

Sale AT-343-2026-W01308-01

**District: Astoria** 

Date: April 22, 2025

# **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$62,032.01	\$235.52	\$62,267.53
		Project Work:	\$0.00
		Advertised Value:	\$62,267.53

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# Sale AT-343-2026-W01308-01

District: Astoria Date: April 22, 2025

# **Timber Description**

### Location:

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery(%)
Douglas - Fir	26	0	95
Western Hemlock/ Fir	16	0	94
Alder (Red)	15	0	93

Volume by Grade	25	35 & 45 6"- 11"	8" -9"	Total
Douglas - Fir	126	41	0	167
Western Hemlock / Fir	8	6	0	14
Alder (Red)	0	0	4	4
Total	134	47	4	185

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## Sale AT-343-2026-W01308-01

Date: April 22, 2025 **District: Astoria** 

## **Logging Conditions**

Combination#: 1

Douglas - Fir

100.00%

Western Hemlock/ Fir

100.00%

Alder (Red)

100.00%

Logging System: Shovel

Process: Manual Falling/Delimbing

yarding distance:

Short (400 ft)

downhill yarding: No

tree size:

Mature/ Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day:

bd. ft/ load: 4900

cost/ mbf: \$204.09 machines:

Shovel Logger

### Comments: Pond Values Used: Local Pond Values, April, 2025.

Expected Log Markets: Mist, Willamina, Clatskanie, Tillamook, Warrenton, Wauna, Longview, WA, and Vancouver, WA.

#### PRICING:

Western Red Cedar and other Cedars stumpage = pond value - (Douglas-fir) logging cost. \$772.03/MBF = \$1,180/MBF - \$407.97/MBF

Other Costs (with Profit & Risk to be added):

Additional Felling & Bucking Costs: \$25/MBF X 185 MBF = \$4,625

Additional Move-in Allowance to walk between units: 1/2 x Move-in for C325 @ \$1,610/move-in = \$805

Additional Equipment Time for Roadside Salvage and Sorting: 8 hours for C325 loader @ \$145/hour = \$1,160 8 hours for Log Truck @ \$187.50/hour = \$1,500

Machine Washing for Invasive Weed Compliance = \$2,000

Ditch Filters (installation and removal): Bales of straw 4 @ \$14.00/bale = \$56.00 1 hour of labor @ \$50/hr = \$50.00

TOTAL Other Costs (with Profit & Risk to be added): \$10,196.00

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



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## **Logging Costs**

**Operating Seasons:** 1.00

Profit Risk: 12%

**Project Costs:** \$0.00

Slash Disposal: \$0.00

Other Costs (P/R): \$10,196.00

**Other Costs:** \$0.00

Miles of Road

Road Maintenance: \$0.00

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	5.5
Western Hemlock/ Fir	\$0.00	3.0	4.8
Alder (Red)	\$0.00	2.0	4.0



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## **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit& Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Douglas - Fir								
\$204.09	\$0.00	\$23.72	\$79.55	\$55.11	\$43.50	\$0.00	\$2.00	\$0.00	\$407.97
Western H	emlock	/ Fir							
\$204.09	\$0.00	\$23.72	\$92.02	\$55.11	\$44.99	\$0.00	\$2.00	\$0.00	\$421.93
Alder (Red	Alder (Red)								
\$204.09	\$0.00	\$23.72	\$167.19	\$55.11	\$54.01	\$0.00	\$2.00	\$0.00	\$506.12

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$770.18	\$362.21	\$0.00
Western Hemlock/ Fir	\$0.00	\$532.14	\$110.21	\$0.00
Alder (Red)	\$0.00	\$565.00	\$58.88	\$0.00

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Date: April 22, 2025

## **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	167	\$362.21	\$60,489.07
Western Hemlock/ Fir	14	\$110.21	\$1,542.94
Alder (Red)	4	\$58.88	\$235.52

## **Gross Timber Sale Value**

Recovery:

\$62,267.53

Prepared By: Justin Bush

**Phone:** 503-325-5451

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## RAPID SALVAGE TIMBER CRUISE REPORT FY 2026

**Sale Area Location:** Portions of Sections 19, and 21, T5N, R6W, and Section 24, T5N, R7W, W.M., Clatsop County, OR.

**2. Fund Distribution:** BOF = 100% Tax Code = 8-01 (100%)

### 3. Sale Acreage and Treatments by Unit:

Unit	Original Cruised Sale Name	Harvest Type	Anticipated Salvage Acres	Survey Method
1	Grand Ball	Clearcut	2	GIS
2	Grand Ball	Salvage/ITS	1	Ocular
3	Wage Earner	Clearcut	1	GIS
TOTAL			4	

### 4. Cruise Method and Computations:

Volume results were derived from data collected from the (FY23) Grand Ball timber sale cruise and the (FY22) Wage Earner timber sale cruise and were extrapolated to the anticipated salvage area.

