

## Timber Sale Appraisal Long John

## Sale WO-341-2022-W00902-01

District: West Oregon Date: July 25, 2022

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,310,049.50	\$32,035.12	\$2,342,084.62
		Project Work:	(\$83,442.00)
		Advertised Value:	\$2,258,642.62



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District: West Oregon Date: July 25, 2022

#### **Timber Description**

Location: Portions of Sections 3 & 4, T12S, R8W, and portions of Section 34, T11S, R8W, W.M., Lincoln County, Oregon

**Stand Stocking:** 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	97
Alder (Red)	13	0	95
Maple	12	0	95

Volume by Grade	2\$	3S & 4S 6"- 11"	Camprun	Total	
Douglas - Fir	1,425	2,240	0	3,665	
Alder (Red)	0	0	97	97	
Maple	0	0	48	48	
Total	1,425	2,240	145	3,810	

**Comments:** Pond Values Used: Local Pond Values, May, 2022

Other Conifers Stumpage Price = Pond Value minus Logging Cost:

\$215.30/MBF = \$535.00/MBF - \$319.70/ MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:

660.30/MBF = 1,130/MBF - (319.70/MBF + 150/MBF(Extra Haul Cost))

PULP (Conifer and Hardwood Price) = \$2.5/TON

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

Intermediate Support/Tail Trees: 12 supports @ \$100/support = \$1,200 Additional Ground Yarding for Unit 3: 13.2 MBF (2 acres @ 6.6 MBF/acre)

 $50/MBF \times 13.2 MBF = 660$ 

TOTAL Other Costs (with Profit & Risk to be added) = \$1,860

Other Costs (No Profit & Risk added):

Equipment Cleaning (Invasive Species): \$2,000

Landing Slash piling: 9 Landings @ \$100/Landing = \$900

Landing Slash Piling and sorting out firewood: 10 Landings @ \$180/Landing = \$1800

Water Bar and Block Dirt Roads: 72 stations @ \$15.96/station = \$1,149

TOTAL Other Costs (No Profit & Risk added) = \$5,849

**ROAD MAINTENANCE** 

Move-in: (Grader) \$875

Final Road Maintenance: \$15,160.31

TOTAL Road Maintenance: \$16,035.31/3,810 MBF = \$4.21/MBF

SLASH DISPOSAL

Project Work: 58 hrs @ \$170/hr = \$9,860

Weed Wash: \$300 Move-in: \$1,325

TOTAL Slash Disposal = \$11,485



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District: West Oregon Date: July 25, 2022

**Logging Conditions** 

Combination#: 1 Douglas - Fir 20.40%

Alder (Red) 6.60% Maple 10.67%

yarding distance: Long (1,500 ft) downhill yarding: No

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

loads / day: 7 bd. ft / load: 4200

cost / mbf: \$271.44

machines: Log Loader (A)

Forwarder Harvester

Tower Yarder (Large)

Combination#: 2 Douglas - Fir 38.15%

Alder (Red) 32.09% Maple 34.00%

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

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

loads / day: 9 bd. ft / load: 4200

cost / mbf: \$213.29

machines: Log Loader (A)

Forwarder Harvester

Tower Yarder (Large)

Combination#: 3 Douglas - Fir 40.00%

Alder (Red) 61.31% Maple 55.33%

Logging System: Track Skidder Process: Feller Buncher

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

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

loads / day: 11 bd. ft / load: 4200

cost / mbf: \$88.51

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Track Skidder

Combination#: 4 Douglas - Fir 1.45%

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

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

loads / day: 5 bd. ft / load: 3800

cost / mbf: \$424.33

machines: Log Loader (A)

Forwarder Harvester

Tower Yarder (Large)



## Timber Sale Appraisal Long John

## Sale WO-341-2022-W00902-01

District: West Oregon Date: July 25, 2022

## **Logging Costs**

**Operating Seasons:** 3.00

Profit Risk: 10%

**Project Costs:** \$83,442.00

Other Costs (P/R): \$1,860.00

**Slash Disposal:** \$11,485.00 **Other Costs:** \$5,849.00

#### Miles of Road

Road Maintenance:

6

\$4.21

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	4.2	
Alder (Red)	\$0.00	2.0	3.8	
Maple	\$0.00	2.0	3.8	

7/25/22



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District: West Oregon Date: July 25, 2022

