

Timber Sale Appraisal Noisy Thin Sale AT-341-2017-43-

District: Astoria Date: November 15, 2016

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$284,725.59	\$220.58	\$284,946.17
		Project Work:	\$0.00
		Advertised Value:	\$284,946.17



Sale AT-341-2017-43-

District: Astoria Date: November 15, 2016

Timber Description

Location: Portions of Sections 23, 24, 25, and 26, T8N, R7W, W.M., Clatsop County, Oregon.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	95
Western Hemlock / Fir	10	0	95
Alder (Red)	8	0	95

Volume by Grade	28	3 S	48	Camprun	Total
Douglas - Fir	28	698	175	0	901
Western Hemlock / Fir	3	3	72	0	78
Alder (Red)	0	0	0	1	1
Total	31	701	247	1	980

Comments: Pond Values Used: 3rd Quarter Calendar Year 2016 + September Local Pond Values.

Expected Markets: Warrenton, OR; Tillamook, OR; Willamina, OR; Philomath, OR; Longview, WA.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$972.73/MBF = \$1,264.66/MBF - \$311.93/MBF

WEIGHING COSTS = \$2.00/MBF (No Scaling Required)

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):

Branding and Painting: $1/MBF \times 980 MBF = 980$

Firewood Decking at Accessible Landings: 1hr/landing @\$129/hr x 3 landings = \$387

Line Pull Cost: \$40/MBF x 7.5 acres @ 6 MBF/acre = \$1,800 TOTAL Other Costs (with Profit & Risk to be added) = \$3,167

Other Costs (No Profit & Risk added): Machine Wash for Invasive Species: \$2,000 Weighing: \$2/MBF x 980 MBF = \$1,960

TOTAL Other Costs (No Profit & Risk added) = \$3,960

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary sheet)
TOTAL Road Maintenance: \$10,185/980 MBF = \$10.39/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

Western Hemlock / Fir 100.00% Alder (Red) 100.00%

Logging System: Track Skidder Process: Harvester Head Delimbing

yarding distance: Medium (800 ft) downhill yarding: No

tree size: Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF

loads / day: 10 bd. ft / load: 3000

cost / mbf: \$178.14
machines: Forwarder

Harvester



Sale AT-341-2017-43-

Date: November 15, 2016 **District: Astoria**

Logging Costs

Operating Seasons: 1.00

Profit Risk: 7%

Project Costs: \$0.00

Slash Disposal: \$0.00

Other Costs (P/R): \$3,167.00

Other Costs: \$3,960.00

Miles of Road

Road Maintenance:

\$10.39

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	3.0
Western Hemlock / Fir	\$0.00	3.0	4.0
Sitka Spruce	\$0.00	3.0	3.5
Alder (Red)	\$0.00	3.0	3.5

11/15/16 4



Sale AT-341-2017-43-

Date: November 15, 2016 **District: Astoria**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas -	Douglas - Fir								
\$178.14	\$10.91	\$4.47	\$91.00	\$3.23	\$20.14	\$0.00	\$0.00	\$4.04	\$311.93
Western H	Western Hemlock / Fir								
\$178.14	\$10.91	\$4.47	\$68.25	\$3.23	\$18.55	\$0.00	\$0.00	\$4.04	\$287.59
Alder (Red	1)								
\$178.14	\$10.91	\$4.47	\$78.00	\$3.23	\$19.23	\$0.00	\$0.00	\$4.04	\$298.02

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$611.90	\$299.97	\$0.00
Western Hemlock / Fir	\$0.00	\$472.88	\$185.29	\$0.00
Alder (Red)	\$0.00	\$518.60	\$220.58	\$0.00

5 11/15/16



Sale AT-341-2017-43-

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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	901	\$299.97	\$270,272.97
Western Hemlock / Fir	78	\$185.29	\$14,452.62
Alder (Red)	1	\$220.58	\$220.58

Gross Timber Sale Value

Recovery: \$284,946.17

Prepared By: Edward Holloran Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale:

Date:

Noisy Thin May 6, 2016

MBF: 980 \$\$/MBF: \$10.39

By:	Ed Holloran	
•		

Туре	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost	
Interim Operations and snow	Grader 14G Dump Truck 12CY				\$100 \$79		
Final Road Maintenance	Grader 14G Dump Truck 12CY FE Loader C966 Vibratory Roller Water Truck 2,500 gallon Labor	\$778 \$163 \$778 \$778 \$190	1 1 1 1	28 8 2 28 16	\$100 \$79 \$83 \$77 \$89 \$40	\$3,578 \$795 \$944 \$2,934 \$1,614 \$320	
Total							\$10,1

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader				

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Process - Grader	2	6.7	3.4	27
Vibratory Roller	2.0	6.7	3.4	27

	Process and compact: All crushed rock roads -
West B	Big Noise (I7 -Jct. = 2.17miles); East Big Noise (I1-I2 = 2.6 Miles); I9 - I10 (0.7 miles)
	t to I8 (0.16 miles); I5 to I6 (0.17 miles); 2B - 2B + 2C - 2D + 2E - 2F (0.9 miles),
	Grade & Process Total = 6.7miles

NOISY THIN FY 2016 TIMBER CRUISE REPORT

1. Sale Area Location: Area 2 is located in portions of Sections 23, 24, 25, and 26, T8N, R7W, W.M., Clatsop County, Oregon.

2. Fund Distribution: Fund:

BOF 100%

CSL 0%

Tax Code:

1-03 69% 4-03 31%

3. Sale Acreage by Area:

Area	Harvest Type	Gross Acres	Stream Buffer Acres	New R/W Acres	Existing R/W Acres	Net Acreage
1 R/W	R/W	2	-	-	-	2
2	PC	177	10	2	2	163
T	OTALS	179	10	2	2	165

- **4. Cruisers and Cruise Dates:** Area 2 was cruised by John Choate, Bryce Rodgers, and Norah Young with Ed Holloran. The cruise was completed in one day on **December 15, 2015**.
- **5.** Cruise Method and Computation: Area 1 R/W. was calculated applying road R/W acreage and using volume per acre from the sale Area the Right-of-Way is located in or adjacent to. One acre of the Right-of-Way is located outside of the timber sale and is all reproduction so no volume was applied to this acre.

<u>Area 2</u> is a partial cut unit. A variable plot cruise with a 27.78 BAF was used in the Area. These plots were located on a 12 chain by 5 chain grid, with a count/cruise plot ratio of 1 to 2. A total of 32 plots were sampled, with 13 measured plots and 19 count plots.

