

Timber Sale Appraisal Larkin Thin

Sale AT-341-2023-W00982-01

District: Astoria Date: August 16, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$800,768.08	\$295.39	\$801,063.47
		Project Work:	(\$89,074.00)
		Advertised Value:	\$711,989.47



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District: Astoria Date: August 16, 2022

Timber Description

Location:

Stand Stocking: 50%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	97
Western Hemlock / Fir	10	0	95
Alder (Red)	11	0	95

Volume by Grade	2\$	3S & 4S 6"- 11"	Camprun	Total
Douglas - Fir	99	1,985	0	2,084
Western Hemlock / Fir	1	183	0	184
Alder (Red)	0	0	1	1
Total	100	2,168	1	2,269

Comments: Pond Values Used: Local Pond Values, July, 2022.

Expected Log Markets: Warrenton, Banks, Forest Grove, Tillamook, Wauna, Longview, WA, and Chehalis,

Fuel cost allowances are based on the month local pond values were collected.

PRICING:

Western Red Cedar and other Cedars stumpage = pond value - (Douglas-fir) logging cost. \$805.37/MBF = \$1,100/MBF - \$294.63/MBF

Spruce = pond value - (Douglas-fir) logging cost. \$205.37/MBF = \$500/MBF - \$294.63/MBF

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

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

Temporary skid road culvert install:

C325 log loader: 3 crossings x 2 hours x 145/hr = 870

Ditch Filters:

16 bales of straw @ \$12/bale = \$192

4 hours of labor (installation/removal) @ \$45/hr = \$180

Remove Cross drains, waterbar and block unsurfaced road segments: 1A to 1B, 1C to 1D, 1E to 1F, 2A to 2B, 2C to 2D.

Excavator C315:

1 move-in @ \$905/move-in = \$905

8 hours of excavator @ \$114/hr = \$912

Deliver servicable salvaged culverts to ODF office(unsalvageable to recycle): Pickup and culvert trailer 2 hours @ \$48.00/Hr = \$96.00

TOTAL Other Costs (with Profit & Risk to be added):\$5,155

Other Costs (No Profit & Risk added): None

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)
TOTAL Road Maintenance: \$17,934/2,293 MBF = \$7.82/MBF

9/15/22



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Date: August 16, 2022 District: Astoria

Logging Conditions

Douglas - Fir 99.00% Combination#: 1

> Western Hemlock / Fir 99.00% Alder (Red) 99.00%

Logging System: Track Skidder Process: Harvester Head Delimbing

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

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

loads / day: bd. ft / load: 4400

cost / mbf: \$151.82 machines: Forwarder

Harvester

1.00% Combination#: 2 Douglas - Fir

> Western Hemlock / Fir 1.00% Alder (Red) 1.00%

Logging System: Shovel Process: Harvester Head Delimbing

Short (400 ft) yarding distance: downhill yarding: No

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

loads / day: bd. ft / load: 4400

cost / mbf: \$121.46 machines: Forwarder

Harvester

9/15/22 4



Timber Sale Appraisal Larkin Thin

Sale AT-341-2023-W00982-01

District: Astoria Date: August 16, 2022

Logging Costs

Operating Seasons: 3.00

Profit Risk: 12%

Project Costs: \$89,074.00

Other Costs (P/R): \$5,155.00

Slash Disposal: \$0.00 Other Costs: \$0.00

Miles of Road

Road Maintenance:

\$7.82

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	4.4
Western Hemlock / Fir	\$0.00	3.0	4.2
Alder (Red)	\$0.00	2.0	3.8



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District: Astoria Date: August 16, 2022

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$151.52	\$8.05	\$5.80	\$93.64	\$2.27	\$31.35	\$0.00	\$2.00	\$0.00	\$294.63
Western Hemlock / Fir									
\$151.52	\$8.21	\$5.80	\$100.00	\$2.27	\$32.14	\$0.00	\$2.00	\$0.00	\$301.94
Alder (Red)									
\$151.52	\$8.21	\$5.80	\$165.78	\$2.27	\$40.03	\$0.00	\$2.00	\$0.00	\$375.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$654.75	\$360.12	\$0.00
Western Hemlock / Fir	\$0.00	\$575.19	\$273.25	\$0.00
Alder (Red)	\$0.00	\$671.00	\$295.39	\$0.00



Timber Sale Appraisal Larkin Thin Sale AT-341-2023-W00982-01

District: Astoria Date: August 16, 2022

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	2,084	\$360.12	\$750,490.08
Western Hemlock / Fir	184	\$273.25	\$50,278.00
Alder (Red)	1	\$295.39	\$295.39

Gross Timber Sale Value

Recovery: \$801,063.47

Prepared By: John Tillotson Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale:

Larkin Thin

MBF: __

2,269

Date:

August 17, 2022

\$\$/MBF:

\$7.90

By:

John Tillotson

	I	Move-in	,	l 1		
Туре	Equipment/Rationale	Rate	Times	Hours	Rate	Cost
Interim	Grader 14G	\$875	1	10	\$113	\$2,005
Operations	Dump Truck	\$184	1	6	\$89	\$718
Entries (1)	Rubber Tired Backhoe	\$361	1	4	\$87	\$709
	*					-
	Grader 14G	\$875	1	33	\$113	\$4,604
Final	Dump Truck 12CY (2 @ \$119)	\$184	2	12	\$89	\$1,436
Road	Rubber Tired Backhoe	\$361	1	8	\$94	\$1,113
Maintenance	Vibratory Roller	\$875	1	33	\$87	\$3,746
Haul Route	C315 Excavator	\$905	1	8	\$114	\$1,817
	Water Truck 2,500 gallon	\$214	1	12	\$101	\$1,426
	Labor			8	\$45	\$360
Total						

Interim Operations Road Maintenance

miterian e perduente i tead maintenante								
Production Rates	Miles/day	Distance(miles)	Days	Hours				
Grader	2.5	3.0	1.2	9.6				

Final Road Maintenance

Production Rates	Miles/day	Distance(miles)	Days	Hours
Grader	1.5	6.1	4.1	33
Vibratory Roller	1.5	6.1	4.1	33

Water process and compact: Crushed rock roads
Grade and compact: Pit-run and powerline roads
Larkin Green Road crushed rock road: 2.9 Miles
Unnamed crushed rock spur roads: 2.0 Miles
Unnamed Pit-run spur roads and powerline road: 1.2 Miles
Water, Grade & Process Total = 4.9 Miles
Grade & Compact only = 1.2 Miles

SUMMARY OF ALL PROJECT COSTS

SALE NAME Larkin Thin Project No. 1: ROAD CONSTRUCTION: With additional fuel Road segment Cost Length (Sta) Length (Mile) allowance per project 1A to 1B, 1C to 1D, 1E to 1F, 32.30 0.61 \$9,688.24 \$10,657 2A to 2B, and 2C to 2D Road Maint. \$582.05 \$640 \$1,115.11 Move-In \$1,227 TOTALS 32.30 0.61 \$11,385 \$12,524 **Project No. 2: ROAD IMPROVEMENT:** Length (Sta) Length (Mile) Road segment <u>Cost</u> I1 to I2, I3 to I4, I5 to I6, I7 to I8, I9 to I10, I11 to I12, 320.7 6.07 \$59,217.15 \$65,139 113 to 114, 115 to 116, 117 to 118, I19 to I20, and I21 to I22 Road Maint. \$3,557.62 \$3,913 Move-In \$6,815.89 \$7,497 **TOTALS** 6.07 \$69,591 \$76,550 SPECIAL PROJECTS (Move-In and Road Maint. are included separetly as needed, for each Special Project): <u>Cost</u> **Description** Length/Vol. **TOTAL SUBTOTAL** \$80,976 10% Increase Fuel Allowance \$8,098 **GRAND TOTAL** \$89,074 Compiled By:___ D. Farner Date: 08/17/2022

SALE NAME	Larkin Thin				
Project No. 1	: ROAD CONSTRUCTION:				
	Road segment 1A to 1B, 1C to 1D, 1E to 1F, 2A to 2B, and 2C to 2D	Length/Sta 32.30	Length/Mile 0.61	<u>Cost</u> \$9,688	
	TOTALS	32.30	0.61		\$9,688
Project No. 2	2: ROAD IMPROVEMENT:				
	Road segment 11 to 12, 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112, 113 to 114, 115 to 116, 117 to 118, 119 to 120, and 121 to 122	Length/Sta 320.70	Length/Mile 6.07	<u>Cost</u> \$59,217	
	TOTALS		6.07		\$59,217
MOVE IN (Co	onstruction & Improvement Only) Eq 14G Grader Vibratory Roller	uipment	Length/Mile	Cost \$875.00 \$875.00	
	C315 Excavator C966 Loader D8 Dozer C568 Excavator 12cy Highway Dump Truck (x5) Water Truck (2,500 gal)			\$905.00 \$875.00 \$1,581.00 \$1,686.00 \$920.00 \$214.00	
	TOTAL			-	\$7,931.00
ROAD MAIN	TENANCE (Construction & Improve	ement Only)	Length/Mile	Cost	
	Final Project Road Maintenance		2.23	\$4,140	
	TOTAL			,	\$4,140

SUMMARY OF CONSTRUCTION COSTS

\$7,785	Clearing, Exc., Culv.	Subtotal of CI			TION	& INSTALLA	MATERIALS	SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION	SUB TOTAL
	\$46.00	\$23.00	2		llvert marker	Fiberglass culvert marker	& markers:	Culvert stakes & markers:	
					-		neous:	Other/miscellaneous:	
	Cost	Rate	Quantity		Description				
\$0.00					\$0.00	\$0P.00		200	- 100
\$0.00					\$982.40	\$32.08	30	18" ACSD	11+00
\$0.00					\$1,283.20	\$32.08	40	18" ACSP	2+00
\$0.00			-		\$0.00			1 1 1	1A to 1B
Cost	Rate	Lineal ft.	Dia/type	Location	Cost	ON Rate	INSTALLATI Lineal ft.	CULVERT MATERIALS AND INSTALLATION Location Dia/type Lineal ft.	CULVERT M.
						·			
\$3,790				- 1			ON	SUB TOTAL FOR EXCAVATION	SUB TOTAL
	\$0.00								
	\$0.00								2D
	\$0.00					8			1F,2A-2B,2C-
e e	\$2,228.70	II	\$138.00	×	16.15	\$/Sta.	truction	Balanced Construction	1C-1D,1E-
	\$700.00	II	\$175.00	×	4.00	\$/Hr.		turnaround	
							uts, turnout,	Improve ditchouts, turnout	
	\$861.76	II	\$53.36	×	16.15	\$/Sta.	(surface.	1A-1B
	\$0.00				.a.		catter sod and ting rocked	Remove and scatter sod and ferns from existing rocked	
	Cost	11	Rate	×	Cy/amount				
								2	EXCAVATION
\$1,703						ଜ	& GRUBBIN	SUB TOTAL FOR CLEARING & GRUBBING	SUB TOTAL
	\$0.00								
	\$1,352.70	II	\$ 1,503	×	0.90	V	of right of way	Scatter outside of right of way	1F,2A-2B,2C- 2D
	9								1C-1D,1E-
	\$350.00		\$ 175	×	2.00	al trees \$/Hr	catter individu	Remove and scatter individual trees \$/Hr	;
	\$0.00	11 11	Kate	×	Acres/amount			Method	1A-1B
								GRUBBING	CLEARING & GRUBBING
0.61 MILES 0.00 MILES	32.30 STATIONS	32.30 0.00	NEW CONSTRUCTION: RECONSTRUCTION:	NEW CON RECON		F(2.05),	-1D(4.20),1E-1 2D(5.10)	Larkin Thin 1A-1B(16.15),1C-1D(4.20),1E-1F(2.05), 2A-2B(4.80),2C-2D(5.10)	SALE NAME: Larkin Thin ROAD: 1A-1B(16.15 2A-2B(4.80).

									Total Rock for Road Segment:	Junction Rock	Application		NOAD SEGMENT	DOAD SECMENT	Junction Rock		Application		ROAD SEGMENT	Total Rock for Road Segment:	Junction Rock	Application	• • • •	NOAD OF CHICK!	BOAD SECMENT	Junction Rock		Application		ROAD SEGMENT				SURFACING
	SUB TOTAL FOR SPECIAL PROJECTS	SPECIAL PROJECTS		SUB TOTAL FOR SURFACING			_		egment:	1 1/2"-0" crushed	and Type	Rock Size	72 00 20	Silleili.	1 1/2"-0" crusned	and Type	Rock Size		2A to 2B	egment:	1 1/2"-0" crushed	and Type	Rock Size	- 8	AE to AE	1 1/2 -U crusnea	and Type	Rock Size		1A to 1B		col		Subgrade prep:
	SPECIAL PR	STS		SURFACING			i loccoonig.	Processing:		0+00	Location				0+00	Location	i.				0+00	Location				0+00	Location				,	Subgrade Compaction	Grade, Shape and outslope 14'	
	OJECTS	-		_		Water, Proc		J	2C to 2D	N/A	(inches)	Rock	Denth of	07 O YZ	30 to 3B	(inches)	Rock	Depth of		1E to 1F	N/A	(inches)	Rock	Depth of	2	10 to 10	(inches)	Rock	Depth of			npaction	and outslope	Description
,					6"-0"pr	Water, Process & Compact Base Rock (4"-0"):		Description		junction 22	per	Volume (CY)	2C to 2D	DOINT TO DOINT	Junction 22		Volume (CY)	2A to 2B	POINT TO POINT		junction 22	per	Volume (CY)	1E to 1F	DOINT TO DOINT	Junction 22	-	Volume (CY)	1A to 1B	POINT TO POINT			14'	
				88	4"-0" 1 1/2"-0" crushed	Rock (4"-0"):				junctions 1	of	Number	0+00 to 5+10	Ct2 t2 Ct2	Junctions	of	Number	0+00 to 4+80	Sta. to Sta.		junctions 1	of	Number	0+00 to 2+05	Cts to Cts	Junctions	of	Number	0+00 to 16+15	Sta. to Sta.				
					24 :				22	22	(CY)	VOLUME	TOTAL	12	3 2	(CY)	VOLUME	TOTAL		22	22	(CY)	VOLUME	TOTAL	77	3 2	(CY)	VOLUME	TOTAL			32.30	32.30	Stations/ amount
Subtotal of Surfacing & Spec. Proj. Subtotal of Clearing, Exc., Culv.				88	Total		140.00	No sta		\$5.73	amt.	Sta./	Rate/		\$5.73	amt.	Sta./	Rate/			\$5.73	amt.	Sta./	Rate/		\$5.73	amt.	Sta./	Rate/		_	×	×	×
Subtotal of Surfacing & Spec. Proj. Subtotal of Clearing, Exc., Culv.							י מוכי טומ	Rate/sta		\$126		Cost			\$126	9	0000	Cost			\$126		Cost			\$120		000.	Cost			\$22.69	\$20.63	Rate/ sta/amt
pec. Proj. Exc., Culv.						\$0.00		Cost	\$126					\$120	9					\$126					\$120	9						\$732.89	\$666.35	Cost
\$1,903 \$7,785	\$0		,	\$1,903																										2				

Compiled By:

D. Farner

Date: 08/17/2022

\$9,688

GRAND TOTAL

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Larkin Thin

ROAD

11 to 12(151.15), 13 to 14(5.0), 15 to 16(27.60), 17 to 18(6.6), 19 to 110(31.0), 111 to 112(17.25), IMPROVEMENT:

113 to 114(17.8), 115 to 116(19.5), 117 to 118 (15.5), 119 to 120(21.3), 121 to 122(8.0) STATIONS
320.70 STATIONS 0.00 MILES

Acres/amount

×

Rate

Cost

\$0

SUB TOTAL FOR CLEARING & GRUBBING

CLEARING & GRUBBING
Method

113 to 114	111 to 112	6 - -	17 to 18		5+00 16+30 t	I1 to I2	EXCAVATION
15+75 Construct new turnaround w/C315	6+15 Construct new turnaround w/C315 12+95 Construct new turnaround w/C315	3+70 Construct new turnaround and ditch w/C315 7+15 Construct new turnaround and ditch w/C315 12+35 Construct new turnaround and ditch w/C315 20+10 Construct new turnaround and ditch w/C315 27+10 Construct new turnaround w/C315	4+35 Locate and clean culvert inlet w/C315 4+35 Cut culvert outlet back 1 foot w/ laborer	17+05 Construct direction right C315 17+05 Remove culv., prep. for replacement C315 17+05 Dewater crossing Dispose of culverts 12 cu.yd dump Clean ditches and ditchouts w/ C315	5+00, 21+40 Increase curve widening C315 5+00 Place riprap to protect utility pole C315 16+30 to 17+05 Construct ditches right and left C315	41+10 Install series of 3 rock ditch filters w/C315	ATION Material
\$/Hr.	\$/Hr. \$/Hr.	\$/Hr. \$/Hr. \$/Hr. \$/Hr.	\$/Hr. \$/Hr.	\$/Hr. \$/Hr. \$/Hr. \$/Hr.	\$/Hr. \$/Hr.	\$/Hr.	_
1.0	1.0	1.0 1.0 1.0	1.0 1.0	4.0 4.0 2.0 2.0	4.0 1.0 2.0	1.0	Cy/amount
×	××	××××	××	××××	: × × ×	×	×
\$114.00	\$114.00 \$114.00	\$114.00 \$114.00 \$114.00 \$114.00 \$114.00	\$114.00 \$45.00	\$114.00 \$112.00 \$12.00 \$89.00 \$114.00	\$114.00 \$114.00 \$114.00	\$114.00	Rate
II	11 11		11 11			II	II
\$114.00	\$114.00 \$114.00	\$114.00 \$114.00 \$114.00 \$114.00 \$0.00	\$114.00 \$45.00	\$14.00 \$456.00 \$48.00 \$178.00 \$228.00	\$456.00 \$114.00 \$228.00	\$114.00	Cost

	\$0.00								
	\$207.00	\$23.00	9		rt marker	Fiberglass culvert marker	markers:	Culvert stakes & markers:	
					ossings	Mulch stream crossings	eous:	Other/miscellaneous:	
	Cost	Rate	Quantity	· · · · · · · · · · · · · · · · · · ·	Description				
\$0.00					\$2,180.00	\$54.50	40	30" ASCP	17+40
\$0.00					\$962.40	\$32.08	30	18" ACSP	17+05
\$0.00					\$962.40	\$32.08	30	18" ACSP	12+70
\$0.00					\$962.40	\$32.08	30	18" ACSP	4+00
\$0.00									15 to 16
Cost	Rate	Lineal ft.	Dia/type	Location	Cost	Rate	Lineal ft.	Dia/type	Location
					2		NSTALLATION	CULVERT MATERIALS AND INSTALLATION	ULVERT MA
\$3,235							N	SUB TOTAL FOR EXCAVATION	UB TOTAL F
	\$114.00	II	\$114.00	×	1.0	\$/Hr.	6+10 Construct new turnaround w/C315	Construct new tu	I21 to I22 6+10
	#- 	1		· '	-	* :	allaloalla W/COTO	Collegiace	
	\$114.00	11 11	\$114.00	< ×	1.0	\$/Hr.	8+45 Construct new turnaround w/C315	Construct new to	8+45
									119 to 120

Subtotal of Clearing, Exc., Culv.

