



"STAND FOR THE FOREST"

Timber Sale Appraisal 3-Way

Sale KL-341-2015-12-

District: Klamath/Lake

Date: March 30, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$267,268.88	\$0.00	\$267,268.88
		Project Work:	(\$15,051.00)
		Advertised Value:	\$252,217.88



Timber Sale Appraisal 3-Way

Sale KL-341-2015-12-

District: Klamath/Lake

Date: March 30, 2015

Timber Description

Location: Portions of Sections 13 and 24, T33S, R 7.5E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	23	0	95
Sugar Pine	26	0	95
Ponderosa Pine	15	0	95
Lodgepole Pine	12	0	95

Volume by Grade	CR 6" - 8"	CR 8" - 14"	CR 14" - 22"	CR 22"+	Camprun	Total
White Fir	8	66	147	51	0	272
Sugar Pine	4	4	29	0	0	37
Ponderosa Pine	172	116	193	55	0	536
Lodgepole Pine	0	0	0	0	701	701
Total	184	186	369	106	701	1,546

Comments: Pond Values Used: 1st Quarter Calendar Year 2015.

Log Markets: Klamath Falls, Oregon

SCALING COST ALLOWANCE = \$5/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$780 daily truck cost.

Other Costs: (with Profit & Risk to be added):
Log Branding and Painting: \$1,116
Dust Abatement: \$5,802
TOTAL Other Costs (with Profit & Risk to be added) = \$6,918

Other Costs (No Profit & Risk added):
None.



Timber Sale Appraisal 3-Way

Sale KL-341-2015-12-

District: Klamath/Lake

Date: March 30, 2015

Logging Conditions

Combination#: 1

White Fir	10.00%
Ponderosa Pine	40.00%
Lodgepole Pine	100.00%

Logging System: Wheel Skidder **Process:** Feller Buncher

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

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

loads / day: 12 **bd. ft / load:** 4000

cost / mbf: \$79.10

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

Combination#: 2

White Fir	90.00%
Sugar Pine	100.00%
Ponderosa Pine	60.00%

Logging System: Track Skidder **Process:** Manual Falling/Delimbing

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 12 **bd. ft / load:** 4500

cost / mbf: \$81.68

machines: Log Loader (B)
Track Skidder



Timber Sale Appraisal 3-Way

Sale KL-341-2015-12-

District: Klamath/Lake

Date: March 30, 2015

Logging Costs

Operating Seasons: 1.00	Profit Risk: 11%
Project Costs: \$15,051.00	Other Costs (P/R): \$6,918.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.94

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
Sugar Pine	\$0.00	3.0	4.0
Ponderosa Pine	\$0.00	3.0	4.2
Lodgepole Pine	\$0.00	3.0	4.0

Local Pond Values

Date	Specie	Grade	Value
03/30/2015	Lodgepole Pine	Camprun	\$330.00
03/30/2015	White Fir	CR 6" - 8"	\$370.00
03/30/2015	Sugar Pine	CR 6" - 8"	\$285.00
03/30/2015	Ponderosa Pine	CR 6" - 8"	\$295.00
03/30/2015	White Fir	CR 8" - 14"	\$395.00
03/30/2015	Sugar Pine	CR 8" - 14"	\$310.00
03/30/2015	Ponderosa Pine	CR 8" - 14"	\$325.00
03/30/2015	White Fir	CR 14" - 22"	\$405.00
03/30/2015	Sugar Pine	CR 14" - 22"	\$360.00
03/30/2015	Ponderosa Pine	CR 14" - 22"	\$380.00

03/30/2015	White Fir	CR 22"+	\$410.00
03/30/2015	Ponderosa Pine	CR 22"+	\$440.00



Timber Sale Appraisal 3-Way

Sale KL-341-2015-12-

District: Klamath/Lake

Date: March 30, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
\$81.42	\$0.99	\$2.84	\$60.67	\$4.47	\$16.54	\$0.00	\$5.00	\$0.00	\$171.93
Sugar Pine									
\$81.68	\$0.99	\$2.84	\$68.25	\$4.47	\$17.41	\$0.00	\$5.00	\$0.00	\$180.64
Ponderosa Pine									
\$80.65	\$0.99	\$2.84	\$65.00	\$4.47	\$16.93	\$0.00	\$5.00	\$0.00	\$175.88
Lodgepole Pine									
\$79.10	\$0.99	\$2.84	\$68.25	\$4.47	\$17.12	\$0.00	\$5.00	\$0.00	\$177.77

