"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Double Deuce
Sale 341-13-86

District: **Klamath/Lake** **Date:** **February 01, 2013**

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,469,403.81	$0.00	$1,469,403.81
		Project Work:	$(87,205.67)
		Advertised Value:	$1,382,198.14

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Double Deuce
Sale 341-13-86

District: **Klamath/Lake** **Date:** **February 01, 2013**

timber description

Location: Portions of Section 36, T32S, R7.5E and Portions of Sections 1 and 12, T33S, R7.5E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	18	0	95
Ponderosa Pine	16	0	95
Lodgepole Pine	14	0	95

Volume by Grade	Camprun	CR 14" -	CR 22"+	CR 6" - 8	CR 8" - 1	Total
White Fir	0	1,870	534	683	2,284	5,371
Ponderosa Pine	0	352	90	575	628	1,645
Lodgepole Pine	1,128	0	0	0	0	1,128
Total	1,128	2,222	624	1,258	2,912	8,144

comments:

Pond Values Used: 4th Quarter Calander Year 2012.

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 & Painting: $5,616
Dust Abatement: $35,370
TOTAL Other Costs (with Profit & Risk to be added): $40,986

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

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Double Deuce
Sale 341-13-86

District: **Klamath/Lake** **Date:** **February 01, 2013**

logging conditions

combination#: **1**

White Fir	30.00%
Ponderosa Pine	50.00%
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:** 4,100
cost / mbf: $67.49

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

combination#: **2**

White Fir	70.00%
Ponderosa Pine	50.00%

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"

Timber Sale Appraisal
Double Deuce
Sale 341-13-86

District: **Klamath/Lake** **Date:** **February 01, 2013**

logging costs

Operating Seasons:	2.00	**Profit Risk:**	12.00%
Project Costs:	$87,205.67	**Other Costs (P/R):**	$40,986.00
Slash Disposal:	$0.00	**Other Costs:**	$0.00

Miles of Road

Road Maintenance: $0.50

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
2/1/13	White Fir	CR 6" - 8"	$310.00
2/1/13	White Fir	CR 8" - 14"	$345.00
2/1/13	White Fir	CR 14" - 22"	$370.00
2/1/13	White Fir	CR 22"+	$380.00
2/1/13	Ponderosa Pine	CR 6" - 8"	$285.00
2/1/13	Ponderosa Pine	CR 8" - 14"	$290.00
2/1/13	Ponderosa Pine	CR 14" - 22"	$345.00
2/1/13	Ponderosa Pine	CR 22"+	$385.00
2/1/13	Lodgepole Pine	Camprun	$305.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Double Deuce
Sale 341-13-86

District: **Klamath/Lake** **Date:** **February 01, 2013**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
$73.23	$0.52	$1.08	$54.17	$5.03	$16.08	$0.00	$5.00	$0.00	$155.11
Ponderosa Pine									
$71.59	$0.52	$1.08	$59.45	$5.03	$16.52	$0.00	$5.00	$0.00	$159.19
Lodgepole Pine									
$67.49	$0.52	$1.08	$60.94	$5.03	$16.21	$0.00	$5.00	$0.00	$156.27

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	$0.00	$352.73	$197.62	$0.00
Ponderosa Pine	$0.00	$305.22	$146.03	$0.00
Lodgepole Pine	$0.00	$305.00	$148.73	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Double Deuce
Sale 341-13-86

District: **Klamath/Lake** **Date:** **February 01, 2013**

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	5,371	$197.62	$1,061,417.02
Ponderosa Pine	1,645	$146.03	$240,219.35
Lodgepole Pine	1,128	$148.73	$167,767.44

Gross Timber Sale Value

Recovery: $1,469,403.81

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

Summary of Project Work

Double Deuce
341-13-86

Project # 1:	Road Improvement	**$3,306.17**
Project # 2:	17 and 18 Road Improvement	**$5,625.00**
Project # 3:	Fell, Skid, & Pile Submerchantable	**$44,090.00**
Project # 4:	Sporax Stump Treatment	**$4,632.00**
Project # 5:	Spot Rocking on 13, 15, & 17 Roads	**$23,227.50**
Project # 6:	Shovel Piling Area II	**$5,000.00**
Project # 7:	Road Closures	**$1,325.00**