\$8,509

tal Rock for Road Segment:	Leveling Rock	Application		ROAD SEGMENT	Rock Ditch Filters	Turnaround	Junctions	unctions	Turnouts	Leveling Rock	eveling Rock	Leveling Rock	Application		ROAD SEGMENT							SON MOING
	1 1/2"-0" crushed	Rock Size and Type		13 to 14	6"-4" pit-run	1 1/2"-0" crushed	1 1/2"-0" crushed	1 1/2"-0" crushed	1 1/2"-0" crushed	1 1/2"-0" crushed	1 1/2"-0" crushed	1 1/2"-0" crushed	and Type		l1 to l2	(0+00-7+00,16+00-27+60) I5 to I6 (7+00 to 16+00)	to 120, 121 to 122	11 to 12, 13 to 14, 15 to 16, 17 to 18, 19 to 110, 111 to 112, 113 to	(Sta. 2+60 to 6+80)	151+15), 13 to 14, 17 to 18, 19 to 170, 171 to 172, 173 to 174, 175 to 176, 177 to 178, 179 to 120, 121 to 122	11 to 12, 13 to 14, 17 to 18, 19 to 110, 111 to 112, 113 to 114, 115 to 116, 117 to 118, 119 to 120, 121 to 122	Subgrade prep:
	0+00 to 5+00	Location			41+10	31+55	79+10	3+90, 18+50, 26+30, 51+90, 60+65, 66+90, 81+30, 94+65	42+65, 72+95, 89+10	119+25, 125+55	40+50, 44+90, 56+95, 85+00, 87+50, 90+85, 98+00, 111+00	103+15, 114+65	Location			Grade, Shape and crown 12' (no ditch) Grade, Shape and outslope 12'	Subgrade Compaction		Scatter Ditch Waste	Sod Removal	Grade, Shape and Ditch 16'	
13 10 14	A/N	Rock (inches)	Depth of	1 6 12	NA NA	NA	N/A		N/A			N/A	(inches)	Depth of		n 12' (no ditc ope 12'						Description
	load	Volume (CY) per	13 to 14	POINT TO	3 filter series	turnaround	junction	junction	turnout	location	location	load	volulile (CT)	11 to 12	POINT TO POINT	h)						
	11	(CY)	4	POINT]:	1	22	1	1	33	22	11	(17)	2	POINT							
	loads 2	Number of	0+00 to 5+00	Sta. to Sta.	3 filter series 1			junctions 8	turnouts 3	locations 2		loads 2	of	0+00 to 151+15	Sta. to Sta.				2			
22	22	VOLUME (CY)	TOTAL	425	11	1 1	22	88	33	66	176	22	(CY)	TOTAL		18.60 9.00	320.70		4.20	194.50	293.10	amount
	\$5.73	Sta./ amt.	Rate/		\$6.94	\$5.73	\$5.73	\$5.73	\$5.73	\$5.73	\$5.73	\$5.73	amt.	Rate/		××	×		×	×	×	×
	\$126	000,	Cost		\$/6	\$63	\$126	\$504	\$189	\$378	\$1,008	\$126		Cost		\$20.63 \$20.63	\$22.69		\$26.20	\$26.20	\$27.91	sta/amt
\$120				42,47		1				_==						\$383.72 \$185.67	\$7,276.68		\$110.04	\$5,095.90	\$8,180.42	Cost

	\$382	96.70	22.1		landings	laiouilu 22		21+30	4 -0 clusiled	Turnaround
	\$252	\$5.73	44	3 10	loads	load 11	+	0+00 to 21+30	1 1/2"-0" crushed	Leveling Rock
	9	allir.	3	CI		Jer	(inches)	Location	and Type	
		Sta./	VOLUME	Number	2	Volume (CY)	Rock		Rock Size	Application
	Cost	Rate/	TOTAL	to 21+30	0+00	119 to 120	Depth of		1	
				Sta. to Sta.	Sta	POINT TO POINT			119 to 120	ROAD SEGMENT
\$126			22				117 to 118			Total Rock for Road Segment:
	\$126	\$5.73	22	2	loads	load 11	N/A	0+00 to 9+10	1 1/2"-0" crushed	Leveling Rock
		amt.	(CY)	of		per	(inches)	Location	and Type	Application
	0000	Sta./	VOLUME	Number	N	Volume (CY)	Rock		Rock Size	Application
	Cost	Rate/	TOTAL	0+00 to 15+50	0+00	117 to 118	Depth of			
				to Sta.	Sta	POINT TO POINT			117 to 118	ROAD SEGMENT
\$508			77				115 to 116		-	Total Rock for Road Segment:
	\$382	\$6.94	55		landings	landing 55	N/A	19+50	6"-0" pit-run	Landings
	\$126	\$5.73	22		loads	load 11	N/A	0+00 to 19+50	1 1/2"-0" crushed	Leveling Rock
		amt	(CY)	of .		per	(inches)	Location	and Type	Application
	Cost	Sta./	VOLUME	Number	Z	Volume (CY)	Rock		Rock Size	
)	Rate/	TOTAL	0+00 to 19+50	0+00	115 to 116	Denth of		115 to 116	ROAD SEGMENT
\$002			00	to Sta	2+3	DOINIT TO BOINIT	113 10 114		145 4- 146	lotal Rock for Road Segment:
9 000	\$126	\$5.73	22		turnarounds		\vdash	15+/5	4"-0" crushed	Turnaround
	\$313	\$5.73	3 8	4.2	stations	station 13	\perp	2+60 to 6+80	1 1/2"-0" crushed	Surfacing
	\$63	\$5.73	111		loads		N/A	2+60	1 1/2"-0" crushed	Leveling Rock
		amt	(CY)	of		per	(inches)	Location	and Type	Application
	COST	Sta./	VOLUME	Number	Z	Volume (CY)	Rock		Rock Size	
	Cost	Rate/	TOTAL	0+00 to 17+80	0+00	113 to 114	Depth of			
				to Sta.	Sta	POINT TO POINT			113 to 114	ROAD SEGMENT
\$836	* 100	0.0	132	-	idilidilidi	aildiig	111 to 112	17:20	o -o pician	Total Book for Boad Segment:
	\$458	\$6.73	66 4		landings	landing 66	N/A	17+25	4"-0" crushed	Turnaround
	\$120	\$5.73	22	2 1	loads		+	0+00 to 1/+25	1 1/2"-0" crushed	Leveling Rock
	200	amt.	(CY)	01		per	(inches)	Location	and Type	y ile ferromene.
		Sta./	VOLUME	Number	Z	Volume (CY)	Rock		Rock Size	Application
	Cost	Rate/	TOTAL	0+00 to 17+25	0+00	I11 to I12	Depth of			
				to Sta.	Sta	POINT TO POINT			I11 to I12	ROAD SEGMENT
\$1,241			198				19 to 110			Total Rock for Road Segment:
	\$611	\$6.94	88	_	landings		+	31+00	6"-0" pit-run	Landings
	\$126	\$5.73	22		turnarounds	turnaround 22	N/A tun	27+10	4"-0" crushed	Turnaround
	\$252	\$5.73	4	4	turnarounds	turnaround 11		20+10	4"-0" crushed	Timeround
	2020	\$3.73	4	4	loads	load	NA	3170 7146 43136	1 1/2"-0" crusned	Leveling Rock
	9300	amt.	(CY)	01		per	(inches)	Location	and Type	
		Sta/	VOLUME	Number		Volume (CY)	Rock		Rock Size	Application
	Cost	Rate/	TOTAL	0+00 to 31+00	0+00	19 to 110	Depth of			
				Sta. to Sta.	Sta	POINT TO POINT	:		19 to 110	ROAD SEGMENT
\$126	91.0	0.70	22		jogus	load	17 to 18	0+00 10 0+00	1 1/2 -0 Ciusileu	Total Rock for Road Segment:
	\$128	\$5.73	22	ر د	loade	load 11	(IIICHES)	C+00 to 6+60	4 1/2" O" crichod	
		Sta./	VOLUME	Number	Z	Volume (CY)	Rock		Rock Size	Application
	Cost	Rate/	TOTAL) to 6+60	0+00	17 to 18	Depth of			
				Sta. to Sta.	Sta	POINT TO POINT			17 to 18	ROAD SEGMENT
\$3,828			739		o	-	15 to 16			Total Rock for Road Segment:
	\$98	\$8.88	11	1	locations		N/A	5+00	24"-12" riprap	Utility Pole Protection
	\$504	\$5.73	88	_	culverts	culvert 88	N/A	17+40	1 1/2"-0" crushed	Culvert Bedding and Backfill
	\$567	\$5.73	99	ω	culverts		N/A	4+00, 12+70, 17+05	1 1/2"-0" crushed	Culvert Bedding and Backfill
	\$74	\$5.73	13		stations	station 13	2	6+00 to 7+00	1 1/2"-0" crushed	Traction Rock
	\$126	\$5.73	22	1	junctions		N/A	0+00	1 1/2"-0" crushed	Junctions
	\$0	\$5.73	777	7	loads		N/A	0+00 to 27+60	1 1/2"-0" crushed	Leveling Rock
	\$252	\$5.73	44		curves	curve 22	N/A	5+00 21+40	4"-0" crished	Clinya widening
	\$1.576	\$5.73	275	25	loads		N/A	0+00 to 27+60	4"-0" crished	Leveling Rock
	\$630	\$5.73	110		stations	station 50	NA	16+30 to 18+50	4"-0" crushed	Base Rock
		amt	(CY)	of	-	per per	(inches)	Location	and Tyne	Application
	Cost	Kale)		0+00 to 2/+60	U+UU	Volume (CV)	Deput of		7	

Date:

08/16/2022

Compiled By:

D. Farner

SUB TOTAL FOR SURFACING GRAND TOTAL SUB TOTAL FOR SPECIAL PROJECTS SPECIAL PROJECTS Processing: I1 to I2, I7 to I8, I9 to I10, I11 to I12, I13 to I14, I15 to I16, I17 to I18, I19 to I20 I5 to I6, I13 to I14, I17 to I18, I19 to I20 I5 to I6 Water, Process & Compact: 24"-12" rr Grade, Shape & Compact:
Traction Rock Water, Process & Compact 6"-4" pr 6"-0"pr 264 Description 4"-0" crushed 1 1/2"-0" crushed 616 992 pit-run development riprap development drainrock 2"-1" 3/4"-0" crushed 259.25 48.45 1.00 Subtotal of Surfacing & Spec. Proj. Subtotal of Clearing, Exc., Culv. Rate \$2.92 \$4.83 \$27.29 \$63.48 \$63.48 **Total** 1,894 Cost \$803.00 \$53.13 \$16,457 \$1,322 \$63 **\$856** \$50,708 \$8,509 \$59,217 \$49,852

Leveling Rock
Junctions
Turnaround
Total Rock for Road Segment: Total Rock for Road Segment: ROAD SEGMENT Application Rock Size
and Type
1/2"-0" crushed
1/2"-0" crushed
4"-0" crushed 121 to 122 Location 0+00 to 8+00 0+00 6+10 Depth of Rock (inches)

N/A

N/A

N/A

N/A

121 to 122 119 to 120 junction turnaround POINT TO POINT
121 to 122
Volume (CY) per junctions turnarounds Sta. to Sta. 0+00 to 8+00 Number of TOTAL VOLUME (CY)
22
11
11
44 121 Sta./ sts.73 \$5.73 \$5.73 Cost \$126 \$63 \$63 \$252 \$760

Description

No.sta

Rate/sta

Cost

Projects Road Maintenance Cost Summary

Sale:

Larkin Thin

Date:

By:

17-Aug-22 D. Farner

Туре	Equipment/Rationale			Hours	Rate	Cost	
Project Work	Grader 14G			12	\$113	\$1,344	
Final Haul	Dump Truck 12CY			3	\$89	\$267	
Road	FE Loader C966		(8)	3	\$94	\$282	
Maintenance	Vibratory Roller			12	\$87	\$1,035	
	Water Truck 2,500 gallon			12	\$101	\$1,212	
Total		,					\$4,140

Production Rates Grader Vibratory Roller

Miles/day	Distance(miles)	Days
1.5	2.23	1.5
1.5	2.23	1.5

NOTE: Nicolai Mainline 1.50 Miles Hunt Creek Road Miles 0.73 Miles Miles TOTAL= 2.23 Miles

CRUSHED ROCK COST

SALE NAME: Larkin Thin
PROJECT: Project No. 1 and 2
Stockpile: Hunt Creek Stockpiles

DATE: 08/16/2022
BY: D. Farner

Otockpile.		Orcek Oloc	крисо							
Road	Γ	Cubic			ONE W	AY HAUL IN	MILES			1 Total
Segment	Stations	Yards	 50 MPH	30 MPH			15 MPH	10 МРЫ	5 MPH	Total Haul
I1 to I2	151.15	418	1.00	OO IVII II	1.50	1.00	1.06	0.10	0.10	4.76
13 to 14	5.00	22	1.00		1.50	0.50	0.35	0.10	0.10	3.55
15 to 16	27.60	728	1.00		1.50	0.50	0.70	0.10	0.10	3.90
17 to 18	6.60	22	1.00		1.50	0.50	0.70	0.10	0.10	3.90
I9 to I10	31.00	110	1.00		1.50	1.40	1.32	0.10	0.10	5.42
I11 to I12	17.25	66	1.00		1.50	1.40	1.37	0.10	0.10	5.47
I13 to I14	17.80	88	1.00		1.50	1.50	1.58	0.10	0.10	5.78
I15 to I16	19.50	22	1.00		1.50	1.50	1.63	0.10	0.10	5.83
I17 to I18	15.50	22	1.00		1.50	1.50	1.68	0.10	0.10	5.88
I19 to I20	21.30	66	1.00		1.50	1.50	1.63	0.10	0.10	5.83
I21 to I22	8.00	44	1.00		1.50	1.50	1.69	0.10	0.10	5.89
1A to 1B	16.15	22	1.00		1.50	0.50	0.66	0.10	0.10	3.86
1E to 1F	2.05	22	1.00		1.50	1.00	0.48	0.10	0.10	4.18
2A to 2B	4.80	22	1.00		1.50	0.50	0.53	0.10	0.10	3.73
2C to 2D	5.10	22	1.00		1.50	1.00	0.40	0.10	0.10	4.10
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TOTAL	348.80	1,696						,		AVERAGE
		CU. YD.								HAUL
CUBIC YARD	WEIGHTE	HAUL	1.00		1.50	0.87	0.97	0.10	0.10	4.55
					Α	verage Rou	nd Trip Dista	nce (miles)	9.09	

ROCK HAUL:

Truck type:	D20	No. trucks:			
Delay min.:	8	Efficiency:	85%	Ave haul: \$4.04	/cy
				Load: \$0.60	/cy
Truck type:	D12	No. trucks:	5	Spread: \$1.08	/cy
Delay min.:	6	Efficiency:	85%		
Truck type:	D10	_ No. trucks:		Production: cy/day =	781
Delay min.:	5	Efficiency:	85%		

CRUSHED ROCK HAUL COSTS

1,696 cy @

\$5.73 /cy

PIT RUN ROCK COST

SALE NAME: ____ DATE: 08/16/2022 BY: D. Farner Larkin Thin PROJECT: Project No. 1 and 2

QUARRY: Hunt Creek Stockpiles MATERIAL: Pit Run

QUARRY:	Hunt	Creek Stoc	kpiles							
Road		Cubic			ONF W	AY HAUL IN	I MIL ES			Total
Segment	Stations	Yards	50 MPH	30 MPH				10 MPH	5 MPH	
I1 to I2	151.15	11	1.00		1.50	1.00	1.06	0.10	0.10	4.76
I9 to I10	31.00	88	1.00		1.50	1.40	1.32	0.10	0.10	5.42
I11 to I12	17.25	66	1.00		1.50	1.40	1.37	0.10	0.10	5.47
I15 to I16	19.50	55	1.00		1.50	1.50	1.63	0.10	0.10	5.83
I19 to I20	21.30	55	1.00		1.50	1.50	1.63	0.10	0.10	5.83
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TOTAL	240.20	275								AVERAGE
	STA./NO.									HAUL
CUBIC YARD	WEIGHTED	HAUL	1.0		1.5	1.4	1.4	0.1	0.1	5.57
					<i>P</i>	werage Rou	nd Trip Dista	ance (miles)	11.14	-

ROCK HAUL:

Truck type:	D20	No. trucks:			
Delay min.:	8	Efficiency:	85%	Ave haul: \$4.96	/су
				Load: \$0.72	/cy
Truck type:	D12	No. trucks:	5	Spread: \$1.26	/cy
Delay min.:	6	Efficiency:	85%		
Truck type:	D10	No. trucks:		Production: cy/day = 63	7
Delay min.:	5	Efficiency:	85%		

PIT RUN ROCK HAUL COSTS

275 cy @ **\$6.94 /cy**

SALE NAME: PROJECT: QUARRY:		Larkin Thin ject No. 1 a Creek Stoc	nd 2	MA	ΓERIAL	Rip Ra	ар		DATE: _ BY: _	,	08/16/ D. Fa		_
Road	Stations	Cubic	50 MDU	20 ME		ONE WAY H		_	o MDUI		MDII	Total	

Road		Cubic	T		ONE W	AY HAUL IN	I MII ES			Total
Segment	Stations	Yards	50 MPHI	30 MP	H 25 MPH			10 MPH	5 MPH	
15 to 16	27.60	11	1.00		1.50	0.50	0.70	0.10	0.10	3.90
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OTAL	27.60	11								AVERAG
OTAL	STA./NO.	CIT AD								HAUL
UBIC YARD	WEIGHTED	HAUL	1.0		1.5	0.5	0.7	0.1	0.1	3.90
						Average Rou			7.80	3.00

ROCK HAUL:

Truck type:	D12	No. trucks:	1			
Delay min.:	6	Efficiency:	85%	Ave haul:	\$3.47	/cy
				Load:	\$5.41	/cy
Truck type:	D10	No. trucks:		Develop:		/cy
Delay min.:	5	Efficiency:	85%	·		_

Production: cy/day = 182

RIP RAP ROCK HAUL COSTS

11 cy @ \$8.88 /cy

Larkin Thin TIMBER CRUISE REPORT FY 2023

Sale Area Location: Portions of Section 25 of T8N, R7W, Sections 19, 20, and 30 of T8N, R6W, W.M., Clatsop County, OR.