Cruisers used Allegro 2 data collectors, and were downloaded to the Atterbury <u>Super A.C.E.</u> program at the Astoria District for computing. See the attached <u>Cruise Design</u> for more details on the cruise method. The cruise calculations were processed in the Astoria District office.

AREAS	PROJECT	TRACT	CRUISE TYPE
1 R\W	NoisyT2	AREA1	RW
2	NoisvT2	AREA2	00PC, TAKE, STAY

After calculating the volume the volume was converted to tons for sale by weight using 7.5 pounds per board foot.

6. Timber Description: Area 1 R/W. The volume to be removed from the R/W is based on the cruise volumes for Area 2. The average volume per acre to be harvested (net) is approximately 19 MBF. All trees were cruised to a merchantable top of 6 inch DIB or 40% fp.

Area 2 is approximately a 35 to 40 year old plantation of Douglas-fir, with hemlock, some spruce and alder. The average take Douglas-fir tree size for harvest is approximately 13 inches DBH, with an average merchantable tree height of 39 feet. The average take hemlock tree size is approximately 10 inches DBH, with an average merchantable tree height of 23 feet. The average volume per acre to be harvested (net) is approximately 6 MBF. All trees were cruised to a merchantable top of 6 inch DIB or 40% fp. This unit was cruised to a leave basal area of 130 square feet, with an SDI of 33%.

Cedar is a reserved species.

7. Statistical Analysis: (See also "Statistics Reports," attached.)

Area	Target CV	Target SE%	Actual CV	Actual SE%
2	40	8	27.9	4.9

The statistics are for all areas and Take and Leave trees combined based on Net BF/Acre.

8. Take Volumes by Species and Log Grades for All Sale Areas by MBF: (See "Species, Sort Grade-Board Feet Volumes (Project)", "Statistics (Project)", and the "Stand Table Summary" attached). Volumes do not include "in-growth." The majority of defect and breakage was taken out during the cruise.

Species	DBH	Net Vol. MBF	2 Saw	3Saw	4 Saw	Camp Run	TONS* (Gross)	% Sale
Douglas-fir	13	901	28	698	175		6,888	92
W. Hemlock & True Fir	10 -	78	3	3	72		584	8
Alder	8	1				1	4	<1
TOTAL NET VOLUME		980	32	700	246	1		100
TONS*							7,476	

* 7.5 tons per MBF Douglas-fir conversion rate applied to all spp.

9	P	re	p	ar	ed	by	/ :	E	

Edward M. Holloran

Date: May 12, 2016

10. Approved by:

Date: MAY 25, 20/6

11. Attachments:

Cruise Plans & Maps (3)

Species, Sort, Grade Report (1)

Statistics Reports (2) Stand Table Report (1)

Log Stock Table Report MBF (2)

Log Stock Table Report Tons (2)

CRUISE DESIGN ASTORIA DISTRICT

Sa	lle Name: Noisy Thin Area(s) 1 & 2
	Arvest Type: CC PC CT "Automark Thinning" (circle one) Net BF or
Ap	pprox. Cruise Acres: 324 Estimated CV% 40 BA/Acre SE% Objective 8 BA/Acre
Pla	anned Sale Volume: 2.106 MMBF Estimated Sale Area Value/Acre: \$2,112
A.	Cruise Goals: (a) Grade minimum150 conifer and20 hardwood trees: (b) Sample56cruise plots; (c) Other goals (_X Determine "automark" thinning standards;X Determine log grades for sale value; _X Determine snag and leave tree species and sizes; Determine LWD (down wood) cubic feet and decay classes; Determine "diameter limit" harvest parameters;)
	Basal Area leave target 130 sq. ft. Cruiser needs to select 4 or 5 leave trees per plot.
В.	Cruise Design: 1. Plot Cruises: BAF 27.78
C.	 Tree Measurements: 1. Diameter: Minimum DBH to cruise is 8 "for conifers and 8" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
	2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
	3. Top Cruise Diameter (TCD): Minimum top outside bark (DOB) for conifer is <u>7</u> ", <u>7</u> " for <u>hardwoods</u> or <u>40</u> % of DOB at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of DOB @ FP for trees > 18" DBH.
	4. Form Factors: (1) Measure or estimate a 16' form factor for every conifer tree

measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the

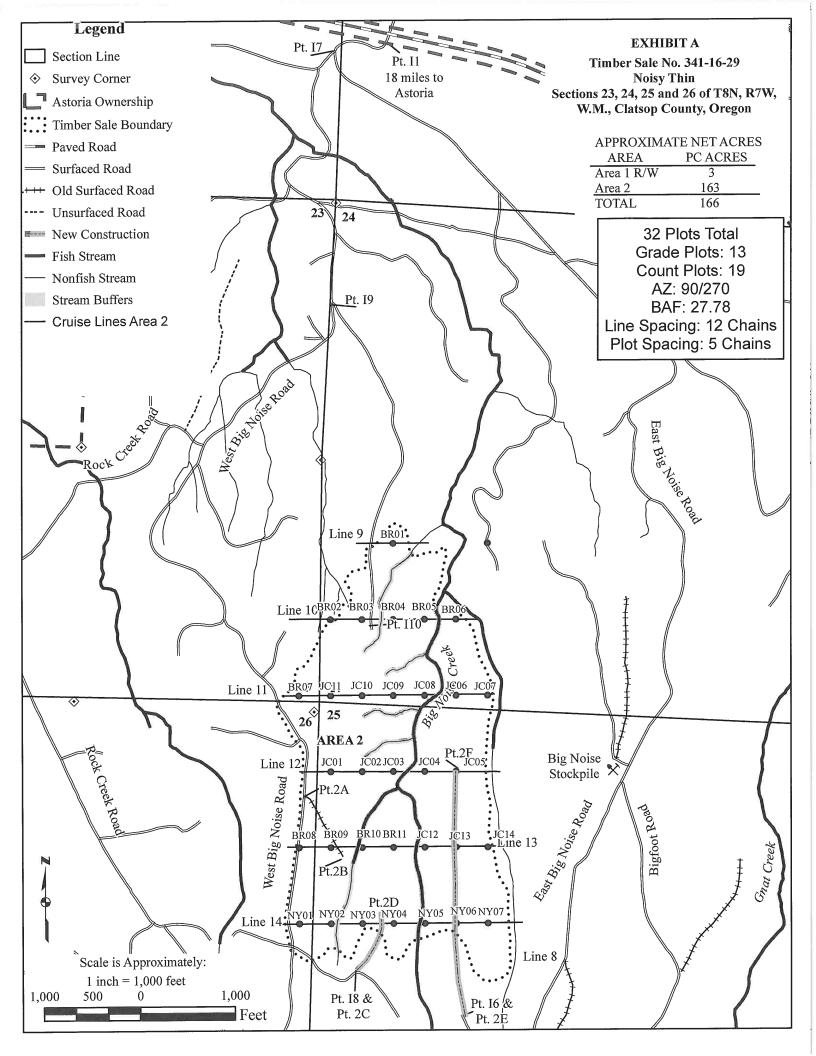
Revised August, 2002

species on the cruise. Hardwood form factors are a Standard 87.