Total: $87,205.67

Double Deuce

341-13-86

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 B	3700	1000	3.7	$132.50	$490.25
Open/Clear/Shape	C to D	2500	1000	2.5	$132.50	$331.25
Open/Clear/Shape	E to F	3600	1000	3.6	$132.50	$477.00
Open/Clear/Shape	G to H	1450	750	1.9	$132.50	$256.17
Open/Clear/Shape	I to J	1450	1000	1.5	$132.50	$192.13
Open/Clear/Shape	K to L	1800	1000	1.8	$132.50	$238.50
Open/Clear/Shape	L to M	1550	1000	1.6	$132.50	$205.38
Open/Clear/Shape	N to O	1350	1000	1.4	$132.50	$178.88
Open/Clear/Shape	O to P	1000	1000	1.0	$132.50	$132.50
Open/Clear/Shape	O to Q	2250	1000	2.3	$132.50	$298.13
Open/Clear/Shape	R to S	800	1000	0.8	$132.50	$106.00
	Total	21450			Total	$2,906.17

Project #1 Summary

Move in	$400.00
Open/Clear Shape	$2,906.17
Project #1 Total	**$3,306.17**
per MBF	$0.41

Double Deuce

341-13-86

Other Costs

Project #2 Road Improvement 17 Road (points A to T) and 18 Road (Points N to U)

	Miles of Road		2.2	
Grub Stumps/ Retrieve Sidecast				
	Hours	Cost per hour	Cost	
Shovel Time	8	$125.00	$1,000.00	
Dozer Time	8	$132.50	$1,060.00	
		Total	$2,060.00	
Road Shaping and Construct/Improve Lead out ditches				
Grader Time	Hours	Cost per hour	Cost	
	8	$105.50	$844.00	
Rock Removal at Point V				
Rental for Excavator w/Trailer (1 day)		$400.00		
Rock Hammer Rental (1 day)		$300.00		
Fuel		$40.00		
Labor ($24.00/hr.) for 8 hours		$192.00		
Total Cost		$932.00		
Slash Piling				
	Hours	Cost per hour	Cost	
Shovel Time	12	$125.00	$1,500.00	
			Total Cost	$4,404.00

Project # 2 Summary

Grub Stumps/Retrieve Sidecast	$2,060.00
Road Shaping/Construct Lead out ditches	$633.00
Rock Removal at Point V	$932.00
Slash Piling	$2,000.00
Project #2 Total	**$5,625.00**

Double Deuce

341-13-86

Other Costs

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

Total Sub-Sawlog Volume: 584 MBF

Fell and Skid/MBF:	$50.00
Sort/MBF:	$10.00
Total	**$35,040.00**
per MBF	$4.30

Landing Slash Piling

Number of Landings: 30

Shovel Time:	1 Hour per Landing	Cost per Hour:	$125.00	Total Cost	$3,750.00
Cat Time:	1 Hour per Landing	Cost per Hour:	$132.50	Total Cost	$3,975.00
Extra Shovel Time/Down LP:	10 Hours	Cost per Hour:	$132.50	Total Cost	$1,325.00
				Total	$9,050.00

Project #3 Summary

Fell/Pile/Skid:	$35,040.00
Landing Cleanup:	$9,050.00
Total	**$44,090.00**
per MBF	$5.41

Project #4 Sporax Stump Treatment

State to Provide Chemical Supplies

Acres to be Treated: 193

Cutting days (assume 5 acres/day)	38.6
Hours/Day	5
Cost/Hour	$24.00
Labor Cost	$4,632.00

Project #4 Summary

Total Cost	**$4,632.00**
per MBF	$0.57

Double Deuce

341-13-86

Other Costs

Project #5 Spot Rocking on 13, 15, & 17 Roads

Spot Rocking - Delivered

3/4 -	**Rock Size**
944	Cubic Yards
1.5	Tons per Cubic Yard
1416	Tons
$13.00	Cost per ton (delivered)
$18,408.00	**Total**
$2.26	per MBF

Quote 12/13/12
3 mile Pit

Rock Spreading (Grader)

15	Total Grader Hours
$105.50	Cost per Hour
$1,582.50	Total
20	Water Truck Hours
$88.00	Cost per Hour
$1,760.00	Total

Grade prior to Rocking

14	Total Grader Hours
$105.50	Cost per Hour
$1,477.00	Total

$4,819.50	**Total Grading**
$0.59	per MBF

Project #5 Summary

Total cost Rock	$18,408.00
Total cost Grading	$4,819.50
Total	**$23,227.50**
per MBF	$2.85