2. Fund Distribution:

BOF 100%

Tax Code: 1-03 (42.17%)

4-03 (57.83%)

3. Sale Acreage by Area:

Unit	Harvest Type	Gross Acres	Stream Buffer Acres	Existing R/W Acres	New R/W	Non- Stocked Area	Net Acres	Survey Method
1	Partial Cut	63	7 💇	3	1 8	-	52	GIS
2	Partial Cut	39	5	1	<1	-	33	GIS
3	Partial Cut	180	2	6	-	-	172	GIS
3A	Partial Cut	88	3	4	-tebs	and Lon On	81	GIS
4	R/W	us Arthuma	n AV Fastan	Sola Arace	A ant who			LxW
TOTALS	-	370	17	14	-	-	339	

4. Cruisers and Cruise Dates: Kevin Berry, Justin Bush, John Czarnecki, Michele Huffman, and Ryan Simpson (08/15/2022 – 08/16/2022)

5. Cruise Method and Computation:

<u>Units 1, 2, & 3</u>: Units 1, 2, & 3 were variable plot cruised with a 27.78 BAF. A total of 66 plots were sampled on a 5.5 by 8 chain spacing with a grade to count ratio of 1:2, resulting in 27 grade plots and 38 count plots*.

<u>Unit 3a</u>: Unit 3a was variable plot cruised with a 20 BAF. A total of 31 plots were sampled on a 4.5 by 6 chain spacing with a grade to count ratio of 1:2, resulting in 11 grade plots and 20 count plots*.

<u>Unit 4 (R/W)</u>: In-unit Right-of-Way consists of new spur roads within Units 1 and 2 totaling approximately 1 acre. Cruise data for Unit 4 was obtained from the U123 cruise, and the acreage has been adjusted accordingly. This sale includes less than one acre of unstocked out-of-unit Right-Of-Way.

*The reported number of grade and count plots vary from those indicated in the cruise map for U123 and U3a due to minor species being graded on count plots.

Data was collected on Allegro 2 data collectors and downloaded to the Atterbury SuperACE 2008 program for computing. See the attached Cruise Designs for more details on the cruise method. The cruise calculations were processed at the Astoria District office.

UNIT(s)	CRUISE	TRACT	TYPE	ACRES
1, 2, & 3	LARKPC	U123	00PC	
3A	LARKPC	U3M	00PC	
4 R/W	LARKPC	U4	00RW	

6. Timber Description:

<u>Units 1, 2, & 3</u> are partial cut units with an age of 38 to 42 years. The stands consist of Douglas-fir, with minor components of red alder, and western hemlock. The average take Douglas-fir is approximately 12.8 inches DBH and 47 feet to a merchantable top. Average net volume to be harvested per acre is 6.8 MBF. All trees were cruised to a merchantable top of six inches DIB, 40% of form point, or an otherwise anticipated break point. The target basal area is 140 square feet, and the target SDI is 36%.

<u>Unit 3A</u> is a partial cut with an average age of 36 years. The stand consists of Douglas-fir and western hemlock with a minor component of red alder. The average take Douglas-fir is approximately 16.1 inches DBH and 55 feet to a merchantable top. The average take western hemlock is approximately 10.1 inches DBH and 28 feet to a merchantable top. Average net volume to be harvested per acre is 6.1 MBF. All trees were cruised to a merchantable top of six inches DIB, 40% of form point, or an otherwise anticipated break point. The target basal area is 140 square feet, and the target SDI is 33%.

<u>Unit 4 (R/W)</u> is similar to the timber description above in Units 1 and 2. Average net volume to be harvested per acre is 22.7 MBF.

7. Statistical Analysis and Stand Summary:

Statistics for Stand B.F. volumes

box bortiefit Uniting	Estimated CV	Target SE%	Actual CV	Actual SE%
1, 2, 3	35%	13%	27.1	3.3
3a	35%	15%	30.4	5.5

8. Volumes by Species and Log Grade:

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Species	DBH	Net Vol. MBF	2 Saw	3Saw	4 Saw	TONS* (Net)	% D & B	% Sale (MBF)
Douglas-fir	13.2	2,084	99	1,582	403	15,630	2.3	91.9
Western Hemlock	10.1	184	1	107	76	1,472	1.3	8.1
TOTAL NET VOLUME		2,268	100	1,689	479	-	2.2	-
TONS*						17,102		

^{* 7.5} tons per MBF Douglas-fir and 8 tons per MBF hemlock conversion rate applied.

Hardwood

Species	DBH	Net Vol. MBF	Camp run	% D & B	% Sale
Red alder	10.9	1	1	5.3	<1

TOTAL VOLUME	2,269
	, , , , , , , , , , , , , , , , , , , ,

9. Approvals:

Prepared by: Prepared by: Date: 8/15/2023
Unit Forester Approval: Date: 8/24/2023

10. Attachments: Cruise Design and Maps (5 pages)

Volume Reports (4 pages) Statistics Reports (11 pages) Stand Table Summary (1 pages) Log Stock Table (5 pages)

CRUISE DESIGN ASTORIA DISTRICT

Sa	ale Name:L	arkin Thin	Units <u>U123</u>	graf Social of Casa Malyan - Singapar concentry (1814, 191
На	arvest Type: P	artial Cut		
Αp	pprox. Cruise A	Acres: <u>275</u> Estimated CV% <u>35</u> N	et BF/Acre SE% C	Objective 13 Net BF/Acre
Pla	lanned Sale Vo	lume: <u>1,925 MBF</u> Estimated Sale	Area Value/Acre:	\$2,450/Acre
Α.	(b) Sample 6	: (a) Grade minimum <u>100</u> trees 7 cruise plots (<u>27</u> grade/ <u>40</u> count X Determine log grades for sale valu	; (c) Other goals (_ e; _X Determin	Determine "automark" thinning ne snag and leave tree species and
В.	. <u>Cruise Desig</u> 1. Plot Cruis	n: ces: BAF <u>27.78</u> (Full point) Cruise Line Directions Units 1, 2, Cruise Line Spacing: 8 ch. (528 Cruise Plot Spacing: 5.5 ch. (366 Grade/Count Ratio 1:2	& 3 (South) : <u>92°/2°</u>	
	Basal Area lea leave trees.	ave target is 140 sq. ft. Cruiser needs	o select 5 leave tre	ees per plot. Cruise all take and
		marked on cruise map. Do not take pl out non-thinnable areas larger than 1 a		
	All cedar will b	pe reserved. Record all snags as SN. F	eserve all spruce la	arger than 20 inches.
	DO NOT REC	ORD 12', 22' and 32' (for Hardwoods).		
	DO NOT REC	ORD 22' LENGTHS.		
	DO NOT REC	ORD SNAGS UNDER 12" DBH; DO N	OT GRADE SNAG	S ON COUNT PLOTS.
	All hardwood	will be measured to a G, or as appropri	ate.	
C.	. Tree Measure	ements:		

1. Diameter: Minimum DBH to cruise is 8 for conifers and 8 for hardwoods. Record dbh to nearest 1 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 is <u>7"</u> for conifers and <u>7"</u> for hardwoods or <u>40</u> % of dob at 16' form point. Generally, use 7" outside bark for trees < 20" dbh and 40% of dob @ FP for conifer trees > 20" 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 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, 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's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree. Hardwoods shall be recorded in 8' and 10' multiples.
- 6. Species, Sort, and Grade Codes:
- A. <u>Species</u>: Record as D (Douglas-fir); H (western hemlock); S (Sitka Spruce); C (Western redcedar); NF (noble fir); SF (silver fir); A (red alder); M (bigleaf maple); SN (Snag). For "leave 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 Hardwoods: <u>Alder Grades</u>: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill, 0 = Cull.

Grade oversized 3-SAW (DIB ≥ 12", knots > 2½" inside scaling cylinder affecting > 50% of log)

- 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 Douglas-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 inter-visible 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.
- **9. Cruising Equipment:** Relaskop, Rangefinder, Clinometer, Logger's Tape (with dbh on back), Compass, Allegro II 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:Micl	hele Huffman	
Approved by:	1/4	Entre let	
Date:		8/15/2022	

CRUISE DESIGN ASTORIA DISTRICT

Sa	le Name: _	Larkin Thir	1	Units	U3A		
На	ırvest Type:	: Partial Cut	i tronico en la composición de la composición del composición de la composición de la composición de la composición de la composición del composición de la				
Αp	prox. Cruis	se Acres: _	92 Estimated CV	/% <u>35</u> Net BF/Acre	SE% Obj	ective 15 Net	BF/Acre
Pla	anned Sale	Volume : _	644 MBF Estim a	ited Sale Area Value	e/Acre: <u>\$2,</u>	450/Acre	
Α.	(b) Sample	e 46 cruise		trees / <u>21</u> count); (c) Othe or sale value; <u>X</u>			
B.	Cruise Des 1. Plot Cr	ruises: BAF Cr Cru Cru	20 (Full point) uise Line Direction uise Line Spacing: uise Plot Spacing: ade/Count Ratio	s Units U3M : <u>119°/2</u> <u>6 ch. (396 ft)</u> <u>4.5 ch. (297 ft)</u>	<u>199</u> °,		
	Docal Area	Leave terre	4 in 110 nm ft 0	as diam telah per	bid eterthir	Leidealigas se 1	Acuauceb

Basal Area leave target is 140 sq. ft. Cruiser needs to select 7 leave trees per plot. Cruise all take and leave trees.

Take plots as marked on cruise map. Do not take plots in stream buffers. Stream buffers are 25' non-posted. Map out non-thinnable areas larger than 1 acre, but do not drop plots.

All cedar will be reserved. Record all snags as SN. Reserve all spruce larger than 20 inches.

DO NOT RECORD 12', 22' and 32' (for Hardwoods).

DO NOT RECORD 22' LENGTHS.

DO NOT RECORD SNAGS UNDER 12" DBH; DO NOT GRADE SNAGS ON COUNT PLOTS.

All hardwood will be measured to a G, or as appropriate.

C. Tree Measurements:

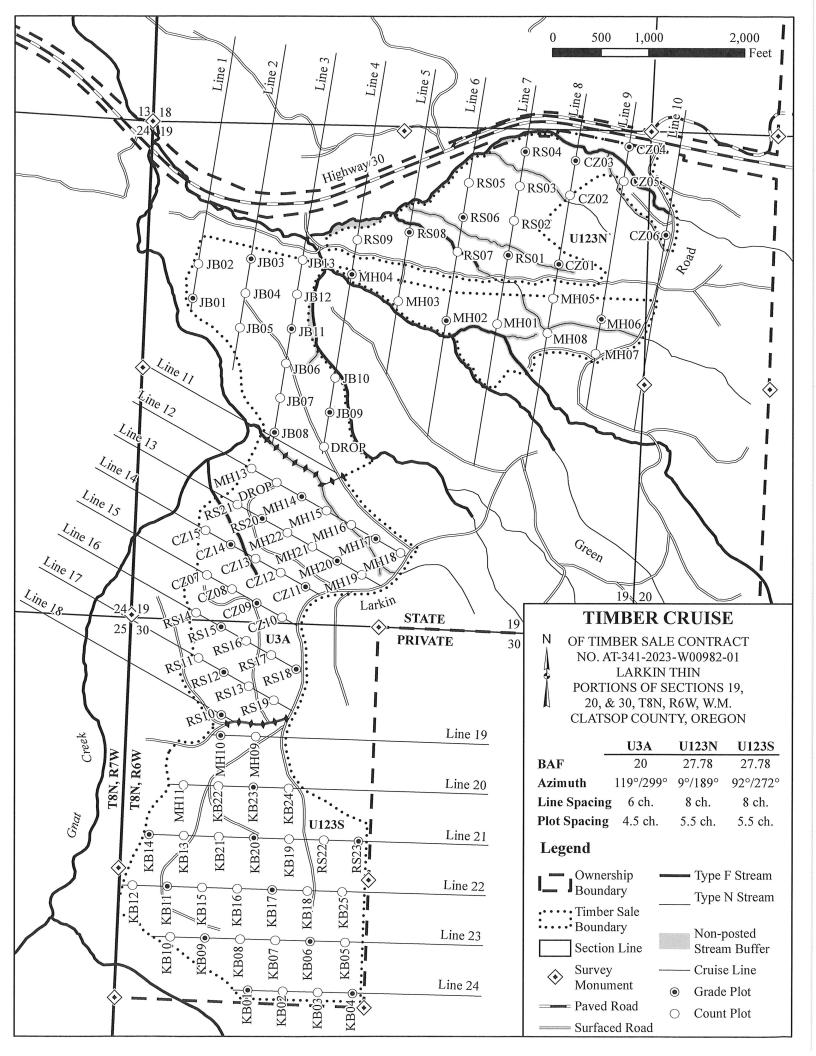
- 1. **Diameter:** Minimum DBH to cruise is <u>6"</u> for conifers and <u>6"</u> for hardwoods. Trees < 8" DBH will be treated as count trees, so do not grade them if they are on a grade plot. Trees < 8" DBH will not be recorded in the Allegro handhelds. They will instead be recorded on a piece of paper. 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 is <u>4"</u> for conifers and <u>4"</u> for hardwoods or <u>40</u> % of dob at 16' form point for trees < 8" DBH. **Do not record in Allegro handhelds.** Minimum top outside bark is <u>7"</u> for conifers and <u>7"</u> for hardwoods or <u>40</u> % of dob at 16' form point for trees > 8" DBH. Generally, use 7" outside bark for trees < 20" dbh and 40% of dob @ FP for conifer trees > 20" 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 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, 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's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree. Hardwoods shall be recorded in 8' and 10' multiples.
- 6. Species, Sort, and Grade Codes:
- A. <u>Species</u>: Record as D (Douglas-fir); H (western hemlock); S (Sitka Spruce); C (Western redcedar); NF (noble fir); SF (silver fir); A (red alder); M (bigleaf maple); SN (Snag). For "leave 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 Hardwoods: <u>Alder Grades</u>: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill, 0 = Cull.