## **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$178.29	\$4.34	\$3.46	\$98.10	\$0.49	\$28.47	\$3.01	\$2.00	\$1.54	\$319.70
Alder (Red	)								
\$140.62	\$4.42	\$3.46	\$165.78	\$0.49	\$31.48	\$3.01	\$2.00	\$1.54	\$352.80
Maple									
\$150.45	\$4.42	\$3.46	\$165.78	\$0.49	\$32.46	\$3.01	\$2.00	\$1.54	\$363.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$950.00	\$630.30	\$0.00
Alder (Red)	\$0.00	\$670.00	\$317.20	\$0.00
Maple	\$0.00	\$390.00	\$26.39	\$0.00



## Timber Sale Appraisal Long John

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District: West Oregon Date: July 25, 2022

### **Summary**

#### Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00
Maple	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,665	\$630.30	\$2,310,049.50
Alder (Red)	97	\$317.20	\$30,768.40
Maple	48	\$26.39	\$1,266.72

#### **Gross Timber Sale Value**

**Recovery:** \$2,342,084.62

Prepared By: Zane Sandborg Phone: 541-929-3266

#### **SUMMARY OF ALL PROJECT COSTS**

Sale Name:	Long John		Date: Time:	March 2022 9:33
Project #1 - New C	Construction			
Road Segment	<u> </u>	Longth	Cost	
A to B		<u>Length</u> 1.4 sta	<u>Cost</u> \$883	
C to D		2.6 sta		
Fuel Cost Increase		2.0 Sta	\$1,214 \$210	
ruei Cost increase	TOTALS	4.0 sta	\$210 \$2.207	_
	TOTALS	4.0 Sta	\$2,307	
Project #2 - Impro	vomonte			
Road Segment	vements	Length	Cost	
1 to 2		56.6 sta	\$8,839	
3 to 4		5.1 sta	\$218	
5 to 6		167.9 sta	\$10,165	
7 to 8		9.1 sta	\$1,296	
9 to 10		4.9 sta	\$1,954	
11 to 12		173.3 sta	\$21,654	
Fuel Cost Increase		173.3 Sta	\$4,413	
i dei Cost iliciease	TOTALS	416.9 sta	\$48,539	_
	TOTALS	410.9 Sta	ψ40,339	
Drainat #2 Drugh	:	Langth	Coot	
Project #3 - Brush	<u>ing</u>	<u>Length</u>	Cost	
Brushing	may al	4.0 mi	\$3,602	
Sod and Brush Ren	novai	7.9 mi	\$6,415	
Fuel Cost Increase	TOTAL		\$1,002	_
	TOTAL		\$11,019	
Project #4 - Gate I	nstallation	Quantity	Cost	
Gate Install		1	\$856	
Fuel Cost Increase			\$86	
	TOTAL		\$942	_
Project #5 - Stock	Pile Restocking	<u>Quantity</u>	<u>Cost</u>	
Stockpile Rock		500 CY	\$11,833	
Fuel Cost Increase			\$1,183	_
	TOTAL		\$13,016	
Project #6 - Move	in		Cost	
Excavator, C325 or			\$1,450	
(extra move-in c			\$500	
Backhoe, C580 or e			\$375	
Grader, Cat 14-G o			\$875	
(extra move-in c	•		\$73	
Dozer, D6 or equiv.	,		\$875	
(extra move-in c			\$250	
Vibratory roller	,		\$875	
Front end loader			\$875	
Road brusher			\$778	
Fuel Cost Increase			\$693	
	TOTAL		\$7,619	_
	-		Ŧ·,-·•	

GRAND TOTAL \$83,442

Compiled by: Zane Sandborg Date 03/29/2022

SALE ROAD	Long John A to B	(Unsurfaced)	Project #	1		LENGTH	const		1.4 sta	
CLEARI	NG AND GRUBE	_	5 ac		@	<u>Rate</u> \$1,337.00	/ac	=	\$201	
					T	OTAL CLEA	RING A	AND GRU	IBBING COST =	\$201
CONSTI	RUCTION					<u>Rate</u>				
Construc	ct road (w/ D6)	1.4	4 sta		@	\$138.00	/sta	=	\$193	
Construction (Pt. B)	ct Landing (w/ D6	· ·	1 Ldg		@	\$438.00	/Ldg	=	\$438	
Shape s (w/ road	•	1.4	4 sta		@	\$20.63	/sta	=	\$29	
Compac	t subgrade itory roller)	1.4	4 sta		@	\$16.00	/sta	=	\$22	
(W/ VIDIC	nory roller)					TO	OTAL C	ONSTRU	ICTION COST =	\$682
Commil-	d b	7	Candhara							
Compile Date:	u by:		Sandborg 29, 2022					CDAND	TOTAL ====>	\$883
Date.		IVIAI A	29, 2022					GRAND	101AL ====>	4002