Project #6 Shovel Piling Area II

Acres to pile:	20
Acres/Hr.	0.5
Total Hours	40
Cost/Hour	$125.00
Total Cost	**$5,000.00**
per MBF	$0.61

Double Deuce

341-13-86

Other Costs

Project #7 Road Closures	
Road Closures	
10	Number of Closure Points (A,C,E,F,G,I,K,M,N,R)
1	Hour/Point (Travel Included)
$132.50	Cost per Hour (Cat)
$1,325.00	**Total**
$0.16	per MBF

	Cost Summary All Projects
$3,306.17	Project #1 Road Improvement
$5,625.00	Project #2 Road Improvement 17 and !8 Roads
$44,090.00	Project #3 Fell, Skid, and Pile Submerchantable Trees
$4,632.00	Project #4 Sporax Fungicide Treatment
$23,227.50	Project #5 Spot Rocking on 13,15 and 17 Roads
$5,000.00	Project #6 Shovel Piling Area II
$1,325.00	Project #7 Road Closures
$87,205.67	**Total**
$10.71	per MBF

Double Deuce

341-13-86

Other Costs

Road Maintenance

Move-in cost (grader):	$400.00	
Number of Bladings:	2	(13, 15, 17, 18, and 20 roads, and old hwy 232)
Number of Miles to be Bladed:	8.7	
Miles / Hour for equipment:	0.5	
Cost / Hour (grader with operator):	$105.50	
Grading Hours/per blading:	17	
Grading Cost (2 Bladings):	$3,671.40	
Total Cost:	**$4,071.40**	
Cost / MBF:	$0.50	

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

WF	5371 MBF	66%	Average Load	4.5 MBF	No. of Loads		1194
PP	1645 MBF	20%	Average Load	4.1 MBF	No. of Loads		401
LP	1128 MBF	14%	Average Load	4.0 MBF	No. of Loads		282
Total:	**8144 MBF**				**Total Loads**		**1877**

Assume:	4	Trucks/Day	
	3	Trips/Day	
	12	**Loads per Day**	
	100	Days of Dust Abatement	
	4	Hours/Day	
	$88.00	Cost/Hour	
	400	Total Hours	
	$170.00	Move in for Water Truck	
	$35,370.00	Dust Abatement Cost	
	$35,370.00	**Total Cost**	
	$4.34	Cost/MBF	

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

156	Hauling Days
1.5	Hours/Day
$24.00	Cost/Hour
$5,616.00	**Total Cost**
$0.69	Cost/MBF

Other Costs Summary (Profit and Risk to be added in Appraisal)

$35,370.00	Total cost for Dust Abatement	$4.34	per MBF
$5,616.00	Total Cost for Log Branding	$0.69	per MBF
$40,986.00	**Total Other Costs**	**$5.03**	**per MBF**

DOUBLE DEUCE

341-13-86

Cruise Report

"STEWARDSHIP IN FORESTRY"

SALE NAME: Double Deuce

LEGAL DESCRIPTION:

Portion of Section 36, T32S, R7.5E, and Portions of Sections 1 and 12, 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. The timber sale boundary is not posted along the 15, 17, and 18 roads. Exclusion areas are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging.

FUND:

100% BOF

ACREAGE:

The timber sale was delineated into 4 sale areas based upon stand history and silvicultural prescription . For cruising purposes, Types 214 and 215 were combined to form Area II, Types 227 and 228 were combined to form Area IV. See attached map for the boundaries of the cruise types.

Area I , Type 191	91 Acres
Area II, Types 214 & 215	74 Acres
Area III, Type 229	244 Acres
Area IV, Type 227 & 228	196 Acres

Total Cruise Acreage: 605 Acres

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

TREATMENT:

All Sale areas are single tree selection cuts 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 all sale areas.

CRUISE METHOD:

For all areas : Variable plot cruise with a ratio of a count plot for every measure plot. Fixed plot cruise for all submerchantable material (5.0"to 10.0") dbh for all areas.

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Area I	14 BAF	91 acres
Area II	20 BAF	74 acres
Area III	14 BAF	244 acres
Area IV	14 BAF	196 acres

PLOT DESIGNATION:

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

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Area I	50	13	91
Area II	55	13	74
Area III	70	13	244
Area IV	65	13	196

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

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.