Grade oversized 3-SAW (DIB ≥ 12", knots > 2½" inside scaling cylinder affecting > 50% of log)

- 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 Douglas-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 inter-visible 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.
- **9. Cruising Equipment:** Relaskop, Rangefinder, Clinometer, Logger's Tape (with dbh on back), Compass, Allegro II 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: Michele Huffman
Approved by:	Ala alli
Date:	8/15/7027



ТС	PSPCSTGR		Sı	pecies, S	Sort G	rade - Boar	d Fo	ot V	olumes (Projec	t)							
Т	08N R06W S19	9 Ty00F	PC 25	57.00		Project:	LA	RKI	PC PC						Page		1	
11	08N R06W S19 08N R06W S19	2		31.00 1.00		Acres		339.0	00						Date Time		19/20 :01:2)22 2AM
		%					Perc	ent of	Net Board	Foot Vol	ume				Avera	ige Lo	g	Logs
	S So Gr	Net		. per Acre		Total	L	og Sc	ale Dia.		Log L	ength		Ln	Dia	Bd	CF/	Per
Spp	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	DOCU DO2S	4	1.0	295	292	99		1	99	31	36	15	1.0	25	7	1.42	0.00	5.5
D	DO2S DO3S	76	2.4	4,783	4,667	1,582		100	0	1	30 11	32	18 55	25 35	13 8	80	1.46 0.71	2.0 58.5
D	DO3S DO4S	20	2.0	1,213	1,189	403	0	100	U	38	51	2	8	23	6	27	0.71	38.3 44.7
D	Totals	92	2.3	6,291	6,148	2,084	0	95	5	10	20	25	45	29	7	55	0.59	110.8
Н	DOCU													11	6		0.00	1.8
Н	DO2S		2.8	2	2	1		12	88			11	89	39	13	238	1.70	.0
Н	DO3S	58	1.4	321	317	107		100	0		24	32	43	34	7	61	0.57	5.2
Н	DO4S	42	1.3	228	225	76		100		48	52			20	6	24	0.41	9.2
Н	Totals	8	1.3	551	543	184		100	0	20	36	19	26	24	6	33	0.46	16.3
A	DO2S	10		0	0	0		100			100			24	8	40	0.58	.0
A	DO3S	53		1	1			100			24	29	48	35	6	57	0.54	.0
A	DO4S	37	13.1	1	1	0		100	Ť	14	53	33		28	6	33	0.42	.0
A	Totals	0	5.3	2	2	1		100		5	42	27	25	31	6	44	0.49	.0
То	tals		2.2	6,843	6,693	2,269	0	96	4	11	22	25	43	28	7	53	0.58	127.2

ТТ	TSPCSTG	R		\$	Species,	Sort G Projec	rade - Boai t: LAI	rd Foot V RKPC	olumes (Type)					Page Date Time	8	1 3/19/20 7:13:3	
T08N Twp 08N		ge	Sec	Tract J123TA	KE	Туре 00Р			-	ole Tree	es	1	CuFt	T0: Bd W		R06W	S19 T	00PC
			%		p- 1.5	in V		Percent 1	Net Board F	oot Vo	lume			A	verag	ge Log	5	Logs
Spp		Gr ad	Net BdFt	Bd. 1 Def%	Ft. per Ac Gross	re Net	Total Net MBF		ale Dia. 12-16 17+		g Ler 21-30	_	36-99	Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre
D	DO	CU						1						26	7		0.00	6.9
D	DO	2S	1	1 ,	100	100	26		100	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100			24	13	150	1.42	,
D	DO	3S	78	2.6	5,492	5,347	1,374	100			10	35	55	35	8	78	0.69	68.4
D	DO	4S	21	2.2	1,417	1,385	356	100		38	52	3	8	23	6	26	0.39	53.1
D	Totals		100	2.5	7,009	6,833	1,756	99	1	8	20	28	45	29	7	53	0.57	129.1
Туре Т	otals			2.5	7,009	6,833	1,756	99	1	8	20	28	45	29	7	53	0.57	129.1
<u>}</u>	1.0	1.0			12.		510	Arti		1 1	500	1	14.1	38		- 1	1 5 0	1

T T	TSPCSTG	R		,	Species,	Sort G Projec	rade - Boar t: LAF	d Foot V RKPC	olumes (I	Гуре)					Page Date Time	8	1 3/19/20 7:13:3	
T08N Twj 08N		ge	Sec	Tract U3ATAK	Œ	Type 00Pe			_	le Trees 52		C 1	uFt	T0: Bd W		R06W	S19 T	00PC
			%					Percent N	Vet Board Fo	oot Volu	me			A	verag	ge Log		Logs
Spp	S So T rt	Gr ad	Net BdFt	Bd. I Def%	Ft. per Ac Gross	re Net	Total Net MBF	Log Sc.	ale Dia. 12-16 17+	Log	Ler 21-30	_	36-99	Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre
D	DO	CU												14	12		0.00	1.0
D	DO	2S	22	1.3	858	847	69		100	44	14	21	21	25	13	139	1.47	6.1
D	DO	3S	63	1.0	2,438	2,413	195	100		9	23	8	60	33	9	92	0.84	26.1
D	DO	4S	15		544	544	44	100		42	46		12	24	6	31	0.50	17.5
D	Totals		63	.9	3,840	3,804	308	78	22	22	24	10	44	28	8	75	0.80	50.7
Н	DO	CU												11	6		0.00	7.7
Н	DO	3S	58	1.4	1,327	1,309	106	100			24	33	43	34	7	60	0.56	21.7
Н	DO	4S	42	1.3	950	938	76	100		47	53			20	6	24	0.41	38.6
Н	Totals		37	1.3	2,278	2,247	182	100		20	36	19	25	24	6	33	0.46	68.0
Type T	Totals			1.1	6,117	6,051	490	86	14	21	29	13	37	26	7	51	0.62	118.6

Т	TSPCSTG	R			Species,	Sort G Projec	rade - Boai t: LAI	d Fo		olumes (T	Гуре)					Page Date Time	e 8	1 3/19/20 7:13:3	
T08N Tw 08N	-	ge	Sec	Tract J4		Type RW			Plot:	_	le Trec	es	C 1	uFt	T0 Bd W		R06W	S19 T	RW
Spp	TT.	Gr ad	% Net BdFt	Bd.	Ft. per Ac	ere Net	Total Net MBF		og Sca	Vet Board Fo ale Dia. 12-16 17+	Lo	lume g Ler 21-30	_	36-99	-	Dia	ge Log Bd Ft	CF/ Lf	Logs Per /Acre
D	DO	CU									<u> </u>				19	9		0.00	9.7
D	DO	2S	22	1.7	4,624	4,547	5	,	13	87	2	9	16	73	36	12	181	1.40	25.1
D	DO	3S	63	2.3	12,711	12,412	12		99	1		9	34	57	35	8	90	0.77	138.6
D	DO	4S	15	2.3	3,024	2,954	3	2	98		35	52	4	9	23	6	27	0.43	108.1
D	Totals		88	2.2	20,359	19,913	20	0	79	21	6	15	25	54	30	8	71	0.72	281.6
Н	DO	CU													6	16		0.00	.5
Н	DO	2S	31	2.8	716	696	1		12	88			11	89	39	13	238	1.70	2.9
Н	DO	3S	59	.4	1,303	1,298	1		94	6		15	14	71	36	8	88	0.76	14.7
Н	DO	4S	10	1.5	203	200	0		100		54	46			21	6	24	0.45	8.3
Н	Totals		10	1.3	2,222	2,194	2		69	31	5	13	12	70	31	8	83	0.82	26.5
A	DO	2S	10		57	57	. 0		100			100			24	8	40	0.58	1.4
A	DO	3S	53		304	304	0		100			24	29	48	35	6	57	0.54	5.4
A	DO	4S	37	13.1	242	211	0		100		14	53	33		28	6	33	0.42	6.3
A	Totals		3	5.3	604	572	1		100		5	42	27	25	31	6	44	0.49	13.1
Туре	Fotals			2.2	23,184	22,678	23	0	79	21	6	16	24	55	30	8	71	0.72	321.2

	ATS		e i gira			ATIST				PAGE	1
 ГWР	DCE	CECT	TDACT		PROJE		LARKPC	DI OTG			3/19/2022
	RGE	SECT	TRACT		TYPE		RES	PLOTS	TREES	CuFt	BdFt
08N	06W	19	U123		00PC		257.00	66	526	1	W
					TDEEG		ESTIMATED		PERCENT		
		DI OTC	TDEE	,	TREES		TOTAL		SAMPLE		
mom		PLOTS	TREES		PER PLOT	14.	TREES	, e l	REES		
TOTA		66 28			8.0 7.5		51,340		.4		
	COUNT	20	20	,	7.3		31,340		.4		
	REST										
COUN		38	31	0	8.2						
BLAN	NKS										
100 %	ó										
				STA	ND SUM	MARY					
		SAMPLE		AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES		DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
	GLEAV	10			62	28.2	114.1	13,240	12,970	3,903	3,903
DOUG		6			47	20.8	74.5	6,999	6,823	2,133	2,133
	LEAV	2			55	5.0	19.4	2,222	2,194	678	678
	RLEAV		8 11.7		. 36	2.3	7.6	604	572	197	197
SNAC			5 10.4		60	1.8	5.9				
TOTA	AL	20:	9 199.8	3 14.3	54	58.6	221.4	23,064	22,558	6,911	6,911
	68.1	TIMES OU	OF THE SAM UT OF 100 TH		E WILL BE	WITHIN	THE SAMP	LE ERROR			
	68.1 %	COE				E TREES		#	OF TREES		INF. POP
SD:	1.0 GLEAV	VAF 42.			OW 180	AVG 188	HIGH 195		5	10	
DOUG		55.			90	96	193				
	LEAV	53.			164	185	205				
ALDR	RLEAV	23.	.9 9.	0	45	50	55				
SNAC											
TOTA	AL	59.	3 4.	!	144	150	156		140	35	1
	68.1 %	59 COE		!	144 TREES		156	#	140 OF PLOTS		
CL: SD:	68.1 % 1.0	COE VAF	EFF R.% S.E.9	% L	TREES/	ACRE AVG	HIGH	#			INF. POP
CL: SD: DOUG	68.1 % 1.0 GLEAV	COE VAF	EFF R.% S.E.9 .0 4.	% L	TREES/	ACRE AVG 79	HIGH 82	#	OF PLOTS	REQ.	INF. POP
CL: SD: DOUG	68.1 % 1.0 GLEAV G FIR	COE VAF 33. 75.	EFF R.% S.E.9 .0 46 9.	6 L 1 3	75 76	AVG 79 83	HIGH 82 91	#	OF PLOTS	REQ.	INF. POP
CL: SD: DOUG DOUG HEMI	68.1 % 1.0 GLEAV G FIR LEAV	COE VAF 33. 75.	EFF R.% S.E.9 .0 46 93 17.	6 L 1 3 7	TREES/	/ACRE AVG 79 83 16	HIGH 82 91 18	#	OF PLOTS	REQ.	INF. POP
CL: SD: DOUG DOUG HEMI	68.1 % 1.0 GLEAV G FIR LEAV RLEAV	COE VAF 33. 75.	EFF 8.% S.E.9 4. 6.6 9. 3 17. 1 36.	% L 1 3 7 8	TREES/ 20W 75 76 13	AVG 79 83	HIGH 82 91	#	OF PLOTS	REQ.	INF. POP
CL: SD: DOUG DOUG HEMI ALDR	68.1 % 1.0 GLEAV G FIR LEAV RLEAV	COE VAF 33. 75. 144. 299.	EFF 8.% S.E.9 0 4. 66 93 171 369 33.	% L 1 3 7 8 2	75 76 13	/ACRE AVG 79 83 16 12	HIGH 82 91 18 16	#	OF PLOTS	REQ.	INF. POP
CL: SD: DOUG DOUG HEMI ALDE SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV	COE VAF 33. 75. 144. 299. 269.	EFF 8.% S.E.9 .0 46 93 171 369 335 3.9	% L 1 3 7 8 2	TREES/ .OW 75 76 13 7 7 192	ACRE AVG 79 83 16 12 10 200	HIGH 82 91 18 16 14 207		OF PLOTS 5	REQ. 10	INF. POP
CL: SD: DOUG DOUG HEMI ALDE SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV G	COE VAR 33. 75. 144. 299. 269.	EFF 8.% S.E.9 .0 46 93 171 369 335 3.9	% L 1 3 7 8 8 2	TREES/ .OW 75 76 13 7 7 192	ACRE AVG 79 83 16 12 10	HIGH 82 91 18 16 14 207		OF PLOTS	REQ. 10	INF. POP
CL: SD: DOUG DOUG HEMI ALDE SNAC TOTA CL: SD:	68.1 % 1.0 GLEAV G FIR LEAV RLEAV G AL 68.1 % 1.0 GLEAV	COE VAF 2090 2690 31 COE VAF 2990 290 200 200 200 200 200 200 200 20	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 9 3.	6 L 1 3 7 8 2 2 7	75 76 13 7 7 7 192 BASAL	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114	HIGH 82 91 18 16 14 207 CRE HIGH 118		FOF PLOTS 5 40 FOF PLOTS	REQ. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG DOUG	68.1 % 1.0 GLEAV G FIR LEAV RLEAV G AL 68.1 % 1.0 GLEAV G FIR	COE VAI 33. 75. 144. 299. 269. 31. COE VAI 29. 74.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 9 9.	6 L 1 3 7 8 2 9 6 L	75 76 13 7 7 7 7 192 BASAL .OW	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75	HIGH 82 91 18 16 14 207 CRE HIGH 118 81		FOF PLOTS 5 40 FOF PLOTS	REQ. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 6 AL 68.1 % 1.0 GLEAV G FIR LEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 9 39 95 17.	6 L 1 3 7 8 2 2 7 7 2 8	75 76 13 7 7 7 192 BASAL .OW	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23		FOF PLOTS 5 40 FOF PLOTS	REQ. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 6 1.0 GSLEAV G FIR LEAV FINAL 68.1 % 1.0 GSLEAV G FIR LEAV RLEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 36.	6 L 1 3 7 8 2 2 7 7 2 8 8 7	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10		FOF PLOTS 5 40 FOF PLOTS	REQ. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 6 1.0 GLEAV G FIR LEAV CHEAV G FIR LEAV G FIR LEAV RLEAV G	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 31.	6 L 1 3 7 8 2 2 7 7 2 8 7 7	75 76 13 7 7 7 192 BASAL .OW	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23		FOF PLOTS 5 40 FOF PLOTS	REQ. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 68.1 % 1.0 GLEAV G FIR LEAV G FIR LEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 318 3.2	6 L 1 3 7 8 2 2 7 7 2 8 7 7	TREES/ .OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8	#	40 FOF PLOTS 5 40 FOF PLOTS 5	10 10 REO. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE SNAC TOTA CL: CL: CCL:	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 68.1 % 1.0 GLEAV G FIR LEAV GAL 68.1 % 68.1 %	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255. 25	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 9. 95 175 361 31. 8 3.2	6 L 1 3 7 8 8 2 9 6 L 7 2 8 8 7 4	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214 NET BE	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8 228	#	40 FOF PLOTS 5 40 FOF PLOTS 5	REQ. 10 10 REQ. 10 7 REQ.	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 68.1 % 1.0 GLEAV G FIR LEAV G FIR LEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 318 3.2	6 L 1 3 7 8 8 2 2 7 7 2 8 7 4 2 6 L	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214 NET BE	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8	#	40 FOF PLOTS 5 40 FOF PLOTS 5	10 10 REO. 10	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 68.1 % 1.0 GLEAV G FIR LEAV G AL 68.1 % 1.0 GLEAV G AL	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255. 25 COE VAF	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 31. 8 3.2 EFF R.% S.E.9 .3 4.	6 L 1 3 7 8 8 2 2 7 7 2 8 8 7 4 2 6 L 0 1	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214 NET BE	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221 E/ACRE AVG	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8 228	#	40 FOF PLOTS 5 40 FOF PLOTS 5	REQ. 10 10 REQ. 10 7 REQ.	INF. POP
CL: SD: DOUG HEMI ALDR SNAC TOTA CL: SD: DOUG HEMI ALDR SNAC TOTA CL: SD: DOUG HEMI ALDR SNAC TOTA CL: HEMI ALDR SNAC TOTA CL: HEMI ALDR SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 68.1 % 1.0 GLEAV G FIR LEAV RLEAV G AL 68.1 % 1.0 GLEAV G TIR LEAV G TIR LEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255. 25 COE VAF 32. 76. 145.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 318 3.2 EFF R.% S.E.9 .6 17.	6 L 7 7 2 8 7 4 9	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214 NET BF .OW 12,455 6,181 1,801	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221 E/ACRE AVG 12,970 6,823 2,194	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8 228 HIGH 13,485 7,465 2,586	#	40 FOF PLOTS 5 40 FOF PLOTS 5	REQ. 10 10 REQ. 10 7 REQ.	INF. POP
CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD: DOUG HEMI ALDE SNAC TOTA CL: SD:	68.1 % 1.0 GLEAV G FIR LEAV RLEAV 6. 1.0 GLEAV G FIR LEAV 68.1 % 1.0 GLEAV G FIR LEAV RLEAV G FIR LEAV G FIR LEAV RLEAV G FIR LEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255. 25 COE VAF 32. 76.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 318 3.2 EFF R.% S.E.9 .6 17.	6 L 7 7 2 8 7 4 9	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214 NET BE .OW 12,455 6,181	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221 F/ACRE AVG 12,970 6,823	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8 228 HIGH 13,485 7,465	#	40 FOF PLOTS 5 40 FOF PLOTS 5	REQ. 10 10 REQ. 10 7 REQ.	INF. POP
CL: SD: DOUG HEMI ALDR SNAC TOTA CL: SD: DOUG HEMI ALDR SNAC TOTA CL: SD: DOUG HEMI ALDR SNAC TOTA CL: HEMI ALDR SNAC TOTA CL: HEMI ALDR SNAC TOTA	68.1 % 1.0 GLEAV G FIR LEAV RLEAV G SAL 68.1 % 1.0 GLEAV G FIR LEAV RLEAV G FIR LEAV G FIR LEAV G SIEAV	COE VAF 33. 75. 144. 299. 269. 31 COE VAF 29. 74. 144. 298. 255. 25 COE VAF 32. 76. 145.	EFF R.% S.E.9 .0 46 93 171 369 335 3.9 EFF R.% S.E.9 .9 95 175 361 318 3.2 EFF R.% S.E.9 .9 95 176 37.	6 L 1 3 7 8 2 2 7 7 2 8 7 4 9 3 3	TREES/.OW 75 76 13 7 7 192 BASAL .OW 110 68 16 5 4 214 NET BF .OW 12,455 6,181 1,801 358	ACRE AVG 79 83 16 12 10 200 AREA/A AVG 114 75 19 8 6 221 E/ACRE AVG 12,970 6,823 2,194	HIGH 82 91 18 16 14 207 CRE HIGH 118 81 23 10 8 228 HIGH 13,485 7,465 2,586	#	40 FOF PLOTS 5 40 FOF PLOTS 5	REQ. 10 10 REQ. 10 7 REQ.	INF. POP.