- 5. Tree Segments: Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths in conifer and 30' and 40' for hardwoods (8'/10' multiples), whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods it is 8' (prefer 10'). Maximum segment length is 40'. One foot of trim is assumed for each merchantable segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.
- 6. Species, Sort, and Grade Codes: A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.) B. Sort: Use code "1" (Domestic).
 - C. <u>Grade</u>: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull; 9 = Utility
 Hardwoods: Camp run = R or grade (#1 Sawmill = 12" + scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9", and #4 Sawmill = 6" and 7").
 - **7. Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at intervisible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.

 ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.
- **9. Cruising Equipment:** Relaskop Rangefinder Logger's Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum OR Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
- **10.Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by:	Edward M. Holloran	
Approved by:	tolk	Date: 12/8/15



TC	C PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																		
11		8N R07W S24 TyRW 2.00 8N R07W S24 TyTAKE 163.00					NO	DISY'								Page Date Time		1 20/20 :08:0	
		%					Per	cent of	Net Bo	oard F	oot Volu	ıme				Average Log			Logs
	S So Gr	Net		. per Acre		I		ale Dia			Log L			Ln		Bd	CF/	Per	
Sp	p T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
D D D	DOCU DO2S DO3S DO4S	3 77 20	100.0 5.4 1.0 3.1	24 179 4,271 1,093	169 4,227 1,059	28 698 175		100 100	100		0 33	3 6 27	90 42 7	7 52 32	6 32 36 25	8 12 7 6	156 71 32	0.00 1.35 0.62 0.47	2.2 1.1 59.9 33.3
D	Totals	92	2.0	5,566	5,455	900		97	3		6	10	36	47	31	7	57	0.59	96.4
H H H H	DOCU DO2S DO3S DO4S	3 4 93 8	100.0 2.4	2 16 19 435	16 19 435 469	3 3 72 77		100 100 97	28	72	50 46	50		100 100	10 40 40 22 22		24	0.00 2.25 0.85 0.40	.0 .0 .2 18.1
A	DO4S	100		4	4	1	100					100		:	21	5	20	0.24	.2
A	Totals	0		4	4	1	100					100			21	5	20	0.24	.2
To	tals		1.9	6,041	5,928	978	0	97	3	0	10	13	34	44	30	7	52	0.57	115.0

TC TSTATS				S'] PROJE	TATIST CT	ΓICS NOISYT2			PAGE DATE	1 5/20/2016
TWP RGE	SECT TH	RACT		TYPE	AC	CRES	PLOTS	TREES	CuFt	BdFt
08N 07W	24 Al	REA2		03PC		163.00	32	240	1	W
		- "		TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
	PLOTS	TREES		PER PLOT	Γ	TREES	Т	REES		
TOTAL	32	240		7.5						
CRUISE DBH COUNT REFOREST COUNT	13 19	106		7.1		31,255		.3		
BLANKS 100 %										
			STA	ND SUM	MARY					
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUGLEAV	54	67.5	16.5	60	24.6	99.8	10,807	10,511	3,206	3,143
DOUG FIR	42	77.7	12.8	39	19.4	69.4	5,437	5,330	1,730	1,723
HEMLEAV	7	13.6	17.4	63	5.4	22.6	2,956	2,789	817	
WHEMLOCK	2	18.0	9.9	23	3.0	9.5	433	433	155	155
ALDRLEAV	1	14.9	8.0	21	1.8	5.2	298	298	75 5.093	
TOTAL	106	191.8	14.1	45	55.1	206.6	19,931	19,361	5,982	5,883
CL: 68.1 %	COEFF	OF 100 THE	VOLUME		E WITHIN LE TREE			OF TREES	REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
DOUGLEAV	36.0	4.9		163	171	180				
DOUG FIR	57.3	8.8		72 102	79 270	86 348				
HEMLEAV WHEMLOCK	70.9 28.3	28.8 26.5		192 18	270 25	348				
ALDRLEAV	20.5	20.3		10	23	J2				
TOTAL	66.6	6.5		128	137	146		177	44	20
CL: 68.1 %	COEFF			TREES	/ACRE		#	OF PLOTS	REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
DOUGLEAV	42.6	7.5		62	67	73				
DOUG FIR	68.7 133.6	12.1 23.6		68 10	78 14	87 17				
HEMLEAV WHEMLOCK	175.6	31.0		12	18	24				
ALDRLEAV	285.4	50.4		7	15	22				
TOTAL	29.3	5.2		182	192	202		34	9	4
CL: 68.1 %	COEFF			BASAL	AREA/A	CRE	#	OF PLOTS	REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
DOUGLEAV	42.3	7.5		92	100	107				
DOUG FIR	80.6	14.2		60	69 22	79 28				
HEMLEAV WHEMLOCK	134.2 175.0	23.7 30.9		17 7	23 10	28 13				
WHEMLOCK ALDRLEAV	285.4	50.4		3	5	8				
TOTAL	32.0	5.7		195	207	218		41	10	5
CL: 68.1 %	COEFF			NET RI	F/ACRE		#	OF PLOTS	REO.	INF. POP.
SD: 1.0	VAR.%	S.E.%	L	OW	AVG	HIGH	π	5	10	15
DOUGLEAV	44.6	7.9		9,683	10,511	11,338				
DOUG FIR	76.6	13.5		4,608	5,330	6,051				
HEMLEAV	137.9	24.4		2,110	2,789	3,469				
WHEMLOCK	175.0	30.9		299	433	567 440				
ALDRLEAV TOTAL	285.4 27.9	50.4 <i>4.9</i>	1	148 8, <i>408</i>	298 19,361	449 20,315		31	8	3
IUIAL	41.9	4 .9	10	J, T UU	17,301	20,313		51	U	3