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$402.48	\$230.55	\$0.00
Sugar Pine	\$0.00	\$346.49	\$165.85	\$0.00
Ponderosa Pine	\$0.00	\$346.98	\$171.10	\$0.00
Lodgepole Pine	\$0.00	\$330.00	\$152.23	\$0.00



Timber Sale Appraisal 3-Way

Sale KL-341-2015-12-

District: Klamath/Lake

Date: March 30, 2015

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	272	\$230.55	\$62,709.60
Sugar Pine	37	\$165.85	\$6,136.45
Ponderosa Pine	536	\$171.10	\$91,709.60
Lodgepole Pine	701	\$152.23	\$106,713.23

Gross Timber Sale Value

Recovery: \$267,268.88

Prepared By: Todd Clement

Phone: 541-883-5681

Summary of Project Work

3-Way
341-15-12



Project # 1: Road Improvement	\$1,765
Project # 2: Fell, Yard and Pile Submerchantable Material	\$7,620
Project # 3: Spot Rocking	\$5,666
Total: \$15,051	

3-Way

341-15-12

Additional Costs



Road Maintenance

Move-in cost (grader):	\$400
Number of Miles to be Bladed:	5.0
Number of Bladings:	1
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	10
Grading Cost:	\$1,055
Total Cost:	\$1,455
Cost / MBF:	\$0.94

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

31 Hauling Days
1.5 Hours/Day
\$24 Cost/Hour
\$1,116 Total Cost
\$0.72 Cost/MBF

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

PP	538 MBF	35%	Average Load	4.2 MBF	No. of Loads	128
WF	276 MBF	18%	Average Load	4.5 MBF	No. of Loads	61
LP	701 MBF	45%	Average Load	4.0 MBF	No. of Loads	175
SP	37 MBF	2%	Average Load	4.0 MBF	No. of Loads	9
Total:	1,552 MBF				Total Loads	373

Assume:	4 Trucks/Day	
	3 Trips/Day	16 Days of Dust Abatement
	12 Loads per Day	4 Hours/Day
	31 Hauling Days	\$88 Cost/Hour
		64 Total Hours
		\$170 Move in for Water Truck
		\$5,802 Dust Abatement Cost
		\$5,802 Total Cost
		\$3.74 Cost/MBF

Other Costs Summary

Log Branding and Painting:	\$1,116
Dust Abatement	\$5,802
Total Cost:	\$6,918

Project #1 Road Improvement/Road Construction

Move in Cost Dozer:	\$400
---------------------	-------

Improvement	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	1,068	1,000	1.1	\$132.50	\$145.75
Open/Clear/Shape	B to C	380	1,000	0.4	\$132.50	\$53.00
Open/Clear/Shape	C to D	1,275	1,000	1.3	\$132.50	\$172.25
Open/Clear/Shape	C to E	1,930	1,000	1.9	\$132.50	\$251.75
Open/Clear/Shape	B to F	2,551	1,000	2.6	\$132.50	\$344.50
Open/Clear/Shape	G to H	3,020	1,000	3.0	\$132.50	\$397.50
Total		10,224			Total	\$1,365

Project #1 Summary

Equipment Costs(Move in)	\$400
Open/Clear Shape	\$1,365
Project #1 Total	\$1,765
per MBF	\$1.14

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

Total Sub-Sawlog Volume:	127 MBF
Fell and Skid and sort/MBF:	\$60
Total:	\$7,620
per MBF	\$4.91

Project #3 Spot Rocking

Roads: 20, 6214

<i>Spot Rocking - Delivered</i>		<i>Rock Spreading (Grader)</i>	
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		
\$15.25	Cost/Ton (Delivered)	8	Total Water Truck Hours
\$4,118	Total	\$88.00	Cost/Hour
\$111.30	per MBF	\$704.00	Total
		\$1,548	Total Rock Spreading
		\$41.84	per MBF
Grand Total		\$5,666	
per MBF		\$3.65	

All Projects Summary

Project 1:	\$1,765
Project 2:	\$7,620
Project 3:	\$5,666
Total:	\$15,051

3-Way

341-15-12

Cruise Report



SALE NAME: 3-Way

LEGAL DESCRIPTION:

Sections 13 and 24, 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% C.S.L.

ACREAGE:

The timber sale was delineated into 2 areas based upon stand history and silvicultural prescriptions.

Area I:174

Area II:130

Net Sale Acreage: 304 Acres

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

TREATMENT:

Area I is a single tree selection cut with blue paint for trees 5.0 inches DBH and larger. All trees less than 5.0 inches DBH are reserved from cutting in Area I.