TC TST	TATS				ST PROJE	FATIS CT	STICS LARKPC			PAGE DATE	2 8/19/2022
TWP	RGE	SECT	TRACT		TYPE	A	CRES	PLOTS	TREES	CuFt	BdFt
08N	06W	19	U123		00PC		257.00	66	526	1	W
CL: SD:	68.1 % 1.0	COE VAR		E.%	TONS/	ACRE AVG	HIGH		# OF PL 5	OTS REQ.	INF. POP.
I	68.1 %	COE			TONS/				# OF PLOT		INF. POP.
SD: DOU	1.0 GLEAV	VAR 32.		E.% 4.0	LOW 95	AVG 99	HIGH 103		5	10	15
DOU(G FIR LEAV	76. 145.		9.4 7.9	48 45	52 54	57 64				
ALDI SNAC TOTA		38.5	3 .	4.7	196	206	216		58	15	6

TC TSTATS				ST. PROJEC	ATIST	TICS LARKPC			PAGE DATE 8	1 8/19/2022
TWP RGE	SECT T	RACT	4 14	TYPE	AC	RES	PLOTS	TREES	CuFt	BdFt
08N 06W	19 U	J3A		00PC		81.00	31	327	1	W
•				The second second		EGTI (ATED	DI	ED CENTE		
				TREES		ESTIMATED TOTAL		ERCENT AMPLE		
	PLOTS	TREES		PER PLOT		TREES		REES		
TOTAL	31	327		10.5					7	7.7
CRUISE	12	132		11.0		15,585		.8		
DBH COUNT						4/(11				
REFOREST										
COUNT	19	190		10.0						
BLANKS										
100 %						01			16 Î Î	A Production
			STA	ND SUMM	IARY					v A rusiui
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
HEMLEAV	49	75.9	14.8	54	23.5	90.3	9,537	9,446	2,981	2,981
DOUG FIR	20	27.2	16.1	55	9.6	38.7	3,840	3,804	1,145	1,145
DOUGLEAV	23	15.7	20.9	65	8.2	37.4	4,044	3,978	1,204	1,204
WHEMLOCK	32	60.8	10.1	28	10.6	33.5	2,278	2,247	738	738
ALDRLEAV	7	12.3	12.4	31	2.9	10.3	896	851	249	249
SNAG TOTAL	1 132	.5 192.4	15.0	64	0.2	.6	20.504	20.226	C 210	6.210
			14.2	46	56.0	211.0	20,594	20,326	6,318	6,318
	CE LIMITS OF TIMES OUT			WILL BE	WITHIN	THE SAMPI	LE ERROR			
CL: 68.1 %	COEFF	7		~		n DE		OD WDDDO	I DEO	INIE DOD
	COLI			SAMPLE	0 TREES	5 - BF	# (OF TREES	S KEO.	INF. POP.
SD: 1.0	VAR.%		L	SAMPLI OW	E TREES AVG	HIGH	# (OF TREES 5	10	INF. POP.
SD: 1.0 HEMLEAV			L				# 9			
HEMLEAV DOUG FIR	VAR.% 37.1 32.5	S.E.% 5.3 7.4	L	OW 130 142	AVG	HIGH	# 1			
HEMLEAV DOUG FIR DOUGLEAV	VAR.% 37.1 32.5 29.9	5.3 7.4 6.4	L	OW 130 142 250	AVG 138 154 267	HIGH 145 165 284	# 1			
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK	VAR.% 37.1 32.5 29.9 71.8	5.3 7.4 6.4 12.7	L	OW 130 142 250 40	AVG 138 154 267 45	HIGH 145 165 284 51	# 1			
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV	VAR.% 37.1 32.5 29.9	5.3 7.4 6.4	L	OW 130 142 250	AVG 138 154 267	HIGH 145 165 284	# 1			
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG	VAR.% 37.1 32.5 29.9 71.8	5.3 7.4 6.4 12.7	L	OW 130 142 250 40	AVG 138 154 267 45	HIGH 145 165 284 51	# 1			15
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL	VAR.% 37.1 32.5 29.9 71.8 61.9	5.8.% 5.3 7.4 6.4 12.7 25.2 5.7	L	130 142 250 40 78	AVG 138 154 267 45 104	HIGH 145 165 284 51 131		5 171	10	15 19
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 %	VAR.% 37.1 32.5 29.9 71.8 61.9	5.8.% 5.3 7.4 6.4 12.7 25.2 5.7		130 142 250 40 78 130	138 154 267 45 104 137	HIGH 145 165 284 51 131		5 <i>171</i> OF PLOTS	10 43 5 REQ.	15 19 INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 %	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF	5.8.% 5.3 7.4 6.4 12.7 25.2 5.7		130 142 250 40 78 130	AVG 138 154 267 45 104	HIGH 145 165 284 51 131		5 171	10	15 19 INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 8.E.% 10.6 23.0		130 142 250 40 78 130 TREES/A OW 68 21	138 154 267 45 104 137 ACRE AVG 76 27	HIGH 145 165 284 51 131 145 HIGH 84 33		5 <i>171</i> OF PLOTS	10 43 5 REQ.	15 19 INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5. S.E.% 10.6 23.0 21.6		130 142 250 40 78 130 TREES/A OW 68 21 12	138 154 267 45 104 137 ACRE AVG 76 27 16	HIGH 145 165 284 51 131 145 HIGH 84 33 19		5 <i>171</i> OF PLOTS	10 43 5 REQ.	15 19 INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5. 8.E.% 10.6 23.0 21.6 22.2		130 142 250 40 78 130 TREES/A OW 68 21 12 47	138 154 267 45 104 137 ACRE AVG 76 27 16 61	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74		5 <i>171</i> OF PLOTS	10 43 5 REQ.	15 19 INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 6. S.E.% 10.6 23.0 21.6 22.2 29.0		130 142 250 40 78 130 TREES/A OW 68 21 12 47 9	138 154 267 45 104 137 ACRE AVG 76 27 16 61 12	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16		5 <i>171</i> OF PLOTS	10 43 5 REQ.	15 19 INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 S.E.% 10.6 23.0 21.6 22.2 29.0 99.9		OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0	138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1		5 171 OF PLOTS 5	10 43 S REQ. 10	15 19 INF. POP. 15
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3		OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208	# (5 171 OF PLOTS 5	10 43 3 REQ. 10	15 INF. POP. 15
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 %	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 6. S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3	L	130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AG	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208	# (5 171 OF PLOTS 5 85 OF PLOTS	10 43 5 REQ. 10 21 5 REQ.	IST. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 6. S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3	L	130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208	# (5 171 OF PLOTS 5	10 43 3 REQ. 10	IST. POP.
$\begin{tabular}{l} HEMLEAV \\ DOUGLEAV \\ WHEMLOCK \\ ALDRIEAV \\ SNAGTOTAL \\ \hline \begin{tabular}{l} CL: & 68.1 \% \\ CM: & 68.1 \% \\ \hline \begin{tabular}{l} EAV \\ DOUGLEAV \\ WHEMLOCK \\ ALDRLEAV \\ SNAGTOTAL \\ \hline \begin{tabular}{l} CC: & 68.1 \% \\ SD: & 1.0 \\ \hline \end{tabular}$	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.%	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 6. S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3	L	130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AG AVG	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH	# (5 171 OF PLOTS 5 85 OF PLOTS	10 43 5 REQ. 10 21 5 REQ.	IST. POP.
$\begin{tabular}{l} HEMLEAV \\ DOUG FIR \\ DOUGLEAV \\ WHEMLOCK \\ ALDRIEAV \\ SNAG TOTAL \\ \hline \end{tabular}$	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5.S.E.% 10.7 22.7 21.3	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AG AVG 90 39 37	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45	# (5 171 OF PLOTS 5 85 OF PLOTS	10 43 5 REQ. 10 21 5 REQ.	IST. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 8.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 6. S.E.% 10.7 22.7 21.3 21.5	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AG AVG 90 39 37 34	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41	# (5 171 OF PLOTS 5 85 OF PLOTS	10 43 5 REQ. 10 21 5 REQ.	IST. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRIEAV SNAG TO: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTLEAV WHEMLOCK ALDRIEAV AL	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 8.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 6. S.E.% 10.7 22.7 21.3 21.5 26.7	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/A AVG 90 39 37 34 10	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13	# (5 171 OF PLOTS 5 85 OF PLOTS	10 43 5 REQ. 10 21 5 REQ.	IS INF. POP.
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 %	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5. S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5. S.E.% 10.7 22.7 21.3 21.5 26.7 99.9	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/A AVG 90 39 37 34 10 1	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 8 REQ. 10 21 8 REQ. 10	19 INF. POP. 15 INF. POP. 15
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOUGLEAV WHEMLOCK ALDRLEAV SNAG SD: 1.0	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 6. S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 6. S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AC AVG 90 39 37 34 10 1 211	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10	19 INF. POP. 15 INF. POP. 15
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0 COEFF	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 8.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 6. S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199 NET BF/A	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AC AVG 90 39 37 34 10 1 211 ACRE	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1 223	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10 10 5 REQ.	INF. POP. IS INF. POP. IS
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRIEAV SNAG SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTLEAV SNAG TOTLEAV SNAG SD: 1.0	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0 COEFF VAR.%	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5.S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6 S.E.%	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199 NET BF/	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AC AVG 90 39 37 34 10 1 211 ACRE AVG	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1 223 HIGH	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10	INF. POP. IS INF. POP. IS
HEMLEAV DOUG FIR DOUGLEAV WHEMLEAV SNAGE 1.0 SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRLEAV SNAGE 1.0 CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRLEAV SNAGE 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRLEAV SNAGE 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRLEAV SNAGE 1.0 HEMLEAV SNAGE 1.0	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0 COEFF VAR.% 61.4	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5.S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6 S.E.% 11.0	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199 NET BF/ OW 8,404	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AC AVG 90 39 37 34 10 1 211 ACRE AVG 9,446	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1 223 HIGH 10,487	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10 10 5 REQ.	INF. POP. 15 INF. POP. 15 4 INF. POP.
HEMLEAV DOUGER DOUGER NESSIA SNAGER TOT CL: 68.1 % SD: 1.0 HEMLEAV DOUGER NESSIA TOT CL: 68.1 % SD: 1.0 HEMLEAV SNAGER TOT CL: 68.1 % SD: 1.0 HEMLEAV DOUGER SD: 1.0 HEMLEAV DOUGER TOT CL: 68.1 % SD: 1.0 HEMLEAV DOUGER SD: 1.0 HEMLEAV DOUGER TOT CK: 68.1 % SD: 1.0 HEMLEAV DOUGER SONAGER TOT CK: 68.1 %	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0 COEFF VAR.%	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5.S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6 S.E.%	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199 NET BF/ OW 8,404 2,933	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AC AVG 90 39 37 34 10 1 211 ACRE AVG 9,446 3,804	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1 223 HIGH 10,487 4,675	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10 10 5 REQ.	INF. POP. IS INF. POP. IS
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRICATION SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRICAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRICAV WHEMLOCK ALDRICAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0 COEFF VAR.% 61.4 127.6	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5.8 S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5.S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6 S.E.% 11.0 22.9	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199 NET BF/A OW 8,404 2,933 3,123	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AC AVG 90 39 37 34 10 1 211 ACRE AVG 9,446	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1 223 HIGH 10,487	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10 10 5 REQ.	15 19 INF. POP. 15 INF. POP. 15
HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRIEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRIEAV DOUG FIR DOUGLEAV WHEMLOCK ALDRIEAV SNAG TOTAL CL: 68.1 % SD: 1.0 HEMLEAV DOUG FIR DOUGLEAV	VAR.% 37.1 32.5 29.9 71.8 61.9 65.5 COEFF VAR.% 59.0 128.4 120.2 123.6 161.6 556.8 46.1 COEFF VAR.% 59.7 126.5 118.5 119.6 149.0 556.8 31.0 COEFF VAR.% 61.4 127.6 119.8	5.E.% 5.3 7.4 6.4 12.7 25.2 5.7 5. 5.S.E.% 10.6 23.0 21.6 22.2 29.0 99.9 8.3 5.S.E.% 10.7 22.7 21.3 21.5 26.7 99.9 5.6 5.S.E.% 11.0 22.9 21.5	L	OW 130 142 250 40 78 130 TREES/A OW 68 21 12 47 9 0 176 BASAL A OW 81 30 29 26 8 0 199 NET BF/A OW 8,404 2,933 3,123	AVG 138 154 267 45 104 137 ACRE AVG 76 27 16 61 12 1 192 AREA/AG AVG 90 39 37 34 10 1 211 ACRE AVG 9,446 3,804 3,978	HIGH 145 165 284 51 131 145 HIGH 84 33 19 74 16 1 208 CRE HIGH 100 47 45 41 13 1 223 HIGH 10,487 4,675 4,833	# (5 171 OF PLOTS 5 85 OF PLOTS 5	10 43 5 REQ. 10 21 5 REQ. 10 10 5 REQ.	15 17 18 18 19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18

TC TST	TATS			S PROJ	TATIS ECT	TICS LARKPC			PAGE DATE	2 8/19/2022
TWP	RGE	SECT TR	RACT	TYPE	A	CRES	PLOTS	TREES	CuFt	BdFt
08N	06W	19 U3	3A	00PC		81.00	31	327	1	W
CL:	68.1%	COEFF		NET I	BF/ACRE				OTS REQ.	INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
TOT	AL	30.4	5.5	19,215	20,326	21,436		37	9	4
CL:	68.1 %	COEFF		TONS	/ACRE			# OF PLOTS	S REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
HEM	LEAV	61.9	11.1	212	239	265				
DOU	G FIR	127.4	22.9	22	29	35				
DOU	GLEAV	119.7	21.5	24	30	37				
WHE	MLOCK	119.4	21.4	16	20	25				
ALDI SNAC	RLEAV G									
TOT	AL	38.2	6.9	296	318	340		58	15	6