Area I $N = \frac{(1)^2(50)^2}{(13)^2} = 15$ plots Took 15 plots

Area II $N = \frac{(1)^2(55)^2}{(13)^2} = 18$ plots Took 15 plots

Area III $N = \frac{(1)^2(70)^2}{(13)^2} = 29$ plots Took 30 plots

Area IV $N = \frac{(1)^2(65)^2}{(13)^2} = 25$ plots Took 25 plots

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all "in" trees for 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 10"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:

10.0" 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 DBH.

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, Jon Fitch, Todd Clement.

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area I	64	17.1	91
Area II	46	12.4	74
Area III	76	14.1	244
Area IV	75	15.3	196
Combined	72	7.9	605

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

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	19.2	626	623
Ponderosa Pine	15.6	350	344
Sugar Pine	12.4	10	10

AREA II

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	17.0	898	883
Ponderosa Pine	17.5	432	419
Lodgepole Pine	13.9	160	157

AREA III

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	17.5	2332	2287
Ponderosa Pine	15.3	771	752
Lodgepole Pine	14.5	304	297

AREA IV

SPECIES	AVE.DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	18.1	1593	1578
Ponderosa Pine	16.0	136	130
Lodgepole Pine	13.2	710	674

TOTAL SAWLOG VOLUME

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	17.7	5449	5371
Ponderosa Pine	15.8	1689	1645
Lodgepole Pine	13.6	1174	1128
Sugar Pine	12.4	10	10*

TOTAL NET SAWLOG VOLUME: 8144 MBF*

***For Appraisal Purposes Sugar Pine Volumes not Included.**

GREEN PULP VOLUME:

This volume was obtained from the fixed plot cruise (5.0" – 10.0" DBH).
All material was graded green pulp, see grade table for minimum standards.

SPECIES	F.PLOT VOLUME
White Fir	223
Ponderpsa Pine	234
Lodgepole Pine	127

TOTAL GREEN PULP VOLUME: 584 MBF

.

TC TSTATS

STATISTICS

PROJECT DDEUCE

DATE 2/5/2013

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
32S	07E	36	AREA 1	0191	91.00	15	88	1	E

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	15	88	5.9		
CRUISE	8	49	6.1	4,829	1.0
DBH COUNT					
REFOREST					
COUNT	7	39	5.6		
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
PPINE	27	31.8	15.6	49	10.6	42.0	3,843	3,776	898	898
WHITE F	21	19.1	19.2	63	8.7	38.3	6,879	6,841	1,322	1,322
SUG PINE	1	2.2	12.4	36	0.5	1.9	111	111	27	27
TOTAL	*49*	*53.1*	*16.8*	*54*	*20.0*	*82.1*	*10,834*	*10,728*	*2,246*	*2,246*

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	103.5	20.3	130	163	196			
WHITE F	78.1	17.5	421	510	599			
SUG PINE								
TOTAL	*108.4*	*15.5*	*261*	*309*	*357*	*470*	*118*	*52*

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	81.4	16.0	31	36	42			
WHITE F	67.1	15.0	80	94	108			
SUG PINE								
TOTAL	*90.3*	*12.9*	*53*	*61*	*68*	*326*	*82*	*36*

CL: 68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
PPINE	89.0	23.8	24	32	39			
WHITE F	101.3	27.1	14	19	24			
SUG PINE	263.9	70.6	1	2	4			
TOTAL	*59.0*	*15.8*	*45*	*53*	*61*	*149*	*37*	*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
PPINE	83.6	22.3	33	42	51			
WHITE F	97.3	26.0	28	38	48			
SUG PINE	263.9	70.6	1	2	3			
TOTAL	*57.6*	*15.4*	*69*	*82*	*95*	*142*	*36*	*16*

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	84.7	22.6	2,921	3,776	4,630			
WHITE F	99.8	26.7	5,016	6,841	8,666			
SUG PINE	263.9	70.6	33	111	190			
TOTAL	*63.9*	*17.1*	*8,896*	*10,728*	*12,560*	*175*	*44*	*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
PPINE	84.0	22.5	696	898	1,099			
WHITE F	98.8	26.4	973	1,322	1,671			
SUG PINE	263.9	70.6	8	27	46			

TC TLOGSTVB

Log Stock Table - MBF

Project: DDEUCE

T32S R07E S36 T0191

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
32S	07E	36	AREA 1	0191	91.00	15	49

