

Timber Sale Appraisal Cost Summary Dogwood Sale 341-02-56

District: Klamath/Lake

Date: 4/8/02

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$552,823.64	\$0.00	\$552,823.64
is interested in the Medical interested in the contract of the contract of the contract of the contract of the		Project Work	(\$68,360.00)
	£	Advertised Value	\$484,463.64



Timber Sale Appraisal Timber Description Dogwood Sale 341-02-56

"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake

Location: Portions of Sections 17,18,19, & 20, T32S, R7.5E

Date: 4/8/02

Stand Stocking: 40%

Species	Avg. DBH	Amortized%	Recovery%
White Fir	18	0	95
Sugar Pine	22	0	97
Ponderosa Pine	13	0	97
Lodgepole Pine	12	0	95

Volume by Grade	White Fir	Sugar Pine	Ponderosa Pine	Lodgepole Pine	Total
CR 8" - 14"	541	4	547	133	1,225
CR 14" - 22"	592	8	297	0	897
CR 22"+	509	7	54	0	570
Total	1,642	19	898	133	2,692

Comments: Pond Values Used: 1st Quarter 2002 & Local Pond Values

Other Costs (PlusP & R) include: Dust Abatement \$13,896.00 Brand & Paint \$6000.00



Timber Sale Appraisal Logging Conditions Dogwood Sale 341-02-56

"STEWARDSHIP IN FORESTRY"

Combination#: 1

White Fir

16.00%

Sugar Pine

11.00%

Ponderosa Pine

42.00%

Lodgepole Pine

96.00%

Yarding Distance: Medium (800 ft)

Downhill Yarding Yes

Logging System:

Process: Feller Buncher

Tree Size:

Wheel Skidder

Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

Bd. Ft./Load: 3,500

Loads/Day:

12

\$79.86

Cost/MBF: Machines:

Feller Buncher w/ Delimber

Log Loader (B) Stroke Delimber (B)

Tire Skidder

Combination#: 2

White Fir

84.00%

Sugar Pine

89.00%

Ponderosa Pine

Lodgepole Pine

58.00% 4.00%

Yarding Distance: Medium (800 ft)

Downhill Yarding Yes

Logging System:

Wheel Skidder

Process: Manual Falling/Delimbing

Tree Size:

Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day:

12

Cost/MBF:

Bd. Ft./Load: 4,200 \$59.54

Machines:

Log Loader (B)

Tire Skidder



Timber Sale Appraisal Logging Costs Dogwood Sale 341-02-56

Date: 4/8/02

Operating Seasons: 1.0

Profit & Risk: 15%

Project Costs: \$68,360

Other Costs (P/R): \$19,896

Slash Disposal: \$0

Other Costs: \$0

Constitution of the said	Miles of Road
and the same of the same of	Dirt Rock Rock Paved (Contractor) (State)
	0.0 0.0 0.0 0.0

Road Maintenance: \$1.01

Species	S/MBF	Trips/Day	MBF/Load
White Fir	\$0.00	3.0	4.0
Sugar Pine	\$0.00	3.0	3.5
Ponderosa Pine	\$0.00	3.0	3.5
Lodgepole Pine	\$0.00	2.0	3.0

Local Pond Values

Date	Species	Grade	Value
4/8/02	White Fir	Special Cull	\$75.00
4/8/02	White Fir	Utility	\$75.00
4/8/02	White Fir	CR 8" - 14"	\$320.00
4/8/02	White Fir	CR 14" - 22"	\$340.00
4/8/02	White Fir	CR 22"+	\$340.00
4/8/02	Sugar Pine	CR 8" - 14"	\$295.00
4/8/02	Sugar Pine	CR 14" - 22"	\$465.00
4/8/02	Sugar Pine	CR 22"+	\$540.00
4/8/02	Ponderosa Pine	CR 8" - 14"	\$300.00
4/8/02	Ponderosa Pine	CR 14" - 22"	\$470.00
4/8/02	Ponderosa Pine	CR 22"+	\$560.00
4/8/02	Lodgepole Pine	Camprun	\$270.00
4/8/02	Lodgepole Pine	CR 8" - 14"	\$270.00
4/8/02	Lodgepole Pine	CR 14" - 22"	\$270.00
4/8/02	Lodgepole Pine	CR 22"+	\$270.00