TC PS	TATS					OJECT S ROJECT		STICS RKPC			PAGE DATE	1 8/19/2022
ΓWP	RGE	SC	TRACT		TYPE		AC	CRES	PLOTS	TREES	CuFt	BdFt
08N	06	19	U123TAKE		00PC			339.00	163	815	1	W
08N	06W	19	U3ATAKE		00PC			223.00	1100	010		
08N	06W	19	U4		RW							
								ESTIMATED		ERCENT		
						TREES		TOTAL		SAMPLE		
		P	PLOTS	TREES		PER PLOT		TREES		TREES		
TOTA			163	815		5.0						
CRUI			61	324		5.3		28,779		1.1		
	COUNT											
COU			88	484		5.5						
BLA			14	101		3.3						
100 %												
					STA	ND SUM	MARY					
		SA	MPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
				/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOU	G FIR		255	70.3	13.2	48	18.3	66.3	6,291	6,148	1,908	1,908
	MLOCK		56	14.6	10.1	28	2.5	8.1	551	543	178	178
R AL	DER		8	.0	10.9	36	0.0	.0	2	2	1	1
SNA			5	.0	10.2	60	0.0	.0				
TOT	AL		324	84.9	12.7	45	20.9	74.4	6,843	6,693	2,087	2,087
CL	68.1		COEFF			SAMPL	E TREE		#	OF TREES	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	I	LOW	AVG	HIGH	#	OF TREES 5	REQ. 10	
SD:	1.0 G FIR		VAR.% 56.3	3.5	I	135	AVG 140	HIGH 145	#			
SD: DOU	1.0 G FIR MLOCK		VAR.% 56.3 93.2	3.5 12.4	I	135 92	AVG 140 105	HIGH 145 118	#			
SD:	1.0 G FIR MLOCK DER	,	VAR.% 56.3	3.5	I	135	AVG 140	HIGH 145	#			INF. POP.
SD: DOU WHE R AL	1.0 G FIR MLOCK DER		VAR.% 56.3 93.2	3.5 12.4	I	135 92	AVG 140 105	HIGH 145 118	#			1
SD: DOU- WHE R AL SNAC TOT.	1.0 G FIR MLOCK DER G		VAR.% 56.3 93.2 23.9 65.2	3.5 12.4 9.0	I	135 92 45 125	AVG 140 105 50 130	HIGH 145 118 55		170	10	1 1
SD: DOU- WHE R AL SNAC TOT.	1.0 G FIR MLOCK DER		VAR.% 56.3 93.2 23.9	3.5 12.4 9.0 3.6		135 92 45	AVG 140 105 50 130	HIGH 145 118 55		5	10	INF. POP.
SD: DOU WHE R AL SNAC TOT: CL SD:	1.0 G FIR MLOCK DER G AL		VAR.% 56.3 93.2 23.9 65.2 COEFF	3.5 12.4 9.0		135 92 45 125 TREES/	AVG 140 105 50 130 ACRE	HIGH 145 118 55		5 170 OF PLOTS	10 42 REO.	INF. POP.
SD: DOUGUS WHE R ALL SNAG TOT: CL SD: DOUGUS WHE	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1		135 92 45 125 TREES/ COW 62 11	AVG 140 105 50 130 ACRE AVG 70 15	HIGH 145 118 55 134 HIGH 79 19		5 170 OF PLOTS	10 42 REO.	INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8		135 92 45 125 TREES/ .OW 62 11 0	AVG 140 105 50 130 ACRE AVG 70 15 0	HIGH 145 118 55 134 HIGH 79 19 0		5 170 OF PLOTS	10 42 REO.	INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG R ALL SNAG	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G FIR MLOCK DER		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4		135 92 45 125 TREES/ .OW 62 11 0	AVG 140 105 50 130 ACRE AVG 70 15 0 0	HIGH 145 118 55 134 HIGH 79 19 0 0		5 170 OF PLOTS 5	10 42 REQ. 10	1 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G GFIR MLOCK DER G AL		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8		135 92 45 125 TREES/ COW 62 11 0 0 76	AVG 140 105 50 130 ACRE AVG 70 15 0 0 85	HIGH 145 118 55 134 HIGH 79 19 0 0 94	#	5 170 OF PLOTS 5	10 42 REO. 10	1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL CL CL CL	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G FIR MLOCK DER G AL 68.1		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2	I	135 92 45 125 TREES/ OW 62 11 0 0 76 BASAL	AVG 140 105 50 130 ACRE AVG 70 15 0 0 85	HIGH 145 118 55 134 HIGH 79 19 0 0 94	#	5 170 OF PLOTS 5 682 OF PLOTS	10 42 REO. 10 171 REO.	INF. POP. 7 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SNAG TOT: CL SD:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL 68.1 1.0 68.1		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.%	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2	I	135 92 45 125 TREES/ OW 62 11 0 0 76 BASAL	AVG 140 105 50 130 ACRE AVG 70 15 0 0 85 AREA/A	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH	#	5 170 OF PLOTS 5	10 42 REO. 10	INF. POP. 7 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2	I	135 92 45 125 TREES/ .OW 62 11 0 0 76 BASAL	AVG 140 105 50 130 ACRE AVG 70 15 0 0 85 AREA/A AVG 66	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74	#	5 170 OF PLOTS 5 682 OF PLOTS	10 42 REO. 10 171 REO.	INF. POP. 7 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.%	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2	I	135 92 45 125 TREES/ OW 62 11 0 0 76 BASAL	AVG 140 105 50 130 ACRE AVG 70 15 0 0 85 AREA/A	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH	#	5 170 OF PLOTS 5 682 OF PLOTS	10 42 REO. 10 171 REO.	INF. POP. 7 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G G FIR		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5	I	135 92 45 125 TREES/ COW 62 11 0 0 76 BASAL COW 59 6	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10	#	5 170 OF PLOTS 5 682 OF PLOTS	10 42 REO. 10 171 REO.	INF. POP. 7 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G G FIR		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8	I	135 92 45 125 TREES/ COW 62 11 0 0 76 BASAL COW 59 6	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0	#	5 170 OF PLOTS 5 682 OF PLOTS	10 42 REO. 10 171 REO.	1 INF. POP. 1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G G FIR		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6	I	135 92 45 125 TREES/ .OW 62 11 0 0 76 BASAL .OW 59 6 0	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0	#	5 170 OF PLOTS 5 682 OF PLOTS 5	10 42 REO. 10 171 REO. 10	1 INF. POP. 1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: CL SD: CL SD: CL SD: CL SNAG TOT: CL SNAG TOT: CL SNAG TOT: CL SD: CL SNAG TOT: CL SD:	1.0 G FIR MLOCK DER G AL 68.1		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.%	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1	I	135 92 45 125 TREES/ .OW 62 11 0 76 BASAL .OW 59 6 0 0 67 NET BF	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH	#	5 170 OF PLOTS 5 682 OF PLOTS 5	10 42 REO. 10 171 REO. 10	1 INF. POP. 1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G G FIR		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1	I	135 92 45 125 TREES/ COW 62 11 0 0 76 BASAL COW 59 6 0 0 67 NET BF	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH 6,840	#	5 170 OF PLOTS 5 682 OF PLOTS 5	10 42 REO. 10 171 REQ. 10 167 REO.	1 INF. POP. 1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G MLOCK		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0 337.1	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1 S.E.%	I	135 92 45 125 TREES/ .OW 62 11 0 76 BASAL .OW 59 6 0 0 67 NET BF	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148 543	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH 6,840 687	#	5 170 OF PLOTS 5 682 OF PLOTS 5	10 42 REO. 10 171 REO. 10 167 REO.	1 INF. POP. 1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1	I	135 92 45 125 TREES/ COW 62 11 0 0 76 BASAL COW 59 6 0 0 67 NET BF	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH 6,840	#	5 170 OF PLOTS 5 682 OF PLOTS 5	10 42 REO. 10 171 REO. 10 167 REO.	1 INF. POP. 1 TNF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G FIR MLOCK DER G G G FIR MLOCK DER G G G G G G G G G G G G G G G G G G G		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0 337.1	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1 S.E.%	I	135 92 45 125 TREES/ .OW 62 11 0 76 BASAL .OW 59 6 0 0 67 NET BF .OW 5,455 400 1	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148 543	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH 6,840 687	#	5 170 OF PLOTS 5 682 OF PLOTS 5	10 42 REO. 10 171 REO. 10 167 REO.	1 INF. POP. 1 INF. POP. 1
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SNAG TOT:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G FIR MLOCK DER G G G FIR MLOCK DER G G G G G G G G G G G G G G G G G G G		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0 337.1 490.3	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1 S.E.% 11.3 26.4 38.4	I	135 92 45 125 TREES/ .OW 62 11 0 76 BASAL .OW 59 6 0 0 67 NET BF .OW 5,455 400 1	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148 543 2 6,693	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH 6,840 687 2	#	5 170 OF PLOTS 5 682 OF PLOTS 5 666 OF PLOTS 5	10 42 REO. 10 171 REO. 10 167 REO. 10	1 INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP. 7
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SNAG TOT: CL SNAG TOT: CL SCL CL C	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0 337.1 490.3 132.6	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1 S.E.% 11.3 26.4 38.4	I	135 92 45 125 TREES/ .OW 62 11 0 76 BASAL .OW 59 6 0 67 NET BF .OW 5,455 400 1	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148 543 2 6,693	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 0 82 HIGH 6,840 687 2	#	5 170 OF PLOTS 5 682 OF PLOTS 5 666 OF PLOTS 5	10 42 REO. 10 171 REO. 10 167 REO. 10	1 INF. POP.
SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD: DOUGHER ALL SNAG TOT: CL SD:	1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL 68.1 1.0 G FIR MLOCK DER G AL 68.1		VAR.% 56.3 93.2 23.9 65.2 COEFF VAR.% 150.4 346.7 483.5 439.4 130.7 COEFF VAR.% 143.4 338.1 482.6 417.2 129.2 COEFF VAR.% 144.0 337.1 490.3 132.6 COEFF	3.5 12.4 9.0 3.6 S.E.% 11.8 27.1 37.8 34.4 10.2 S.E.% 11.2 26.5 37.8 32.6 10.1 S.E.% 11.3 26.4 38.4	I	135 92 45 125 TREES/ .OW 62 11 0 76 BASAL .OW 59 6 0 0 67 NET BF .OW 5,455 400 1 5,998 TONS/A	AVG 140 105 50 130 ACRE AVG 70 15 0 85 AREA/A AVG 66 8 0 0 74 /ACRE AVG 6,148 543 2 6,693 CRE	HIGH 145 118 55 134 HIGH 79 19 0 0 94 CCRE HIGH 74 10 0 82 HIGH 6,840 687 2 7,387	#	5 170 OF PLOTS 5 682 OF PLOTS 5 702 OF PLOTS	10 42 REO. 10 171 REO. 10 167 REO. 10 175 REO.	1 INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP.

TC PST	TATS			P	ROJECT PROJECT		ISTICS RKPC			PAGE DATE	2 8/19/2022
TWP	RGE	SC	TRACT	TYPE		A	CRES	PLOTS	TREES	CuFt	BdFt
08N 08N	06 06W	19 19	U123TAKE U3ATAKE	00PC 00PC			339.00	163	815	1	W
08N	06W	19	U4	RW							
CL	68.1		COEFF		TONS	ACRE			# OF PLO	TS REQ.	INF. POP
SD:	00.1		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
	SNAG TOTAL 131.6		131.6	10.3	47	52	58		691	173	77

ATS											1 8/19/2022
RGE	SECT	TR	ACT		TYPE	AC	CRES	PLOTS	TREES	CuFt	BdFt
06W	19	U1	23TAKE		00PC		257.00	66	177	1	W
			2 1941	X X X X X X X X X X X X X X X X X X X	TREES				PERCENT SAMPLE		
	PLOTS	,	TREES		PER PLOT	•	TREES		TREES		
\L	66	<u></u>	177		2.7						71-9776
SE COUNT	22	2	63		2.9		21,454		.3		
TV			114		3.3						
NKS 6	,	,									
			3M	STA	AND SUMI	MARY	Season and	Takici	10.22 TV	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC			NET CF/AC
G FIR		53	83.5	12.8	47	20.8	74.5	7,00	9 6,833	3 2,133	2,133
AL	ć	53	83.5	12.8	47	20.8	74.5	7,00	9 6,833	2,133	2,133
68.1 %	CO	EFF	Č		SAMPL	E TREE	S - BF	9	# OF TREE	ES REQ.	INF. POP.
1.0			S.E.%]		AVG	HIGH		5	10	9-5-1
G FIR AL			7.0 7.0		90 90	97 97	103 103		124	31	NOO BEE
68.1 %	CO	EFF	14 11 11		TREES	ACRE	Verified III		# OF PLOT	ΓS REO.	INF. POP.
1.0	VA	R.%	S.E.%]	LOW	AVG	HIGH		5	10	1
G FIR			9.3	_	76	83	91	3	7. IL.A	1 Y 1	115, 200
AL	75	.6	9.3		76	83	91		228	57	2110 1142.
68.1 %	CO	EFF			BASAL	AREA/A	CRE		# OF PLOT	ΓS REQ.	INF. POP.
1.0			S.E.%]		AVG	HIGH		5	10	1 30 1
G FIR			9.2		68	75	81		0.1.2		0.1
4L			9.2		68	75	81		224	56	2.
68.1 %					NET BE				# OF PLOT	ΓS REQ.	INF. POP.
1.0			S.E.%			AVG	HIGH		5	10	1:
					6,189	6,833					
AL	76	.5	9.4		6,189	6,833	7,476	9	234	58	20
68.1 %	CO	EFF			TONS/A	CRE			# OF PLOT	ΓS REQ.	INF. POP.
1.0			S.E.%]		AVG	HIGH		5	10	1:
			9.4		48				22.7		
AL	76	.7	9.4		48	53	58		235	59	2
	06W L SE COUNT REST VT RKS G FIR AL 68.1 % 1.0 G FIR AL 68.1 %	RGE SECT 06W 19 PLOTS L 66 SE 22 COUNT REST NT 35 IKS 9 SAMPLE TREES G FIR 6 AL 6 68.1 TIMES O 68.1 TIMES O 68.1 TIMES O 68.1 TO VA G FIR 75 AL 75 68.1 CO 1.0 VA G FIR 75 AL 75 68.1 CO 1.0 VA G FIR 75 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA G FIR 76 AL 76 68.1 CO 1.0 VA	PLOTS L 66 SE 22 COUNT REST NT 35 IKS 9 SAMPLE TREES G FIR 63 AL 63 FIDENCE LIMITS OF 68.1 TIMES OUT C 68.1 TIMES OUT C 68.1 WAR.% G FIR 75.6 AL 75.6 AL 75.6 AL 74.9 AL 74.9 G FIR 74.9 AL 74.9 G FIR 76.5 AL 76.5 G FIR 76.7	RGE SECT TRACT 06W 19 U123TAKE L 66 177 SE 22 63 COUNT REST NT 35 114 JIKS 9 114 JIKS 9 JIKS 10 JIKS 10	PLOTS TREES L 66 177 SE 22 63 COUNT REST NT 35 114 IKS 9 STA SAMPLE TREES AVG TREES /ACRE DBH GFIR 63 83.5 12.8 AL 63 83.5 12.8 FIDENCE LIMITS OF THE SAMPLE 68.1 TIMES OUT OF 100 THE VOLUM 68.1 % COEFF 1.0 VAR.% S.E.% GFIR 55.8 7.0 AL 55.8 7.0 68.1 % COEFF 1.0 VAR.% S.E.% GFIR 75.6 9.3 AL 76.5 9.4 AL 76.7 9.4	RGE SECT TRACT TYPE 06W 19 U123TAKE 00PC TREES PLOTS TREES PER PLOT L 66 177 2.7 SE 22 63 2.9 COUNT REST NT 35 114 3.3 IKS 9 STAND SUMI SAMPLE TREES AVG BOLE TREES /ACRE DBH LEN GFIR 63 83.5 12.8 47 AL 63 83.5 12.8 47 AL 63 83.5 12.8 47 FIDENCE LIMITS OF THE SAMPLE 68.1 TIMES OUT OF 100 THE VOLUME WILL BE 68.1 TIMES OUT OF 100 THE VOLUME WILL BE 68.1 S5.8 7.0 90 AL 55.8 7.0 90 68.1 COEFF TREES 1.0 VAR.% S.E.% LOW 6 FIR 75.6 9.3 76 AL 75.6 9.3 76 AL 75.6 9.3 76 AL 74.9 9.2 68 68.1 COEFF NET BE 1.0 VAR.% S.E.% LOW 6 FIR 74.9 9.2 68 AL 74.9 9.2	RGE SECT TRACT TYPE AC 06W 19 U123TAKE 00PC TREES	RGE SECT TRACT TYPE ACRES TRACT TYPE ACRES ACRES	RGE	Ref	PROJECT LARKPC DATE RGE SECT TR-CT OOPC 257.00 G6 177 1 1 1 1 1 1 1 1

