

District: Klamath/Lake Date: August 26, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$58,026.16	\$0.00	\$58,026.16
		Project Work:	\$0.00
		Advertised Value:	\$58,026.16



"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake Date: August 26, 2014

timber description

Location: Portions of Section 11, T41S, R5E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Ponderosa Pine	19	0	95

Volume by Grade	CR 14" -	CR 6" - 8	CR 8" - 1	Total
Douglas - Fir	15	23	53	91
Ponderosa Pine	68	73	215	356
Total	83	96	268	447

comments: Pond Values Used: 2nd 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 and Painting: \$360

Dust Abatement: \$1,930

TOTAL Other Costs (with Profit & Risk to be added) = \$2,290

Other Costs (No Profit & Risk added):

None



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Pokegama Salvage Sale 343-15-808

District: Klamath/Lake Date: August 26, 2014

logging conditions

combination#: 1 Douglas - Fir 60.00%

Ponderosa Pine 40.00%

yarding distance:Medium (800 ft)downhill yarding:Yeslogging system:Wheel SkidderProcess:Feller Bunchertree size:Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBFloads / day:8.0bd. ft / load:4,200

cost / mbf: \$98.83

machines: Log Loader (B)

Stroke Delimber (B)

Feller Buncher w/ Delimber

Tire Skidder

combination#: 2 Douglas - Fir 40.00%

Ponderosa Pine 60.00%

yarding distance: Medium (800 ft) downhill yarding: Yes

logging system: Track Skidder Process: Manual Falling/Delimbing 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



"STEWARDSHIP IN FORESTRY"

District:

Timber Sale Appraisal Pokegama Salvage Sale 343-15-808

Klamath/Lake Date: August 26, 2014

logging costs

Operating Seasons: 1.00 Profit Risk: 15.00%

Project Costs: \$0.00 **Other Costs (P/R):** \$2,290.00

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

Miles of Road

Road Maintenance: \$4.67

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	4.2
Ponderosa Pine	\$0.00	2.0	4.4

Local Pond Values

Date	Specie	Grade	Value
8/26/14	Douglas - Fir	CR 6" - 8"	\$440.00
8/26/14	Douglas - Fir	CR 8" - 14"	\$445.00
8/26/14	Douglas - Fir	CR 14" - 22"	\$450.00
8/26/14	Ponderosa Pine	CR 6" - 8"	\$280.00
8/26/14	Ponderosa Pine	CR 8" - 14"	\$325.00
8/26/14	Ponderosa Pine	CR 14" - 22"	\$380.00



"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake Date: August 26, 2014

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - \$89.57	Fir \$4.90	\$9.81	\$84.79	\$5.12	\$29.13	\$0.00	\$5.00	\$0.00	\$228.32
Ponderos \$84.95	a Pine \$4.90	\$9.81	\$80.92	\$5.12	\$27.86	\$0.00	\$5.00	\$0.00	\$218.56

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$444.56	\$216.24	\$0.00
Ponderosa Pine	\$0.00	\$326.28	\$107.72	\$0.00



"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake Date: August 26, 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	91	\$216.24	\$19,677.84
Ponderosa Pine	356	\$107.72	\$38,348.32

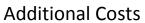
Gross Timber Sale Value

Recovery: \$58,026.16

Prepared by: Ed Scheick Phone: 541-883-5681

Pokegama Salvage 343-15-808







		Additiona	1 00313		"STEWARDSHIP IN FORESTRY"	
		Road Maint	enance			
	Move-in cost (grader):	\$400.00				
Numbe	r of Miles to be Bladed:	8.0				
	Number of Bladings:					
	s / Hour for equipment:					
Cost / Hour	(grader with operator):					
	Total Grading Hours:					
	Grading Cost:					
	Total Cost:		•			
	Cost / MBF:	\$4.67				
	Brand & Paint	(Profit and Risk	to be added in Apprais	al)		
10 Hauling Day	ys					
1.5 Hours/Day						
\$24.00 Cost/Hour						
\$360.00 Total Cost						
\$0.81 Cost/MBF						
			to be added in Apprais	•		
	356 MBF	80%	Average Load		No. of Loads	81
DF	91 MBF	20%	Average Load	4.2 MB	No. of Loads	22
Total:	447 MBF				Total Loads	103
Assume:	5 Trucks/Day					
	2 Trips/Day		Days of Dust Abateme	nt		
	10 Loads per Day		Hours/Day			
	10 Hauling Days		Cost/Hour			
			Total Hours			
			Move in for Water Tru	ck		
			Dust Abatement Cost			
			Total Cost			
			Cost/MBF			
	40.00.00	Other Costs S	ummary			
Log Branding and Painting:	\$360.00					
Dust Abatement	\$1,930.00					
Total Cost:	\$2,290.00					