TC TST	TATS				STATISTICS PROJECT NOISYT2					2 5/20/2016
TWP 08N	RGE 07W		ΓRACT AREA2	TYPE 03PC	A	ACRES 163.00	PLOTS 32	TREES 240	CuFt	BdFt W
CL: SD:	68.1 % 1.0	COEF VAR.	F S.E.%	TONS/	ACRE AVG	HIGH		# OF PLO	OTS REQ. 10	INF. POP.
CL: SD:	68.1 % 1.0	COEF VAR.9		TONS/	ACRE AVG	HIGH		# OF PLOTS	REQ.	INF. POP.
DOUG DOUG HEMI		78.3	13.8	35	41	46				13
WHE	MLOCK LEAV	175.0	30.9	2	3	4				
TOTA	AL .	71.3	12.6	38	44	50		203	51	23

TC TST	ATS				ST PROJEC	ATIST	TICS NOISYT2			PAGE DATE	1 5/20/2016
TWP	RGE	SECT	TRACT		TYPE		RES	PLOTS	TREES	CuFt	BdFt
08N 07W		24	AREA2		RW	110	2.00	32	238	1	W
UOIX	07.44										
				٦	REES		ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES		ER PLOT		TREES		REES		
mom.							TREES		TELLO		
TOTA		32 13			7.4 8.2		381		27.8		
CRUI	SE COUNT	13	100		0.2		361		27.0		
REFO											
COUN		19	132		6.9						
BLAN											
100 %											
	10			STAN	D SUMN	/IARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES		DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG	3 FIR	9	6 147.2	14.5	48	44.4	169.3	16,105	15,709	4,902	4,835
	MLOCK		9 28.6	14.4	44	8.5	32.1	3,596	3,411	1,020	987
R ALI	DER		1 14.9	8.0	21	1.8	5.2	298	298	75	75
TOTA	AL	10	6 190.7	14.1	45	55.0	206.6	19,999	19,418	5,997	5,897
			UT OF 100 THE	E VOLUME	WILL BE	WIIIIIN	THE SAME	DE LICCOR			
	68.1 %	COI	BFF		SAMPLI	E TREES	S - BF		OF TREES		
SD:	68.1 % 1.0	COI VAI	EFF R.% S.E.%	LC	SAMPLI W	E TREES	S - BF HIGH		OF TREES	S REO. 10	
SD: DOUG WHEN	68.1 % 1.0 3 FIR MLOCK	COI	EFF R.% S.E.% .7 5.6		SAMPLI	E TREES	S - BF				INF. POP.
SD:	68.1 % 1.0 G FIR MLOCK DER	COI VAI 54	EFF R.% S.E.% 7 5.6 8 32.4	LC	SAMPLI DW 124	E TREES AVG 131	S - BF HIGH 138				
SD: DOUG WHEN R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER	COI VAI 54 91	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5	LC	SAMPLI DW 124 146	E TREES AVG 131 216 137	S - BF HIGH 138 285	#	5	10	1
SD: DOUG WHEN R ALI TOTA	68.1 % 1.0 3 FIR MLOCK DER AL	COI VAJ 54 91	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF	LC	SAMPLI DW 124 146 128 TREES/A	E TREES AVG 131 216 137	S - BF HIGH 138 285	#	5	10	2
SD: DOUG WHEN R ALI TOTA CL: SD:	68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0	COI VAI 54 91 66.	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.%	LC	SAMPLI DW 124 146 128 TREES/A	E TREES AVG 131 216 137 ACRE	S - BF HIGH 138 285	#	5 177 OF PLOTS	10 44 5 REO.	2 INF. POP.
SD: DOUG WHEN R ALI TOTA CL: SD: DOUG WHEN	68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 3 FIR	COI VAI 54 91 66. COI VAI 44	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22	AVG 131 216 137 ACRE AVG 147 29	S - BF HIGH 138 285 146 HIGH 159 35	#	5 177 OF PLOTS	10 44 5 REO.	2 INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER	COI VAI 54 91 66. COI VAI 44 129 285	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7	E TREES AVG 131 216 137 ACRE AVG 147 29 15	S - BF HIGH 138 285 146 HIGH 159 35 22	#	5 177 OF PLOTS 5	10 44 3 REO. 10	2 INF. POP 1
SD: DOUG WHEN R ALI TOTA CL: SD: DOUG WHEN R ALI	68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 3 FIR MLOCK DER	COI VAI 54 91 66. COI VAI 44 129 285 29.	EFF R.% S.E.% .7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 .3 5.2	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22	AVG 131 216 137 ACRE AVG 147 29	S - BF HIGH 138 285 146 HIGH 159 35	#	5 177 OF PLOTS	10 44 5 REO.	2 INF. POP.
SD: DOUG WHEN R ALI TOTA CL: SD: DOUG WHEN R ALI	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER	COI VAI 54 91 66. COI VAI 44 129 285	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE	#	5 177 OF PLOTS 5 34 OF PLOTS	10 44 3 REO. 10 9 3 REO.	2 INF. POP 1 INF. POP
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD:	68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 68.1 % 1.0	COI VAI 54 91 66. COI VAI 44 129 285 29. COI VAI	EFF R.% S.E.% R.% S.E.% R. 32.4 R. 32.4 R. 5.E.% R. 7.9 R. 3 22.8 R. 4 50.4 R. 5.2	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH	#	5 177 OF PLOTS 5	10 44 3 REO. 10	2 INF. POP 1 INF. POP
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184	#	5 177 OF PLOTS 5 34 OF PLOTS	10 44 3 REO. 10 9 3 REO.	2 INF. POP 1 INF. POP
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN WHEN	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK	COI VAI 54 91 66. COI VAI 44 129 285 29. COI VAI 50 126	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 8 8.9 .4 22.3	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39	#	5 177 OF PLOTS 5 34 OF PLOTS	10 44 3 REO. 10 9 3 REO.	2 INF. POP 1 INF. POP
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI R ALI	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0 G FIR MLOCK DER AL 68.1 %	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50 126 285	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 3 22.8 4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 4 22.3 4 50.4	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 S REO. 10 9 S REO. 10	INF. POP
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA	68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0	COI VAI 54 91 66. COI VAI 44 129 285 29. COI VAI 50 126	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 3 22.8 4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 4 22.3 4 50.4 1 6.0	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 S REO. 10 9 S REO. 10	INF. POP