Area II 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 Area II.

CRUISE METHOD:

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

SAMPLING INTENSITY:

Area	BAF	Type Acreage
3-Way	10 BAF	304 acres

FIXED PLOT:

Area	Radius	Type Acreage
3-Way	16.6 (1/50 th)	304 acres

PLOT DESIGNATION:

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

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
I	53	12	174
II	53	12	130

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

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

$$\text{3-Way} \quad N = \frac{(1)^2(70)^2}{(12)^2} = \underline{\underline{\text{Took 33 plots}}}$$

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

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
3-Way	67	11.6	304

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.

3-Way

SPECIES	DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	14.6	550	538
White Fir	23.7	277	276
Sugar Pine	26.3	37	37
Lodgepole Pine	12.3	729	701

TOTAL NET SAWLOG VOLUME: 1,552 MBF

GREEN PULP VOLUME: 5 MBF

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.

3-Way: Areas 1 and 2 were combined

SPECIES	Fixed Plot Volume
Ponderosa Pine	160
White Fir	13
Lodgepole Pine	227
TOTAL	400

TOTAL GREEN PULP VOLUME: 122 MBF

TC TLOGSTVB				Log Stock Table - MBF																																																							
				Project:				3WAY																																																			
T033 R007 S24 TVARI												T033 R007 S24 TVARI																																															
Twp				Rge				Sec				Tract				Type				Acres				Plots				Sample Trees				Page																											
033				007				24				259				VARI				174.00				18				35				1																											
																								Date				1/13/2015																															
																												Time				2:40:13PM																											
S				So				Gr				Log				Gross				%				Net				%				Net Volume by Scaling Diameter in Inches																											
Spp				T				rt				de				Len				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+	
LP				CR				CR				12				11				11				2.4												11																							
LP				CR				CR				17				97				97				20.4								41		7		48																							
LP				CR				CR				26				59				59				12.5								37		23																									
LP				CR				CR				34				322				4.7				307				64.7						140		167																							
LP								Totals				490				3.1				475				80.4								218		197		48		11																					
PP				CR				CR				17				19				12.0				17				14.3								17																							
PP				CR				CR				26				30				2.5				29				25.1								21				8																			
PP				CR				CR				32				15				15				13.0										15																									
PP				CR				CR				34				56				1.6				55				47.6						45		10																							
PP								Totals				120				3.3				116				19.6								83		10		8		15																					
Total All Species												609				3.1				590				100.0								301		207		55		26																					

TC TLOGSTVB				Log Stock Table - MBF																
				Project: 3WAY																
T033 R007 S24 TVARI										T033 R007 S24 TVARI										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
033	007	24	264	VARI	130.00	16	47	Date	1/13/2015											
									Time	2:38:00PM										
S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches												
Spp	T	rt	de	Len	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	12	10		10	2.4							10					
PP		CR	CR	13	1		1	.1		1										
PP		CR	CR	14	1		1	.2		1										
PP		CR	CR	16	13	14.3	11	2.6									11			
PP		CR	CR	17	28		28	6.7			21			7						
PP		CR	CR	26	4		4	1.0				4								
PP		CR	CR	28	14		14	3.3							14					
PP		CR	CR	32	163	2.8	159	37.6							17	31	56	55		
PP		CR	CR	34	196	1.1	194	46.0			68		47	25	28	27				
PP				Totals	431	2.0	422	43.7		1	89	4	47	32	69	57	67	55		
LP		CR	CR	17	16		16	6.8			16									
LP		CR	CR	26	44		44	19.2			7	37								
LP		CR	CR	34	174	4.5	166	71.7			87	56	22							
LP		CR	GP	17	5		5	2.3			5									
LP				Totals	239	3.3	231	23.9			116	93	22							
WF		CR	CR	17	3		3	1.2			2		1							
WF		CR	CR	26	6		6	2.1			2		4							
WF		CR	CR	34	268	.4	267	96.7		3	4	15	46		43	104		51		
WF				Totals	277		276	28.6		3	8	15	51		43	104		51		
SP		CR	CR	26	4		4	10.5			4									
SP		CR	CR	32	33		33	89.5				4			16		13			
SP				Totals	37		37	3.8			4	4			16		13			
Total All Species					984	1.8	966	100.0		5	216	117	120	32	128	162	80	106		