Based on field evaluations, Unit 1 volumes were adjusted to approximately 80% of the average tree volume per acre from the Grand Ball timber cruise. This adjustment anticipates defect due to storm damage. Volumes in Unit 2 are based upon an ocular estimate and the average Douglas-fir tree from the younger stand type within the Grand Ball timber cruise (younger Douglas-fir approximately 240 BF/tree). Unit 3 volumes were adjusted to 80% of the average tree volume per acre from the Wage Earner timber cruise. This adjustment anticipates defect due to storm damage.

The cruise estimations were processed in the Astoria District office.

### 5. Timber Description:

<u>Unit 1 (Clearcut)</u>: Unit 1 is a clearcut with an average age of 75 years. The stand consists of Douglas-fir and western hemlock with a minor portion of red alder. The average Douglas-fir is 26 inches DBH and is 97 feet to a merchantable top. The average western hemlock is 15 inches DBH and is 44 feet to a merchantable top. The average red alder is 15 inches DBH and is 43 feet to a merchantable top. Average net volume to be harvested per acre is 45 MBF. This volume is derived from the Grand Ball timber cruise with 80% anticipated recovery. Windstorms have significantly damaged portions of this stand, resulting in several patches of leaning timber and windthrown trees.

<u>Unit 2 (Roadside Salvage/ITS)</u>: This is predominantly roadside salvage of areas affected by recent windthrow in and near the Grand Ball timber sale, and is approximately 35 years old, consisting of moderate sized Douglas-fir, western hemlock, and red alder. Windstorms have significantly damaged portions of this stand, resulting in several patches of timber and windthrown trees. Anticipated recovery is approximately 13 MBF of Douglas-fir and 5 MBF of western hemlock.

<u>Unit 3 (Clearcut)</u>: Unit 3 is a clearcut with an average age of 81 years. The stand consists of Douglas-fir and minor components of western hemlock and red alder. The average Douglas-fir is approximately 27 inches DBH and 117 feet to a merchantable top. The average western hemlock is approximately 18 inches DBH and 53 feet to a merchantable top. The average red alder is approximately 16 inches DBH and 55 feet to a merchantable top. Average net volume to be harvested per acre is 64 MBF. This volume is derived from the Wage Earner timber cruise with 80% anticipated recovery. Windstorms have significantly damaged portions of this stand, resulting in several patches of leaning timber and windthrown trees.

- **6. Statistical Analysis and Stand Summary:** A statistical analysis was not calculated. Volume tables and statistical reports from the Grand Ball timber cruise and the Wage Earner timber cruise are attached as appropriate based upon the estimations made for the Rapid Salvage sale. Acreages have been adjusted to reflect anticipated salvage acres for the Rapid Salvage sale.
- **7. Volumes by Species and Sale Areas:** Volumes do not include "in-growth". The total net MBF volumes by species and grade are as follows:

Species	DBH	Net. Vol.	2 Saw	3 Saw	4 Saw	Sale%
Douglas-fir	26"	154	126	25	3	83%
Douglas-fir	19"	13	-	8	5	7%
western hemlock	16"	14	8	4	2	8%
Totals	-	181	134	37	10	

### Hardwood

Species	DBH	Net Vol.	% Sale
red alder	15"	4	2%
TOTALS	-	4	

TOTAL MOLLINAT	405 1405
TOTAL VOLUME	185 WBF

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Prepared by:	Justin Bush	Date:	April 21, 2025	
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9. Attachments:

Volume Reports (2 pages) Statistical Reports (2 pages)