SALE ROAD	Long John Fuel Cost Increa (Unsu	Project # rfaced)	1		LENGTH	const		2.6 sta	
CLEARING AND GRUBBING  Rate									
		0.24 ac	(	@	\$1,337.00	/ac	=	\$321	
				TO	TAL CLEA	RING A	ND GR	UBBING COST =	\$321
CONSTI	RUCTION				Rate				
Construc	ct road (w/ D6)	2.6 sta	(	@	\$138.00	/sta	=	\$359	
Construction (Pt. D)	ct Landing (w/ D6)	1 Ldg	(	@	\$438.00	/Ldg	=	\$438	
Shape s (w/ road	•	2.6 sta	(	@	\$20.63	/sta	=	\$54	
Compac	t subgrade	2.6 sta	(	@	\$16.00	/sta	=	\$42	
(w/ vibra	tory roller)				TC	OTAL C	ONSTR	UCTION COST =	\$893
Compile	d by:	Zane Sandborg							
Date:		Mar 29, 2022					GRANE	) TOTAL ====>	\$1,214

SALE ROAD	Long John 1 to 2	(Unsurfaced)	Project #	2		LENGTH	impro	ve	56.6 sta	
	<b>NG AND GRUB</b> 00 and 51+80)	BING	0.05 ac		@	Rate \$1,337.00	/20	=	\$67	
(Sia. 7+i	00 and 31+00)		0.03 ac		_				·	
					T	OTAL CLEA	ARING	AND G	RUBBING COST =	\$67
Sidecast	ISTRUCTION t removal (w/ C3: +25 to Sta. 25+1	•	3 hrs		@	<u>Rate</u> \$145.00	/hr	=	\$435	
Sidecast	t endhaul (expan	ded 20%)	100 CY		@	\$2.50	/CY	=	\$250	
Cutbank	+25 to Sta. 25+1 excavation (w/ 0	C325)	2 hrs		@	\$145.00	/hr	=	\$290	
Road rea	+70 to Sta. 22+6 alignment endha +70 to Sta. 22+6	ul (expanded 20%)	220 CY		@	\$2.50	/CY	=	\$550	
Construc	ct Landing (w/ C	325)	2 Ldg		@	\$438.00	/Ldg	=	\$876	
	00 & Sta. 48+70) ct waste area (w/		0.5 hrs		@	\$145.00	/hr	=	\$73	
-	ubgrade (Sta. 21	+70 to Sta. 22+60)	2.0 sta		@	\$20.63	/sta	=	\$41	
(w/ road Compac		21+70 to Sta. 22+60)	2.0 sta		@	\$16.00	/sta	=	\$32	
	atory roller)	,	450 CY		@	\$0.45	/CY	=	\$203	
Оотграс	it wasto		400 01		•				·	<b>A</b> 0.750
						10	STALC	ONST	RUCTION COST =	\$2,750
Re-open	<b>/EMENT</b> n road (w/ grader	)	54 sta		@	<u>Rate</u> \$15.40	/sta	=	\$832	
	60 to Pt. 2) I landings (w/ C3	25)	1 hr		@	\$145.00	/hr	=	\$145	
Re-open	+90 & Sta. 20+60 n landings (w/ gra	•	0.5 hrs		@	\$114.00	/hr	=	\$57	
(Pt. 2) Compac	t subgrade		54 sta		@	\$16.00	/sta	=	\$864	
(Sta. 2+6	60 to Pt. 2)						TOTA	IMRC	OVEMENT COST =	\$1,898
011054				0.		5.4	1017	Liviico	VENIENT GGGT =	ψ1,000
SURFAC Spot roc	cing k (Pt. 1 to Sta. 2	+60)	20 CY	<u>Size</u> 1½" - 0"	@	<u>Rate</u> \$26.02	/CY	=	\$520	
Turnout	Rock (Sta. 2+60		20 CY	3"-0"	@	\$24.67	/CY	=	\$493	
Transitio			20 CY	Jaw-Run	@	\$23.66	/CY	=	\$473	
Base roo	60 to Sta. 3+10) ck		40 CY	Jaw-Run	@	\$23.66	/CY	=	\$946	
	00 to Sta. 7+90)								•	
	surfacing (w/ roa	ad grader)	2.5 sta		@	\$20.63	/sta	=	\$52	
Spread	surfacing (w/ doz 60 to Sta. 3+10 &	,	1.5 sta		@	\$20.63	/sta	=	\$31	
	00 to 7+90) et surface		4.0 sta		@	\$16.00	/sta	=	\$64	
	atory roller)		1.0 0.0		0	Ψ10.00				00.570
							101	AL SU	RFACING COST =	\$2,579
SPECIA	L PROJECTS			<u>Size</u>		Rate				
	removal (Sta. 21-	+95)	0.5 hrs		@	\$145.00	/hr	=	\$73	
Install cu		=\	3 hrs		@	\$145.00	/hr	=	\$435	
	+95 & Sta. 21+95 18"x30' (Sta. 12+	•	30 ft		@	\$13.75	/ft	=	\$413	
	atering (Sta. 12-		2.5 hrs		@	\$12.00	/hr	=	\$30	
Bedding	compaction		2 hrs		@	\$57.00	/hr	=	\$114	
	ndheld tamper)		40.07	41/11 01	6	<b>#</b> 00.00	/C) /		<b>#</b> 000	
Bedding (Sta. 12-	& backfill rock		10 CY	1½" - 0"	@	\$26.02	/CY	=	\$260	
	+95) er rock (Sta. 21+	95)	10 CY	Pit-Run	@	\$21.97	/CY	=	\$220	
						ТОТА	L SPE	CIAL PI	ROJECTS COST =	\$1,545
Compile Date:	d by:		Zane Sandborg Mar 29, 2022					GRAN	ID TOTAL ====>	\$8,839