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: TOTA CL: TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50 126 285 34. COI	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 3 22.8 4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 4 22.3 4 50.4 1 6.0 EFF	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO.	INF. POP. INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: CL: TOTA CL: SD: CL: SD: CL: SD:	68.1 % 1.0 G FIR MLOCK DER AL 1.0 G FIR MLOCK DER AL 1.0 G FIR MLOCK DER AL 1.0	COI VAI 544 91 66. COI VAI 44 129 285 29. COI VAI 50 126 285 34.	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 .4 22.3 .4 50.4 1 6.0 EFF R.% S.E.%	LC	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/W	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 S REO. 10 9 S REO. 10	2 INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL 1.0 G FIR MLOCK DER AL 1.0 G FIR MLOCK DER AL 1.0	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50 126 285 34. COI VAI	EFF R.% S.E.% .7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 .4 22.3 .4 50.4 1 6.0 EFF R.% S.E.% 5 8.7	LC LC LC 14	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/W W 335	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 (ACRE AVG	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO.	INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA	68.1 % 1.0 3 FIR MLOCK DER AL	COI VAI 54 91 666. COI VAI 129 285 29. COI VAI 50 126 285 34. COI VAI 49	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% .8 7.9 .3 22.8 .4 50.4 .3 5.2 EFF R.% S.E.% .6 8.9 .4 22.3 .4 50.4 .1 6.0 EFF R.% S.E.% .5 8.7 .3 23.2	LO LO 14	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/W W 335	AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 15 207	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO.	INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: CL: R ALI TOTA CL: R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COI VAI 54 91 66. COI VAI 44 129 285 29. COI VAI 50 126 285 34. COI VAI 49 131	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 .4 22.3 .4 50.4 I 6.0 EFF R.% S.E.% 5.5 8.7 .3 23.2 4 50.4	LO LO LO 14	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/W 3335 1620 148	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 15,709 3,411	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083 4,202	#	5 177 OF PLOTS 5 34 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO.	INF. POP
SD: DOUC WHEN R ALI TOTA CL: TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50 126 285 34. COI VAI 49 131 285	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 3 22.8 4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 4 22.3 4 50.4 1 6.0 EFF R.% S.E.% 5 8.7 3 23.2 4 50.4 2 5.7	LO LO LO 14	SAMPLI W 124 146 128 TREES/AW 136 22 7 181 BASAL AW 154 25 3 194 NET BF/W 3335 1 620 148 312 1	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 5,709 3,411 298 9,418	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083 4,202 449	#	5 177 OF PLOTS 5 34 OF PLOTS 5 47 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO. 10 10	INF. POP. INF. POP. 1
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: CL: CL: CL: CL: CL: CL: CL: CL: CL: CCL: CCCL: CCCCCCCC	68.1 % 1.0 G FIR MLOCK DER AL	COI VAI 544 91 66. COI VAI 444 129 285 29. COI VAI 500 1266 285 34. COI VAI 49 131 285 32.	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 .4 22.3 .4 50.4 1 6.0 EFF R.% S.E.% 5 8.7 .3 23.2 .4 50.4 2 5.7	LO LO LO 14	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/DW 335 1620 148 312 151 TONS/A	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 5,709 3,411 298 9,418	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083 4,202 449	#	5 177 OF PLOTS 5 34 OF PLOTS 5 47 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO. 10 10	INF. POP. INF. POP. INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA CL: SD:	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50 126 285 34. COI VAI 49 131 285 32.	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 .4 22.3 .4 50.4 1 6.0 EFF R.% S.E.% 5 8.7 3 23.2 4 50.4 2 5.7 EFF R.% S.E.%	LC LC LC 14 2 18,	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/DW 335 1620 148 312 1.0 TONS/A	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 5,709 3,411 298 9,418 CRE	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083 4,202 449 20,524	#	5 177 OF PLOTS 5 34 OF PLOTS 5 47 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO. 10 10 3 REO.	INF. POP. INF. POP. INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL 68.1 % 1.0	COI VAI 54 91 66. COI VAI 129 285 29. COI VAI 50 126 285 34. COI VAI 49 131 285 32. COI VAI 50 130 130	EFF R.% S.E.% 7 5.6 .8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 .3 22.8 .4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 .4 22.3 .4 50.4 I 6.0 EFF R.% S.E.% 5 8.7 .3 23.2 4 50.4 2 5.7 EFF R.% S.E.% 2 8.9 4 23.0	LC LC LC 14 2 18,	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/W 335 148 312 15 TONS/A W 110 21	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 5,709 3,411 298 9,418 CRE AVG 121 27	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083 4,202 449 20,524 HIGH 131 33	#	5 177 OF PLOTS 5 34 OF PLOTS 5 47 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO. 10 10 3 REO.	INF. POP. INF. POP.
SD: DOUC WHEN R ALI TOTA CL: SD: DOUC WHEN R ALI TOTA	68.1 % 1.0 3 FIR MLOCK DER AL 68.1 % 1.0 5 FIR MLOCK DER AL	COI VAI 54 91 66. COI VAI 44 129 285 29. COI VAI 50 126 285 34. COI VAI 49 131 285 32. COI VAI 50 72 72 72 72 72 72 72 72 72 72 72 72 72	EFF R.% S.E.% 7 5.6 8 32.4 6 6.5 EFF R.% S.E.% 8 7.9 3 22.8 4 50.4 3 5.2 EFF R.% S.E.% 6 8.9 4 22.3 4 50.4 I 6.0 EFF R.% S.E.% 5.5 8.7 3 23.2 4 50.4 2 5.7 EFF R.% S.E.% 2 8.9 4 23.0 4 50.4	LC LC LC 14 2 18,	SAMPLI DW 124 146 128 TREES/A DW 136 22 7 181 BASAL A DW 154 25 3 194 NET BF/DW 335 1620 148 312 1.0 TONS/A	E TREES AVG 131 216 137 ACRE AVG 147 29 15 191 AREA/A AVG 169 32 5 207 ACRE AVG 5,709 3,411 298 9,418 CRE AVG 121	S - BF HIGH 138 285 146 HIGH 159 35 22 201 CRE HIGH 184 39 8 219 HIGH 17,083 4,202 449 20,524 HIGH 131	#	5 177 OF PLOTS 5 34 OF PLOTS 5 47 OF PLOTS 5	10 44 3 REO. 10 9 3 REO. 10 12 3 REO. 10 10 3 REO.	INF. POP. INF. POP. INF. POP.