TC TST	ATS				ST PROJE	CATIST		PAGE 1 DATE 4/16/2025					
TWP	RGE	SECT TI	RACT		TYPE	AC	RES	PLOTS	TREES	CuFt	BdFt		
05N 06W		21 R	SAL_3		00MC		1.20	61	329	1	W		
							ESTIMATED	P1	ERCENT				
				TREES TOTAL					AMPLE				
		PLOTS	TREES	P	ER PLOT	•	TREES	T	REES				
ТОТА	L	61	329		5.4								
CRUISE		24	125		5.2		98		127.5				
DBH	COUNT							,					
	REST												
COUN		36	188		5.2								
BLAN		1											
100 %	, 												
		SAMPLE	TREES		<b>D SUM</b> I BOLE	MARY REL	BASAL	GROSS	NET	GROSS	NET		
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC		
DOUG	3 FIR	112	70.2	26.8	117	53.1	274.9	77,586	69,220	15,975	15,975		
	MLOCK	9	9.1	17.5	53	3.6	15.2	2,549	2,311	599	599		
R ALI		4	2.5	16.3	55	0.9	3.6	453	450	127	127		
TOTA		125	81.7	25.7	108	58.0	293.7	80.589	71,982	16.701	16,701		
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SD;	68.1 % 1.0 G FIR	COEFF VAR.% 62.6	S.E.% 5.9	LO'	SAMPL W 319	AVG 1,402	S - BF HIGH 1,484	#					
SD; DOUG WHE	68.1 % 1.0 3 FIR MLOCK	COEFF VAR.% 62.6 96.0	S.E.% 5.9 33.9	LO'	<b>SAMPL</b> W 319 449	AVG 1,402 679	S - BF HIGH 1,484 909	#					
SD: DOUG WHE! R ALI	68.1 % 1.0 G FIR MLOCK DER	COEFF VAR.% 62.6 96.0 97.8	S.E.% 5.9 33.9 55.9	LO'	<b>SAMPL</b> W 319 449 114	AVG 1,402 679 258	<b>S - BF</b> HIGH 1,484 909 401	#	5	10	15		
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SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI WHEI R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COEFF VAR.% 62.6 96.0 97.8 67.7 COEFF VAR.% 53.4 88.6 81.6 58.4 COEFF VAR.% 51.7 223.5 409.0 47.9 COEFF VAR.%	S.E.% 5.9 33.9 55.9 6.1  S.E.% 5.0 31.3 46.6 5.2  S.E.% 6.6 28.6 52.3 6.1	LO' LO' LO'	SAMPL W 319 4449 114 233 SAMPL W 2294 114 37 276 TREES/ W 66 6 1 77 BASAL W	AVG 1,402 679 258 1,313 E TREES AVG 310 165 69 291 ACRE AVG 70 9 2 82 AREA/A	S - BF HIGH 1,484 909 401 1,392 S - CF HIGH 325 217 101 307  HIGH 75 12 4 87  CRE HIGH	#	5  183  OF TREES  5  136  OF PLOTS  5  92  OF PLOTS	10  46  REQ. 10  34  REQ. 10  23  REQ.	15  20  INF. POP. 15  INF. POP. 15  10  INF. POP.		
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SD: DOUG WHE! R ALI TOTA CL: SD: DOUG WHE! R ALI TOTA CL: SD: DOUG WHE! R ALI TOTA CL: SD: DOUG WHE! R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COEFF VAR.% 62.6 96.0 97.8 67.7 COEFF VAR.% 53.4 88.6 81.6 58.4 COEFF VAR.% 51.7 223.5 409.0 47.9 COEFF VAR.% 43.9 198.0 380.6	S.E.% 5.9 33.9 55.9 6.1  S.E.% 5.0 31.3 46.6 5.2  S.E.% 6.6 28.6 52.3 6.1  S.E.% 5.6 25.3 48.7	LO'  LO'  LO'	SAMPL W 319 449 114 233 SAMPL W 2294 114 37 276 TREES/ W 66 6 1 77 BASAL W 2259 11 2	AVG 1,402 679 258 1,313 E TREES AVG 310 165 69 291 ACRE AVG 70 9 2 82 AREA/A AVG 275 15 4 294	S - BF HIGH  1,484 909 401 1,392 S - CF HIGH  325 217 101 307  HIGH  75 12 4 87  CRE HIGH  290 19 5	#	5  183  OF TREES  5  136  OF PLOTS  5  92  OF PLOTS  5	10  46  REQ. 10  34  REQ. 10  23  REQ. 10	15 20 INF. POP. 15 INF. POP. 15 10 INF. POP. 15		