25.9 (10.00) 25.9 (10.00) 35

TC TSTAT	ΓS				ST. PROJEC	ATIST	ICS LARKPC	-		PAGE Date 8	1 /19/2022
TWP R	RGE	SECT T	RACT		TYPE	ACI		PLOTS	TREES	CuFt	BdFt
08N (06W	19 U	3ATAKE		00PC		81.00	31	112	11	W
					TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES		PER PLOT		TREES	T	REES		
TOTAL		31	112		3.6						
CRUISE	3	11	52		4.7		7,128		.7		
DBH CC											
REFORE											
COUNT		15	60		4.0						
BLANKS 100 %	.S	5									
				STA	ND SUMN	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 F	FIR	20	27.2	16.1	55	9.6	38.7	3,840	3,804	1,145	1,145
WHEML		32	60.8	10.1	28	10.6	33.5	2,278	2,247	738	738
TOTAL		52	88.0	12.3	36	20.6	72.3	6,117	6,051	1,883	1,883
CONFI			THE SAMPI OF 100 THE		WILL BE	WITHIN	THE SAMPI	LE ERROR			
CONFI	68.1		OF 100 THE			WITHIN E TREES			OF TREES	REQ.	INF. POP.
CL: 68	68.1 8.1 % 1.0	TIMES OUT COEFF VAR.%	OF 100 THE S.E.%	VOLUME	SAMPL OW	E TREES AVG	- BF HIGH		OF TREES	REQ. 10	INF. POP.
CL: 68 SD: 1	68.1 8.1 % 1.0 FIR	COEFF VAR.% 32.5	OF 100 THE S.E.% 7.4	VOLUME	SAMPLE OW 142	E TREES AVG 154	- BF HIGH 165			•	
CL: 68 SD: 1 DOUG F WHEML	68.1 8.1 % 1.0 FIR LOCK	COEFF VAR.% 32.5 71.8	OF 100 THE S.E.% 7.4 12.7	VOLUME	SAMPL OW 142 40	E TREES AVG 154 45	- BF HIGH 165 51		5	10	15
CL: 68 SD: 1 DOUG F WHEMI	68.1 8.1 % 1.0 FIR LOCK	COEFF VAR.% 32.5 71.8 76.3	OF 100 THE S.E.% 7.4 12.7 10.6	VOLUME	SAMPL OW 142 40 78	E TREES AVG 154 45 87	- BF HIGH 165	#	5 232	58	15 26
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68	68.1 8.1 % 1.0 FIR LOCK 8.1 %	COEFF VAR.% 32.5 71.8 76.3 COEFF	OF 100 THE S.E.% 7.4 12.7 10.6	VOLUME L	SAMPL OW 142 40 78 TREES/	E TREES AVG 154 45 87 ACRE	- BF HIGH 165 51 96	#	5 232 OF PLOTS	58 REQ.	26 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1	68.1 8.1 % 1.0 FIR LOCK 8.1 %	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.%	OF 100 THE S.E.% 7.4 12.7 10.6 S.E.%	VOLUME L	SAMPLI OW 142 40 78 TREES/	E TREES AVG 154 45 87 ACRE AVG	- BF HIGH 165 51 96	#	5 232	58	15 26
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F	68.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4	OF 100 THE S.E.% 7.4 12.7 10.6 S.E.% 23.0	VOLUME L	SAMPL: OW 142 40 78 TREES/: OW 21	E TREES AVG 154 45 87 ACRE AVG 27	- BF HIGH 165 51 96 HIGH 33	#	5 232 OF PLOTS	58 REQ.	26 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1	68.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK LOCK LOCK	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.%	OF 100 THE S.E.% 7.4 12.7 10.6 S.E.%	VOLUME L	SAMPLI OW 142 40 78 TREES/	E TREES AVG 154 45 87 ACRE AVG	- BF HIGH 165 51 96	#	5 232 OF PLOTS	58 REQ.	26 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4	VOLUME L	SAMPLE OW 142 40 78 TREES/ OW 21 47 74	E TREES AVG 154 45 87 ACRE AVG 27 61	- BF HIGH 165 51 96 HIGH 33 74 102	#	5 232 OF PLOTS 5	58 REQ. 10	26 INF. POP.
CL: 68 SD: 1 DOUG F WHEML TOTAL CL: 68 SD: 1 DOUG F WHEML TOTAL CL: 68 SD: 1	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1.0 8.1 % 1.0.0	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.%	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.%	VOLUME L	SAMPLIOW 142 40 78 TREES/ OW 21 47 74 BASAL OW	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AG	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH	#	5 232 OF PLOTS 5	10 58 REQ. 10 74 REQ.	26 INF. POP. 15
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1.0 FIR	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.%	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7	VOLUME L	SAMPLIOW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AG AVG 39	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47	#	5 232 OF PLOTS 5 296 OF PLOTS	10 58 REQ. 10 74 REQ.	26 INF. POP. 15 33 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI SD: 1	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 1.0 FIR	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5	VOLUME L	SAMPLIOW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AG AVG 39 34	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41	#	5 232 OF PLOTS 5 296 OF PLOTS 5	58 REQ. 10 74 REQ. 10	26 INF. POP. 15 33 INF. POP. 15
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL TOTAL	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1 % 1.0 FIR LOCK	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9	VOLUME L	SAMPLEOW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AC AVG 39 34 72	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47	#	5 232 OF PLOTS 5 296 OF PLOTS 5	10 58 REQ. 10 74 REQ. 10 60	26 INF. POP. 15 33 INF. POP. 15
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 TOTAL CL: 68	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1 0 FIR LOCK 4.1 0 FIR LOCK 5.1 % 1.0 6 8.1 % 1.0 6 1.0 6	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9	L	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AC AVG 39 34 72	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82	#	5 232 OF PLOTS 5 296 OF PLOTS 5	58 REQ. 10 74 REQ. 10 60 REQ.	15 26 INF. POP. 15 33 INF. POP. 15
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 TOTAL CL: 68 SD: 1 CL: 68 SD: 1	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1 0 FIR LOCK 4.1 0 FIR FIR LOCK 4.1 0 FIR FIR FIR FIR FIR FIR FIR FIR	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.%	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9 S.E.%	L. L.	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AG 39 34 72 /ACRE AVG	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH	#	5 232 OF PLOTS 5 296 OF PLOTS 5	10 58 REQ. 10 74 REQ. 10 60	26 INF. POP. 15 33 INF. POP. 15
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1.0 FIR LOCK 4.1.0 FIR LOCK 5.1.0 FIR LOCK 6.1.0 FIR	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.% 127.6	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9 S.E.% 22.9	L.	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF OW 2,933	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AG 39 34 72 /ACRE AVG 3,804	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH 4,675	#	5 232 OF PLOTS 5 296 OF PLOTS 5	58 REQ. 10 74 REQ. 10 60 REQ.	26 INF. POP. 15 33 INF. POP. 15 27 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 TOTAL CL: 68 SD: 1 CL: 68 SD: 1	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 1.0 FIR	COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.%	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9 S.E.%	L. L.	SAMPLIOW 142 40 78 TREES/OW 21 47 74 BASAL OW 30 26 62 NET BE OW 2,933 1,763	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AG 39 34 72 /ACRE AVG	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH	#	5 232 OF PLOTS 5 296 OF PLOTS 5	58 REQ. 10 74 REQ. 10 60 REQ.	26 INF. POP. 15 33 INF. POP. 15 27 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 TOTAL	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1.0 FIR LOCK 5.1.0 FIR LOCK 1.0 FIR LOCK	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.% 127.6 120.1 84.2	S.E.% 7.4 12.7 10.6 S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9 S.E.% 22.9 21.5 15.1	L. L.	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF OW 2,933 1,763 5,137	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AC AVG 39 34 72 /ACRE AVG 3,804 2,247 6,051	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH 4,675 2,731	#	5 232 OF PLOTS 5 296 OF PLOTS 5 240 OF PLOTS 5	10 58 REQ. 10 74 REQ. 10 60 REQ. 10	15 26 INF. POP. 15 33 INF. POP. 15 INF. POP. 15 31
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 CL:	68.1 8.1 % 1.0 FIR LOCK 1.0 FIR LOCK 1.0 FIR LOCK 1.0 FIR LOCK 1.0 8.1 % 1.0 FIR LOCK	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.% 127.6 120.1 84.2 COEFF	S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9 S.E.% 22.9 21.5 15.1	L.	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF OW 2,933 1,763 5,137 TONS/A	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AC 39 34 72 ACRE AVG 39 34 72 ACRE AVG 3,804 2,247 6,051 CRE	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH 4,675 2,731 6,965	#	5 232 OF PLOTS 5 296 OF PLOTS 5 240 OF PLOTS 5	58 REQ. 10 74 REQ. 10 60 REQ. 10	15 26 INF. POP. 15 33 INF. POP. 15 INF. POP. 15 31 INF. POP.
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1	8.1 % 1.0 FIR LOCK 1.0	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.% 127.6 120.1 84.2	S.E.% 23.0 22.2 15.4 S.E.% 22.7 21.5 13.9 S.E.% 22.9 21.5 15.1	L.	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF OW 2,933 1,763 5,137	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AC AVG 39 34 72 /ACRE AVG 3,804 2,247 6,051	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH 4,675 2,731	#	5 232 OF PLOTS 5 296 OF PLOTS 5 240 OF PLOTS 5	10 58 REQ. 10 74 REQ. 10 60 REQ. 10	15 26 INF. POP. 15 33 INF. POP. 15 INF. POP. 15 31
CL: 68 SD: 1 DOUG F WHEMI TOTAL CL: 68 SD: 1 CL:	68.1 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 8.1 % 1.0 FIR LOCK 4.1.0 FIR LOCK 5.1.0 FIR LOCK 1.0 FIR LOCK	TIMES OUT COEFF VAR.% 32.5 71.8 76.3 COEFF VAR.% 128.4 123.6 86.1 COEFF VAR.% 126.5 119.6 77.5 COEFF VAR.% 127.6 120.1 84.2 COEFF VAR.%	S.E.% S.E.%	L.	SAMPLE OW 142 40 78 TREES/ OW 21 47 74 BASAL OW 30 26 62 NET BF OW 2,933 1,763 5,137 TONS/A OW	E TREES AVG 154 45 87 ACRE AVG 27 61 88 AREA/AC 39 34 72 ACRE AVG 3,804 2,247 6,051 CRE AVG	- BF HIGH 165 51 96 HIGH 33 74 102 CRE HIGH 47 41 82 HIGH 4,675 2,731 6,965	#	5 232 OF PLOTS 5 296 OF PLOTS 5 240 OF PLOTS 5	58 REQ. 10 74 REQ. 10 60 REQ. 10	15 26 INF. POP. 15 33 INF. POP. 15 INF. POP. 15 31 INF. POP.

TC TSTATS]	ST PROJEC	ATIST	TICS LARKPC			PAGE DATE {	1 8/19/2022
TWP RGE	SECT TR	RACT	,	ГҮРЕ	AC	CRES	PLOTS	TREES	CuFt	BdFt
08N 06W	19 U4	ļ]	RW		1.00	66	526	1	W
						ESTIMATED	7	PERCENT		
			TF	REES		TOTAL		SAMPLE		
	PLOTS	TREES	PE	ER PLOT		TREES	-	ΓREES		
TOTAL	66	526		8.0						
CRUISE	28	209		7.5		197		105.9		
DBH COUNT										
REFOREST COUNT	38	310		8.2						
BLANKS	36	310		8.2						
100 %										
			STAN	D SUMN	MARY					
	SAMPLE	TREES	AVG 1	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	172	159.8	14.7	55	49.2	188.6	20,359	19,913	6,067	6,067
WHEMLOCK	24	15.5	15.1	55	5.0	19.4	2,222	2,194	678	
R ALDER	8	11.7	10.9	36	2.3	7.6	604	572	197	197
SNAG	5	10.4	10.2	60	1.8	5.9	22.107	22.670	6041	6041
TOTAL	209	197.4	14.3	54	58.5	221.4	23,184	22,678	6,941	6,941
	CE LIMITS OF TIMES OUT (/ILL BE	WITHIN	THE SAMPI	LE ERROR			
CL: 68.1 %	COEFF			SAMPL	E TREE	S - BF	#	OF TREES	REO.	INF. POP.
SD: 1.0	VAR.%	S.E.%	LOV		AVG	HIGH		5	10	15
DOUG FIR	54.1	4.1		148	154	161				
WHEMLOCK	53.9	11.2	1	164	185	205				
R ALDER SNAG	23.9	9.0		45	50	55				
TOTAL	59.3	4.1	1	44	150	156		140	35	16
CL: 68.1 %	COEFF		,	TREES/	ACDE			FOF PLOTS	PEO	INF. POP.
SD: 1.0	VAR.%	S.E.%	LOV		AVG	HIGH	T	5 5	10	15
DOUG FIR	39.6	4.9		152	160	168				
WHEMLOCK	144.3	17.7		13	16	18				
R ALDER	299.1	36.8		7	12	16				
SNAG TOTAL	269.9 29.1	33.2 3.6	ī	7 90	10 197	14 204		34	8	4
		3.0								
CL: 68.1 %	COEFF	a = a/			AREA/A		#	FOF PLOTS		INF. POP.
SD: 1.0 DOUG FIR	VAR.% 36.0	S.E.% 4.4	LOV	V 180	AVG 189	HIGH 197		5	10	15
WHEMLOCK	144.5	17.8		16	19	23				
R ALDER	298.5	36.7		5	8	10				
SNAG	255.1	31.4		4	6	8				
TOTAL	25.8	3.2	2	14	221	228		26	7	3
CL: 68.1 %	COEFF]	NET BF	/ACRE		#	FOF PLOTS	REQ.	INF. POP.
SD: 1.0	VAR.%	S.E.%	LOV		AVG	HIGH		5	10	15
DOUG FIR	37.7	4.6	18,9		19,913	20,836				
WHEMLOCK R ALDER	145.6 303.6	17.9 37.3		301 358	2,194 572	2,586 785				
	202.0	٦١.٦		,50	514	703				
	28.3	3.5	21,8	90 2	2,678	23,467		32	8	4
SNAG TOTAL			,	ΓONS/A	CRE		#	FOF PLOTS	REO.	INF. POP.
SNAG	COEFF			- VIIVIA		шон	r	5	10	15
SNAG TOTAL CL: 68.1 %	COEFF	S.E.%	LOV		AVG	HIGH		9	10	
SNAG TOTAL		S.E.% 4.6	LOV		AVG 153	HIGH 160			10	13
SNAG $TOT + L$ CL: 68.1% SD: 1.0 DOUG FIR $WHE + LOCK$	COEFF VAR.%		LOV	V		- Lawrence and Company of the Compan			10	
SNAG $TOTAL$ CL: 68.1% SD: 1.0 DOUG FIR $WHEMLOCK$ R ALDER	COEFF VAR.% 37.7	4.6	LOV	V 146	153	160			10	13
$\begin{array}{c c} SNAG \\ \hline TOT & L \\ \hline \\ CL: & 68.1 \% \\ SD: & 1.0 \\ \hline \\ DOUG & FIR \\ \hline \\ WHEMLOCK \\ \end{array}$	COEFF VAR.% 37.7	4.6	LOV	V 146	153	160		41	10	5

TC TSTATS	13.5	y (s= 7	7 I (-1		ATIST			1 1/21	PAGE	1
 ΓWP RGE	SECT	TRACT		PROJE		LARKPC	DI OTTO	TDEEC	7 77 7	8/19/2022 P-JE4
				TYPE		RES	PLOTS	TREES	CuFt	BdFt
08N 06W	19	U123LEAVE		00PC		257.00	66	352	1	W
				REES		ESTIMATED FOTAL	5	PERCENT SAMPLE		
	PLOTS	TREES	PI	ER PLOT		TREES		ΓREES	<u> </u>	
TOTAL CRUISE DBH COUNT REFOREST	66 28	352 146		5.3 5.2		30,146		.5		
COUNT BLANKS 100 %	38	201		5.3						
T_1K	750 77	1971 755	STAN	D SUM	MARY	27.1.4	777		17 222	
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC		NET CF/AC
DOUGLEAV	10		16.3	62	28.2	114.1	13,268	12,991	1	
HEMLEAV	2		15.1	55	5.3	20.6	2,377	2,347		
ALDRLEAV		8 11.7	10.9	36	2.3	7.6	604	572		
SNAG		5 10.4	10.2	60	1.8	5.9	001	372	157	177
TOTAL	14		15.2	59	38.0	148.2	16,248	15,910	4,824	4,824
68.1		OF THE SAMPLI UT OF 100 THE V	OLUME V	HOD	WITHIN E TREES	Will		OF TREE	S REQ.	INF. POP.
CL: 68.1 %	TIMES OU	JT OF 100 THE V	OLUME V	SAMPL	E TREES	S - BF				
CL: 68.1 % SD: 1.0	TIMES OU	JT OF 100 THE VEFF	OLUME V	SAMPL	124.4	Will		OF TREE	ES REQ.	
CL: 68.1 % SD: 1.0 DOUGLEAV	TIMES OU COE VAF	UT OF 100 THE VEFF 2.% S.E.% 2 4.0	OLUME V	SAMPL	E TREES	S - BF HIGH				
CL: 68.1 % SD: 1.0 DOUGLEAV	COE VAF 42.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2	OLUME V	SAMPL W	E TREES AVG 188	S - BF HIGH 196				
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG	COE VAF 42. 53. 23.	FF R.% S.E.% 2 4.0 9 11.2 9 9.0	VOLUME V	SAMPL W 181 165 45	E TREES AVG 188 185 50	S - BF HIGH 196 206 55		5	10	774.3337 774.3337 774.3337
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	COE VAF 42. 53. 23.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4	VOLUME V	SAMPL W 181 165	E TREES AVG 188 185	S - BF HIGH 196 206				VAR. 04 VARRIV Q. 1
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 %	COE VAF 42. 53. 23. 52. COE	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF	OLUME V	SAMPL W 181 165 45 766	AVG 188 185 50 174 CACRE	S - BF HIGH 196 206 55	#	5 /// // OF PLOT	28 S REO.	1 INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0	COE VAF 42. 53. 23. COE VAF	UT OF 100 THE VEFF R.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF R.% S.E.%	OLUME V	SAMPL N 181 165 45 166 TREES	E TREES AVG 188 185 50 174 ACRE AVG	S - BF HIGH 196 206 55 181	#	111	28	1 INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV	COE VAF 42. 53. 23. 52. COE VAF	UT OF 100 THE VEFF R.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF R.% S.E.% 0 4.1	OLUME V	SAMPL N 181 165 45 45 TREES/ N 75	E TREES AVG 188 185 50 174 ACRE AVG 79	S - BF HIGH 196 206 55 181 HIGH 82	#	5 /// // OF PLOT	28 S REO.	1. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV	COE VAF 42. 53. 23. COE VAF	FF S.% S.E.%	OLUME V	SAMPL N 181 165 45 166 TREES	E TREES AVG 188 185 50 174 ACRE AVG	S - BF HIGH 196 206 55 181	#	5 /// // OF PLOT	28 S REO.	1. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV SNAG	COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2	OLUME V	SAMPL N 181 165 45 766 TREES/ N 75 14	E TREES AVG 188 185 50 174 ACRE AVG 79 17	S - BF HIGH 196 206 55 181 HIGH 82 19	#	5 /// // OF PLOT	28 S REO.	1. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV	COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2	LOV	SAMPL N 181 165 45 766 TREES/N 75 14 7	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12	S - BF HIGH 196 206 55 181 HIGH 82 19	#	5 /// // OF PLOT	28 S REO.	1. INF. POP. 1
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV SNAG	COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0	LOV	SAMPL N 181 165 45 666 TREES/ N 75 14 7 7 113	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10	S - BF HIGH 196 206 55 181 HIGH 82 19 16 14 122	#	5 111 FOF PLOT 5	28 S REO. 10	INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0	COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.%	LOV	SAMPL N 181 165 45 766 TREES/N 75 14 7 7 113 BASAL	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACAVG	S - BF HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH	#	5 111 FOF PLOT 5	28 S REO. 10	INF. POP. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV	COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32. COE VAF 29.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 33.7	LOV	SAMPL N 181 165 45 666 FREES/ 7 7 7 7 7 113 BASAL N	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACACACACACACACACACACACACACACACACACACA	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118	#	5 111 FOF PLOT 5 43	28 TS REQ. 10 11	INF. POP. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF 29. 140.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3	LOV	SAMPL N 181 165 45 466 FREES/ 7 7 14 7 7 13 BASAL N 110 17	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACACACACACACACACACACACACACACACACACACA	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24	#	5 111 FOF PLOT 5 43	28 TS REQ. 10 11	INF. POP. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF 29. 140. 298.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7	LOV	SAMPL N 181 165 45 166 TREES/ 7 7 7 7 113 BASAL N 110 17 5	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACA AVG 114 21 8	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24 10	#	5 111 FOF PLOT 5 43	28 TS REQ. 10 11	INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF 29. 140.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7 1 31.4	LOV	SAMPL N 181 165 45 466 FREES/ 7 7 14 7 7 13 BASAL N 110 17	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACACACACACACACACACACACACACACACACACACA	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24	#	5 111 FOF PLOT 5 43	28 TS REQ. 10 11	INF. POP. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAR 42. 53. 23. 52. COE VAR 33. 140. 299. 269. 32 COE VAR 29. 140. 298. 255.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7 1 31.4 3 1.6	LOV	SAMPL N 181 165 45 666 FREES/ 75 14 7 7 13 BASAL N 110 17 5 4 446	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACA AVG 114 21 8 6 148	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24 10 8	# #	5 111 FOF PLOT 5 43 FOF PLOT 5	28 TS REQ. 10 11 TS REQ. 10	INF. POP. INF. POP. 1
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV ALDRLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32. COE VAF 29. 140. 298. 255. 13	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7 1 31.4 3 1.6	LOV	SAMPL N 181 165 45 166 FREES/ 7 7 7 7 113 BASAL N 110 17 5 4 146 NET BF	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACA AVG 114 21 8 6 148	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24 10 8	# #	5 111 FOF PLOT 5 43 FOF PLOT 5	28 TS REQ. 10 11 TS REQ. 10	INF. POP. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF 298. 255. 13 COE VAF 32.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7 1 31.4 3 1.6 EFF 8.% S.E.% 3 4.0	LOV	SAMPL N 181 165 45 166 TREES/ 7 7 7 7 114 7 7 113 BASAL N 110 17 5 4 446 NET BF N 176	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACA AVG 114 21 8 6 148 F/ACRE AVG 12,991	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24 10 8 151 HIGH HIGH 13,507	# #	5 111 FOF PLOT 5 43 FOF PLOT 5	28 PS REO. 10 11 PS REQ. 10 2 PS REQ.	* (42)
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF 298. 255. 13 COE VAF 32. 141.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7 1 31.4 3 1.6 EFF 8.% S.E.% 3 4.0 2 17.4	LOV	SAMPL N 181 165 45 166 TREES/ 7 7 7 114 7 7 113 BASAL NET BF N 476 039	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACA AVG 114 21 8 6 148 FACRE AVG 12,991 2,347	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24 10 8 151 HIGH 13,507 2,755	# #	5 111 FOF PLOT 5 43 FOF PLOT 5	28 PS REO. 10 11 PS REQ. 10 2 PS REQ.	INF. POP. INF. POP.
CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV ALDRLEAV SNAG TOTAL	TIMES OU COE VAF 42. 53. 23. 52. COE VAF 33. 140. 299. 269. 32 COE VAF 298. 255. 13 COE VAF 32.	UT OF 100 THE VEFF 8.% S.E.% 2 4.0 9 11.2 9 9.0 6 4.4 EFF 8.% S.E.% 0 4.1 2 17.2 1 36.8 9 33.2 9 4.0 EFF 8.% S.E.% 9 3.7 4 17.3 5 36.7 1 31.4 3 1.6 EFF 8.% S.E.% 3 4.0 2 17.4	LOV	SAMPL N 181 165 45 166 TREES/ 7 7 7 7 114 7 7 113 BASAL N 110 17 5 4 446 NET BF N 176	E TREES AVG 188 185 50 174 ACRE AVG 79 17 12 10 117 AREA/ACA AVG 114 21 8 6 148 F/ACRE AVG 12,991	HIGH 196 206 55 181 HIGH 82 19 16 14 122 CRE HIGH 118 24 10 8 151 HIGH HIGH 13,507	# #	5 111 FOF PLOT 5 43 FOF PLOT 5	28 PS REO. 10 11 PS REQ. 10 2 PS REQ.	INF. POP. INF. POP.