4/8/02



Timber Sale Appraisal Logging Costs Breakdown Dogwood Sale 341-02-56

Costs	White Fir	Sugar Pine	Pondero sa Pine	Lodgepole Pine
Logging	62.79	61.78	68.07	79.05
Road Maintenance	1.06	1.04	1.04	1.06
Fire Protection	1.01	1.01	1.01	1.01
Hauling	40.37	45.15	45.15	80.84
Other (P/R appl.)	7.39	7,39	7.39	7.39
Profit & Risk	16.89	17.46	18.40	25.40
Slash Disposal	0.00	0.00	0.00	0.00
Scaling	2.00	2.00	2.00	2.00
		 	 	

Amortization	0.00	0.00	0.00	0.00
Pond Value	333.41	456.84	371.86	270.00
Stumpage	201.90	321.01	228.80	73.25
Amortized	0.00	0.60	0.00	0.00

0.00

135.83

0.00

143.06

0.00

196.75

0.00

131.51

Other

Total



Timber Sale Appraisal Summary Dogwood Sale 341-02-56

Amortized

	White Fir	Sugar Pine	Ponderosa Pine	Lodgepole Pine
MBF	0.00	0.00	0.00	0.00
Value	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Unamortized

	White Fir	Sugar Pine	Pondero sa Pine	Lodge pole Pine
MBF	1,642.00	19.00	898.00	133.00
Value	201.90	321.01	228.80	73.25
Total	331,519.80	6,099.19	205,462.40	9,742.25

Gross Timber Sale Value

Recovery \$552,823.64

Prepared by: Jason Pettigrew

Date: 4/8/02

District: Klamath/Lake

Phone: (541) 883-5681

Summary of Project Work



Project # 1: Road Improvement\$49	,026.00
3 Road Reshaping & Surfacing New Construction Road Reconstruction	
Project # 2: Felling, yarding, and piling of submerchantable trees and pulp wood \$ 10	6,661.00
Project # 3: Tractor Piling of Slash	,655.00
Project # 4 : Road Closures	.018.00

Total: \$ 68,360.00

Dogwood Cruise Report



SALE NAME: Dogwood

LEGAL DESCRIPTION: T32S., R7.5E., Portions of Sections 17, 18, 19, & 20.

BOUNDARY LINES:

Unit boundary is posted with "Timber Sale Boundary" signs, marked fluorescent orange paint and fluorescent orange flagging. Area II is posted with "Area II Boundary" signs, marked with fluorescent orange paint, and fluorescent orange flagging. Harvest exclusions (2) are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging.

Required road construction is posted with orange "Right of Way Boundary" signs.

FUND: 100% B.O.F.

ACREAGE:

Area I:	234 acres 11 acres
Alca II.	11 acres
Approximate Sale Acreage:	245 acres

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

TREATMENT:

Area I is a selection cut, leave tree marked with orange paint. Area II is a cut tree marked in blue paint. Wildlife trees are designated with an orange "W".

CRUISE METHOD:

The sale area is comprised of two areas. Area I was a variable plot cruise with all the plots being measure plots. Fixed plot cruise for all submerchantable material (5.0" to 8.0"), with all plots being measure plots. Area II was a 100% cruise with every blue marked cut tree cruised (14 total trees).

BASAL AREA FACTOR: 14

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. White flagging with the corresponding plot number was attached to the plot center to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

and a facility of the last		CV %	Desired SE %	Acres
	Area I	115	15	234

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

Number of Plots =
$$(\frac{1)^2(115)^2}{15^2}$$
 = 59 Plots (Took 61 plots)

$$\frac{(234 \text{ acres})(43,560 \text{ feet}^2/\text{acre})}{60 \text{ Plots}} = 412 \text{ feet}$$

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 on Atterbury's Super Ace program.