SD: DOUG WHE! R ALI TOTA CL: SD: DOUG WHE! R ALI TOTA CL: SD: DOUG WHE! R ALI TOTA CL: SD: DOUG WHE! R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COEFF VAR.% 62.6 96.0 97.8 67.7 COEFF VAR.% 53.4 88.6 81.6 58.4 COEFF VAR.% 51.7 223.5 409.0 47.9 COEFF VAR.% 43.9 198.0 380.6 39.1	S.E.% 5.9 33.9 55.9 6.1  S.E.% 5.0 31.3 46.6 5.2  S.E.% 6.6 28.6 52.3 6.1  S.E.% 5.6 25.3 48.7 5.0	LO'  LO'  LO'	SAMPL W 319 449 114 233 SAMPL W 2294 114 37 276 TREES/ W 66 6 1 77 BASAL W 2259 11 2 2279 NET BF	AVG 1,402 679 258 1,313 E TREES AVG 310 165 69 291 ACRE AVG 70 9 2 82 AREA/A AVG 275 15 4 294	S - BF HIGH  1,484 909 401 1,392 S - CF HIGH  325 217 101 307  HIGH  75 12 4 87  CRE HIGH  290 19 5	#	5  183  OF TREES  5  136  OF PLOTS  5  92  OF PLOTS  5	10  46  REQ. 10  34  REQ. 10  23  REQ. 10	15  20  INF. POP. 15  INF. POP. 15  7  INF. POP.		
SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI R ALI TOTA CL: SD: CL: CL: CL: CL: CL: CL: CL: CL: CL: CL	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	COEFF VAR.% 62.6 96.0 97.8 67.7 COEFF VAR.% 53.4 88.6 81.6 58.4 COEFF VAR.% 51.7 223.5 409.0 47.9 COEFF VAR.% 43.9 198.0 380.6 39.1 COEFF VAR.% 43.4	S.E.% 5.9 33.9 55.9 6.1  S.E.% 5.0 31.3 46.6 5.2  S.E.% 6.6 28.6 52.3 6.1  S.E.% 5.6 25.3 48.7 5.0	LO'  LO'  LO'  LO'	SAMPL W 319 449 114 233 SAMPL W 2294 114 37 276 TREES/W 66 6 1 77 BASAL W 2259 11 2 2279 NET BE	AVG 1,402 679 258 1,313 E TREES AVG 310 165 69 291 ACRE AVG 70 9 2 82 AREA/A AVG 275 15 4 294 E/ACRE	S - BF HIGH 1,484 909 401 1,392 S - CF HIGH 325 217 101 307  HIGH 75 12 4 87  CRE HIGH 290 19 5 308	#	5  183  OF TREES  5  136  OF PLOTS  5  0F PLOTS  5  61  OF PLOTS	10  46  REQ. 10  34  REQ. 10  23  REQ. 10	15  20  INF. POP. 15  INF. POP. 15  7  INF. POP.		
SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COEFF VAR.% 62.6 96.0 97.8 67.7 COEFF VAR.% 53.4 88.6 81.6 58.4 COEFF VAR.% 51.7 223.5 409.0 47.9 COEFF VAR.% 43.9 198.0 380.6 39.1 COEFF VAR.% 43.4 215.8	S.E.% 5.9 33.9 55.9 6.1  S.E.% 5.0 31.3 46.6 5.2  S.E.% 6.6 28.6 52.3 6.1  S.E.% 5.6 25.3 48.7 5.0  S.E.% 5.6 27.6	LO'  LO'  LO'  LO'  LO'  LO'  LO'	SAMPL W 319 449 114 233  SAMPL W 2294 114 37 276  TREES/ W 66 6 1 77  BASAL W 2259 11 2 279  NET BE W 374 673	AVG 1,402 679 258 1,313 E TREES AVG 310 165 69 291 ACRE AVG 70 9 2 82 AREA/A AVG 275 15 4 294 E/ACRE AVG 69,220 2,311	S - BF HIGH  1,484 909 401 1,392 S - CF HIGH  325 217 101 307  HIGH  75 12 4 87  CRE HIGH 290 19 5 308  HIGH 73,066 2,949	#	5  183  OF TREES  5  136  OF PLOTS  5  0F PLOTS  5  61  OF PLOTS	10  46  REQ. 10  34  REQ. 10  23  REQ. 10	15 20 INF. POP. 15  15 INF. POP. 15  10 INF. POP. 15		
SD: DOUG WHEI R ALI TOTA CL: SD: DOUG WHEI R ALI TOTA	68.1 % 1.0 G FIR MLOCK DER AL	COEFF VAR.% 62.6 96.0 97.8 67.7 COEFF VAR.% 53.4 88.6 81.6 58.4 COEFF VAR.% 51.7 223.5 409.0 47.9 COEFF VAR.% 43.9 198.0 380.6 39.1 COEFF VAR.% 43.4	S.E.% 5.9 33.9 55.9 6.1  S.E.% 5.0 31.3 46.6 5.2  S.E.% 6.6 28.6 52.3 6.1  S.E.% 5.6 25.3 48.7 5.0  S.E.% 5.6 5.6	LO'  LO'  LO'  LO'  LO'  LO'  LO'	SAMPL W 319 449 114 233  SAMPL W 2294 114 37 276  TREES/ W 66 6 1 77 BASAL W 2259 11 2 2279 NET BF W 374 673 217	AVG 1,402 679 258 1,313 E TREES AVG 310 165 69 291 ACRE AVG 70 9 2 82 AREA/A AVG 275 15 4 294 E/ACRE AVG 69,220	S - BF HIGH  1,484 909 401 1,392 S - CF HIGH  325 217 101 307  HIGH  75 12 4 87  CRE HIGH 290 19 5 308  HIGH 73,066	#	5  183  OF TREES  5  136  OF PLOTS  5  0F PLOTS  5  61  OF PLOTS	10  46  REQ. 10  34  REQ. 10  23  REQ. 10	15 20 INF. POP. 15 INF. POP. 15 7 INF. POP.		