T32S R07E S36 T0191

Page 1
Date 2/5/2013
Time 9:25:46AM

Spp	S T	So	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 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	21		21	6.2			10	4	7							
PP		CR	CR	26	39		39	11.3			22	16								
PP		CR	CR	32	34		34	9.9							16		18			
PP		CR	CR	34	256	2.4	250	72.7			111	70	38	18	13					
PP		Totals			350	1.8	344	35.2			143	91	46	18	28		18			
WF		CR	CR	17	9		9	1.5			6	4								
WF		CR	CR	26	25		25	4.1			18	7								
WF		CR	CR	34	591	.6	588	94.5			15	76	104	97	91	120	29	56		
WF		Totals			626		623	63.8			38	87	104	97	91	120	29	56		
SP		CR	CR	28	10		10	100.0			10									
SP		Totals			10		10	1.0			10									
Total All Species					986		976	100.0			191	178	150	115	120	120	47	56		

TC TSTATS

STATISTICS

PROJECT DDEUCE

DATE 2/5/2013

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33S	07E	01	AREA 2	0215	74.00	15	117	1	E

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	15	117	7.8		
CRUISE	8	64	8.0	7,597	.8
DBH COUNT					
REFOREST					
COUNT	7	53	7.6		
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	33	50.5	17.0	59	19.4	80.0	12,137	11,933	2,389	2,389
PPINE	20	34.3	17.5	50	13.7	57.3	5,840	5,657	1,163	1,163
LP PINE	11	17.8	13.9	49	5.0	18.7	2,159	2,119	450	450
TOTAL	*64*	*102.7*	*16.7*	*54*	*38.2*	*156.0*	*20,136*	*19,709*	*4,003*	*4,003*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

SAMPLE TREES - BF

CL: 68.1 %	COEFF					# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F	93.8	16.3	315	376	437			
PPINE	108.0	24.8	258	343	428			
LP PINE	61.4	19.4	108	135	161			
TOTAL	*103.9*	*13.0*	*282*	*324*	*366*	*432*	*108*	*48*

SAMPLE TREES - CF

CL: 68.1 %	COEFF					# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F	82.5	14.4	61	72	82			
PPINE	91.0	20.9	49	62	75			
LP PINE	55.2	17.4	23	28	33			
TOTAL	*89.8*	*11.2*	*54*	*61*	*68*	*323*	*81*	*36*

TREES/ACRE

CL: 68.1 %	COEFF					# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F	104.7	28.0	36	51	65			
PPINE	82.7	22.1	27	34	42			
LP PINE	179.8	48.1	9	18	26			
TOTAL	*51.6*	*13.8*	*89*	*103*	*117*	*114*	*29*	*13*

BASAL AREA/ACRE

CL: 68.1 %	COEFF					# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F	85.0	22.7	62	80	98			
PPINE	77.9	20.8	45	57	69			
LP PINE	169.2	45.2	10	19	27			
TOTAL	*40.6*	*10.9*	*139*	*156*	*173*	*71*	*18*	*8*

NET BF/ACRE

CL: 68.1 %	COEFF					# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F	80.2	21.4	9,376	11,933	14,490			
PPINE	75.8	20.3	4,510	5,657	6,803			
LP PINE	145.1	38.8	1,297	2,119	2,941			
TOTAL	*46.4*	*12.4*	*17,262*	*19,709*	*22,155*	*92*	*23*	*10*

NET CUFT FT/ACRE

CL: 68.1 %	COEFF					# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F	81.5	21.8	1,869	2,389	2,910			
PPINE	75.3	20.1	929	1,163	1,397			
LP PINE	148.2	39.6	272	450	628			