Mar 29, 2022

Date:

GRAND TOTAL ====>

\$8,839

SALE Long John Project # 2 LENGTH improve 5.1 sta ROAD 3 to 4 (Unsurfaced) **IMPROVEMENT** Rate Re-open road (w/ grader) 5.1 sta @ \$15.40 /sta \$79 Re-open Landing (w/ grader) 0.5 hrs @ \$114.00 /hr \$57 Compact subgrade 5.1 sta @ \$16.00 /sta \$82

TOTAL IMPROVEMENT COST = \$218

Compiled by: Zane Sandborg

(w/ vibratory roller)

Date: Mar 29, 2022 **GRAND TOTAL =====> \$218** 

SALE ROAD	Long John 5 to 6	(Johnson C	Project # Creek Road) (Sui	faced)	2		LENGTH	improv	/e	167.9 sta	l
IMPROV	'EMENT						Rate				
	olish ditch (w/ gra +70 to Sta. 112+6		56 sta			@	\$44.00	/sta	=	\$2,464	
Daylight	road cutting	,	4 hrs			@	\$45.00	/hr	=	\$180	
Daylight	2+45 to Sta. 154+ road cleaning (w.	/ C325)	3 hrs			@	\$145.00	/hr	=	\$435	
Round c	2+45 to Sta. 154+ utslope (w/ C325	)	6.2 sta			@	\$49.00	/sta	=	\$304	
Slough e	3+00 to Sta. 149+ endhaul (w/C325)	•	10 CY			@	\$2.00	/CY	=	\$20	
•	3+00 to Sta. 149+ Landings (w/ gra	,	0.5 hrs			@	\$114.00	/hr	=	\$57	
(Sta. 152	2+85, Sta. 154+10	0 & Pt. 6)					Т	OTAL	IMPRO	OVEMENT COST =	\$3,460
											. ,
SURFAC				Size	_	_	Rate				
•	k (Pt. 5 to Pt. 6)		160 CY	1½"-(		@	\$26.02	/CY	=	\$4,163	
Landing		>	60 CY	Jaw-R	un	@	\$23.66	/CY	=	\$1,420	
•	2+85, Sta. 154+1	,	0.5.1				<b>0.445.00</b>	/1		<b>47</b> 0	
(w/ exca	r placement (Sta. vator)	24+45)	0.5 hrs			@	\$145.00	/nr	=	\$73	
Fill repai	r rock (Sta. 24+4	5)	10 CY	Jaw-R	un	@	\$23.66	/CY	=	\$237	
•	r compaction held tamper)		0.5 hrs			@	\$57.00	/hr	=	\$29	
Process (w/ road	surface		20.0 sta			@	\$20.63	/sta	=	\$413	
Compac	t surface		20.0 sta			@	\$16.00	/sta	=	\$320	
(w/ vibra	tory roller)							TOT	AL SU	JRFACING COST =	\$6,655
SPECIA	L PROJECTS										
	ut culverts		2 culverts			@	\$25.00	/ea	=	\$50	
							TOTAL	L SPEC	IAL P	ROJECTS COST =	\$50