TC TST	TATS				ST PROJE	CT CT	TICS GBALL	PAGE 1 DATE 4/16/2025					
TWP	RGE	SECT 7	TRACT		TYPE	AC	RES	PLOTS	TREES	CuFt	BdFt		
05N	07W	25 I	RSAL 1		00MC		2.10		365	1	W		
					TREES		ESTIMATED TOTAL		PERCENT SAMPLE				
		PLOTS	TREES		PER PLOT		TREES	Т	REES				
ТОТА	ΛΙ.	64	365		5.7								
CRUI		28	174		6.2		247		70.6				
	COUNT								, 0,0				
	REST												
COUN		36	191		5.3								
BLAN					3.0								
100 %													
			1	STA	ND SUM	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		
DOUG	G FIR	108	53.1	26.0	97	38.4	196.0	47,307	46,819	10,174	10,17		
R ALI	DER	22	28.7	14.5	43	8.7	33.1	3,539	3,499	1,044	1,04		
	MLOCK	18	21.9	15.4	44	7.2	28.1	4,078	4,009	1,037	1,03		
BL M		26	13.8	16.7	33	5.1	20.8	1,298	1,231	435	43		
TOTA		174	117.4	20.8	67	60.9	278.0	56,221	55,558	12,690	12,69		
CL:		TIMES OUT		VOLUME		····	THE SAMP.		OF TREES	PEO.	INE POI		
	68.1 %	COEF	F		SAMPL	E TREES	S - BF		OF TREES				
CL: SD:	68.1 % 1.0		F	L		····			OF TREES	REO. 10			
SD:	68.1 % 1.0 G FIR	COEF.	F % S.E.%	L	<b>SAMPL</b> OW	E TREES	S - BF HIGH						
SD: DOUG R ALI WHE!	68.1 % 1.0 G FIR DER MLOCK	COEF VAR.9 57.9	F % S.E.% 5.6	L	SAMPI OW 1,202	LE TREES AVG 1,273	S - BF HIGH 1,344						
SD: DOUG R ALI WHE! BL M	68.1 % 1.0 G FIR DER MLOCK APLE	COEF VAR.9 57.9 61.8 117.3 105.5	F S.E.% 5.6 13.5 28.4 21.1	L	SAMPI OW 1,202 148 355 111	AVG 1,273 170 497 141	S - BF HIGH 1,344 193 638 170		5	10			
SD: DOUG R ALI WHE!	68.1 % 1.0 G FIR DER MLOCK APLE	COEF VAR.9 57.9 61.8 117.3	F S.E.% 5.6 13.5 28.4	L	SAMPI OW 1,202 148 355	AVG 1,273 170 497	S - BF HIGH 1,344 193 638						
SD: DOUG R ALI WHEN BL M TOTA	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 %	COEF VAR.9 57.9 61.8 117.3 105.5	F S.E.% 5.6 13.5 28.4 21.1 6.8	L	SAMPI OW 1,202 148 355 111	AVG 1,273 170 497 141 884	S - BF HIGH 1,344 193 638 170	#	5	10 81			
SD: DOUG R ALI WHEN BL M TOTA CL: SD:	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0	COEF. VAR.9 57.9 61.8 117.3 105.5 89.9 COEF.	5.E.% 5.6 13.5 28.4 21.1 6.8 F % S.E.%	L	SAMPI OW 1,202 148 355 111 824 TREES	AVG 1,273 170 497 141 884 /ACRE AVG	S - BF HIGH 1,344 193 638 170 944 HIGH	#	323	10 81	INF. POF		
SD: DOUG R ALI WHEN BL M TOTA CL: SD:	68.1 % 1.0 G FIR DER MLOCK (APLE AL 68.1 % 1.0 G FIR	COEF. VAR.9 57.9 61.8 117.3 105.5 89.9 COEF. VAR.9 79.3	F	L	SAMPI OW 1,202 148 355 111 824 TREES OW 48	AVG 1,273 170 497 141 884 /ACRE AVG 53	S - BF HIGH 1,344 193 638 170 944 HIGH 58	#	5 323 FOF PLOTS	81 REO.	INF. POF		
SD: DOUG R ALI WHEN BL M TOTA CL: SD: DOUG R ALI	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER	COEF. VAR.9 57.9 61.8 117.3 105.5 89.9 COEF. VAR.9 79.3 192.0	F 5.6. 13.5 28.4 21.1 6.8 F % S.E.% 9.9 24.0	L	SAMPI OW 1,202 148 355 111 824 TREES OW 48 22	AVG 1,273 170 497 141 884 /ACRE AVG 53 29	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36	#	5 323 FOF PLOTS	81 REO.	INF. POF		
SD: DOUG R ALI WHEN BL M TOTA CL: SD: DOUG R ALI WHEN	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3	F 5.6. 13.5 28.4 21.1 6.8 F 9.9 24.0 26.0	L	SAMPL OW 1,202 148 355 111 824 TREES OW 48 22 16	AVG 1,273 170 497 141 884 /ACRE AVG 53 29 22	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36 28	#	5 323 FOF PLOTS	81 REO.	INF. POF		
SD: DOUG R ALI WHEN BL M TOTA CL: SD: DOUG R ALI	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE	COEF. VAR.9 57.9 61.8 117.3 105.5 89.9 COEF. VAR.9 79.3 192.0	F 5.6. 13.5 28.4 21.1 6.8 F % S.E.% 9.9 24.0	L	SAMPI OW 1,202 148 355 111 824 TREES OW 48 22	AVG 1,273 170 497 141 884 /ACRE AVG 53 29	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36	#	323 F OF PLOTS	81 REO.	INF. POF		
SD: DOUG R ALI WHEE BL M TOTA CL: SD: DOUG R ALI WHEE BL M TOTA	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5	F 5.6 13.5 28.4 21.1 6.8 F 9.9 24.0 26.0 26.8 7.6	L	SAMPL  OW  1,202  148  355  111  824  TREES  OW  48  22  16  10  108	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36 28 17 126	#	323 F OF PLOTS 5	81 REO. 10	INF. POF		
SD: DOUG R ALI WHEE BL M TOTA CL: SD: DOUG R ALI WHEE BL M TOTA	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL	COEF. VAR.9 57.9 61.8 117.3 105.5 89.9 COEF. VAR.9 79.3 192.0 208.3 214.5 61.2	F	L	SAMPL  OW  1,202  148  355  111  824  TREES  OW  48  22  16  10  108	AVG 1,273 170 497 141 884 /ACRE AVG 53 29 22 14 117	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36 28 17 126	#	323 F OF PLOTS	81 REO. 10	INF. POF		
SD: DOUG R ALI WHEI BL M TOTA CL: DOUG R ALI WHEI BL M TOTA CL:	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE 4L 68.1 % 1.0 68.1 % 1.0	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5 61.2 COEF	F	L	SAMPL  OW  1,202  148  355  111  824  TREES  OW  48  22  16  10  108  BASAL	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36 28 17 126	#	5 323 FOF PLOTS 5 150 FOF PLOTS	81 REO. 10  37 REQ.	INF. POP		