TC TLOGSTVB

Log Stock Table - MBF

Project: DDEUCE

T33S R07E S01 T0215

T33S R07E S01 T0215

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	01	AREA 2	0215	74.00	15	64

Page 1
Date 2/5/2013
Time 9:29:27AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 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	54		54	6.1			29	7		4	14					
WF		CR	CR	26	39		39	4.4			31	8								
WF		CR	CR	34	805	1.9	790	89.5			82	159	141	104	98	96	75	34		
WF		Totals			898	1.7	883	60.5			142	174	141	108	112	96	75	34		
PP		CR	CR	13	8		8	1.8					8							
PP		CR	CR	16	24		24	5.8								10		15		
PP		CR	CR	17	32	4.5	30	7.2			16			14						
PP		CR	CR	18	13		13	3.1									13			
PP		CR	CR	20	20	10.6	18	4.2										18		
PP		CR	CR	22	22		22	5.3										22		
PP		CR	CR	26	30		30	7.2			30									
PP		CR	CR	28	21		21	4.9								21				
PP		CR	CR	30	15		15	3.5							15					
PP		CR	CR	32	83	3.5	80	19.1								26	33	22		
PP		CR	CR	34	166	4.3	158	37.8			39	36	40	25		19				
PP		Totals			432	3.1	419	28.7			85	36	47	39	15	75	46	76		
LP		CR	CR	17	29	6.5	27	17.4			13	5	10							
LP		CR	CR	26	11		11	6.9			11									
LP		CR	CR	34	120	.9	119	75.7			39	26	54							
LP		Totals			160	1.8	157	10.8			63	30	64							
Total All Species					1,490	2.1	1,458	100.0			289	240	252	147	127	171	121	110		

TC TSTATS

STATISTICS

PROJECT DDEUCE

DATE 2/5/2013

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33S	07E	01	AREA 3	0229	244.00	30	230	1	E

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	30	230	7.7		
CRUISE	15	104	6.9	18,182	.6
DBH COUNT					
REFOREST					
COUNT	15	126	8.4		
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	50	33.1	17.5	57	13.3	55.5	9,556	9,374	1,788	1,788
PPINE	42	32.0	15.3	42	10.5	41.1	3,161	3,080	772	772
LP PINE	12	9.4	14.5	49	2.8	10.7	1,244	1,216	278	278
TOTAL	*104*	*74.5*	*16.3*	*50*	*26.6*	*107.3*	*13,962*	*13,670*	*2,838*	*2,838*

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	80.2	11.3	413	466	519			
PPINE	161.9	25.0	130	173	216			
LP PINE	78.9	23.8	124	163	201			
TOTAL	*111.5*	*10.9*	*279*	*313*	*347*	*497*	*124*	*55*

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	69.4	9.8	75	83	91			
PPINE	117.8	18.2	30	37	44			
LP PINE	54.6	16.5	29	35	41			
TOTAL	*91.8*	*9.0*	*54*	*59*	*64*	*337*	*84*	*37*

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	119.0	22.1	26	33	40			
PPINE	114.6	21.3	25	32	39			
LP PINE	180.6	33.6	6	9	13			
TOTAL	*59.2*	*11.0*	*66*	*75*	*83*	*145*	*36*	*16*

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	111.3	20.7	44	56	67			
PPINE	104.0	19.3	33	41	49			
LP PINE	183.5	34.1	7	11	14			
TOTAL	*57.0*	*10.6*	*96*	*107*	*119*	*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
WHITE F	111.3	20.7	7,435	9,374	11,313			
PPINE	106.1	19.7	2,473	3,080	3,687			
LP PINE	200.4	37.2	763	1,216	1,669			
TOTAL	*76.0*	*14.1*	*11,739*	*13,670*	*15,601*	*239*	*60*	*27*

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	111.6	20.7	1,417	1,788	2,158			
PPINE	103.4	19.2	624	772	921			
LP PINE	193.7	36.0	178	278	378			

TC TLOGSTVB

Log Stock Table - MBF

Project: DDEUCE

T33S R07E S01 T0229

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	01	AREA 3	0229	244.00	30	104

T33S R07E S01 T0229

Page 1
Date 2/5/2013
Time 9:31:24AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 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	55		55	2.4			25	18		11						
WF		CR	CR	26	155	10.0	139	6.1			78	61								
WF		CR	CR	34	2,122	1.4	2,093	91.5			169	204	398	288	153	609	89	184		
WF		Totals			2,332	1.9	2,287	68.6			272	283	398	299	153	609	89	184		
PP		CR	CR	12	14		14	1.8										14		
PP		CR	CR	13	17		17	2.3						17						
PP		CR	CR	17	82	9.6	74	9.9			34	11	30							
PP		CR	CR	20	10		10	1.4							10					
PP		CR	CR	26	197	1.8	194	25.8			76	70		48						
PP		CR	CR	32	170	2.3	166	22.1						24	20	60	61			
PP		CR	CR	34	281	1.6	277	36.8			192	33	52							
PP		Totals			771	2.6	752	22.5			301	113	82	90	31	60	61	14		
LP		CR	CR	17	37	11.0	33	11.0			3	18	12							
LP		CR	CR	26	20		20	6.8			20									
LP		CR	CR	34	247	1.2	244	82.2			91		44	70	39					
LP		Totals			304	2.3	297	8.9			114	18	56	70	39					
Total All Species					3,407	2.1	3,336	100.0			688	414	536	459	223	669	150	197		