Compiled by: Zane Sandborg
Date: Mar 29, 2022

**GRAND TOTAL =====>** \$10,165

SALE	Long John		Project #	2		LENGTH	impro	ve	9.1 sta	
ROAD	7 to 8	(Unsurfac	ed)							
CONSTR	RUCTION					Rate				
	alignment (w/ D6 90 to Sta. 4+70)	)	1.5 hrs		@	\$128.00	/hr	=	\$192	
Headwall (Sta. 4+3	l stabilization (w.	/ C325)	0.5 hrs		@	\$145.00	/hr	=	\$73	
Construc	t Landing (Sta. 3	3+10)	1 Ldg		@	\$438.00	/Ldg	=	\$438	
Shape su			2.5 sta		@	\$20.63	/sta	=	\$52	
(w/ road	grader)					TO	OTAL C	ONST	RUCTION COST =	\$755
IMPROV	EMENT					Rate				
Re-open	road (w/ grader)	)	9.1 sta		@	\$15.40	/sta	=	\$140	
Compact	subgrade		9.1 sta		@	\$16.00	/sta	=	\$146	
(w/ vibrat	tory roller)					٦	OTAL	IMPRO	OVEMENT COST =	\$286
										·
SURFAC	ING			Size		<u>Rate</u>				
Junction			10 CY	Jaw-Run	@	\$23.66	/CY	=	\$237	
•	00 to Sta. 0+50)								<b>.</b>	
Process (w/ road (			0.5 sta		@	\$20.63	/sta	=	\$10	
Compact			0.5 sta		@	\$16.00	/sta	=	\$8	
(w/ vibrat	tory roller)									
							TOT	AL SU	RFACING COST =	\$255
Compiled	d by:	;	Zane Sandborg							
Date:		1	Mar 29, 2022					GRAN	ID TOTAL ====>	\$1,296

SALE	Long John		Project #	2		LENGTH	impro	ove	4.9 sta	a
ROAD	9 to 10	(Unsurfaced)								
IMPP()	/EMENT					Poto				
_		•	Г h.u.s		<u></u>	<u>Rate</u>	/1		<b></b>	
•	road (w/ C325)		.5 hrs		@	\$145.00	/hr	=	\$363	
•	Landings (w/ C	325) 0	.5 hrs		@	\$145.00	/hr	=	\$73	
(Sta. 3+8	85)									
						٦	TOTAL	IMPRO	OVEMENT COST =	\$436
SURFAC	CING			<u>Size</u>		<u>Rate</u>				
Surface	rock- 4" Lift	1.	I0 CY	3"-0"	@	\$5.72	/CY	=	\$629	
Landing	rock	;	30 CY	Jaw-Run	@	\$23.66	/CY	=	\$710	
(Sta. 3+8	85)									
Process	surface	4	.9 sta		@	\$20.63	/sta	=	\$101	
(w/ grade	er)								·	
` •	t surface	4	.9 sta		@	\$16.00	/sta	=	\$78	
	tory roller)					,			• -	
(	,,						TO	TAL SU	RFACING COST =	\$1,518
							. •	00		ψ.,σ.σ
Compile	q pv.	<i>7</i> an	e Sandborg							
Date:	~ ~ <i>,</i> .		29, 2022					GRAN	ND TOTAL ====>	\$1,954
Date.		iviai	23, 2022					CINAI	ID IOIAL	ψ1,334