SD: DOUG R ALI WHEI BL M TOTA CL: SD: DOUG R ALI WHEI BL M TOTA CL: SD: DOUG R ALI	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE 4L 68.1 % 1.0 G FIR DER DER DER DER DER DER DER DER DER DE	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5 61.2 COEF VAR.9	F 5.6. 13.5 28.4 21.1 6.8 F 9.9 24.0 26.0 26.8 7.6 F 9.0 21.3	L	SAMPL OW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33	HIGH  58  HIGH  1,344  193  638  170  944  HIGH  58  36  28  17  126  CRE  HIGH  214  40	#	5 323 FOF PLOTS 5 150 FOF PLOTS	81 REO. 10  37 REQ.	INF. POF		
SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA	68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5 61.2 COEF VAR.9 72.3 170.3	F 5.6. 13.5 28.4 21.1 6.8 F 9.9 24.0 26.0 26.8 7.6 F 9.0 21.3 21.6	L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28	HIGH  58  HIGH  1,344  193  638  170  944  HIGH  58  36  28  17  126  CRE  HIGH  214  40  34	#	5 323 FOF PLOTS 5 150 FOF PLOTS	81 REO. 10  37 REQ.	INF. POF		
SD: DOUC R ALI WHEI BL M TOTA CL: SD: DOUC R ALI WHEI BL M TOTA CL: SD: DOUC R ALI WHEI BL M	68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5 61.2 COEF VAR.9	F 5.6 13.5 28.4 21.1 6.8 F 9.9 24.0 26.0 26.8 7.6 F 9.0 21.3 21.6 23.6	L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22 16	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28 21	HIGH  58  HIGH  1,344  193  638  170  944  HIGH  58  36  28  17  126  CRE  HIGH  214  40  34  26	#	323 FOF PLOTS 5  150 FOF PLOTS 5	81 REO. 10 37 REO. 10	INF. POF		
SD: DOUG R ALI WHEN BL M TOTA CL: SD: DOUG R ALI WHEN BL M TOTA CL: SD: DOUG R ALI WHEN BL M TOTA	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL	COEF. VAR.9 57.9 61.8 117.3 105.5 89.9 COEF. VAR.9 79.3 192.0 208.3 214.5 61.2 COEF. VAR.9 72.3 170.3 172.7 188.8 47.2	F	L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28	HIGH  58  HIGH  1,344  193  638  170  944  HIGH  58  36  28  17  126  CRE  HIGH  214  40  34	#	5 323 FOF PLOTS 5 150 FOF PLOTS 5	81 REO. 10  37 REO. 10	INF. POP		
SD: DOUG R ALI WHEI BL M TOTA CL: SD: DOUG R ALI WHEI BL M TOTA CL: SD: CL: CL: CL: CL: CL:	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 68.1 %	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5 61.2 COEF VAR.9 72.3 170.3 172.7 188.8 47.2 COEF	F	L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22 16 262 NET BI	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28 21 278	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36 28 17 126 CRE HIGH 214 40 34 26 294	#	5  323  FOF PLOTS  5  150  FOF PLOTS  5	81 REO. 10  37 REO. 10	INF. POF		
SD: DOUG R ALI WHEI BL M TOTA CL: SD: DOUG R ALI WHEI BL M TOTA CL: SD:	68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 1.0	COEF VAR.9 57.9 61.8 117.3 105.5 89.9 COEF VAR.9 79.3 192.0 208.3 214.5 61.2 COEF VAR.9 72.3 170.3 172.7 188.8 47.2 COEF VAR.9	F	L L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22 16 262 NET BEOW	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28 21 278  F/ACRE AVG	S - BF HIGH 1,344 193 638 170 944  HIGH 58 36 28 17 126  CRE HIGH 214 40 34 26 294  HIGH	#	5 323 FOF PLOTS 5 150 FOF PLOTS 5	81 REO. 10  37 REO. 10	INF. POF		
SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA	68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR	COEFI VAR.9 57.9 61.8 117.3 105.5 89.9 COEFI VAR.9 79.3 192.0 208.3 214.5 61.2 COEFI VAR.9 72.3 170.3 172.7 188.8 47.2 COEFI VAR.9	F	L L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22 16 262 NET BEOW 2,471	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28 21 278  F/ACRE AVG 46,819	HIGH  214 40 34 26 294  HIGH  1,344 193 638 170 944  HIGH  58 36 28 17 126  CRE HIGH  214 40 34 26 294	#	5  323  FOF PLOTS  5  150  FOF PLOTS  5	81 REO. 10  37 REO. 10	INF. POF		
SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA	68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL	COEFI VAR.9 57.9 61.8 117.3 105.5 89.9 COEFI VAR.9 79.3 192.0 208.3 214.5 61.2 COEFI VAR.9 72.3 170.3 172.7 188.8 47.2 COEFI VAR.9	F	L L	SAMPL OW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22 16 262 NET BEOW 2,471 2,753	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28 21 278  F/ACRE AVG 46,819 3,499	S - BF HIGH 1,344 193 638 170 944 HIGH 58 36 28 17 126 CRE HIGH 214 40 34 26 294 HIGH 51,167 4,245	#	5  323  FOF PLOTS  5  150  FOF PLOTS  5	81 REO. 10  37 REO. 10	INF. POF		
SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA CL: SD: DOUC R ALI WHEE BL M TOTA	68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK EAPLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL 68.1 % 1.0 G FIR DER MLOCK APLE AL	COEFI VAR.9 57.9 61.8 117.3 105.5 89.9 COEFI VAR.9 79.3 192.0 208.3 214.5 61.2 COEFI VAR.9 72.3 170.3 172.7 188.8 47.2 COEFI VAR.9	F	L L	SAMPLOW 1,202 148 355 111 824 TREES OW 48 22 16 10 108 BASAL OW 178 26 22 16 262 NET BEOW 2,471	AVG 1,273 170 497 141 884  /ACRE AVG 53 29 22 14 117  AREA/A AVG 196 33 28 21 278  F/ACRE AVG 46,819	HIGH  214 40 34 26 294  HIGH  1,344 193 638 170 944  HIGH  58 36 28 17 126  CRE HIGH  214 40 34 26 294	#	5  323  FOF PLOTS  5  150  FOF PLOTS  5	81 REO. 10  37 REO. 10	INF. POF		