POKEGAMA SALVAGE



343-15-808 Cruise Report

SALE NAME: Pokegama

LEGAL DESCRIPTION: T41S, R5E, Portion of Section 11.

BOUNDARY LINES:

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

FUND: 100% BOF

ACREAGE:

Total sale acreage is 65 acres. Powerline R/W acres and group selection acres from previous sale were deducted from the total gross acres (80). Acreage was determined using district GIS data.

TREATMENT:

The entire timber sale is a salvage within the Oregon Gulch fire of August 2014. Cut trees are all unmarked Ponderosa pine and Douglas fir greater than 10 inches dbh, and contain a log segment that meets or exceeds both of the following requirements: 6 inches in gross scaling diameter, containing 20 board feet (net). Approximately 75 green Ponderosa pine trees were marked with orange paint after the fire, and are reserved from cutting. All Incense cedar and Oak are also reserved from cutting. All wildlife trees and snags marked with an orange "W" are reserved from cutting.

CRUISE METHOD:

Variable Plot cruise with a ratio of 1.5 measure plot for every count plot.

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Entire Sale Area	14 BAF	65 acres

Full point plots taken.

PLOT DESIGNATION:

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

SAMPLE SIZE CALCULATIONS:

Po	kegama Tir	nber Sale	
	CV %	Desired SE %	Acres
Total Sale Area	75	15	65

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

Total Sale Number of Plots:
$$\frac{(1)^2(75)^2}{15^2} = 25 \text{ Plots}, \text{ Took 26}.$$

Measurements and Grading:

- DBH and Height were measured on all "in" trees in the measure plots.
- Ratio of 1.5 measure plot for every count plot.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

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" D.B.H. (Must have a minimum of 20 board feet.)

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, Sarah Stack.

FINAL CRUISE RESULTS:

Po	kegama Ti	mber Sale	
	CV %	SE %	Acres
Total Sale Area	50	9.7	65

TIMBER DESCRIPTION

	Species	Average DBH	Gross Volume (MBF)	Net Volume (MBF)
Total Sale Area	Ponderosa Pine	18.7	358	356
	Douglas Fir	16.2	93	91
		•	•	
		Total MB	F	447

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

TC	TLC	OGSTV	В					Lo	g Stoc	k Tal	ole - M	BF									
								Pre	oject:		PKG	MASA	L								
T041	l R	005 S	511	TVA	RI												T04	1 R005	S11 TV	ARI	
Twp		Rge	e	S	ec	Trac	t		Туре		Acres	J	Plots	Samp	le Trees	S		Page	1	.04.4	
041		005	5	1	11	600			VARI		65.	00	26		67			Date Fime	8/25/2 11:55	014 :42AM	
	S	So G	r	Log	G	Fross	%	Net	%			Net Vol	ume by	Scaling	Diamet	er in Inc	ches				
Spp	T	rt de	e	Len	N	MBF	Def	MBF	Spc	2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	17		15		15	4.1			13		2							
PP		CR	CR	26		18		18	4.9			18									
PP		CR	CR	34		326	.5	324	91.0			43	53	75	85	44	15	9			
PP			Tota	als		358		356	79.7			73	53	77	85	44	15	9			
DF		CR	CR	17		13	5.9	12	13.5			5	3		5						
DF		CR	CR	26		10		10	10.8			7	2								
DF		CR	CR	34		71	2.7	69	75.7			11	15	14	15	9	6	5			
DF			Tota	als		93	2.8	91	20.3			23	19	14	20	9	6	5			
Total A	411 S ₁	pecies				451		447	100.0			96	73	90	105	52	21	9			