TC TSTATS				STATISTICS				PAGE	1			
				PROJECT	3WAY			DATE	1/13/2015			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
033	007	24	259	VARI	174.00	18	73	1	E			
				TREES	ESTIMATED	PERCENT						
				PER PLOT	TOTAL	SAMPLE						
					TREES	TREES						
TOTAL			18	73	4.1							
CRUISE			8	35	4.4	8,423	.4					
DBH COUNT												
REFOREST												
COUNT			9	38	4.2							
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	
LP PINE			22	37.2	12.3	41	8.7	30.6	2,813	2,727	654	654
PPINE			13	11.2	12.8	35	2.8	10.0	688	665	175	175
TOTAL			35	48.4	12.4	40	11.5	40.6	3,501	3,392	829	829
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		
LP PINE			51.7	11.3	76	85	95					
PPINE			110.7	31.9	59	86	114					
TOTAL			77.5	13.1	74	86	97	240	60	27		
CL:	68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
LP PINE			44.1	9.6	18	20	22					
PPINE			89.4	25.8	16	21	27					
TOTAL			64.6	10.9	18	21	23	167	42	19		
CL:	68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
LP PINE			91.8	22.3	29	37	45					
PPINE			146.3	35.5	7	11	15					
TOTAL			60.5	14.7	41	48	56	155	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		
LP PINE			87.3	21.2	24	31	37					
PPINE			145.5	35.3	6	10	14					
TOTAL			56.4	13.7	35	41	46	135	34	15		
CL:	68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
LP PINE			86.7	21.0	2,154	2,727	3,300					
PPINE			152.4	37.0	419	665	911					
TOTAL			62.9	15.3	2,874	3,392	3,910	168	42	19		
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		
LP PINE			87.4	21.2	515	654	792					
PPINE			149.7	36.3	112	175	239					
TOTAL			61.3	14.9	706	829	952	159	40	18		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	3WAY	DATE 1/13/2015				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
033	007	24	264	VARI	130.00	16	87	1	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
PLOTS		TREES		TREES		TREES				
TOTAL		16		87		5.4				
CRUISE		8		47		5.9				
DBH COUNT						5,635				
REFOREST										
COUNT		8		40		5.0				
BLANKS										
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		14	15.8	16.1	47	5.6	22.5	3,314	3,248	618
LP PINE		16	23.6	12.3	41	5.5	19.4	1,839	1,779	438
WHITE F		15	3.5	23.7	73	2.2	10.6	2,133	2,124	379
SUG PINE		2	.5	26.3	63	0.4	1.9	282	282	55
TOTAL		47	43.3	15.2	46	14.0	54.4	7,567	7,433	1,489
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		103.0	28.6	374	523	672				
LP PINE		53.2	13.7	73	84	96				
WHITE F		60.3	16.1	632	753	875				
SUG PINE		37.3	35.0	406	625	844				
TOTAL		105.3	15.4	382	451	521	444	111	49	
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		95.5	26.5	69	94	118				
LP PINE		36.7	9.5	18	20	22				
WHITE F		47.6	12.7	112	129	145				
SUG PINE		42.1	39.5	74	123	171				
TOTAL		92.5	13.5	70	81	92	342	86	38	
CL:	68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5 10		15	
PPINE		118.1	30.5	11	16	21				
LP PINE		108.8	28.1	17	24	30				
WHITE F		165.7	42.8	2	3	5				
SUG PINE		290.1	74.9	0	0	1				
TOTAL		51.0	13.2	38	43	49	111	28	12	
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		102.0	26.3	17	23	28				
LP PINE		112.2	29.0	14	19	25				
WHITE F		166.5	43.0	6	11	15				
SUG PINE		290.1	74.9	0	2	3				
TOTAL		46.0	11.9	48	54	61	90	23	10	
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		98.2	25.4	2,424	3,248	4,072				
LP PINE		122.3	31.6	1,217	1,779	2,341				
WHITE F		176.3	45.5	1,157	2,124	3,091				
SUG PINE		290.1	74.9	71	282	494				
TOTAL		57.4	14.8	6,331	7,433	8,534	140	35	16	

TC TSTATS				STATISTICS			PAGE	2	
				PROJECT	3WAY	DATE		1/13/2015	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
033	007	24	264	VARI	130.00	16	87	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
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		97.2	25.1	463	618	773			
LP PINE		118.8	30.7	303	438	572			
WHITE F		170.7	44.1	212	379	546			
SUG PINE		290.1	74.9	14	55	96			
TOTAL		50.6	13.1	1,295	1,489	1,684	109	27	12

TblSortGrade

Sort/Grade Table

Table Name: SUNPASS Date: 01/12/2015

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: 01/12/2015

Table Name: SUNPASS

Page: 1

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