SALE ROAD	Long John 11 to 12 (Go	Proje pat Ridge Road) ( Sur			LENGTH	impro	ve	173.3 s	ta
	NG AND GRUBBING +70 to Sta. 173+30	0.17 ac		@	<u>Rate</u> \$1,337.00	) /ac	=	\$227	
				TC	TAL CLEA	RING A	AND G	RUBBING COST =	\$227
	RUCTION				Rate				
	excavation (w/ C325) 1+30 to Sta. 123+75)	16 hrs		@	\$145.00	/hr	=	\$2,320	
	ion endhaul (expanded	d 20%) 1920 CY		@	\$2.50	/CY	=	\$4,800	
	t removal (w/ C325)	2.5 hrs		@	\$145.00	/hr	=	\$363	
•	1+30 to Sta. 123+75)	2007) 70.07		@	<b>ድ</b> ር 50	(C)(		<b>047</b> 5	
	t endhaul (expanded 2 ·emoval (w/ C325)	20%) 70 CY 0.5 hrs		@	\$2.50 \$145.00	/CY /hr	=	\$175 \$73	
(Sta. 12	, ,	0.5 1115		w	φ145.00	/111	-	Ψ13	
	endhaul (expanded 20	%) 20 CY		@	\$2.50	/CY	=	\$50	
	ubgrade	2.5 sta		@	\$20.63	/sta	=	\$52	
(w/ road	-				,			·	
	t subgrade	2.5 sta		@	\$16.00	/sta	=	\$40	
	itory roller)								
	vaste area (WA3)	1 hr		@	\$145.00	/hr	=	\$145	
	t waste area	2010 CY		@	\$0.45	/CY	=	\$905	
Extend L (Pt. 12)	_anding (w/ C325)	0.5 hrs		@	\$145.00	/hr	=	\$73	
. ,	emoval (w/ C325) 2+70)	0.5 hrs		@	\$145.00	/hr	=	\$73	
(	,				TO	OTAL C	ONST	RUCTION COST =	\$9,069
IMPRO\	/EMENT				Rate				
Re-estal	blish ditch +30 to Sta. 69+80 &	24.2 sta		@	\$44.00	/sta	=	\$1,065	
	+20 to Sta. 127+35) Landing (w/ C325)	0.5 hrs		@	\$145.00	/hr	=	\$73	
(Ft. 12)					7	ΓΟΤΑL	IMPR	OVEMENT COST =	\$1,138
SURFA	CING		<u>Size</u>		Rate				
Spot roc		200 CY	1½" - 0"	@	\$26.66	/CY	=	\$5,332	
Base lay	/er rock - 8" lift 1+30 to Sta. 123+75)	40 CY	Jaw-Run	@	\$24.30	/CY	=	\$972	
Surface	rock - 8" lift	40 CY	1½" - 0"	@	\$26.66	/CY	=	\$1,066	
Surface	1+30 to Sta. 123+75) rock- 4" Lift 7+85 to Pt. 12)	110 CY	3" - 0"	@	\$5.72	/CY	=	\$629	
Landing	•	80 CY	Jaw-Run	@	\$24.30	/CY	=	\$1,944	
Process (w/ road	surface	36.0 sta		@	\$20.63	/sta	=	\$743	
Compac	et surface atory roller)	16.0 sta		@	\$16.00	/sta	=	\$256	
•	•					TOT	AL SU	JRFACING COST =	\$10,942
SPECIA	L PROJECTS								
Grass se	eed utbank and sidecast p	25 lbs		@	\$1.80	/lb	=	\$45	
Mulch	uwank anu siuecasi p	uliback) 10 bales		@	\$12.00	/bale	=	\$120	
Labor		2.5 hrs		@	\$12.00 \$45.00	/baie /hr	=	\$120 \$113	
		-					NA! -		<b>#070</b>
					IOIA	L SPEC	JAL P	ROJECTS COST =	\$278

Compiled by: Zane Sandborg
Date: Mar 29, 2022 GRAND TOTAL ====>

\$21,654

#### **SUMMARY OF BRUSHING COST**

SALE	Long John		Project #	3		LENGTH	maint	ain		4.0 Mil	es
ROAD	All (	(Surfaced/	unsurfaced)								
LIGHT B	RUSHING					<u>Rate</u>					
	10 to Pt. 6		2.60 mi		@	\$800.00	/mi	=	\$2,080		
(Pt. 5 to	,		0.47		_		, .		<b>#</b> 400		
Pt. 7 to F	Pt. 8		0.17 mi		@	\$800.00	/mi	=	\$136		
	TOTAL LE	NGTH =	2.77 mi			ТО	TAL LI	GHT BR	USHING COS	ST =	\$2,216
MEDIUN	BRUSHING					Rate					
Pt. 1 to F	Pt. 2		1.07 mi		@	\$1,100.00	/mi	=	\$1,177		
Pt. 3 to F	Pt. 4		0.10 mi		@	\$1,100.00	/mi	=	\$110		
Pt. 9 to F	Pt. 10		0.09 mi		@	\$1,100.00	/mi	=	\$99		
	TOTAL LE	NGTH =	1.26 mi			TOTA	L MED	DIUM BR	USHING COS	ST =	\$1,386
						BRU	SHING	GRANI	D TOTAL ===	:==>	\$3,602
SOD AN	D DEBRIS REMO	VAL				<u>Rate</u>					
All brush	ing segments		4.61 mi		@	\$813.12	/mi	=	\$3,748		
	+35 to Pt. 12		3.28 mi		@	\$813.12	/mi	=	\$2,667		
(Pt. 11 to	Pt. 12)										
	TOTAL LE	NGTH =	7.89 mi		тот	ΓAL SOD A	ND DE	BRIS R	EMOVAL ===	==>	\$6,415

Compiled by: Zane Sandborg
Date: Mar 29, 2022

#### SUMMARY OF GATE INSTALLMENT COST

SALE Long John Project # 4
ROAD 1 to 2 (Sta. 0+75)