TC TSTA	ATS				ST PROJEC	TATIST	ICS PKGMASAI			PAGE DATE {	1 8/25/2014
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041	005	11 600			VARI	1101	65.00	26	109	1	E
			-							•	
				,	TREES		ESTIMATED FOTAL		RCENT MPLE		
		PLOTS	TREES		PER PLOT		TREES		REES		
TOTA	L	26	109		4.2						
CRUIS	SE	15	67		4.5		2,102		3.2		
DBH (COUNT										
REFO	REST										
COUN		10	42		4.2						
BLAN		1									
100 %				STAN	ID SUMM	A DV					
		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	47	23.2	18.7	61	10.2	44.0	5,502	5,476	1,141	1,141
DOUG	3-FIR	20	9.2	16.2	45	3.3	13.1	1,438	1,397	322	322
TOTA	L	67	32.3	18.0	57	13.5	57.1	6,940	6,874	1,463	1,463
CONI		LIMITS OF THE		LUME WIL	L BE WIT	HIN THE S	AMPLE ERR	OR			
CL:	68.1 %	COEFF			SAMPLE	TREES -	BF	# (OF TREES I	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC	OW 250	AVG	HIGH		5	10	15
SD: PPINE	3	60.2	8.8	LO	269	295	321		5	10	15
SD:	E G-FIR			LC					5 170	10	15
SD: PPINE DOUG	E G-FIR	60.2 77.7	8.8 17.8	LC	269 180 251	295 219 272	321 258 294	# (170	43	19
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SD: PPINE DOUG TOTA CL: SD: PPINE DOUG TOTA	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 68.1 % 1.0 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 % 68.1 %	60.2 77.7 65.2 COEFF VAR.% 52.0 66.8 56.1 COEFF VAR.% 62.1 156.5 54.6 COEFF VAR.% 55.6 123.0 44.3 COEFF VAR.% 60.7 117.2	8.8 17.8 8.0 S.E.% 7.6 15.3 6.9 S.E.% 12.4 31.3 10.9 S.E.% 11.1 24.6 8.9 S.E.%	ro ro	269 180 251 SAMPLE DW 56 41 53 TREES/A DW 20 6 29 BASAL A DW 39 10 52 NET BF/ DW 4,811 1,070	295 219 272 2TREES - AVG 60 49 57 ACRE AVG 23 9 32 AREA/ACE AVG 44 13 57 ACRE AVG 5,476 1,397	321 258 294 CF HIGH 65 56 61 HIGH 26 12 36 RE HIGH 49 16 62 HIGH 6,141 1,725	#(170 DF TREES F 5 126 DF PLOTS F 5 124 DF PLOTS F 5 82 DF PLOTS F 5	32 REO. 10 31 REO. 10 20 REO. 10	19 INF. POP. 15 14 INF. POP. 15 9 INF. POP. 15
SD: PPINE DOUG TOTA CL: SD: PPINE DOUG TOTA	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 68.1 % 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0	60.2 77.7 65.2 COEFF VAR.% 52.0 66.8 56.1 COEFF VAR.% 62.1 156.5 54.6 COEFF VAR.% 55.6 123.0 44.3 COEFF VAR.% 60.7 117.2 48.6	8.8 17.8 8.0 S.E.% 7.6 15.3 6.9 S.E.% 12.4 31.3 10.9 S.E.% 11.1 24.6 8.9 S.E.%	ro ro	269 180 251 SAMPLE DW 56 41 53 TREES/A DW 20 6 29 BASAL A DW 39 10 52 NET BF/ DW 4,811 1,070 6,206	295 219 272 2TREES AVG 60 49 57 ACRE AVG 23 9 32 AREA/ACE AVG 44 13 57 ACRE AVG 6,874	321 258 294 CF HIGH 65 56 61 HIGH 26 12 36 RE HIGH 49 16 62 HIGH 6,141 1,725 7,542	#(170 DF TREES F 5 126 DF PLOTS F 5 124 DF PLOTS F 5 82 DF PLOTS F 5	32 REO. 10 31 REO. 10 20 REO. 10 25	19 INF. POP. 15 14 INF. POP. 15 9 INF. POP. 15 11
