 88.00	Cost / Hour
90	Total Hours
\$ 170.00	Move-In for Water Truck
\$ 7,920.00	Dust Abatement Cost
\$ 8,090.00	Total Cost
\$ 2.29	Cost / MBF

Assuming a period of operation will occur during the summer haul period

Brand & Paint (Profit and Risk Included)

62	Hauling Days
1.5	Hours / Day
\$ 24.00	Cost / Hour
\$ 2,232.00	Total Cost
\$ 0.63	Cost / MBF

\$ 1,919.20 **Total Cost for Road Maintenance (\$0.54 / MBF).**

\$ 10,322.00 **Total Cost for Dust Abatement & Branding with P & R included (\$2.92 / MBF)**

Willy Nilly

341-09-20
Project Work



Project 1 ~ 20 Road Shaping & Surfacing

Rock Surfacing ~ Delivered

1 1/2" Minus	Rock Size
0.64	Length (Miles)
3400	Length (feet) ~ Points A to B
14	Width (feet)
4	Depth (inches)
15,866.7	Cubic Feet
587.7	Cubic Yards
\$ 16.20	Cost / Yard
1.3	Expansion Factor
764.0	Cubic Yards (Loose)
1.35	Tons/Cubic Yard
1031.33	Tons
43	No. of Belly Dump Loads
\$ 12.00	Price / Ton (Rock \$8.00/ton + \$4.00/ton delivery)
\$ 12,376.00	Total Price

Rock Spreading (Grader)

Number of Bladings	3
Number of Miles to be Bladed	0.6
Miles / Hour for equipment	0.25
Cost / Hour:	\$ 105.50
Total Grading Hours:	7.73
Grading Cost:	\$ 815.23

Construct / Improve Lead Off Ditch (Grader)

No. of Ditches	3
Hours / Ditch	0.5
Total Hours	1.5
Cost / Hour	\$ 105.50
Total	\$ 158.25

Pull Ditches / Shape Road

Feet / Hour	500
Total Feet	3400
Total Hours	6.8
Cost / Hour	\$ 105.50
Total	\$ 717.40

Water Truck to work with Grader

Number of Hours	15.0
Cost / Hour	\$ 88.00
Total	\$ 1,320.00

Road Shaping & Surfacing Cost Summary

Rock Surfacing	\$ 12,376.00
Rock Spreading	\$ 815.23
Ditch Construction	\$ 158.25
Pull Ditches	\$ 717.40
Water Truck	\$ 1,320.00
Total Cost	\$ 15,386.88

Willy Nilly

341-09-20

Project # 1 (Continued) Road Improvement Summary



Move-in cost Dozer \$ 400.00
Move-in cost Grader \$ 400.00
Move-in cost Excavator \$ 400.00

D-6 Dozer (\$106/hour + 26.50/hour for operator)

Road Improvement						
	Points	Distance (feet)	Feet / Hour	Hours	Cost / Hour	Cost
Shape to Drain*	D to I	500	1000	0.500	\$ 132.50	\$ 66.25
Shape to Drain*	I to K	3350	1000	3.4	\$ 132.50	\$ 443.88
Shape to Drain*	I to J	1850	1000	1.9	\$ 132.50	\$ 245.13
Shape to Drain*	L to M	7600	500	15.2	\$ 132.50	\$ 2,014.00
Road Blading	L to M	7600	1000	7.6	\$ 105.50	\$ 801.80
Shape to Drain*	N to O	750	500	1.5	\$ 132.50	\$ 198.75
Install rolling dips	P to Q	750	250	3.0	\$ 105.50	\$ 316.50
				30.0	Total: \$	4,086.30

*Shape to Drain: Crown with drain ditches as needed, outslope as needed, and provide adequate and appropriate ditch outs to drain road surface.