т	SPCSTG	R			Species,	Sort G Projec	rade - Boar t: RS		ot V	olur	nes (T	Гуре)				Pag Dat Tim	e 4	1 4/21/20 0:03:	025 48AM
T05N Tw <sub>I</sub> 05N	_	ge	Sec	Tract RSAL_;	3	Туре 00М			Plot		-	le Tree 25	es	C 1	'uFt	T05N l BdFt W	R06W	COOMC	
			%					Pero	cent N	let Bo	oard Fo	ot Vol	ume			Avera	ge Log	<u> </u>	T
Spp	m	Gr ad	Net BdFt	Bd. Def%	Ft. per Ac Gross	re Net	Total Net MBF	Lo 4-5	og Sca 6-11			Lo.	g Ler 21-30	_	36-99	Ln Dia Ft In	Bd Ft	CF/ Lf	Logs Per /Acre
D	DO	CU														9 23		0.00	3.9
D	DO	2S	86	20.8	66,808	52,939	64			28	72	1	2	4	93	38 17	408	2.13	129.8
D	DO	3S	13	20.3	10,120	8,064	10		66	5	29	6	8	17	69	33 10	107	0.80	75.6
D	DO	4S	1	20.0	659	527	1		100			77	23			19 7	24	0.42	22.4
D	Totals		96	20.7	77,586	61,529	75 -74		9	25	66	2	3	6	89	34 14	266	1.61	231.7
Н	DO	CU														8 30		0.00	.2
Н	DO	2S	72	22.1	1,857	1,447	2			35	65	į.			100	40 17	388	2.12	3.7
Н	DO	3S	19	20.0	456	365	0		92	8			14	65	21	32 9	83	0.71	4.4
Н	DO	4S	9	25.3	236	177	0		100			29	71			21 6	22	0.38	7.9
Н	Totals		3	22.0	2,549	1,988	2		26	27	47	3	9	12	77	28 10	123	1.04	16.2
A	DO	1S	37	1.6	173	170	0			23	77		23		77	35 15	300	2.00	.6
A	DO	2S	38		169	169	0		100				49		51	32 10		1.10	1.3
Α	DO	3S	13		58	58	0		100				100			30 9	70	0.87	.8
A	DO	4S	12		52	52	0		100			100				17 6	21	0.45	2.5
A	Totals		1	.6	453	450	0+		62	9	29	12	40		48	25 9	87	0.99	5.2
Туре Т	otals			20.6	80,589	63,968	77		10	25	65	3	3	6	88	34 14	253	1.57	253,1