SD: PPINE DOUG TOTA CL: SD: CL: CL: CL: CL: CL: CL: CL: 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 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 %	60.2 77.7 65.2 COEFF VAR.% 52.0 66.8 56.1 COEFF VAR.% 62.1 156.5 54.6 COEFF VAR.% 55.6 123.0 44.3 COEFF VAR.% 60.7 117.2 48.6 COEFF	8.8 17.8 8.0 S.E.% 7.6 15.3 6.9 S.E.% 12.4 31.3 10.9 S.E.% 11.1 24.6 8.9 S.E.% 12.1 23.5 9.7	I.C.	269 180 251 SAMPLE DW 56 41 53 TREES/A DW 20 6 29 BASAL A DW 39 10 52 NET BF/ DW 4,811 1,070 6,206 NET CUI	295 219 272 2TREES AVG 60 49 57 ACRE AVG 23 9 32 AREA/ACE AVG 44 13 57 ACRE AVG 6,874 ET FT/ACI	321 258 294 CF HIGH 65 56 61 HIGH 26 12 36 RE HIGH 49 16 62 HIGH 6,141 1,725 7,542 RE	#(170 DF TREES F 5 126 DF PLOTS F 5 82 DF PLOTS F 5 98 DF PLOTS F	32 REO. 10 31 REO. 10 20 REO. 10 25 REO.	19 INF. POP. 15 14 INF. POP. 15 9 INF. POP. 15 11 INF. POP.
SD: PPINE DOUG TOTA CL: SD: CL: SD: PPINE DOUG TOTA	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 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0	60.2 77.7 65.2 COEFF VAR.% 52.0 66.8 56.1 COEFF VAR.% 62.1 156.5 54.6 COEFF VAR.% 55.6 123.0 44.3 COEFF VAR.% 60.7 117.2 48.6 COEFF VAR.%	8.8 17.8 8.0 S.E.% 7.6 15.3 6.9 S.E.% 12.4 31.3 10.9 S.E.% 11.1 24.6 8.9 S.E.% 12.1 23.5 9.7	r(269 180 251 SAMPLE DW 56 41 53 TREES/A DW 20 6 29 BASAL A DW 39 10 52 NET BF/ DW 4,811 1,070 6,206 NET CUIDOW	295 219 272 2TREES AVG 60 49 57 ACRE AVG 23 9 32 AREA/ACE AVG 44 13 57 ACRE AVG 60,49 57 ACRE AVG 60,49 57 ACRE AVG 60 60 49 57 ACRE AVG 64 13 57 ACRE AVG 5,476 1,397 6,874 ET FT/ACI AVG	321 258 294 CF HIGH 65 56 61 HIGH 26 12 36 RE HIGH 49 16 62 HIGH 6,141 1,725 7,542 RE HIGH	#(170 DF TREES F 5 126 DF PLOTS F 5 124 DF PLOTS F 5 82 DF PLOTS F 5	32 REO. 10 31 REO. 10 20 REO. 10 25	19 INF. POP. 15 14 INF. POP. 15 9 INF. POP. 15 11
SD: PPINE DOUG TOTA CL: SD: CL: CL: CL: CL: CL: CL: CL: 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 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 68.1 % 68.1 % 68.1 % 68.1 %	60.2 77.7 65.2 COEFF VAR.% 52.0 66.8 56.1 COEFF VAR.% 62.1 156.5 54.6 COEFF VAR.% 55.6 123.0 44.3 COEFF VAR.% 60.7 117.2 48.6 COEFF	8.8 17.8 8.0 S.E.% 7.6 15.3 6.9 S.E.% 12.4 31.3 10.9 S.E.% 11.1 24.6 8.9 S.E.% 12.1 23.5 9.7	r(269 180 251 SAMPLE DW 56 41 53 TREES/A DW 20 6 29 BASAL A DW 39 10 52 NET BF/ DW 4,811 1,070 6,206 NET CUI	295 219 272 2TREES AVG 60 49 57 ACRE AVG 23 9 32 AREA/ACE AVG 44 13 57 ACRE AVG 6,874 ET FT/ACI	321 258 294 CF HIGH 65 56 61 HIGH 26 12 36 RE HIGH 49 16 62 HIGH 6,141 1,725 7,542 RE	#(170 DF TREES F 5 126 DF PLOTS F 5 82 DF PLOTS F 5 98 DF PLOTS F	32 REO. 10 31 REO. 10 20 REO. 10 25 REO.	19 INF. POP. 15 14 INF. POP. 15 9 INF. POP. 15 11 INF. POP.