Grader (\$79/hour + \$26.50/hour for operator)

Culvert Outlet Repair				
	Cost / Hour	Hours	Cost	
Point Z	Excavator \$	120.00	16.0	\$ 1,920.00
	Operator \$	26.50	16.0	\$ 424.00
				\$ 2,344.00
One load of road surfacing rock 1 1/2" - to be placed & bladed at Point Z following the completion of culvert outlet repair.				
	18" x 10' culvert	\$	177.00	
	18" band	\$	34.80	
	Labor for Culvert (2 hours * \$30.00/hour)	\$	60.00	
	Water source-cutting/grinding (Fire Season)	\$	100.00	
		\$	371.80	
Total Cost for Culvert Repair: \$ 2,715.80				

Quote from J.W. Kerns,
Klamath Falls, OR.
6/19/08

Willy Nilly

Project Work Continued



Project #2 Fell, Skid, & Pile Submerchantable Material

57.00	Total Subsawlog Volume MBF	16,828	PP Green Pulp (BF)
		3,005	LP Green Pulp (BF)
\$ 50.00	Fell & Skid / MBF	4,207	WF Green Pulp (BF)
\$ 10.00	Sort / MBF	24,040	BF Green Pulp (Variable Plot)
\$ 60.00	Total / MBF	57,000	BF Subsawlog (Fixed Plot)
\$ 3,420.0	Total Cost	81,040	Total Board Feet

Landing Cleanup (included with Project # 2)

35	Number of Landings				
	Shovel Time:	0.5	Hours / Landing	\$ 125.00	Cost / Hour \$ 2,187.50
	Cat Time:	0.5	Hours / Landing	\$ 132.50	Cost / Hour \$ 2,318.75
					Total Cost: \$ 4,506.25

Project #3 Road Closures

	7	Number of Closure Points (C, D, E, F, G, H, and N)
	1	Hours / Point (include travel)
\$ 132.50		Cost / Hour (Cat)
	7	Total Road Blocking Hours
\$ 927.50		Total Cost

	45	Waterbar Installation Locations on Closed Roads
	0.25	Hours / Point (include travel)
\$ 132.50		Cost / Hour (Cat)
\$ 1,490.63		Total Waterbar Hours

Project #4 Sporax Fungicide Treatment

Application Labor (State Provides Sporax Product to Operator)

31	Cutting Days (Assume 8 acres per day to get 12 loads per day production)
5	Hours / Day
\$ 24.00	Cost / Hour
\$ 3,720.00	Cost for Manual Application
\$ 1.05	Cost / MBF

Cost Summary

\$ 23,388.98	Project # 1 ~ Road Construction and Improvement	Other Costs	
\$ 7,926.25	Project # 2 ~ Fell, Skid, & Pile Submerch. Material	\$ 1,919.20	Road Maintenance
\$ 2,418.13	Project #3 ~ Road Closures & Waterbars	\$ 8,090.00	Dust Abatement
\$ 3,720.00	Project #4 ~ Sporax Fungicide Treatment	\$ 2,232.00	Branding
\$ 37,453.35	Total Cost	\$ 12,241.20	Total Cost

Willy Nilly

Cruise Report



SALE NAME: Willy Nilly

LEGAL DESCRIPTION: Portions of Sections 12 & 13 of T33S, R7½E, W.M., Klamath County, Oregon.

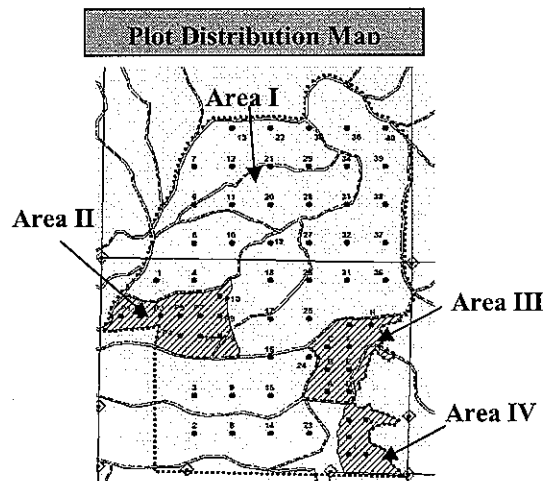
BOUNDARY LINES & SALE POSTINGS:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and orange flagging. Areas II, III, IV are posted with "Area Boundary" signs, marked with fluorescent orange paint, and orange flagging. Required road improvement is flagged with pink and blue and marked with blue paint on cut trees. Project points are posted in the field as marked on the Exhibit A.

FUND: 100% B.O.F.

ACREAGE: The timber sale was delineated into tree marking designations (cut tree versus leave tree) based upon a stand history of pre-commercial thinning. Area I was pre-commercially thinned while Areas II, III, and IV were not.