Т	TSPCSTG	R			Species,	Sort G Projec	rade - Boai et: R	rd Foo SAL	ot V	olun	nes (T	Гуре)				I	Page Date 'ime		1 /21/20 0:03:0	)25 )6AM
T05 Tv		ge	Sec	Tract RSAL_1		Туре 00М		es 1	Plots	3	_	le Tree 74	s	C 1	uFt	T05 BdF W		97W S	S25 T	00MC
Spj	_	Gr ad	% Net BdFt	Bd. Def%	Ft. per Ac	ere Net	Total Net MBF	Log	Sca	le Di		Log 12-20	g Ler	_	36-99	Av Ln I Ft I		Bd	CF/ Lf	Logs Per /Acre
D D D D	DO DO DO	CU 2S 3S 4S	81 17 2	20.7 21.3 23.0	38,416 8,276 615	30,473 6,509 474	64 14	i	47 98	27 16 2	73 37	0 6 54	3 14 30	2 10 16	94 71	14 1 39 1 33 1 22	17 10	128	0.00 2.19 0.99 0.44	1.7 74.3 51.0 18.7
D A	Totals  DO	1S	24	20.8	47,307 864	37,455 855	79		9 19	25 81	66	2	6	16	89 84	34 1	.3		1.63	145.7 3.9
A A A	DO DO DO	2S 3S 4S	29 22 25	1.7	1,036 763 874	1,018 751 874	2 2 2		00 81 00	19		54	24 20 17	19 5	76 62 24	35 1 37 1 21	.0	136	1.18 1.04 0.54	7.0 5.5 27.8
A	Totals		8	1.1	3,539	3,499	7		76	24		13	15	9	62	27	8	79	0.89	44.3
H H H	DO DO DO	2S 3S 4S	48 43 9	21.3 21.3 21.8	1,993 1,725 360 4,078	1,568 1,358 281	3 3 1	1	54 00	29 16	71 30	2 54	3 37	7 21 9	93 73	20	9 6	102 22	1.91 0.82 0.38	4.7 13.3 13.1
H M	Totals DO	CU		21.3	,	3,207	7		32	21	47	6	4	13	77	30 13 1		103	0.91	1.3
M M M	DO DO	1S 2S 3S	49 6 16	7.3 5.1	657 75 200	609 75 190	1 0 0		00 00	61	39	10	40 100 13	12 24	53	32 1 29 1 31	0	108	<ul><li>2.14</li><li>1.32</li><li>1.07</li></ul>	2.5 .7 2.4
М <b>М</b>	DO Totals	4S	29	5.1	365 1,298	356 1,231	3		00 51	30	19	33 13	28	17	23 37	26	7 9	38 76	0.64	9.4
Туре	Totals			19.3	56,221	45,393	95		17	25	58	3	7	5	85	32 1	2 1	91	1.39	237.2