TC TSTA	ATS				ST PROJE	CATIST CT	TICS LARKPC			PAGE DATE 8	1 /19/2022
TWP	RGE	SECT TR	ACT		TYPE	AC	RES	PLOTS	TREES	CuFt	BdFt
08N	06W	19 U3	ALEAVE		00PC		81.00	31	215	1	W
					TREES		ESTIMATED TOTAL	SA	ERCENT AMPLE REES		
		PLOTS	TREES	J	PER PLOT		TREES		REES		
TOTA CRUIS DBH (REFO	SE COUNT	31 12	215 80		6.9 6.7		8,457		.9		
COUN BLAN 100 %	NT IKS	19	130		6.8						
				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
HEMI	LEAV	49	75.9	14.8	54	23.5	90.3	9,537	9,446	2,981	2,981
DOUG	GLEAV	23	15.7	20.9	65	8.2	37.4	4,044	3,978	1,204	1,204
ALDR	RLEAV	7	12.3	12.4	31	2.9	10.3	896	851	249	249
SNAG		1	.5	15.0	64	0.2	.6				
TOTA	AL	80	104.4	15.6	53	35.1	138.7	14,477	14,275	4,435	4,435
	68.1	E LIMITS OF T			WILL BE	E WITHIN	THE SAMP	LE ERROR			
CL:	68.1 %	COEFF				E TREES	S - BF	#	OF TREES		INF. POP.
SD:	1.0	VAR.%	S.E.%	LC	OW	AVG	HIGH		5	10	15
HEMI	LEAV GLEAV	37.1 29.9	5.3 6.4		130 250	138 267	145 284				
	RLEAV	61.9	25.2		78	104	131				
SNAG											
TOTA	A L	52.0	5.8		160	170	180		108	27	12
CL:	68.1 %	COEFF			TREES	/ACRE		#	OF PLOTS	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	L	WC	AVG	HIGH		5	10	15
HEMI		59.0	10.6		68	76	84				
	GLEAV	120.2 161.6	21.6 29.0		12 9	16 12	19 16				
SNAC	RLEAV	556.8	99.9		0	12	10				
TOTA		29.0	5.2		99	104	110		34	8	4
	68.1 %	COEFF			BASAL	AREA/A	CRE	#	OF PLOTS	REO.	INF. POP.
l	1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
HEMI	LEAV	59.7	10.7		81	90	100				
	GLEAV	118.5	21.3		29	37	45				
1	RLEAV	149.0 556.8	26.7 99.9		8	10 1	13 1				
SNAC TOTA		556.8 18.2	3.3		134	139	143		13	3	1
	68.1 %	COEFF	3.3					ш	OF PLOTS		INF. POP.
	1.0	VAR.%	S.E.%	T	OM NEL RI	F/ ACRE AVG	HIGH	#	5 5	10	1NF. POP.
	LEAV	61.4	3.E.7 ₀		8,404	9,446	10,487		J	10	13
1	GLEAV	119.8	21.5		3,123	3,978	4,833				
ALDR	RLEAV	152.9	27.4		618	851	1,085				
SNAC											

Project Log Stock Table - TONS TC PLOGSTVT Page 257.00 T08N R06W S19 Ty00PC Project: LARKPC Date 8/23/2022 T08N R06W S19 Ty00PC 81.00 Acres 339.00 Time 4:25:38PM T08N R06W S19 TyRW 1.00 So Gr Log % Tons by Scaling Diameter in Inches rt de Len **TONS** 2-3 4-5 6-7 10-11 Spp Spc 8-9 12-13 | 14-15 16-19 20-23 24-29 30-39 40+ DO CU D D DO CU 6 D DO CU D 10 DO CU D DO CU 14 D DO CU 20 DO CU 39 D 40 D DO CU D DO CU 55 D DO 2S 14 60 .4 60 D DO 2S 18 .0 1 D DO 2S 20 1.0 167 97 70 D DO 2S 24 274 1.7 274 D DO 2S 30 2 .0 2 D DO 2S 32 112 .7 110 D DO 2S 40 133 .8 2 127 4 D DO 3S 20 139 .9 139 D DO 3S 24 527 3.3 56 387 85 D DO 3S 26 .5 86 0 86 28 D DO 3S 1 .0 1 1 DO 3S D 30 4.9 124 776 552 100 32 D DO 3S 3,803 23.8 1106 2293 404 DO 3S D 34 147 .9 147 D DO 3S 36 516 3.2 316 199 1 D DO 3S 38 705 4.4 705 40 D DO 3S 5,461 34.1 1045 1562 2854 1 D DO 4S 12 58 .4 58 DO 4S 14 96 96 D .6 D DO 4S 16 359 2.2 359 18 207 1.3 D DO 4S 207 0 2.8 D DO 4S 20 450 450 DO 4S 24 307 1.9 D 306 0 D DO 4S 26 45 .3 45 3.9 28 621 D DO 4S 621 30 D DO 4S 603 3.8 602 0 D DO 4S 32 88 .6 0 88 38 D DO 4S 0 .0 0

T08N I	R06W S19 Ty00F R06W S19 Ty00F R06W S19 TyRW	PC 81.			Proje Acres		LARKP 33	C 9.00					Page Date Time	2 8/23/20 4:25:3	
S	So Gr Log		%				Tons	by Scalin	g Diam	eter in]	nches				
Spp T		TONS	Spc	2-3	4-5	6-7	8-9	10-11		14-15	16-19	20-23	24-29	30-39) 4
D	DO 4S 40	249	1.6			249									
D	Totals	15,995	91.5		0	6580	4995	3673	584	162					
Н	DO CU 6														
Н	DO CU 8														
Н	DO CU 12														
H H	DO 2S 32 DO 2S 40		.0 .3					1	1 1	3					
Н	DO 3S 24	53	3.6					53							
Н	DO 3S 26		3.5				52								
Н	DO 3S 28	0	.0			0									
Н	DO 3S 30	116	7.8			0	44	71							
Н	DO 3S 32	161	10.8			161									
Н	DO 3S 34	117	7.9			117									
Н	DO 3S 36	158	10.6			93	64	1							
Н	DO 3S 38	1	.0				1								
Н	DO 3S 40	213	14.2			209	1	2	1						
H H	DO 4S 10 DO 4S 12		1.3 2.3			19 34									
Н	DO 4S 16		4.5			68									
Н	DO 4S 18		1.5			23									
Н	DO 4S 20		9.7			145						×			
Н	DO 4S 24		8.8			86	45								
Н	DO 4S 26	88	5.9			88									
Н	DO 4S 28	31	2.1			31									
Н	DO 4S 30	77	5.2			77									
Н	Totals	1,494	8.5			1153	208	128	3	3					
A	DO 2S 24														
A	DO 3S 30														
A	DO 3S 32											6			
A	DO 3S 40		-												
A	DO 4S 20					,									
A	DO 4S 30														
A	DO 4S 32	,										-			
A	Totals														

TC PLO																	
T08N I T08N I T08N I	R06W \$	319	Ty00P	PC 81.			Proj Acres		LARKP 33	C 9.00]	Page Date Time	3 8/23/202 4:25:38	
S	So C	Fr	Log		%				Tons	by Scalin	g Diam	eter in Inc	hes			1	
Spp T	rt d	e	Len	TONS	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15 16	5-19	20-23	24-29	30-39	40+
Total	All S	peci	es	17,488	100.0		0	7733	5203	3800	587	165					

TC PSTNDSUM	Stand Ta	ble Summary	Page Date:	1 8/23/2022
T08N R06W S19 Ty00PC T08N R06W S19 Ty00PC	257.00 Project 81.00	LARKPC	Time:	4:25:37PM
T08N R06W S19 TyRW	1.00 Acres	339.00	Grown Year:	

H 9 11 81 36 5.950 2.51 4.11 8.1 26.9 .89 33 111 300 113 38 H 10 5 79 61 1.990 1.00 1.99 12.7 39.8 .63 25 79 215 86 27 H 11 4 83 62 1.592 1.00 2.01 12.7 35.9 .58 26 72 195 87 24 H 12 9 80 69 2.296 1.76 2.62 19.0 53.6 1.12 50 140 381 168 48 H 13 3 81 67 .590 .50 .89 15.7 43.4 .33 14 38 112 47 13 H 14 3 84 73 .471 .50 .94 17.5 57.5 .43 16 54 147 </th <th>T08N</th> <th>R06W S</th> <th>S19 TyRW</th> <th><i>I</i></th> <th>1.</th> <th>00</th> <th></th> <th>Acres</th> <th></th> <th>339.0</th> <th>0</th> <th></th> <th></th> <th>Grown Yea</th> <th>ır:</th> <th></th>	T08N	R06W S	S19 TyRW	<i>I</i>	1.	00		Acres		339.0	0			Grown Yea	ır:	
Decomposition Decompositio		DBH			Av				Net	Net		Cu.Ft.	Bd.Ft.	Tons		MBF
Decomposition Decompositio	D		4	85	45	4.073	1.80	4.07	8.0	35.0	1.07	33	143	362	110	48
D	D	10	8	83	63	6.777	3.60	6.78	11.5	37.8	1.92	78	256	652	264	87
DN	D	11	16	83	70	10.515	6.76	12.02	13.7	43.2	3.89	164	519		556	176
D	D					11.871	9.00	14.07	15.8	53.4	5.63	223			756	255
D	D					ı			15.3	47.4	8.20	337	1,044			354
DD 16	D					l			ı		1					
D	D											298				
D	D					l										
D	D								I		l					
D	D					l			1			155				
D	D					l					10000					
D	D					l					ı	29				
D																
Totals 255	D					1			l .		1					
H	D		3	84	89	.003			49.6	154.9	.01	0	1	3	1	0
H	D	Totals	255	84	76	70.260	66.29	105.29	18.1	58.4	47.18	1,908	6,148	15,995	6,470	2,084
H	Н	8	2	86	19	1.435	.50	1.44	4.0	15.0	.17	6	22	58	19	7
H	Н	9	11	81	36	5.950	2.51	4.11	8.1	26.9	.89	33	111	300	113	38
H	Н	10	5	79	61	1.990	1.00	1.99	12.7	39.8	.63	25	79	215	86	27
H	Н			83		l	1.00	2.01	1	35.9	.58	26	72		87	
H	Н									53.6	l	50				48
H											1					
H	Н					l			l		1					18
H						l			ı		1					
H											1				0	
H						l			1		1				1	
H 20 1 86 720010000 37.0 110.000 0 0 0 1 0 0 0 0 0 0 0 0 0	Н															
H 21 1 85 89 .001 .00 .00 43.0 140.0 .00 0 0 0 1 0 0 0 H 22 3 85 87 .003 .01 .01 .01 50.5 163.4 .01 0 1 3 1 0 H 23 1 85 93 .001 .00 .00 .00 57.5 210.0 .00 0 0 1 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 1 0									1		ı			1		
H 22 3 85 87 .003 .01 .01 50.5 163.4 .01 0 1 3 1 0 0 0 H 23 1 85 93 .001 .00 .00 57.5 210.0 .00 0 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0						l			1		1			1		
H																
H Totals 56 81 49 14.568 8.07 14.48 12.3 37.5 4.41 178 543 1,494 605 184 A 10 3 86 63 .015 .01 .02 13.7 43.3 0 1 1 1 0 A 11 2 86 64 .008 .01 .01 11.3 30.0 0 0 0 A 12 3 87 62 .011 .01 .01 21.3 60.0 0 1 1 1 0 A Totals 8 86 63 .035 .02 .04 15.0 43.6 1 2 2 1 SN 8 1 89 58 .010 .00 SN 10 3 87 59 .019 .01 SN 20 1 85 90 .002 .00 SN Totals 5 88 60 .031 .02																
A 10 3 86 63 .015 .01 .02 13.7 43.3 0 1 1 1 0 A 11 2 86 64 .008 .01 .01 .01 .11.3 30.0 0 0 1 1 0 1 0 0 0 A 12 3 87 62 .011 .01 .01 .01 .21.3 60.0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Н	23	1	85	93	.001	.00	.00	57.5	210.0	.00	0	0	1	0	0
A 11 2 86 64 .008 .01 .01 11.3 30.0 0 0 0 0 0 0 A 12 3 87 62 .011 .01 .01 .01 21.3 60.0 0 1 1 0 1 0 1 0 1 0 1 0 1 1 0 1 0 1	Н	Totals	56	81	49	14.568	8.07	14.48	12.3	37.5	4.41	178	543	1,494	605	184
A 12 3 87 62 .011 .01 .01 21.3 60.0 0 1 1 0 1 0 1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1	Α	10	3		63		.01	.02	13.7	43.3		0	1		1	0
A Totals 8 86 63 .035 .02 .04 15.0 43.6 1 2 2 1 SN 8 1 89 58 .010 .00 SN 10 3 87 59 .019 .01 SN 20 1 85 90 .002 .00 SN Totals 5 88 60 .031 .02	A	11		86		.008	.01		11.3	30.0		0	0		0	0
SN 8 1 89 58 .010 .00 SN 10 3 87 59 .019 .01 SN 20 1 85 90 .002 .00 SN Totals 5 88 60 .031 .02	A	12	3	87	62	.011	.01	.01	21.3	60.0		0	1		1	0
SN 10 3 87 59 .019 .01 SN 20 1 85 90 .002 .00 SN Totals 5 88 60 .031 .02	A	Totals	8	86	63	.035	.02	.04	15.0	43.6		1	2		2	1
SN 20 1 85 90 .002 .00 SN Totals 5 88 60 .031 .02	SN	8	1	89	58	.010	.00						Y			
SN Totals 5 88 60 .031 .02	SN		3	87	59	1										
	SN	20	1	85	90	.002	.00									
Totals 324 83 72 84.894 74.40 119.81 17.4 55.9 51.59 2,087 6,693 17,488 7,076 2,269	SN	Totals	5	88	60	.031	.02									`
	Totals		324	83	72	84.894	74.40	119.81	17.4	55.9	51.59	2,087	6,693	17,488	7,076	2,269