	<u>Acres</u>
Area I:	503
Area II:	43
Area III & IV:	55
Approximate Sale Acreage:	601 acres



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

TREATMENT:

Area I is a single tree selection cut with cut trees marked in blue paint. Lodgepole pine is marked with orange paint designating leave tree for trees 5 inches and larger.

Areas II, III, and IV are single tree selection cut units with leave trees marked with orange paint for trees 5 inches and larger. All trees less than 5 inches DBH are reserved from cutting on the timber sale area.

All areas utilize group selection, single tree selection, seed tree harvest, and shelterwood to accomplish silvicultural objectives.

Wildlife trees are designated with an orange "W".

CRUISE METHOD:

Variable plot cruise with all plots being measure plots as well as 1/50th acre fixed plot cruise in Areas II, III, and IV for all submerchantable material (5.0" to 8.0"), with all plots being measure plots.

BASAL AREA FACTOR:

Type	BAF	Type Acreage
Areas I, II, III, and IV	14 BAF	601 acres

Full point plots taken, 1/50th acre fixed plots for submerchantable material (5.0" to 8.0" DBH)

PLOT DESIGNATION:

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

SAMPLE SIZE CALCULATIONS:

Timber Sale Area			
	CV %	Desired SE %	Acres
Area I	75	12	503
Area II	38	12	43
Area III & IV	43	12	34

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

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

$$\text{Area I Number of Plots: } \frac{(1)^2 (75)^2}{12^2} = 40 \text{ Plots}$$

Area II Number of Plots: $\frac{(1)^2(38)^2}{12^2} = 10 \text{ Plots}$

Areas III & IV Number of Plots: $\frac{(1)^2(43)^2}{12^2} = 13 \text{ Plots}$

Measurements and Grading:

- DBH and Height were measured on all "in" trees in the plot.
- All plots were 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 8")

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.:

8.0" D.B.H. for sawlog volume. (Must have a minimum of 20 board feet.)
5.0" D.B.H. for pulp volume.

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 office on Atterbury's Super Ace program.

CRUISERS: Ed Scheick and Jason Pettigrew

FINAL CRUISE RESULTS:

Total Sale Area			
Areas I - IV	CV%	SE%	Acres
	85.6	10.8	601

TIMBER DESCRIPTION

Areas I, II, III, & IV Variable Plot	Species	Average DBH	Net Volume (MBF)
	White Fir	17	1,440
	Sugar Pine	14	98
	Ponderosa Pine	14	1,214
	Lodgepole Pine	13	774
Total MBF			3,526

(Volumes taken from Species, Sort Grade -Board Foot Volumes Report)

GREEN PULP VOLUME

This volume was obtained from the variable plot cruise (>8" DBH) and the fixed plot cruise (5.0"-8.0"). All material graded green pulp. See grade table for minimum standards. The summary for green pulp listed below includes all types for the timber sale.

Areas II, III, & IV Fixed	Species	Green Pulp Volume (MBF)
	White Fir	12
	Ponderosa/ Sugar Pine	39
	Lodgepole Pine	6
Total: 57 MBF		

(Volumes taken from Species, Sort Grade -Board Foot Volumes Report)

All Areas Variable	Species	Green Pulp Volume (MBF)
	White Fir	4
	Ponderosa Pine	17
	Lodgepole Pine	3
Total: 24 MBF		

Total Green Pulp Volume: 81 MBF

(Volumes taken from Species, Sort Grade -Board Foot Volumes Report)

PROJECT STATISTICS					PAGE	1					
PROJECT					DATE	7/4/2008					
TC PSTATS		WTP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
32S	7.5	12	ORIGINAL	218			601.00	63	259	1	E
32S	7.5	13	VARIABLE	208							
32S	7.5	13	VARIABLE	209							

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	63	259	4.1		
CRUISE	61	259	4.2	30,319	.9
DBH COUNT					
REFOREST COUNT					
BLANKS	2				
100 %					

This report is the combined statistics of the project. Actual volumes and numbers were split out by cruise area and then summarized to better reflect those areas. Refer to Cruise Report for details.