TC TSTATS

STATISTICS

PROJECT DDEUCE

DATE 2/5/2013

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
33S	07E	01	AREA 4	0227	196.00	25	152	1	E

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	25	152	6.1		
CRUISE	14	85	6.1	12,402	.7
DBH COUNT					
REFOREST					
COUNT	11	67	6.1		
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	42	27.4	18.1	58	11.5	48.7	8,125	8,051	1,568	1,568
LP PINE	34	30.7	13.2	52	8.0	29.1	3,622	3,439	786	786
PPINE	9	5.2	16.0	54	1.8	7.3	695	664	158	158
TOTAL	*85*	*63.3*	*15.7*	*55*	*21.5*	*85.1*	*12,442*	*12,154*	*2,512*	*2,512*

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	108.1	16.7	466	559	652			
LP PINE	48.4	8.3	114	125	135			
PPINE	75.4	26.6	128	174	221			
TOTAL	*138.3*	*15.0*	*293*	*345*	*396*	*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
WHITE F	92.9	14.3	86	100	114			
LP PINE	43.4	7.4	26	28	30			
PPINE	61.0	21.5	31	40	48			
TOTAL	*114.7*	*12.4*	*57*	*65*	*73*	*526*	*132*	*58*

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	119.2	24.3	21	27	34			
LP PINE	87.0	17.8	25	31	36			
PPINE	146.4	29.9	4	5	7			
TOTAL	*70.0*	*14.3*	*54*	*63*	*72*	*204*	*51*	*23*

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	107.2	21.9	38	49	59			
LP PINE	88.8	18.1	24	29	34			
PPINE	148.1	30.2	5	7	9			
TOTAL	*69.1*	*14.1*	*73*	*85*	*97*	*199*	*50*	*22*

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	106.9	21.8	6,295	8,051	9,807			
LP PINE	91.3	18.6	2,798	3,439	4,079			
PPINE	148.7	30.4	463	664	866			
TOTAL	*74.7*	*15.3*	*10,300*	*12,154*	*14,008*	*233*	*58*	*26*

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	106.2	21.7	1,228	1,568	1,907			
LP PINE	88.0	18.0	645	786	928			
PPINE	143.5	29.3	112	158	205			

TC TLOGSTVB

Log Stock Table - MBF

Project: DDEUCE

T33S R07E S01 T0227

T33S R07E S01 T0227

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	01	AREA 4	0227	196.00	25	85

Page 1
Date 2/5/2013
Time 9:33:53AM

Spp	S T	So	Gr	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 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	9																
WF		CR	CR	17	61		61	3.8			21	7	3	29						
WF		CR	CR	26	111	1.7	109	6.9			48	52		9						
WF		CR	CR	34	1,421	.9	1,409	89.3			160	129	98	265	151	216	129	260		
WF		Totals			1,593		1,578	66.2			229	188	102	303	151	216	129	260		
LP		CR	CR	13	11		11	1.6						11						
LP		CR	CR	17	120	2.4	117	17.3			60	23	33							
LP		CR	CR	26	45	12.0	39	5.8			14	7	18							
LP		CR	CR	34	535	5.2	507	75.3			205	156	97	49						
LP		Totals			710	5.1	674	28.3			280	186	148	59						
PP		CR	CR	17	22	3.6	21	16.3			5	7		9						
PP		CR	CR	26	12		12	9.5			7	6								
PP		CR	CR	32	19	9.4	17	13.0							17					
PP		CR	CR	34	83	4.1	80	61.1			34	14	15	16						
PP		Totals			136	4.4	130	5.5			46	27	15	25	17					
Total All Species					2,439	2.3	2,382	100.0			555	401	265	387	168	216	129	260		