CRUISERS: Ed Scheick, Jason Pettigrew

FINAL CRUISE RESULTS:

CV% = 102SE% = 13.0

TIMBER DESCRIPTION

	Species	Average O DBH	Gross Volume N (MBF)	let Volume (MBF)
Areal	White Fir	18	1,653	1,63
	Sugar Pine	22	19	1
100	Ponderosa Pine	13	910	89
	Lodgepole Pine	22	135	13
				2,68
100	W			
Area II	White Fir	24	9	
	Ponderosa Pine	22	2	
				1
			Total MBF	2,69

(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. Area II does not contain a green pulp volume.

	Species	Average DBH	Gross Volume (MBF)	Net Volume (MBF)
Area I	White Fir	6.3	71	71
Fixed Plot	Ponderosa Pine	6.6	132	132
	Lodgepole Pine	6.6	33	33
				23
AreaI	White Fir		5	5
Variable Plot	Ponderosa Pine		33	33
	Lodgepole Pine		8	8
			* Total MBF	46 282

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

TC	PSPCSTGR		Sı	pecies,	Sort (Grade - Bo	ard	Foot	t Vo	lum	es (Pı	rojec	t)					
T32	R7 S20 Ty1	03	23	34.00		Project: Acres		234.0		Are	a 1]	Rage Date Time	1/7/200 1:43:2	2
-		%			·		Per	cent o	f Net	Board	Foot V	olume/	;		P	verage	Log	Logs
	S So Gr	Net		t. per Acı	re	Total	Log S	Scale 1	Dia.			Log L	ength		Ln	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-14	15-21	22+	12-20	21-30	31-35	36-99	Ft	Ft	Lf	/Acre
PP	? ?														7		0.00	5.3
PP	? CR	33	1.5	3,889	3,829	896	ł	60	33	6	19	12	64	4	23	88	0.79	43.3
PP	? GP	1		140	140	33	85	15			59	30	11		20	19	0.27	7.2
PP	? DP	0		8	8	2	100					100		,	30	30	0.40	.3
PP	Totals	34	1.5	4,037	3,977	931	3	59	32	6	20	13	62	4	21	71	0.69	56.1
LP LP LP	? ? ? CR CR GP	5 0	1.4	577 34	569 34	133 8	69	100 31			16 31	34	35	15 69	8 24 31	54 57	0.00 0.59 0.44	1.3 10.5 .6
LP	Totals	5	1.3	611	603	141	4	96			17	32	33	18	23	49	0.56	12.4
WF WF WF	? ? ? CR ? GP	60 0	1.1	7,066 23	6,987 23	1,635 5	100	33	36	31	7 27	7 73	85	1	7 27 23	219 20	0.00 1.43 0.26	4.4 31.9 1.2
WF	Totals	60	1.1	7,089	7,009	1,640	0	33	36	31	7	8	85	1	24	187	1.35	37.5
SP SP	? ? ? CR	1	2.8	82 82	79 79	19		20	41	39	8	12	80		7 24 18	227	0.00 1.67	.2 .4
Tota	ıls		1.3	11,819	11,669	2,731	1	45	33	21	12	11	75	3	22	110	0.93	106.5

	PSPCSTGR R7 S20 Ty1	03		1.00		Project:	D	OG 1.0	<u> </u>	A.	Yh.	11	•			Page Date	1 1/7/200	
		%			 	†	Pe	ercent				/olume				rime verage	2:23:10 Log	6PM Logs
Spp	S So Gr Trt ad	Net BdFt	Bd. F	t. per Ac Gross		Total Net MBF	Log 4-5	Scale 6-14	Dia. 15-21	22+		Log L 21-30			Ln Ft	Bd Ft	CF/ Lf	Per /Acre
PP PP	CR CU CR CR	22	1,2	2,430	2,400		2	40	60		19	18	53	10	3 27	200	0.00 1.38	5. 12.
PP	Totals	22	1.2	2,430	2,400		2	40	60		19	18	53	10	20	141	1.32	17.
WF WF_	CR CU CR CR	78	.2	8,590	8,570		9	17	50	33	2	12	82_	4	9 30	343	0.00 1.96	1. 25.
WF	Totals	78	.2	8,590	8,570		9	17	50	33	2	12	82	4	29	330	1.94	26.
Tota	ıls		0.5	11,020	10,970	1	1	22	52	25	6	13	76	5	25	255	1.75	43.