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
PPINE	110	21.1	14.3	38		23.4	2,068	2,049	512	512
LP PINE	65	16.1	12.7	40		14.2	1,305	1,294	334	334
WHITE F	72	11.1	16.7	54	3	16.9	2,423	2,403	512	512
SUG PINE	12	2.2	13.9	31		2.3	163	163	40	40
TOTAL	259	50.4	14.4	42		56.9	5,959	5,909	1,399	1,399

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.%	LOW	AVG	HIGH	5	10
PPINE		112.8	10.7	127	143	158	
LP PINE		59.6	7.4	85	91	98	
WHITE F		85.7	10.1	299	332	366	
SUG PINE		93.1	28.0	82	113	145	
TOTAL		115.4	7.2	168	181	194	
CL	68.1	COEFF	SAMPLE TREES - CF			# OF TREES REQ.	INF. POP.
SD:	1.0	VAR.%	LOW	AVG	HIGH	5	10
PPINE		90.0	8.6	32	35	38	
LP PINE		49.5	6.1	22	23	25	
WHITE F		76.8	9.0	62	69	75	
SUG PINE		88.7	26.7	22	30	38	
TOTAL		96.1	6.0	39	41	44	
CL	68.1	COEFF	TREES/ACRE			# OF PLOTS REQ.	INF. POP.
SD:	1.0	VAR.%	LOW	AVG	HIGH	5	10
PPINE		150.0	18.9	17	21	25	
LP PINE		207.0	26.1	12	16	20	
WHITE F		188.4	23.7	8	11	14	
SUG PINE		429.3	54.0	1	2	3	
TOTAL		89.8	11.3	45	50	56	
CL	68.1	COEFF	BASAL AREA/ACRE			# OF PLOTS REQ.	INF. POP.
SD:	1.0	VAR.%	LOW	AVG	HIGH	5	10
PPINE		137.7	17.3	19	23	27	
LP PINE		208.2	26.2	10	14	18	
WHITE F		168.2	21.2	13	17	20	
SUG PINE		313.7	39.5	1	2	3	
TOTAL		78.4	9.9	51	57	63	
CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.	INF. POP.
SD:	1.0	VAR.%	LOW	AVG	HIGH	5	10
PPINE		153.7	19.3	1,652	2,049	2,445	
LP PINE		210.3	26.5	952	1,294	1,637	
WHITE F		170.1	21.4	1,888	2,403	2,917	
SUG PINE		357.6	45.0	90	163	236	
TOTAL		85.6	10.8	5,272	5,909	6,545	
CL	68.1	COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.	INF. POP.
SD:	1.0	VAR.%	LOW	AVG	HIGH	5	10
PPINE		146.8	18.5	417	512	606	
LP PINE		208.1	26.2	247	334	422	
WHITE F		170.0	21.4	403	512	622	
SUG PINE		338.5	42.6	23	40	57	
TOTAL		82.7	10.4	1,253	1,399	1,544	

Willy Nilly Cruise Data

Area I					
Type 218					
Species	Camprun BF / Acre	Green Pulp BF/Acre	Acres	Total Board Feet (Camprun Net) MBF	Total Green Pulp (MBF)
White Fir	2545		503	1280.14	
Sugar Pine	156		503	78.47	
Lodgepole Pine	1271		503	639.31	
Ponderosa Pine	2082	20	503	1047.25	10
	6,054	20		3,045	10
Area II					
Type 208					
Species	Camprun BF / Acre	Green Pulp BF/Acre	Acres	Total Board Feet (Camprun Net) MBF	Total Green Pulp (MBF)
Ponderosa Pine	2,820		43	121	
Lodgepole Pine	3,145	76	43	135	3
White Fir	799	93	43	34	4
	6,764	169		291	7
Type 208 (Submerch)					
Species	Green Pulp BF/Acre	Acres	Total Green Pulp (MBF)		
Ponderosa Pine	250	43	11		
Lodgepole Pine	150	43	6		
White Fir	100	43	4		
	500		22		
Area III & IV					
Type 209					
Species	Camprun BF / Acre	Green Pulp BF/Acre	Acres	Total Board Feet (Camprun Net) MBF	Total Green Pulp (MBF)
White Fir	2283		55	126	-
Ponderosa Pine	830	126	55	46	6,930
Sugar Pine	357		55	20	-
	3470			191	
Type 209 (Submerch)					
Species	Green Pulp BF/Acre	Acres	Total Green Pulp (MBF)		
Ponderosa Pine	462	55	25		
Sugar Pine	38	55	2		
White Fir	154	55	8		
			36		

