

February 01, 2013 District: Klamath/Lake Date:

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

1 2/1/13



"STEWARDSHIP IN FORESTRY"

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"

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"

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
Ponderos	a Pine								
\$71.59	\$0.52	\$1.08	\$59.45	\$5.03	\$16.52	\$0.00	\$5.00	\$0.00	\$159.19
Lodgepol	e 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"

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

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	d	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	
		Tota	1 \$2,060.00	
Road Shaping and Construct/Improve Lead	d 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
	roject # 2 Sumi	mary		
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	

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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

341-13-86

Other Costs

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

Spot Rocking	g - Delivered	Rock Spreading (Grader)	
3/4 -	Rock Size	15	Total Grader Hours	
944	Cubic Yards	\$105.50	Cost per Hour	
1.5	Tons per Cubic Yard	\$1,582.50	 Total	
1416	Tons			
\$13.00	Cost per ton (delivered)	20	Water Truck Hours	
\$18,408.00	Total	\$88.00	Cost per Hour	
\$2.26	er MBF	\$1,760.00	Total	
	Quote 12/13/12 3 mile Pit	Grade prior to R	ocking	
		14	Total Grader Hours	
		\$105.50	Cost per Hour	
		\$1,477.00	Total	
		\$4,819.50 \$0.59	Total Grading per MBF	
	Project #5 Summary			

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

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:	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 Abat	ement (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/D	ay	100 Days of Dust Abatement	
	12	Loads p	er Day	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 \$5,616.00 Total Cost for Log Branding

\$40,986.00 Total Other Costs

\$4.34 per MBF \$0.69 per MBF

\$5.03 per MBF

DOUBLE DEUCE

341-13-86 Cruise Report



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

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

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

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

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

GREEN PULP VOLUME:

^{*}For Appraisal Purposes Sugar Pine Volumes not Included.

This volume was obtained from the fixed plot cruise $(5.0^{\circ} - 10.0^{\circ})$ DBH). All material was graded green pulp, see grade table for minimum standards.