**GATE INSTALLATION** Rate 8' Farm Gate 2 gates \$400 \$200.00 /ea \$100.00 /trip Transport gate 1 trip \$100 14 bags 50 lbs concrete bags @ \$6.00 /bag \$84 4"x4"x12' pressure treated post 2 posts \$80 @ \$40.00 /post = Installation 4 hrs @ \$180 \$45.00 /hr

3 ft

TOTAL GATE INSTALLATION COST= \$856

\$12

Compiled by: Zane Sandborg

Grade 30 chain

Date: Mar 29, 2022 **GRAND TOTAL =====> \$856** 

@

\$4.00

/ft

#### SUMMARY OF STOCKPILE RESTOCK COST

SALE Long John Project # 5

ROAD Stockpile (Goat Ridge Road)

**IMPROVEMENT** 

Clear brush around stockpile 2 hrs @ \$145.00 /hr = \$290

(W/C325)

TOTAL IMPROVEMENT COST = \$290

RESTOCKING Size Rate

Stockpile rock 500 CY 1½" - 0" @ \$22.47 /CY = \$11,235

(using 18 CY truck)

Front end Loader 4 hrs @ \$77.00 /hr = \$308

TOTAL RESTOCKING COST = \$11,543

Compiled by: Zane Sandborg

Date: Mar 29, 2022 **GRAND TOTAL =====> \$11,833** 

#### **SUMMARY OF MAINTENANCE COST**

SALE: Long John

Final log haul Maintenance Cost Estimate (Costed in appraisal, not in project costs)

Move-in

Grader

\$ 875

Road Segment	Length	Cost/Sta	Cost	_Mileage_
5 to 6	167.9 sta	\$20.63	\$3,463.78	3.18
9 to 10	4.9 sta	\$20.63	\$101.09	0.09
11 to 12	173.3 sta	\$20.63	\$3,575.18	3.28
Total	346.1		\$7,140.05	6.55

#### **Maintenance Rock:**

	Volume	Cost/CY	Cost
1½"-0"	250	\$26.25	\$6,562.50
Fuel increase Grand Total			\$1,457.76 \$16,035.31
TS Volume	3,810	MBF	
Cost / MBF =			\$4.21

#### NOTES:

SALE NAME: Long John DATE: Mar 29, 2022 ROAD NAME: Johnson Creek Road CLASS: Medium ROCK SOURCE: Rickard Rock Quarry 10 CY truck Hwy 20, Harlan-Burnt Woods Road Johnson Creek Road TIME Computation: Road speed time factors: 1. 55 MPH 24.6 MRT 26.8 minutes 0.0 minutes 2. 50 MPH MRT 3. 45 MPH MRT 0.0 minutes 4. 40 MPH 0.0 minutes MRT 40 MPH 35 MPH 5. 11.2 MRT 19.2 minutes 30 MPH 6. MRT 0.0 minutes 25 MPH 7. MRT 0.0 minutes 20 MPH 15 MPH 8. 2.0 MRT 6.0 minutes 9. MRT 0.0 minutes 10. 10 MPH 11. 05 MPH 18.0 minutes 3.0 MRT MRT 0.0 minutes 0.50 minutes Dump or spread time per RT Total hauling cycle time for this setting (100% efficiency) 70.50 minutes Operator efficiency correction 0.85 82.94 minutes Job efficiency correction 0.90 92.16 minutes 10.00 9.22 min/CY Truck capacity (CY) 0.25 min/CY Loading time, delay time per CY TIME (minutes) per cubic yard 9.47 min/CY COST per CY computation \$90.00 /hr. Cost of truck and operator per hour \$1.50 /min Cost of truck and operator per minute Cost per CY \$14.21 /CY Spread and compact Water truck, Grader & Roller \$1.50 /CY Cost Delivered Cost Delivered Cost/Yd (Pit) w/o processing with processing Size 1½" - 0" \$ 11.81 \$26.02 \$27.52 3" - 0" \$ 10.46 \$24.67 \$26.17

Jaw-Run	\$ 9.45	\$23.66	\$25.16
Pit-Run	\$ 7.76	\$21.97	\$23.47
Riprap	\$ 24.98	\$39.19	

Note: Pit costs March, 2020 Rickard Rock Quarry Riprap costs November, 2020 Hardrock Rock Quarry