TC TST	ATS		PAGE 1 DATE 5/20/2016								
TWP	RGE	SECT	TRACT		ТҮРЕ	AC	CRES	PLOTS	TREES	CuFt	BdFt
08N 07W		24	AREA2		TAKE		163.00	32	91	1	W
					TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES		PER PLOT		TREES	T	REES		
TOTAL		32	91		2.8						
CRUISE		13	44		3.4		15,602		.3		
DBH (COUNT										
REFO											
COUN	VΤ	16	47		2.9						
BLAN		3									
100 %)										
				STA	ND SUMM	1ARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG	FIR	42	77.7	12.8	39	19.4	69,4	5,437	5,330	1,730	1,723
WHEN	MLOCK	2		9.9	23	3.0	9.5	433	433	155	155
TOTA		44		12.3	36	22.5	79.0	5,870	5,763	1,885	1.878
	68.1	TIMES OU	OF THE SAMPL T OF 100 THE								
CL:	68.1 %	TIMES OU	T OF 100 THE	VOLUME	SAMPLI	E TREES	5 - BF		OF TREES	•	
CL: SD:	68.1 68.1 % 1.0	TIMES OU COEI VAR	T OF 100 THE FF % S.E.%	VOLUME	SAMPLI DW	E TREES AVG	S - BF HIGH		OF TREES 5	REQ. 10	
CL: SD: DOUG	68.1 % 68.1 % 1.0 6 FIR	TIMES OU COE VAR 57.3	T OF 100 THE FF S.E.% 8.8	VOLUME	SAMPLI OW 72	E TREES AVG 79	S - BF HIGH 86			•	
CL: SD: DOUG	68.1 % 1.0 3 FIR MLOCK	COEI VAR 57.3 28.3	T OF 100 THE FF S.E.% 8.8 26.5	VOLUME	SAMPLI DW	E TREES AVG	8- BF HIGH 86 32		5	10	1
CL: SD: DOUG WHEN	68.1 % 1.0 3 FIR MLOCK	TIMES OU COE VAR 57.3	T OF 100 THE FF S.E.% 8.8 26.5 9.0	VOLUME	SAMPLI DW 72 18 70	E TREES AVG 79 25 76	S - BF HIGH 86	#	5 142	36	1
CL: SD: DOUG WHEN TOTA	68.1 % 1.0 3 FIR ALOCK LL 68.1 %	COEI VAR 57.3 28.3 59.6 COEI	T OF 100 THE FF S.E.% 8.8 26.5 9.0	VOLUME	SAMPLI DW 72 18 70 TREES/A	E TREES AVG 79 25 76 ACRE	8- BF HIGH 86 32 83	#	5 142 OF PLOTS	36 REQ.	1 <i>I</i> INF. POP.
CL: SD: DOUG WHEN TOTA	68.1 % 1.0 3 FIR MLOCK IL 68.1 % 1.0	COEI VAR 57.3 28.3 59.6	T OF 100 THE FF S.E.% 8.8 26.5 9.0 FF S.E.%	VOLUME	SAMPLI DW 72 18 70 TREES/A	E TREES AVG 79 25 76	8- BF HIGH 86 32	#	5 142	36	1 <i>I</i> INF. POP.
CL: SD: DOUG WHEN TOTA CL: SD: DOUG	68.1 % 1.0 3 FIR MLOCK IL 68.1 % 1.0	COEI VAR 57.3 28.3 59.6 COEI	T OF 100 THE S.E.% 8.8 26.5 9.0 FF % S.E.% 12.1	VOLUME	SAMPLI DW 72 18 70 TREES/A	E TREES AVG 79 25 76 ACRE AVG	8- BF HIGH 86 32 83 HIGH	#	5 142 OF PLOTS	36 REQ.	1 <i>I</i> INF. POP.
CL: SD: DOUG WHEN TOTA CL: SD: DOUG	68.1 % 1.0 6 FIR MLOCK LL 68.1 % 1.0 6 FIR MLOCK	COEI VAR 57.3 28.3 59.6 COEI VAR 68.7	T OF 100 THE FF S.E.% 8.8 26.5 9.0 FF S.E.% 12.1 31.0	VOLUME	SAMPLI DW 72 18 70 TREES/A	E TREES AVG 79 25 76 ACRE AVG 78	8- BF HIGH 86 32 83 HIGH 87	#	5 142 OF PLOTS	36 REQ.	1 INF. POP. 1
CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA	68.1 % 1.0 6 FIR MLOCK LL 68.1 % 1.0 6 FIR MLOCK	TIMES OU COEI VAR 57.3 28.3 59.6 COEI VAR. 68.7 175.6	T OF 100 THE FF S.E.% 8.8 26.5 9.0 FF S.E.% 12.1 31.0 10.8	VOLUME	SAMPLI DW 72 18 70 TREES/ADW 68 12	E TREES AVG 79 25 76 ACRE AVG 78 18 96	86 32 83 HIGH 87 24 106	# (5 142 OF PLOTS 5	36 REQ. 10	1 INF. POP. 1
CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: SD:	68.1 % 1.0 6 FIR MLOCK L 68.1 % 1.0 6 FIR MLOCK L 68.1 % 1.0 6 FIR MLOCK L 1.0	TIMES OU COEI VAR 57.3 28.3 59.6 COEI VAR 68.7 175.6 61.3 COEI VAR.	T OF 100 THE FF S.E.% 8.8 26.5 9.0 FF S.E.% 12.1 31.0 10.8 FF S.E.%	LO	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AG	8- BF HIGH 86 32 83 HIGH 87 24 106	# (5 142 OF PLOTS 5	36 REQ. 10	INF. POP. I INF. POP.
CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: SD: DOUG	68.1 % 1.0 3 FIR MLOCK 1L 68.1 % 1.0 5 FIR MLOCK 1.0 68.1 % 1.0 68.1 % 1.0 5 FIR	TIMES OU COEI VAR 57.3 28.3 59.6 COEI VAR. 68.7 175.6 61.3 COEI VAR. 80.6	T OF 100 THE FF S.E.% 8.8 26.5 9.0 FF S.E.% 12.1 31.0 10.8 FF S.E.% 14.2	LO	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW 60	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AG AVG 69	S - BF HIGH 86 32 83 HIGH 87 24 106 CRE HIGH 79	# (5 142 OF PLOTS 5 150 OF PLOTS	36 REO. 10 37 REO.	INF. POP. I INF. POP.
CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN WHEN	68.1 % 1.0 FIR MLOCK L 68.1 % 1.0 FIR MLOCK L 68.1 % 1.0 FIR MLOCK L	COEI VAR 57.3 28.3 59.6 COEI VAR 68.7 175.6 61.3 COEI VAR. 80.6 175.0	T OF 100 THE FF S.E.% 8.8 26.5 9.0 FF S.E.% 12.1 31.0 10.8 FF S.E.% 14.2 30.9	LO	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW 60 7	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AG AVG 69 10	8- BF HIGH 86 32 83 HIGH 87 24 106 CRE HIGH 79 13	# (5 142 OF PLOTS 5 150 OF PLOTS 5	36 REQ. 10 37 REQ. 10	INF. POP. 1 INF. POP. 1
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CL: SD: DOUG WHEN TOTA	68.1 % 1.0 FIR MLOCK L	COEI VAR 57.3 28.3 59.6 COEI VAR 68.7 175.6 61.3 COEI VAR. 80.6 175.0 71.5 COEI VAR. 76.6	T OF 100 THE FF S.E.% S.E.% S.E.% S.E.% 12.1 31.0 10.8 FF S.E.% 14.2 30.9 12.6 FF S.E.% S.E.% 13.5	LC	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW 60 7 69 NET BF/A	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AG AVG 69 10 79 ACRE AVG 5,330	8- BF HIGH 86 32 83 HIGH 87 24 106 CRE HIGH 79 13 89	# (5 142 OF PLOTS 5 150 OF PLOTS 5 204 OF PLOTS	36 REQ. 10 37 REQ. 10 51 REQ.	INF. POP. 1 INF. POP. 1 INF. POP.
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CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: CL: CCL: CCL: CCL: CCL: CCL: CCL:	68.1 % 1.0 FIR MLOCK L	TIMES OU COEI VAR 57.3 28.3 59.6 COEI VAR. 68.7 175.6 61.3 COEI VAR. 80.6 175.0 71.5 COEF VAR. 76.6 175.0 70.7	T OF 100 THE FF S.E.% S.E.% S.E.% S.E.% 12.1 31.0 10.8 FF S.E.% 14.2 30.9 12.6 FF S.E.% 13.5 30.9 12.5	LC LC 4	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW 60 7 69 NET BF/A DW ,608 299 043	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AC AVG 69 10 79 ACRE AVG 5,330 433 5,763 CRE	86 32 83 HIGH 87 24 106 CRE HIGH 79 13 89 HIGH 6,051 567 6,483	# (5 142 OF PLOTS 5 150 OF PLOTS 5 204 OF PLOTS 5 200 OF PLOTS	36 REQ. 10 37 REQ. 10 51 REQ. 10 50 REQ.	1 INF. POP. 1 INF. POP. 1 2. INF. POP. 1 2. INF. POP.
CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: SD: DOUG WHEN TOTA CL: SD: CL: SD: CC: SD:	68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 FIR 4LOCK L 68.1 % 1.0	TIMES OU COEI VAR 57.3 28.3 59.6 COEI VAR. 68.7 175.6 61.3 COEI VAR. 80.6 175.0 71.5 COEF VAR. 76.6 175.0 70.7 COEF VAR.	T OF 100 THE FF S.E.% S.E.% S.E.% S.E.% 12.1 31.0 10.8 FF S.E.% 14.2 30.9 12.6 FF S.E.% 13.5 30.9 12.5 FF S.E.% S.E.%	LC LC 4	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW 60 7 69 NET BF/A DW ,608 299 043 5	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AC AVG 69 10 79 ACRE AVG 5,330 433 5,763 CRE AVG	86 32 83 HIGH 87 24 106 CRE HIGH 79 13 89 HIGH 6,051 567 6,483	# (5 142 OF PLOTS 5 150 OF PLOTS 5 204 OF PLOTS 5	36 REQ. 10 37 REQ. 10 51 REQ. 10 52 53 54 55 55 56	INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP. 1:
CL: SD: DOUG WHEN TOTA	68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 FIR 4LOCK L 68.1 % 1.0	TIMES OU COEI VAR 57.3 28.3 59.6 COEI VAR. 68.7 175.6 61.3 COEI VAR. 80.6 175.0 71.5 COEF VAR. 76.6 175.0 70.7	T OF 100 THE FF S.E.% S.E.% S.E.% S.E.% 12.1 31.0 10.8 FF S.E.% 14.2 30.9 12.6 FF S.E.% 13.5 30.9 12.5 FF S.E.% 13.8	LC LC 4	SAMPLI DW 72 18 70 TREES/A DW 68 12 85 BASAL A DW 60 7 69 NET BF/A DW ,608 299 043	E TREES AVG 79 25 76 ACRE AVG 78 18 96 AREA/AC AVG 69 10 79 ACRE AVG 5,330 433 5,763 CRE	86 32 83 HIGH 87 24 106 CRE HIGH 79 13 89 HIGH 6,051 567 6,483	# (5 142 OF PLOTS 5 150 OF PLOTS 5 204 OF PLOTS 5 200 OF PLOTS	36 REQ. 10 37 REQ. 10 51 REQ. 10 50 REQ.	1 INF. POP. 1 INF. POP. 1 2. INF. POP. 1 2. INF. POP.