White Fir	223
Ponderpsa Pine	234
Lodgepole Pine	127

TOTAL GREEN PULP VOLUME: 584 MBF

	ATS				ST PROJE	TATIST CT	TICS DDEUCE			PAGE DATE 2	1 2/5/2013
TWP	RGE	SECT TR	RACT		TYPE		RES	PLOTS	TREES	CuFt	BdFt
32S	07E	36 AI	REA 1		0191		91.00	15	88_	1	E
				•	TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		PLOTS	TREES	;	PER PLOT	r	TREES	-	TREES		
TOTA	L	15	88		5.9			***************************************			
CRUIS		8	49		6.1		4,829		1.0		
	COUNT										
REFOI COUN		7	39		5.6						
BLAN		,			210						
100 %	1										
" ! '! . ! . !				STA	ND SUM	MARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
PPINE		27	31.8	15.6	49	10.6	42.0	3,843	3,776	898	898
WHIT		21	19.1	19.2	63	8.7	38.3	6,879	6,841	1,322	1,322
SUG P		1 49	2.2 53.1	12.4 <i>16.8</i>	36 <i>54</i>	0.5 20.0	1.9 82.1	111 <i>10,834</i>	111 <i>10,728</i>	27 2,246	27 2,246
IUIA	LL .	49	33.1	10.0	34	20.0	02.1	10,634	10,728	2,240	2,240
CONF		E LIMITS OF TIMES OUT (WILL BE	E WITHIN	THE SAMPI	LE ERROR			
CL:	68.1 %	COEFF			SAMPI	E TREES	S - BF	#	OF TREES	S REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	L(OW	AVG	HIGH		5	10	15
PPINE WHITI		103.5 78.1	20.3 17.5		130 421	163 510	196 599				
SUG P		76.1	17.3		421	310	399				
TOTA		108.4	15.5		261	309	357		470	118	52
CL:	68.1 %	COEFF			SAMPI	E TREES	S - CF	#	FOF TREES	S REQ.	INF. POP.
·***	1.0	VAR.%	S.E.%	LC	OW	AVG	HIGH		5	10	15
PPINE		81.4	16.0		31	36	42				
WHITI SUG P		67.1	15.0		80	94	108				
TOTA		00.2	12.9		53	61	68		326	82	36
		90.3									
CL:	68.1%	90.3 COEFF			TDEES	ACDE			OF DLOTS	S DEO	INE DOD
	68.1 % 1.0	COEFF		LC	TREES		HIGH	#	OF PLOTS		INF. POP.
CL: SD: PPINE	1.0		S.E.% 23.8	LC	OW 24	ACRE AVG 32	HIGH 39	ł	FOF PLOTS	S REQ. 10	INF. POP.
SD: PPINE WHITI	1.0 E F	COEFF VAR.% 89.0 101.3	S.E.% 23.8 27.1	LC	OW 24 14	32 19	39 24	<i>‡</i>			
SD: PPINE WHITI SUG P	1.0 E F PINE	COEFF VAR.% 89.0 101.3 263.9	S.E.% 23.8 27.1 70.6	LC	24 14 1	32 19 2	39 24 4	#	5		15
SD: PPINE WHITI SUG P TOTA	1.0 E F PINE	COEFF VAR.% 89.0 101.3 263.9 59.0	S.E.% 23.8 27.1	LC	OW 24 14	32 19	39 24		5 149	. 37	
SD: PPINE WHITI SUG P TOTA CL:	1.0 E F PINE AL 68.1 %	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF	S.E.% 23.8 27.1 70.6 15.8		24 14 1 45 BASAL	32 19 2 53 AREA/A	39 24 4 61 CRE		5 149 4 OF PLOTS	. 37 S REQ.	15 17 INF. POP.
SD: PPINE WHITI SUG P TOTA CL: SD:	1.0 E F PINE AL 68.1 %	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.%	S.E.% 23.8 27.1 70.6 15.8 S.E.%		24 14 1 45 BASAL	AVG 32 19 2 53 AREA/A AVG	39 24 4 61 CRE HIGH		5 149	. 37	15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE	1.0 E F PINE AL 68.1 %	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.%	S.E.% 23.8 27.1 70.6 15.8 S.E.%		DW 24 14 1 45 BASAL DW 33	32 19 2 53 AREA/A AVG	39 24 4 61 CRE HIGH 51		5 149 4 OF PLOTS	. 37 S REQ.	15 17 INF. POP.
SD: PPINE WHITI SUG P TOTA CL: SD:	1.0 E F PINE AL 68.1 % 1.0 E E F	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.%	S.E.% 23.8 27.1 70.6 15.8 S.E.%		24 14 1 45 BASAL	AVG 32 19 2 53 AREA/A AVG	39 24 4 61 CRE HIGH		5 149 4 OF PLOTS	. 37 S REQ.	15 17 INF. POP.
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI	1.0 E F PINE AL 68.1 % 1.0 E F PINE	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0		24 14 1 45 BASAL DW 33 28	AVG 32 19 2 53 AREA/A AVG 42 38	39 24 4 61 CRE HIGH 51 48		5 149 4 OF PLOTS	. 37 S REQ.	15 17 INF. POP.
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA	1.0 E F PINE AL 68.1 % 1.0 E F PINE	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6		24 14 1 45 BASAL DW 33 28 1 69	AVG 32 19 2 53 AREA/A AVG 42 38 2 82	39 24 4 61 CRE HIGH 51 48 3	‡	5 149 # OF PLOTS 5	37 S REQ. 10	17 INF. POP. 15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 %	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6	LC	24 14 1 45 BASAL DW 33 28	AVG 32 19 2 53 AREA/A AVG 42 38 2 82	39 24 4 61 CRE HIGH 51 48 3	‡	5 149 # OF PLOTS 5	37 S REQ. 10	17 INF. POP. 15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6	LC 2	24 14 1 45 BASAL DW 33 28 1 69 NET BE	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 82 F/ACRE AVG 3,776	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630	‡	5 149 FOF PLOTS 5 142 FOF PLOTS	37 S REQ. 10 36 S REQ.	15 17 INF. POP. 15 16 INF. POP.
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0 E F	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7 99.8	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6 26.7	LC 2	24 14 1 45 BASAL DW 33 28 1 69 NET BF	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 E/ACRE AVG 3,776 6,841	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630 8,666	‡	5 149 FOF PLOTS 5 142 FOF PLOTS	37 S REQ. 10 36 S REQ.	15 17 INF. POP. 15 16 INF. POP.
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P SD: PPINE WHITI SUG P	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0 E F	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7 99.8 263.9	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6 26.7 70.6	LC 2	24 14 1 1 45 BASAL DW 33 28 1 69 NET BF DW 2,921 5,016 33	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 E/ACRE AVG 3,776 6,841 111	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630 8,666 190	‡	5 149 # OF PLOTS 5 142 # OF PLOTS 5	37 S REQ. 10 36 S REQ. 10	15 17 INF. POP. 15 16 INF. POP. 15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7 99.8 263.9 63.9	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6 26.7	LC 2	DW 24 14 1 45 BASAL DW 33 28 1 69 NET BE DW 2,921 5,016 33 4,896	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 8/ACRE AVG 3,776 6,841 111 10,728	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630 8,666 190 12,560	<i>‡</i>	5 149 # OF PLOTS 5 142 # OF PLOTS 5	37 S REQ. 10 36 S REQ. 10	15 17 INF. POP. 15 16 INF. POP. 15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: CL:	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7 99.8 263.9 63.9 COEFF	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6 26.7 70.6 17.1	LC 2 5 8	24 14 1 45 BASAL DW 33 28 1 69 NET BF DW 2,921 5,016 33 3,896	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 E/ACRE AVG 3,776 6,841 111 10,728 JFT FT/A	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630 8,666 190 12,560 CRE	<i>‡</i>	5 149 # OF PLOTS 5 142 # OF PLOTS 5	37 S REQ. 10 36 S REQ. 10 44 S REQ.	15 17 INF. POP. 16 INF. POP. 15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0 E F PINE AL	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7 99.8 263.9 63.9 COEFF VAR.%	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6 26.7 70.6 17.1 S.E.%	LC 2 5 8	24 14 14 15 BASAL DW 33 28 1 69 NET BF DW 2,921 5,016 33 3,896 NET CU	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 E/ACRE AVG 3,776 6,841 111 10,728 JFT FT/A AVG	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630 8,666 190 12,560 CRE HIGH	<i>‡</i>	5 149 # OF PLOTS 5 142 # OF PLOTS 5	37 S REQ. 10 36 S REQ. 10	15 17 INF. POP. 15 16 INF. POP. 15
SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: SD: PPINE WHITI SUG P TOTA CL: CL:	1.0 E F PINE AL 68.1 % 1.0 E F PINE AL 68.1 % 1.0 E F PINE AL	COEFF VAR.% 89.0 101.3 263.9 59.0 COEFF VAR.% 83.6 97.3 263.9 57.6 COEFF VAR.% 84.7 99.8 263.9 63.9 COEFF	S.E.% 23.8 27.1 70.6 15.8 S.E.% 22.3 26.0 70.6 15.4 S.E.% 22.6 26.7 70.6 17.1	LC 2 5 8	24 14 1 45 BASAL DW 33 28 1 69 NET BF DW 2,921 5,016 33 3,896	AVG 32 19 2 53 AREA/A AVG 42 38 2 82 E/ACRE AVG 3,776 6,841 111 10,728 JFT FT/A	39 24 4 61 CRE HIGH 51 48 3 95 HIGH 4,630 8,666 190 12,560 CRE	<i>‡</i>	5 149 # OF PLOTS 5 142 # OF PLOTS 5	37 S REQ. 10 36 S REQ. 10 44 S REQ.	15 17 INF. POP. 16 INF. POP. 15