Species Table Report

TblSpecies

Date: 02/05/2013
Page: 1

Table Name: SUNPASS

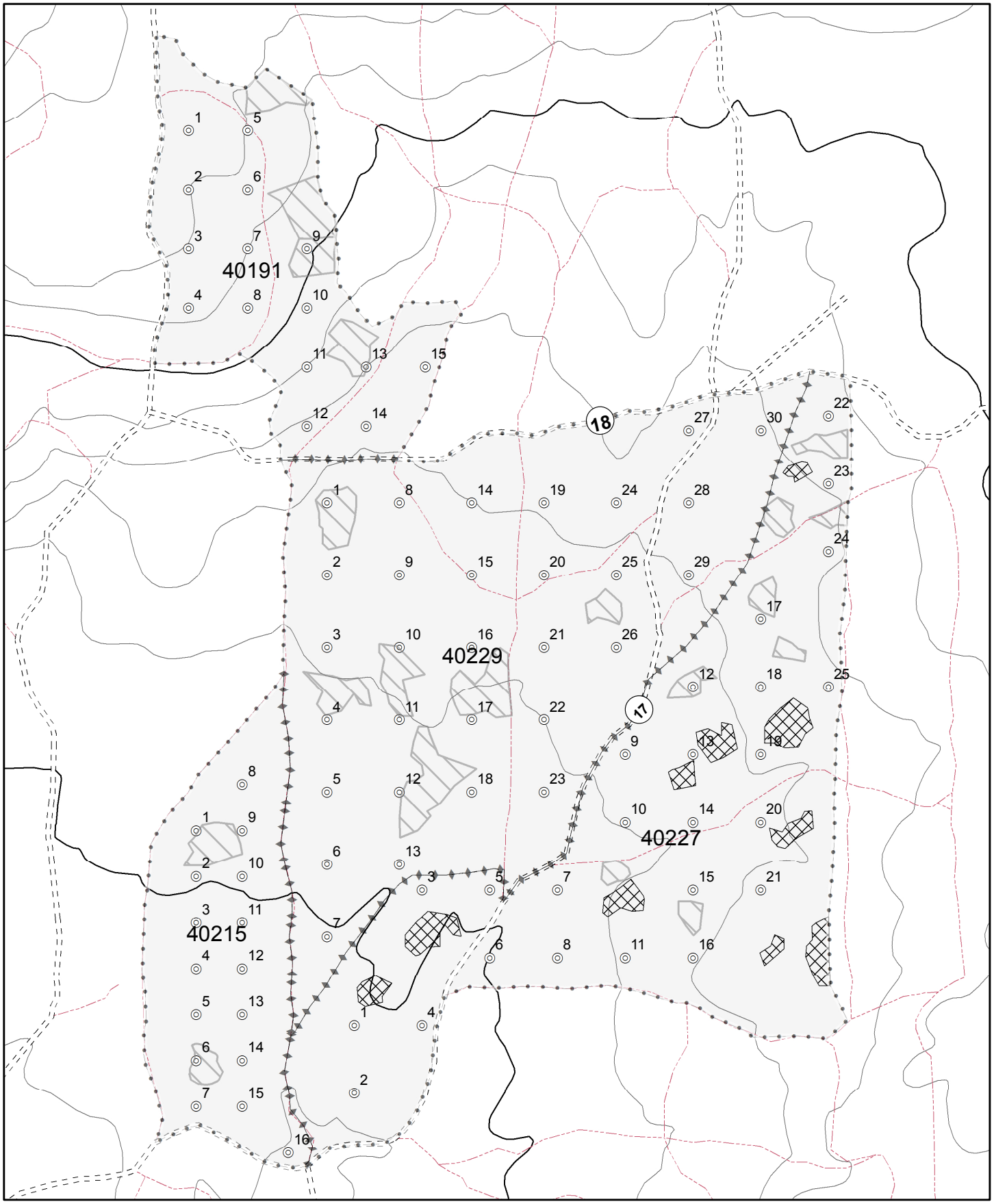
Code	Abrv	Description	Bark Ratio	ASubo Const	Form Factor	Wood Type	Comp-onent	Yield Table	Min Log Dia	Min Log Len	Max Log Len	Log Trim	Max Tree Dia	Max Tree Hgt.	BdFt Rule	CuFt Rule	Weight
1	PP	PPINE	.87	PP	.85	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	W	C	DF--EQUA--050	3	9	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

TblSortGrade

Sort/Grade Table

Table Name: SUNPASS **Date:** 02/05/2013

Sort	Grd	Abr	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	



Gross Acres: 617

Net Acres: 605

191: 91.3 ac 450' x 450'
229: 243.5 ac 550' x 550'
227: 196.4 ac 515' x 515'
215: 73.5 ac 350' x 350'

Total: 604.7 ac