Total Board Feet for Timber Sale

	Camprun Sawlog (BF)	Green Pulp (MBF)
Ponderosa Pine	1,214	36
Lodgepole Pine	775	6
White Fir	1,440	13
Sugar Pine	98	2
	3,527	57

Species, Sort Grade - Board Foot Volumes (Project)

T32S R7.5 S12 Ty218 503.00
T32S R7.5 S13 Ty208 43.00
T32S R7.5 S13 Ty209 55.00

Project: WNILLY
Acres 601.00

Page 1
Date 7/4/2008

				%	Percent of Net Board Foot Volume										Average Log			Logs		
				Net	Bd. Ft. per Acre			Total	Log Scale Dia.				Log Length				Ln	Bd	CF/	Per
Spp	S	So	Gr	Net	Def%	Gross	Net	Net MBF	6-7	8-14	15-22	23+	12-20	21-30	31-35	36-99	Ft	Ft	Lf	/Acre
LP		CR	CR	100	.8	1,299	1,289	775	39	61			12	25	37	25	28	67	0.63	19.1
LP		CR	GP			5	5	3	100				100				11	10	0.27	.5
LP	Totals			22	.8	1,305	1,294	778	39	61			13	25	37	25	27	66	0.62	19.7
WF		CR	CR	100	.8	2,416	2,396	1,440	15	59	26		3	8	83	6	29	134	0.99	17.9
WF		CR	GP			7	7	4	100				100				12	15	0.30	.4
WF	Totals			41	.8	2,423	2,403	1,444	15	59	26		4	8	83	6	29	131	0.98	18.3
PP		CR	CR	99	1.0	2,040	2,020	1,214	27	60	12		16	12	52	20	25	83	0.81	24.4
PP		CR	GP	2		28	28	17	67	33			93	7			15	13	0.32	2.2
PP	Totals			35	.9	2,068	2,049	1,231	28	60	12		17	12	51	19	24	77	0.78	26.6
SP		CR	CR	100		163	163	98	30	56	13		20	13	48	20	23	66	0.71	2.5
SP	Totals			3		163	163	98	30	56	13		20	13	48	20	23	66	0.71	2.5
Totals					0.8	5,959	5,909	3,551	25	60	15		11	13	61	15	26	88	0.79	67.1

Species Table Report

TblSpecies

Table Name: SUNPASS

Code	Abv	Description	Bark Max Ratio	ASub Tree Const	Form BdFt Factor	Wood CuFt Type	Comp- onent	Yield Table	Min				Log				Max				Tree Weight
									Dia	Len	Len	Trim	Dia	Hgt.	Rule	Rule	Dia	Hgt.	Rule	Rule	
1	PP	PPINE	.909	PP	.85	C	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800	C			4800 C
2	WF	WHITE F	.94	NF	.87	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000	C			5000 C
3	LP	LP PINE	.96	DF	.96	C	C	LP--EQUA--100	3	9	20	1.0	99	200	E	1	4800	C			4800 C
4	DF	DOUG-FIR	.92	DF	.87	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5700	C			5700 C
5	SP	SUG PINE	.87	PP	.84	C	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800	C			4800 C
6	IC	INC CED	.90	SS	.8	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	4500	C			4500 C
7	RF	SH RFIR	.924	DF	.89	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000	C			5000 C