TC TI	.OGST	'VB					Lo	g Sto	ek Ta	able - l	MBF									
								oject:			EUCE									
T32S Twp 32S	R071 Rg 07	ge	S	0191 ec 36	Trac			Туре 0191		Acres 91.0		Plots 15	Samı	ole Tre	es]	S R07 Page Date Time	E S36 7 1 2/5/20 9:25:		Į.
s	So (Gr	Log	G	ross	%	Net	%			Net Vo	lume by	y Scali	ng Dia	meter iı	n Inche	S			
Spp T	rt c	le	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 PP	CR CR				21 39		21 39	6.2 11.3			10 22	4 16	7							
PP PP	CR CR	CR	. 32		34 256	2.4	34 250	9.9 72.7			111	70	38	18	16 13		18			
PP	CK	Tot			350	1.8	344	35.2			143	91	46				18			
WF	CR		17		9		9	1.5		·	6	4								
WF WF	CR CR		26 34		25 591	.6	25 588	4.1 94.5			18 15	7 76	104	97	91	120	29	56		
WF		Tot	als		626		623	63.8			38	87	104	97	91	120	29	56		
SP	CR	CR	. 28		10		10	100.0	ļ		10								<u> </u>	
SP		Tot	als		10		10	1.0			10									
Total All	l Speci	es			986		976	100.0			191	178	150	115	120	120	47	56		

TC TSTATS				ST	ATIS'				PAGE DATE 2	12/5/2013
TWP RGE	SECT TE	RACT				DDEUCE	DI OTC		CuFt	BdFt
				TYPE	A	CRES	PLOTS	TREES	Curt	
33S 07E	01 AI	REA 2		0215		74.00	15	117	<u>i</u>	Е
				TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
	PLOTS	TREES		PER PLOT	1	TREES	7	TREES		
TOTAL	15	117		7.8						
CRUISE	8	64		8.0		7,597		8.		
DBH COUN	Γ .									
REFOREST COUNT	7	53		7.6						
BLANKS	•			710						
100 %										
			STA	ND SUM	MARY	1 100 10				
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BĘ/AC	CF/AC	CF/AC
WHITE F	33	50.5	17.0	59	19.4	80.0	12,137	11,933	2,389	
PPINE	20	34.3	17.5	50	13.7	57.3	5,840	5,657	1,163	•
LP PINE	11	17.8	13.9	49	5.0	18.7	2,159	2,119	450	
TOTAL	64	102.7	16.7	54	38.2	156.0	20,136	19,709	4,003	4,003
68.	CE LIMITS OF 1			WILL BE	E WITHII	N THE SAMPI	LE ERROR			
CL: 68.1 %	6 COEFF			SAMPL	E TREE	S - BF	#	OF TREES	REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	ow	AVG	HIGH		5	10	15
WHITE F PPINE	93.8 108.0	16.3 24.8		315 258	376 343	437 428				
LP PINE	61.4	24.6 19.4		108	135	161				
TOTAL	103.9	13.0		282	324	366		432	108	48
CL: 68.1 %	6 COEFF			SAMPI	E TREE	S-CE	#	OF TREES	REO	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	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		222	81	36
TOTAL	89.8	11.2		54	61	68		323		
CL: 68.1 %				TREES			#	OF PLOTS		INF. POP.
SD: 1.0 WHITE F	VAR.% 104.7	S.E.% 28.0	L	OW 36	AVG 51	HIGH 65		5	10	15
PPINE	82.7	22.1		36 27	34	42				
LP PINE	179.8	48.1		9	18	26				
TOTAL	51.6	13.8		89	103	117		114	29	13
CL: 68.1 %	6 COEFF			BASAL	AREA/A	ACRE	#	OF PLOTS	REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
WHITE F	85.0	22.7		62	80	98				
PPINE	77.9	20.8		45 10	57	69 27				
LP PINE TOTAL	169.2 <i>40.6</i>	45.2 10.9		10 139	19 <i>156</i>	27 173		71	18	8
CL: 68,1 %		1 (4.7			·····	27-2				
SD: 1.0	VAR.%	S.E.%	1.	NET BE OW	VACRE AVG	HIGH	#	FOF PLOTS 5	REQ. 10	INF. POP.
WHITE F	80.2	3.E.% 21.4			11,933	14,490		<u> </u>	10	13
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		7,262	19,709	22,155		92	23	10
CL: 68.1 %	6 COEFF			NET CU	JFT FT/	ACRE	#	OF PLOTS	REQ.	INF. POP.
SD: 1,0	VAR.%	S.E.%		ow	AVG	HIGH		5	10	15
WHITE F	81.5	21.8		1,869	2,389	2,910				
PPINE LP PINE	75.3 148.2	20.1 39.6		929 272	1,163 450	1,397 628				
LT FINE	140.2	39.0		LIL	430	028				