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TblSortGrade

Sort/Grade Table

Table Name: KLAMATH

Date: 6/27/01

Abr	Desc										Min Ring			Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
CU	CULL	G	ı	0	0	1	0	0	0		0	0	0			0	()	0	
CR	CAMPRU	N G	6	0	0	10	0	0	0		0	0	0			0	()	0	
GP	GRNPULP	G	3	0	0	10	0	0	0		0	0	0			0	()	0	
DP	DEADPUL	JG	3	0	0	10	0	. 0	0		0	0	0			0)	0	
UT	UTILITY	G	8	0	0	12	0	0	0		0	0	0			0)	0	
CR	CAMPRU	N G	1	0	0	1	0	0	0		0	0	0			0	()	0	
	CU CR GP DP UT	CU CULL CR CAMPRUI GP GRNPULP DP DEADPUL UT UTILITY	Abr Desc Fbr CU CULL G CR CAMPRUN G GP GRNPULP G DP DEADPULI G UT UTILITY G	Abr Desc Fbr Dia CU CULL G 1 CR CAMPRUN G 6 GP GRNPULP G 3 DP DEADPULI G 3	Abr Desc Fbr Dia Dia CU CULL G 1 0 CR CAMPRUN G 6 0 GP GRNPULP G 3 0 DP DEADPULI G 3 0 UT UTILITY G 8 0	Abr Desc Fbr Dia Dia Butt CU CULL G 1 0 0 CR CAMPRUN G 6 0 0 GP GRNPULP G 3 0 0 DP DEADPULI G 3 0 0 UT UTILITY G 8 0 0	Abr Desc Fbr Dia Dia Butt Len CU CULL G 1 0 0 1 CR CAMPRUN G 6 0 0 10 GP GRNPULP G 3 0 0 10 DP DEADPULI G 3 0 0 12 UT UTILITY G 8 0 0 12	Abr Desc Fbr Dia Dia Butt Len Len CU CULL G 1 0 0 1 0 CR CAMPRUN G 6 0 0 10 0 GP GRNPULP G 3 0 0 10 0 DP DEADPULI G 3 0 0 10 0 UT UTILITY G 8 0 0 12 0	CU CULL G I 0 0 1 0 0 CR CAMPRUN G 6 0 0 10 0 0 GP GRNPULP G 3 0 0 10 0 0 DP DEADPULI G 3 0 0 10 0 0 UT UTILITY G 8 0 0 12 0 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol CU CULL G 1 0 0 1 0 0 0 CR CAMPRUN G 6 0 0 10 0 0 0 GP GRNPULP G 3 0 0 10 0 0 0 DP DEADPULI G 3 0 0 10 0 0 0 UT UTILITY G 8 0 0 12 0 0 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type CU CULL G 1 0 0 1 0 0 0 CR CAMPRUN G 6 0 0 10 0 0 0 GP GRNPULP G 3 0 0 10 0 0 0 DP DEADPULI G 3 0 0 12 0 0 0 UT UTILITY G 8 0 0 12 0 0 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring CU CULL G 1 0 0 1 0 0 0 0 CR CAMPRUN G 6 0 0 10 0 0 0 0 GP GRNPULP G 3 0 0 10 0 0 0 0 DP DEADPULI G 3 0 0 10 0 0 0 0 UT UTILITY G 8 0 0 12 0 0 0 0 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size CU CULL G 1 0 0 1 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq CU CULL G 1 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str CU CULL G 1 0 <td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap CU CULL G 1 0<</td> <td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age CU CULL G 1 0</td> <td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs CU CULL G 1 0 <t< td=""><td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs Type CU CULL G 1 0</td><td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs Type Cords CU CULL G 1 0</td></t<></td>	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap CU CULL G 1 0<	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age CU CULL G 1 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs CU CULL G 1 0 <t< td=""><td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs Type CU CULL G 1 0</td><td>Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs Type Cords CU CULL G 1 0</td></t<>	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs Type CU CULL G 1 0	Abr Desc Fbr Dia Dia Butt Len Len Defect Vol Type Ring Size Freq Str Sap Age Lbs Type Cords CU CULL G 1 0