TC PSTNDSUM	Stand Table Summary	Page 1 Date: 5/20/2016
T08N R07W S24 TyRW 2.00	Project NOISYT2	Time: 11:08:06AM
T08N R07W S24 TyTAKE 163.00	Acres 165.00	Grown Year:

S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	ge Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
D	9	4	84	46	7.492	3.31	7.49	9.5	40.0	2.25	71	300	371	117	49
D	10	2	83	66	3.034	1.65	3.03	14.0	50.0	1.14	42	152	188	70	25
D	11	12	84	61	15.046	9.93	15.05	15.0	46.7	5.27	226	702	869	372	116
D	12	17	84	62	16.884	13.26	18.99	16.8	52.2	7.44	319	992	1,228	526	164
D	13	18	86	61	12.660	11.67	16.34	17.2	50.0	6.26	281	817	1,034	464	135
D	14	16	85	64	7.860	8.40	9.51	21.8	60.1	4.40	207	572	727	341	94
D	15	11	84	75	5.446	6.68	8.20	23.6	75.0	4.61	194	614	760	320	101
D	16	14	84	44	2.524	3.52	2.66	23.8	48.4	1.06	63	129	175	105	21
D	17	20	86	72	6.408	10.10	10.70	26.9	88.0	7.46	288	942	1,231	475	155
D	18	9	85	84	1.021	1.80	2.04	29.3	98.9	1.59	60	202	263	99	33
D	19	5	85	75	.054	.11	.10	32.3	111.1	.08	3	11	14	5	2
D	20	5	85	88	.049	.11	.10	37.7	126.0	.09	4	12	15	6	2
D	21	1	80	82	.009	.02	.02	37.0	110.0	.02	1	2	3	1	0
D	22	1	86	82	.008	.02	.02	41.5	145.0	.02	1	2	3	1	0
D	23	2	86	82	.015	.04	.03	45.5	157.5	.04	1	5	6	2	1
D	24	1	83	76	.007	.02	.01	49.0	135.0	.01	1	2	2	1	0
D	Totals	138	85	62	78.517	70.66	94.29	18.7	57.9	41.74	1,761	5,455	6,888	2,906	900
Н	9	2	83	39	10.775	4.76	10.77	7.0	20.0	1.62	75	215	267	124	36
Н	11	2	82	37	7.213	4.76	7.21	11.0	30.0	1.62	79	216	268	131	36
Н	14	2	88	84	.081	.09	.16	19.3	70.0	.08	3	11	14	5	2
Н	16	1	85	71	.031	.04	.03	26.0	70.0	.03	1	2	5	1	0
Н	17	1	89	75	.027	.04	.05	27.5	100.0	.04	2	5	7	2	1
Н	21	1	88	71	.018	.04	.04	39.5	135.0	.04	1	5	6	2	1
Н	25	2	89	99	.025	.09	.05	73.0	267.5	.10	4	14	17	6	2
Н	Totals	11	83	39	18.170	9.82	18.32	9.0	25.6	3.54	165	469	584	273	77
Α	8	1	86	39	.181	.06	.18	5.0	20.0	.03	1	4	4	1	1
A	Totals	1	86	39	.181	.06	.18	5.0	20.0	.03	1	4	4	1	1
Totals		150	84	58	96.868	80.55	112.79	17.1	52.6	45.31	1,927	5,928	7,476	3,180	978