TC TL	OGST	VΒ					g Stoo	ek T	able - DDI	MBF EUCE								,	
T33S Twp 33S	R071 R ₁ 07	ge	S	ec Tr	act E A 2		Туре 0215		Acres		Plots 15	Samp	ole Tree	es	I	S R07 Page Date Time	E S01 7 1 2/5/20 9:29:		ĺ
s	So (Gr	Log	Gross	%	Net	%			Net Vo	lume by	y Scali	ng Diai	meter ir	Inche	s			
Spp T	rt o	le	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+
WF	CR	CR	17	54		54	6.1			29	7		4	14					
WF	CR	CR		39		39	4.4			31	8								
WF	CR	CR	34	805	1.9	790	89.5	ļ		82	159	141	104	98	96	75	34		
WF		Tota	als	898	1.7	883	60.5			142	174	141	108	112	96	75	34		
PP	CR			8		8	1.8					8							
PP	CR			24	4.5	24 30	5.8 7.2			1,			1. (10		15		
PP PP	CR CR			32 13	4.3	13	3.1			16			14			13			
PP	CR		- 1	20	10.6	18	4.2									1.5	18		
PP	CR	CR		22		22	5.3										22		
PP	CR	CR	26	30		30	7.2			30									
PP	CR			21		21	4.9								21				
PP	CR			15		15	3.5							15					
PP	CR			83	3.5	80	19.1				2.0	4.0	0.4		26	i	22		
<u>PP</u>	CR	CR	34	166	4.3	158	37.8	_		39	36	40	25		19				
PP		Tota	als	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		Tota	ıls	160	1.8	157	10.8			63	30	64							
Total All	Speci	es		1,490	2.1	1,458	100.0			289	240	252	147	127	171	121	110		