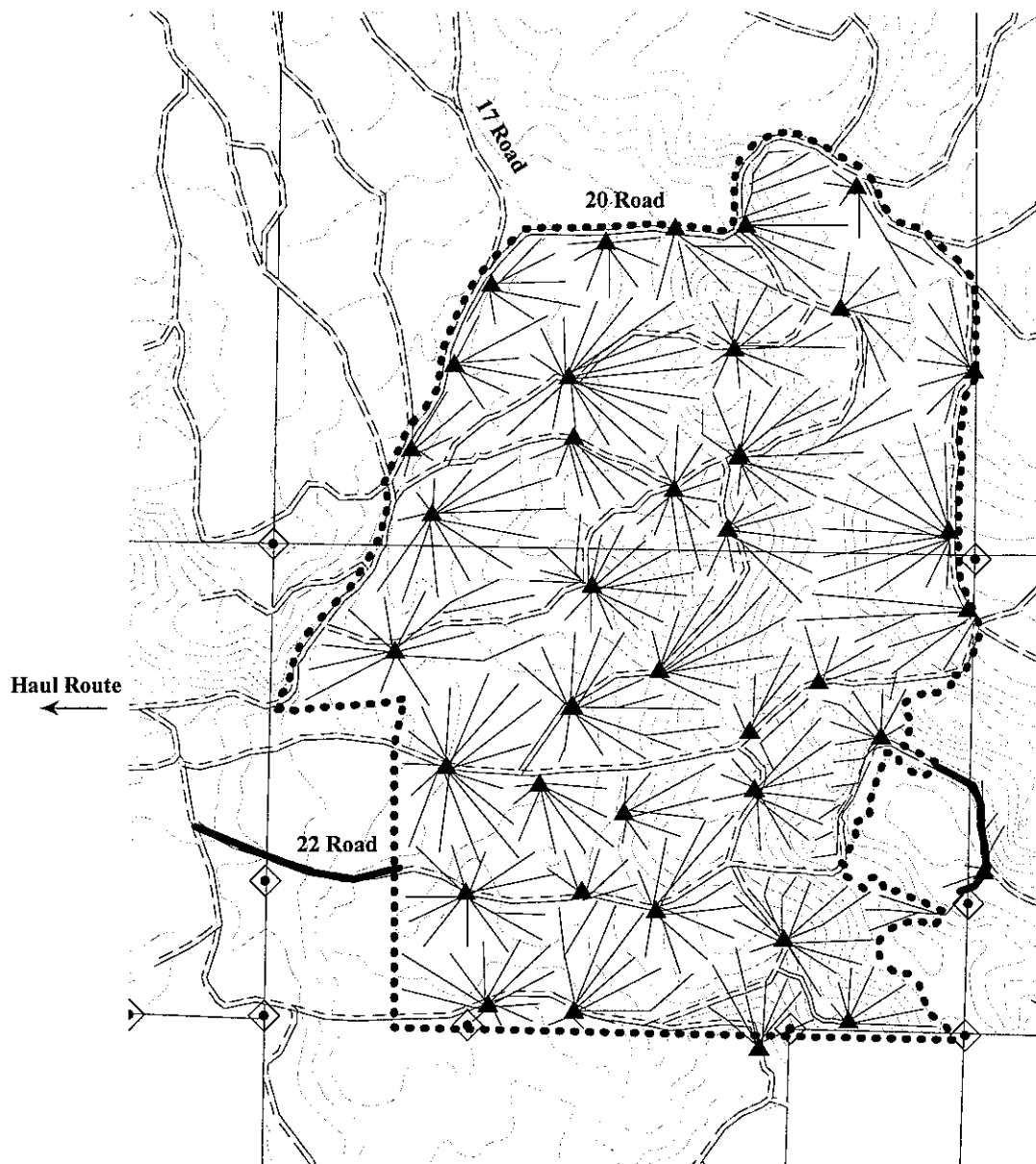
TblSortGrade

Table Name: SUNPASS

Sort/Grade Table

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








LOGGING PLAN
OF TIMBER SALE CONTRACT 341-09-20
WILLY NILLY
PORTIONS OF SECTIONS 12 AND 13, T33S, R7.5E, W.M.,
KLAMATH COUNTY, OREGON



1320 0 1320 2640 Feet

Scale
 1 : 15,840
 1 inch = 1,320 feet

LEGEND

-  Blue Marked Cut Trees (Outside of Sale)
-  Landing
-  Timber Sale Boundary
-  Unsurfaced Roads
-  Section Lines
-  Land Survey Monument
-  Approximate Skid Trail Layout