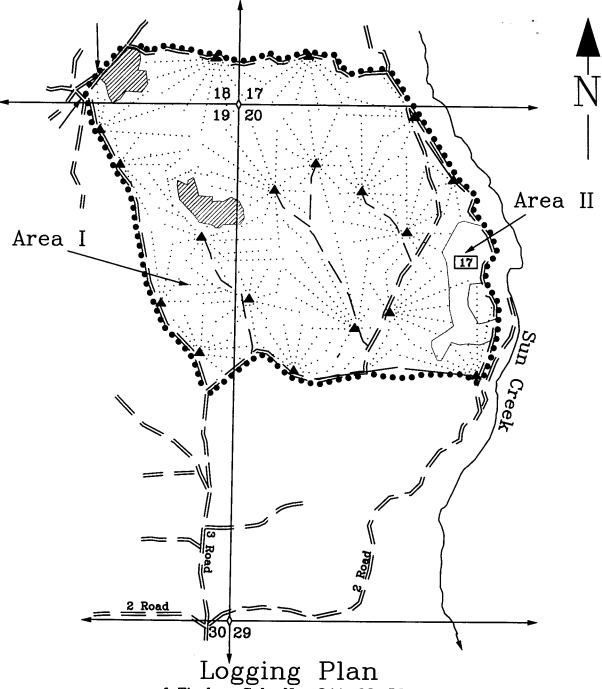
Species Table Report

TblSpecies

Table Name: KL SPECIES

Date: 6/27/01 Page: 1

Cod	Abrv	Description	Bark Ratio	ASubo Const	Form Factor		Component	Yield Table	Min Log Dia	Min Log Len	Max Log Len	Log Trim		Max Tree Hgt.	BdFt Rule	CuFt Rule	Weight
1	PP	P PINE	.87	PP	.85	С	С	PPEQUA100	3	9	20	1.0	99	200	E	1	LB M
2	WF	WHITE F	.94	NF	.87	С	C	DFEQUA050	3	9	20	1.0	99	200	E	1	LB M
3	LP	LP PINE	.96	DF	.9	С	С	LPEQUA100	3	9	20	1.0	99	200	E	1	LB M
5	SP	SUG PINE	.87	PP	.84	С	С	PP-EQUA-100	3	9	20	1.0	99	200	E	1	LB M
6	IC	INC CED	.90	SS	.8	С	C	DFEQUA050	3	9	20	1.0	99	200	E	1	LB M



Logging Plan
of Timber Sale No. 341-02-56
Dogwood

Portions of Sections 17, 18, 19, & 20, T32S, R7.5E, W.M. Klamath County, Oregon

	Legend		Area I	234 acres
••••	Timber Sale Boundary		M Ca 1	SOT ACIES
	Section Line		Area II	11 acres
◊	Known Land Survey Corner	Approximate	Sale Acreage	245 acres
	Surfaced Existing Road			
= =	Unsurfaced Existing Road		APPROX. SCALE 1"	= 1,000'
	Unsurfaced Road (Construction	Required)	p' 1000'	2000'
	Type F Stream	- '		
	Timber Harvest Exclusion Area			
• • • • • • • • • • • • • • • • • • • •	Skid Trail	1	PREPARED BY: Jason	Pettigrew
17	Number of Marked Trees			-
A	Landing			