				ST PROJEC	ATIST CT	ICS DDEUCE			PAGE DATE 2	1 2/5/2013
TWP RGE	SECT TR	ACT		TYPE		RES	PLOTS	TREES	CuFt	BdFt
33S 07E		REA 3		0229		244.00	30	230	1	E
	, , , , , , , , , , , , , , , , , , ,			TREES	-	ESTIMATED TOTAL	1	PERCENT SAMPLE	-	
	PLOTS	TREES		PER PLOT		TREES	-	TREES		
TOTAL	30	230		7.7						
CRUISE DBH COUNT REFOREST	15	104		6.9		18,182		.6		
COUNT BLANKS 100 %	15	126		8.4						
			STA	ND SUMN	IARY					
	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
	TIMES OUT (WILL BE	WITHIN	THE SAMPI	LE ERROR			
CL: 68.1 %	COEFF			SAMPL			#	OF TREES		INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH 519		5	10	1:
WHITE F PPINE	80.2 161.9	11.3 25.0		413 130	466 173	216				
LP PINE	78.9	23.8		124	163	201				
TOTAL	111.5	10.9		279	313	347		497	124	5.5
CL: 68.1 %	COEFF			CAMDI					O DEO	INF. POP.
				SAMPL	E TREES	S - CF	#	OF TREES	S KEŲ.	HALL OF
SD: 1.0	VAR.%	S.E.%	L	SAMPL OW	E TREES	S - CF HIGH	#	FOF TREES 5	8 REQ. 10	
WHITE F	69.4	9.8	L	OW 75	AVG 83	HIGH 91				
WHITE F PPINE	69.4 117.8	9.8 18.2	L	OW 75 30	83 37	HIGH 91 44				
WHITE F PPINE LP PINE	69.4 117.8 54.6	9.8 18.2 16.5	L	75 30 29	83 37 35	HIGH 91 44 41	.	5	10	1;
WHITE F PPINE LP PINE TOTAL	69.4 117.8 54.6 <i>91.</i> 8	9.8 18.2	L	75 30 29 54	83 37 35 59	HIGH 91 44		337	84	3:
WHITE F PPINE LP PINE TOTAL CL: 68.1 %	69.4 117.8 54.6 <i>91.8</i> COEFF	9.8 18.2 16.5 9.0		OW 75 30 29 54 TREES/	83 37 35 59 ACRE	91 44 41 64		5 337 FOF PLOTS	84 S REQ.	3: INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0	69.4 117.8 54.6 <i>91.8</i> COEFF VAR.%	9.8 18.2 16.5 9.0 S.E.%		OW 75 30 29 54 TREES/	83 37 35 59 ACRE AVG	91 44 41 64 HIGH		337	84	3: INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 %	69.4 117.8 54.6 <i>91.8</i> COEFF	9.8 18.2 16.5 9.0		OW 75 30 29 54 TREES/	83 37 35 59 ACRE	91 44 41 64		5 337 FOF PLOTS	84 S REQ.	3: INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6		OW 75 30 29 54 TREES/OW 26	83 37 35 59 ACRE AVG 33	HIGH 91 44 41 64 HIGH 40		5 337 FOF PLOTS	84 S REQ.	3: INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3		OW 75 30 29 54 TREES/OW 26 25	83 37 35 59 ACRE AVG 33 32	HIGH 91 44 41 64 HIGH 40 39		5 337 FOF PLOTS	84 S REQ.	3: INF. POP. 1:
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6		OW 75 30 29 54 TREES/OW 26 25 6	AVG 83 37 35 59 ACRE AVG 33 32 9 75	HIGH 91 44 41 64 HIGH 40 39 13 83	į	5 337 FOF PLOTS 5	84 S REQ. 10	3 INF. POP. 1
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.%	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH	į	5 337 4 OF PLOTS 5	84 S REQ. 10	3 INF. POP. 1.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67	į	5 337 FOF PLOTS 5 145 FOF PLOTS	84 S REQ. 10 36 S REQ.	3: INF. POP. 1: INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49	į	5 337 FOF PLOTS 5 145 FOF PLOTS	84 S REQ. 10 36 S REQ.	3 INF. POP. 1.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14	į	5 337 4 OF PLOTS 5 145 4 OF PLOTS 5	84 S REQ. 10 36 S REQ.	3 INF. POP. 1 INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE LP PINE LP PINE LP PINE LP PINE LP PINE LTOTAL	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33 7 96	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49	<i>‡</i>	5 337 FOF PLOTS 5 145 FOF PLOTS 5	36 S REQ. 10 36 S REQ. 10	3. INF. POP. 1. INF. POP. 1. INF. POP. 1.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE LOTAL CL: 68.1 %	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119	<i>‡</i>	5 337 4 OF PLOTS 5 145 4 OF PLOTS 5	84 S REQ. 10 36 S REQ. 10 37 S REQ. 10	13 37 INF. POP. 13 INF. POP. 13 INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE LP PINE LP PINE LP PINE LP PINE LP PINE LTOTAL	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1	L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33 7 96 NET BFOW 7,435	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14	<i>‡</i>	5 337 4 OF PLOTS 5 145 4 OF PLOTS 5	36 S REQ. 10 36 S REQ. 10	33. INF. POP. 11. INF. POP. 11. INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE LP PINE LP PINE LP PINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE TOTAL	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6 S.E.% 20.7	L	OW 75 30 29 54 TREES! OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF OW 7,435 2,473	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE AVG 9,374 3,080	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119 HIGH 11,313 3,687	<i>‡</i>	5 337 4 OF PLOTS 5 145 4 OF PLOTS 5	84 S REQ. 10 36 S REQ. 10 37 S REQ. 10	33. INF. POP. 11. INF. POP. 11. INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE LP PINE LP PINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3 106.1 200.4	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6 S.E.% 20.7 19.7 37.2	L	OW 75 30 29 54 TREES/ OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF OW 7,435 2,473 763	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE AVG 9,374 3,080 1,216	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119 HIGH 11,313 3,687 1,669	<i>‡</i>	337 # OF PLOTS 5 145 # OF PLOTS 5	36 S REQ. 10 36 S REQ. 10 37 S REQ. 10	33. INF. POP. 1: INF. POP. 1: INF. POP. 1:
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.%	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6 S.E.% 20.7	L	OW 75 30 29 54 TREES/ OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF OW 7,435 2,473 763	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE AVG 9,374 3,080	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119 HIGH 11,313 3,687	<i>‡</i>	5 337 4 OF PLOTS 5 145 4 OF PLOTS 5	84 S REQ. 10 36 S REQ. 10 37 S REQ. 10	3 INF. POP. 1 INF. POP. 1 INF. POP. 1
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % CL: 68.1 % CL: 68.1 % SD: 1.0	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3 106.1 200.4 76.0 COEFF	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6 S.E.% 20.7 19.7 37.2 14.1	L L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF OW 7,435 2,473 763 1,739 NET CU	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE AVG 9,374 3,080 1,216 3,670 FT FT/A	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119 HIGH 11,313 3,687 1,669 15,601 CRE	<i>y</i>	337 # OF PLOTS 5 145 # OF PLOTS 5 135 # OF PLOTS 5	36 S REQ. 10 36 S REQ. 10 60 S REQ.	33. INF. POP. 1: INF. POP. 1: INF. POP. 1: INF. POP. 1: INF. POP.
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3 106.1 200.4 76.0 COEFF VAR.%	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6 S.E.% 20.7 19.7 37.2 14.1	L L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF OW 7,435 2,473 763 1,739 NET CU OW	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE AVG 9,374 3,080 1,216 3,670 FT FT/A AVG	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119 HIGH 11,313 3,687 1,669 15,601 CRE HIGH	<i>y</i>	337 # OF PLOTS 5 145 # OF PLOTS 5 135 # OF PLOTS 5	10 84 S REQ. 10 36 S REQ. 10 34 S REQ. 10 60	13 37 INF. POP. 13 INF. POP. 13 INF. POP. 13 INF. POP. 13
WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE LP PINE LP PINE TOTAL CL: 68.1 % SD: 1.0 WHITE F PPINE LP PINE TOTAL CL: 68.1 % CL: 68.1 % SD: 1.0	69.4 117.8 54.6 91.8 COEFF VAR.% 119.0 114.6 180.6 59.2 COEFF VAR.% 111.3 104.0 183.5 57.0 COEFF VAR.% 111.3 106.1 200.4 76.0 COEFF	9.8 18.2 16.5 9.0 S.E.% 22.1 21.3 33.6 11.0 S.E.% 20.7 19.3 34.1 10.6 S.E.% 20.7 19.7 37.2 14.1	L L	OW 75 30 29 54 TREES/OW 26 25 6 66 BASAL OW 44 33 7 96 NET BF OW 7,435 2,473 763 1,739 NET CU	AVG 83 37 35 59 ACRE AVG 33 32 9 75 AREA/A AVG 56 41 11 107 /ACRE AVG 9,374 3,080 1,216 3,670 FT FT/A	HIGH 91 44 41 64 HIGH 40 39 13 83 CRE HIGH 67 49 14 119 HIGH 11,313 3,687 1,669 15,601 CRE	<i>y</i>	337 # OF PLOTS 5 145 # OF PLOTS 5 135 # OF PLOTS 5	36 S REQ. 10 36 S REQ. 10 60 S REQ.	37 INF. POP. 13 INF. POP. 13 INF. POP. 13 INF. POP. 13