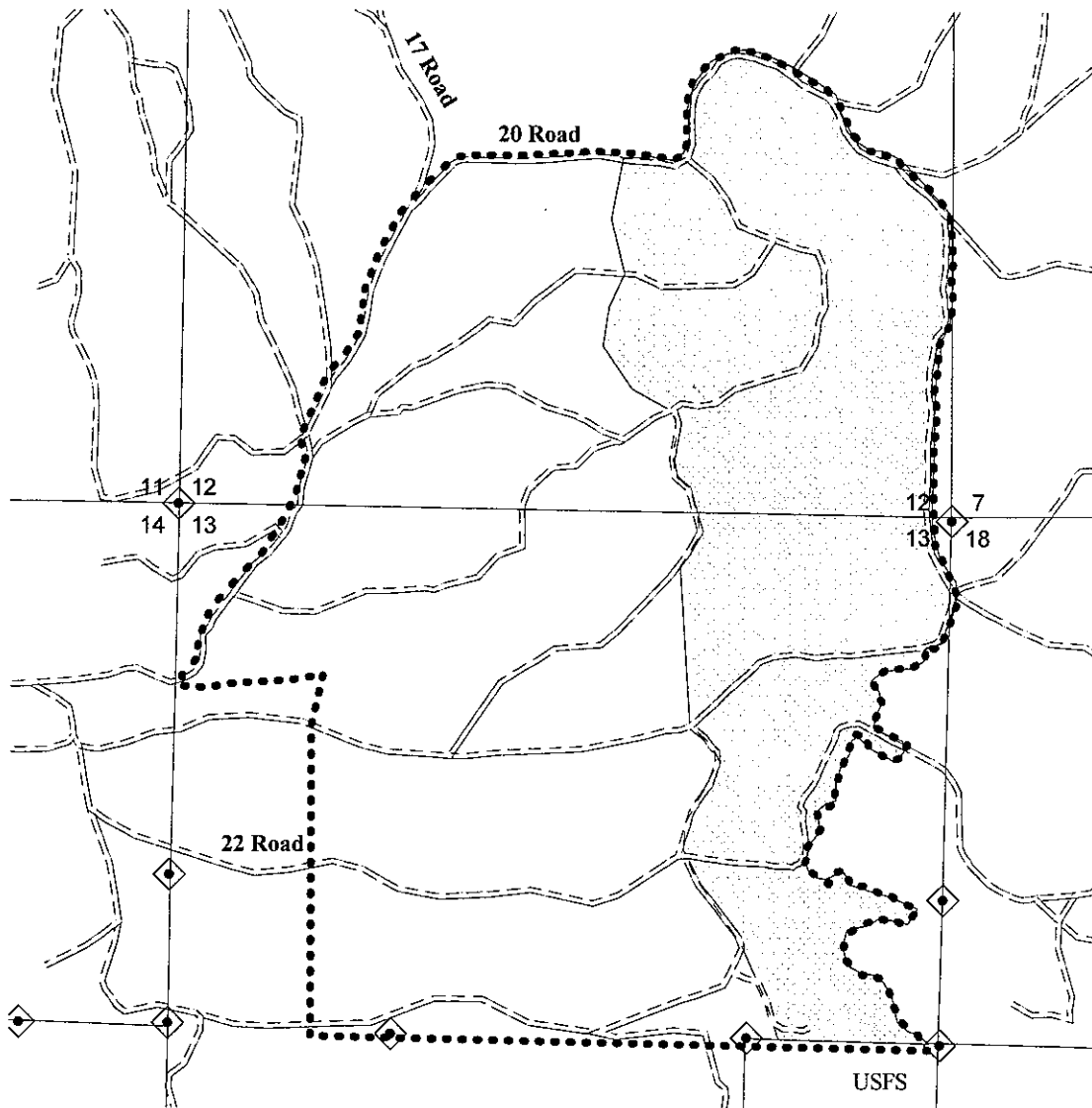
Total Sale Acreage: 601 acres



SPORAX TREATMENT AREA

Page 2 of 2

OF TIMBER SALE CONTRACT 341-09-20
WILLY NILLY
PORTIONS OF SECTIONS 12 AND 13, T33S, R7.5E, W.M.,
KLAMATH COUNTY, OREGON



1320 0 1320 2640 Feet



Scale
1 : 15,840
1 inch = 1,320 feet

LEGEND



Timber Sale Boundary

Unsourced Roads

Section Lines

Land Survey Monument

Sporax Treatment Area

Sporax Treatment Area: Approximately 245 acres