TC PLOGSTVB Log Stock Table - MBF Page 1 T08N R07W S24 TyRW 2.00 Project: NOISYT2 Date 5/20/2016 163.00 T08N R07W S24 TyTAKE Acres 165.00 11:08:05AM Time Net Volume by Scaling Diameter in Inches So Gr Log % Gross Def Net 10-11 12-13 14-15 16-19 20-23 24-29 30-39 40+ T rt de Len **MBF** % **MBF** Spc 2-3 4-5 Spp D DO CU 2 100.0 0 100.0 DO CU D 8 2 100.0 D DO CU 10 0 100.0 D DO CU 16 0 100.0 DO CU D 28 0 100.0 DO CU D 0 100.0 D DO CU 36 1 0 .1 DO 2S 30 1 D 0 25 25 2.8 27 5.9 DO 2S 32 D 2 2 .2 40 2 D DO 2S 0 0 0 .0 16 D DO 3S 42 DO 3S 30 42 42 4.6 D DO 3S 32 279 2.0 273 30.3 151 46 76 D DO 3S 34 17 17 1.9 17 D 37 37 36 37 4.1 D DO 3S DO 3S 40 330 328 36.4 156 142 30 D 17 1.9 D DO 4S 14 17 17 3 D DO 4S 15 3 3 .4 7 .8 7 0 7 DO 4S 16 D 14 1.6 14 18 14 DO 4S D 1.8 16 20 16 16 D DO 4S 0 0 0 .0 D DO 4S 24 .8 7 7 26 D DO 4S 4.5 28 43 5.9 41 41 DO 4S D 0 30 0 0 .0 D DO 4S 12 0 19.5 12 1.4 DO 4S 32 15 D 56 6.3 56 DO 4S 40 56 D 0 0 .0 D DO 4S 41 0 92.0 536 188 148 27 0 0 D Totals 918 2.0 900 Н DO CU 10 0 100.0 1 2 DO 2S 40 3 2.4 3.3 Н 2 0 1 3 4.1 DO 3S 40 3 Η

.4

46.1

0

36

0

36

Η

Η

DO 4S

DO 4S

18

20

0

36

TC	PLO	GSTVB					Log	Stock	Table	e - MB	F								
T08N R07W S24 TyRW 2.00 T08N R07W S24 TyTAKE 163.00						-	Proj Acre		NO	OISYT2 165.00							2 5/20/2016 11:08:05A		
	s	So Gr	Log	Gross	Def	Net	%		1	Net Volu	ıme by	Scalin	g Dian	neter in	Inches				
Spp	Т	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11		14-15	16-19	20-23 2	4-29	30-39	40+
Н		DO 4S	24	36		36	46.1			36			-						
Н		Total	s	78		77	7.9			72	2	1	1		2				
A		DO 4S	21	1		1	100.0		1										
A		Total	s	1		1	.1		1										
Total		All Speci	es	997	1.9	978	100.0		1	608	190	149	28	0	2				

Project Log Stock Table - TONS TC PLOGSTVT Page T08N R07W S24 TyRW 2.00 Project: **NOISYT2** Date 5/20/2016 163.00 T08N R07W S24 TyTAKE 165.00 Acres Time 11:08:06AM % Tons by Scaling Diameter in Inches So Gr Log 20-23 24-29 30-39 rt de Len 12-13 | 14-15 16-19 T **TONS** Spc 2-3 4-5 6-7 40+ Spp 13 .2 D DO CU 13 0 4 .0 D DO CU 0 .2 13 D DO CU 13 0 10 .0 DO CU 0 D .0 D DO CU 16 1 DO CU 28 0 .0 0 D 1 DO CU 36 1 .0 D 3 30 D DO 2S .1 DO 2S 32 200 2.9 197 2 D D DO 2S 40 14 .2 14 D DO 3S 16 .0 1 312 30 DO 3S 312 4.5 D 1163 2,090 30.3 347 580 D DO 3S 32 DO 3S 34 131 1.9 131 D 4.0 279 36 279 D DO 3S 40 2,473 35.9 1168 1077 228 D DO 3S 14 127 1.8 127 D DO 4S DO 4S 15 26 .4 26 D 16 54 1 DO 4S 54 .8 D 18 107 107 D DO 4S 1.6 DO 4S 20 123 1.8 123 D 0 24 .0 D DO 4S 0 .7 51 D 26 51 DO 4S D DO 4S 28 323 4.7 323 .0 D DO 4S 30 1 1 112 2 DO 4S 32 114 1.7 D 423 40 423 6.1 D DO 4S DO 4S 41 2 .0 2 D 3 3 1137 216 D Totals 6,888 92.1 4105 1424 2 Н DO CU 10 14 40 3.4 Н DO 2S 20 40 24 4.1 3 15 6 Н DO 3S DO 4S 18 2 .4 2 Η 20 45.9 268 Η DO 4S 268 268 Н 24 268 45.9 DO 4S

TC PL	0.	GSTVT					Project	Log Sto	ock Tal	ble - TO	NS						
11		07W S24	-		.00	Project: NOISYT2 Acres 165.00							Page Date Time		2 5/20/201 11:08:06	-	
S	s	So Gr	Log		%				Tons	by Scalin	g Diam	eter in Iı	iches			1	
Spp T	r	rt de	Len	TONS	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
Н	†	Tota	Is	584	7.8			540	15	6	8		14				
A	T	DO 4S	21	4	100.0		4										
A		Tota	ls	4	.1		4										
Total		All Spec	ies	7,476	100.0		4	4645	1439	1144	224	3	17				