TC TL	.OGST	VΒ					Lo	g Sto	ck T	able -	MBF									
							Pr	oject:		DDI	EUCE									
T33S 1 Twp 33S	R07] Rg 07	ge	S	ec	Tract AREA			Туре 0229		Acres 244.0		Plots 30	Samı	ole Tre	es	I I	S R07 Page Date Time	E S01 7 1 2/5/20 9:31:		[
S	So 6	Gr	Log	Gro	ss	%	Net	%			Net Vo	lume b	y Scali	ng Dia	meter ii	n Inche	s			
Spp T	rt (le	Len	MB	F	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+
WF WF	CR CR				55 55	10.0	55 139	2.4 6.1			25 78	18 61		11						
WF	CR	CR	34	2,1	22	1.4	2,093	91.5	<u> </u>		169	204	398	288	153	609	89	184		
WF		Tot	als	2,3	32	1.9	2,287	68.6			272	283	398	299	153	609	89	184		
PP PP	CR CR	CR	12 13		14 17		14 17	1.8 2.3						17				14		
PP PP	CR CR	CR	17 20		82 10	9.6	74 10	9.9			34	11	30	10	10					
PP PP PP	CR CR CR	CR	26 32 34	1	97 70 81	1.8 2.3 1.6	194 166 277	25.8 22.1 36.8			76 192	70 33	52	48 24		60	61			
PP		Tot	als	7	71	2.6	752	22.5		,	301	113	82	90	31	60	61	14		
LP LP LP	CR CR CR	CR	26		37 20 47	11.0	33 20 244	11.0 6.8 82.2			3 20 91	18	12 44	70	39					************
LP		Tota			04	2.3	297	8.9			114	18	56	70						
Total All	Speci	es		3,4	07	2.1	3,336	100.0			688	414	536	459	223	669	150	197		

TC TSTATS				ST PROJE	CATIST	TCS DDEUCE			PAGE DATE 2	1 2/5/2013
TWP RGE	SECT TR	RACT		TYPE	AC	RES	PLOTS	TREES	CuFt	BdFt
33S 07E	01 AF	REA 4		0227		196.00	25	152	1	Е
				TREES		ESTIMATED TOTAL	J	PERCENT SAMPLE		
	PLOTS	TREES		PER PLOT	•	TREES	-	TREES		
TOTAL	25	152		6.1						
CRUISE DBH COUNT REFOREST COUNT	14 11	85 67		6.1		12,402		.7		
BLANKS 100 %										
100 70			STA	ND SUMI	MARY					
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
WHITE F	42	27.4	18.1	58	11.5	48.7	8,125	8,051	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
CONFIDENCI 68.1	E LIMITS OF T		_	WILL BE	WITHIN	THE SAMPI	LE ERROR			
CL: 68.1 %	COEFF			SAMPL	E TREES	S - BF	#	OF TREES	S REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	1.
WHITE F	108.1	16.7		466	559	652				
LP PINE PPINE	48.4 75.4	8.3 26.6		114 128	125 174	135 221				
TOTAL	138.3	26.6 15.0		293	345	396		765	191	8.
CL: 68.1 %	COEFF	10.0		· · ·						
SD: 1.0	VAR.%	S.E.%	1	SAMPL OW	E TREES AVG	S - CF HIGH	#	FOF TREES 5	10	INF. POP.
WHITE F	92.9	14.3	T.	86	100	114		3	10	1.
	92.9			***						
LP PINE	43.4	7.4		26	28	30				
LP PINE PPINE		7.4 21.5		26 31	28 40	30 48				
	43.4							526	132	58
PPINE	43.4 61.0	21.5		31 57	40 65	48				
PPINE TOTAL	43.4 61.0 <i>114.7</i>	21.5		31	40 65	48		<i>526</i> # OF PLOTS 5		58 INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F	43.4 61.0 114.7 COEFF VAR.% 119.2	21.5 12.4 S.E.% 24.3	I.	31 57 TREES/ OW 21	40 65 ACRE AVG 27	48 73 HIGH 34	#	OF PLOTS	S REQ.	INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0	21.5 12.4 S.E.% 24.3 17.8	L	31 57 TREES/ OW 21 25	40 65 ACRE AVG 27 31	48 73 HIGH 34 36	#.	OF PLOTS	S REQ.	INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4	21.5 12.4 S.E.% 24.3 17.8 29.9	L	31 57 TREES/ OW 21 25 4	40 65 ACRE AVG 27 31 5	48 73 HIGH 34 36 7	#	# OF PLOTS 5	S REO. 10	INF. POP. 1:
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0	21.5 12.4 S.E.% 24.3 17.8	L	31 57 TREES/ OW 21 25 4 54	40 65 ACRE AVG 27 31 5 63	48 73 HIGH 34 36 7 72		FOF PLOTS 5	S REQ. 10	INF. POP. 1:
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 %	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3		31 57 TREES/ OW 21 25 4 54 BASAL	40 65 ACRE AVG 27 31 5 63 AREA/A	48 73 HIGH 34 36 7 72		OF PLOTS 5 204 FOF PLOTS	51 3 REQ.	INF, POP,
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.%		31 57 TREES/ OW 21 25 4 54 BASAL OW	40 65 ACRE AVG 27 31 5 63 AREA/A AVG	48 73 HIGH 34 36 7 72 CRE HIGH		FOF PLOTS 5	S REQ. 10	INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9		31 57 TREES/ OW 21 25 4 54 BASAL OW 38	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49	48 73 HIGH 34 36 7 72 CRE HIGH		OF PLOTS 5 204 FOF PLOTS	51 3 REQ.	INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.%		31 57 TREES/ OW 21 25 4 54 BASAL OW	40 65 ACRE AVG 27 31 5 63 AREA/A AVG	48 73 HIGH 34 36 7 72 CRE HIGH		OF PLOTS 5 204 FOF PLOTS	51 3 REQ.	INF, POP,
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1		31 57 TREES/ OW 21 25 4 54 BASAL OW 38 24	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29	48 73 HIGH 34 36 7 72 CRE HIGH 59 34		OF PLOTS 5 204 FOF PLOTS	51 3 REQ.	INF. POP. 1:
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2		31 57 TREES/ OW 21 25 4 54 BASAL OW 38 24 5	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9	#	# OF PLOTS 5 204 # OF PLOTS 5	51 5 REQ. 10 51 5 REQ. 10	INF. POP. 2. INF. POP. 1:
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 CL: 68.1 % CL: 68.1 %	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2	L	31 57 TREES/OW 21 25 4 54 BASAL OW 38 24 5 73	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9	#	# OF PLOTS 5 204 # OF PLOTS 5	51 5 REQ. 10 51 5 REQ. 10	INF. POP. 1: 22: INF. POP. 2: INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8	L	31 57 TREES/ OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807	#	OF PLOTS 204 FOF PLOTS 5 199	51 51 5 REQ. 10 50 5 REQ.	INF. POP. 1: 22: INF. POP. 2: INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8 18.6	L	31 57 TREES/ OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295 2,798	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051 3,439	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807 4,079	#	OF PLOTS 204 FOF PLOTS 5 199	51 51 5 REQ. 10 50 5 REQ.	INF. POP. 1: 22: INF. POP. 2: INF. POP.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8 18.6 30.4	D D	31 57 TREES/ OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295 2,798 463	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051 3,439 664	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807 4,079 866	#	FOF PLOTS 204 FOF PLOTS 5 199 FOF PLOTS 5	51 51 3 REQ. 10 50 5 REQ. 10	2. INF. POP. 1. 2. INF. POP. 1.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.% 106.9 91.3 148.7 74.7	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8 18.6	D D	31 57 TREES/OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295 2,798 463 0,300	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051 3,439 664 12,154	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807 4,079 866 14,008	£	# OF PLOTS 5 204 # OF PLOTS 5 199 # OF PLOTS 5	51 51 5 REQ. 10 50 5 REQ. 10	2; INF. POP. 1: 2. INF. POP. 1:
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % CL: 68.1 %	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.% 106.9 91.3 148.7 74.7 COEFF	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8 18.6 30.4 15.3	D.	31 57 TREES/OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295 2,798 463 0,300	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051 3,439 664 12,154	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807 4,079 866 14,008 CRE	£	OF PLOTS 204 FOF PLOTS 5 199 FOF PLOTS 5 233 FOF PLOTS	51 51 51 5 REQ. 10 50 5 REQ. 10 58 5 REQ.	22. INF. POP. 1: 20. INF. POP. 1: 20. INF. POP. 1: 20. INF. POP. 1: 20. INF. POP. 20.
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.% 106.9 91.3 148.7 74.7 COEFF VAR.%	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8 18.6 30.4 15.3	1. 1. 1.6 1.6	31 57 TREES/OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295 2,798 463 0,300 NET CU	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051 3,439 664 12,154 DFT FT/A	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807 4,079 866 14,008 CRE HIGH	£	# OF PLOTS 5 204 # OF PLOTS 5 199 # OF PLOTS 5	51 51 5 REQ. 10 50 5 REQ. 10	INF. POP. 1: 2: INF. POP. 1:
PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WHITE F LP PINE PPINE TOTAL CL: 68.1 % SD: 1.0 WIITE F LP PINE PPINE TOTAL CL: 68.1 % CL: 68.1 %	43.4 61.0 114.7 COEFF VAR.% 119.2 87.0 146.4 70.0 COEFF VAR.% 107.2 88.8 148.1 69.1 COEFF VAR.% 106.9 91.3 148.7 74.7 COEFF	21.5 12.4 S.E.% 24.3 17.8 29.9 14.3 S.E.% 21.9 18.1 30.2 14.1 S.E.% 21.8 18.6 30.4 15.3	1. 1. 1.6 1.6	31 57 TREES/OW 21 25 4 54 BASAL OW 38 24 5 73 NET BF OW 6,295 2,798 463 0,300	40 65 ACRE AVG 27 31 5 63 AREA/A AVG 49 29 7 85 VACRE AVG 8,051 3,439 664 12,154	48 73 HIGH 34 36 7 72 CRE HIGH 59 34 9 97 HIGH 9,807 4,079 866 14,008 CRE	£	OF PLOTS 204 FOF PLOTS 5 199 FOF PLOTS 5 233 FOF PLOTS	51 51 51 5 REQ. 10 50 5 REQ. 10 58 5 REQ.	INF. POP. 23 INF. POP. 13 24 INF. POP. 15

TC TL	OGST	VB				Lo	g Sto	ck T	able -	MBF								
						Pr	oject:		DD	EUCE								
T338 Twp 338	R07E Rg 07	(e	T02 Sec 01	e Tra			Туре 0227		Acres 196.		Plots 25	Samp	ole Tre 85	es]	SS R07 Page Date Fime	E S01 7 1 2/5/20 9:33:	
S	So C	Gr L	og	Gross	%	Net	%			Net Vo	lume b	y Scali	ng Dia	meter i	n Inche	es		
Ѕрр Т	rt d	e L	.en	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+
WF WF WF WF	CR CR	CR CR CR :	17 26	61 111 1,421	1.7	61 109 1,409	3.8 6.9 89.3			21 48 160	7 52 129	3 98	29 9 265		216	129	260	
WF		Totals	,	1,593		1,578	66.2			229	188	102	303	151	216	129	260	
LP LP LP LP	CR CR	CR CR CR :	17 26	11 120 45 535	2.4 12.0 5.2	11 117 39 507	1.6 17.3 5.8 75.3			60 14 205	23 7 156	33 18 97	11 49		, 1 · · · ·			
LP		Totals	;	710	5.1	674	28.3			280	186	148	59					
PP PP PP PP	CR CR	CR CR : CR :	26 32	22 12 19 83	3.6 9.4 4.1	21 12 17 80	16.3 9.5 13.0 61.1			5 7 34	7 6 14	15	9 16	17				
PP		Totals	<u> </u>	136	4.4	130	5.5			46	27	15	25	17				
Total All	Specie	s		2,439	2.3	2,382	100.0			555	401	265	387	168	216	129	260	

Species Table Report

TblSpecies

Table Name: SUNPASS

Date: 0

02/05/2013

Page: 1

Code	Abry	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	₽P	PPINE	.87	PP	.85	P	C	PPEQUA100	3	. 9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	<i>\\</i>	C	DFEQUA050	3	9	20	1.0	99	200	E	1	5000
3	LP	LP PINE	.96	DF	.9	P	C	LPEQUA100	3	9	20	1.0	99	200	E	1	4800
4	DF	DOUG-FIR	.92	DF	.87	D	C	DFEQUA050	3	9	20	1.0	99	200	E	1	5700
5	SP	SUG PINE	.87	PP	.84	P	, C	PPEQUA100	3	9	20	1.0	99	200	E	1	4800
6	IC	INC CED	.90	SS	.80	C	C	DFEQUA050	3	9	20	1.0	99	200	E	1	4500
7	RF	SH FIR	.924	DF	.89	Ŋ	C	DFEQUA050	3	9	20	1.0	99	200	E	1	5000

TblSortGrade

Sort/Grade Table

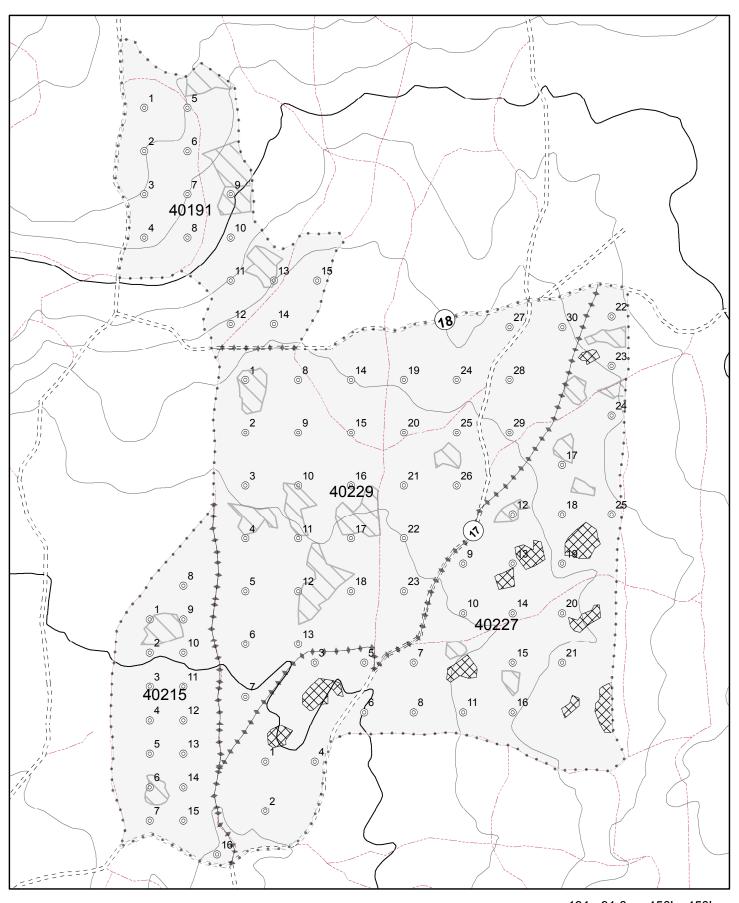
Table Name:

SUNPASS

Date:

02/05/2013

Sort	Grd	Abr	Dese			Max Dia				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