SALE NAME: Long John DATE: Mar 29, 2022 ROAD NAME: Goat Ridge Road CLASS: Medium ROCK SOURCE: Rickard Rock Quarry 10 CY truck Hwy 20, Harlan-Burnt Woods Road Goat Ridge Road TIME Computation: Road speed time factors: 1. 55 MPH 24.6 MRT 26.8 minutes 0.0 minutes 2. 50 MPH MRT 3. 45 MPH MRT 0.0 minutes 4. 40 MPH 0.0 minutes MRT 40 MPH 35 MPH 5. 4.0 MRT 6.9 minutes 30 MPH 6. MRT 0.0 minutes 25 MPH 7. MRT 0.0 minutes 20 MPH 15 MPH 12.0 minutes 8. 4.0 MRT 9. MRT 0.0 minutes 10. 10 MPH 11. 05 MPH 27.6 minutes 4.6 MRT MRT 0.0 minutes 0.50 minutes Dump or spread time per RT Total hauling cycle time for this setting (100% efficiency) 73.80 minutes Operator efficiency correction 0.85 86.82 minutes Job efficiency correction 0.90 96.47 minutes 10.00 9.65 min/CY Truck capacity (CY) 0.25 min/CY Loading time, delay time per CY TIME (minutes) per cubic yard 9.90 min/CY COST per CY computation \$90.00 /hr. Cost of truck and operator per hour \$1.50 /min Cost of truck and operator per minute Cost per CY \$14.85 /CY Spread and compact Water truck, Grader & Roller \$1.50 /CY Cost Delivered Cost Delivered Size Cost/Yd (Pit) w/o processing with processing 1½" - 0" \$ 11.81 \$26.66 \$28.16 3**" -** 0**"** \$ 10.46 \$25.31 \$26.81

\$24.30

\$39.83

\$22.61

\$25.80

\$24.11

Note: Pit costs March, 2020 Rickard Rock Quarry Riprap costs November, 2020 Hardrock Rock Quarry

\$ 9.45

\$ 7.76

\$ 24.98

Jaw-Run

Riprap

Pit-Run

SALE NAME: Long John DATE: Mar 29, 2022 ROAD NAME: Johnson Creek Road CLASS: Medium ROCK SOURCE: Rickard Rock Quarry 18 CY truck Route: Hwy 20, Harlan-Burnt Woods Road Goat Ridge Road TIME Computation: Road speed time factors: 1. 55 MPH 24.6 MRT 26.8 minutes 0.0 minutes 2. 50 MPH MRT 3. 45 MPH MRT 0.0 minutes 40 MPH 35 MPH 4. 0.0 minutes MRT 5. 4.0 MRT 6.9 minutes 30 MPH 25 MPH 6. MRT 0.0 minutes 7. MRT 0.0 minutes 8. 20 MPH 15 MPH 4.0 MRT 12.0 minutes 9. MRT 0.0 minutes 10. 10 MPH 4.6 MRT 27.6 minutes 11. 05 MPH MRT 0.0 minutes 0.50 minutes Dump or spread time per RT Total hauling cycle time for this setting (100% efficiency) 73.80 minutes Operator efficiency correction 0.85 86.82 minutes Job efficiency correction 0.90 96.47 minutes 18.00 5.36 min/CY Truck capacity (CY) 0.25 min/CY Loading time, delay time per CY TIME (minutes) per cubic yard 5.61 min/CY COST per CY computation \$114.00 /hr. Cost of truck and operator per hour \$1.90 /min Cost of truck and operator per minute Cost per CY \$10.66 /CY \$1.50 /CY Spread and compact Water truck, Grader & Roller Cost Delivered Cost Delivered Cost/Yd (Pit) w/o processing with processing Size 1½" - 0" \$ 11.81 \$22.47 \$23.97 3" - 0" \$ 10.46 \$21.12 \$22.62 Jaw-Run \$ 9.45 \$20.11 \$21.61

\$18.42

\$19.92

Note: Pit costs March, 2020 Rickard Rock Quarry

\$ 7.76

Pit-Run

SALE NAME: Long John	DATE:	Mar 29, 2022
ROAD NAME: Goat Ridge Road	CLASS	: Medium
ROCK SOURCE: WOGOAT292 stockpile	10 CY	truck
Route: Goat Ridge Road, Harl	lan-Burnt Woods Road,	
Johnson Creek Road		
TIME Computation:		
Road speed time factors:		
1. 55 MPH	MRT	0.0 minutes
2. 50 MPH	MRT	0.0 minutes
3. 45 MPH	MRT	0.0 minutes
4. 40 MPH 4.2		6.3 minutes
5. 35 MPH	MRT	0.0 minutes
6. 30 MPH	MRT	0.0 minutes
7. 25 MPH	MRT	0.0 minutes
8. 20 MPH 3.6		10.8 minutes
9. 15 MPH	MRT	0.0 minutes
10. 10 MPH 1.6		9.6 minutes
11. 05 MPH	MRT	0.0 minutes
Dump or spread time per RT  Total hauling cycle time for the (100% efficiency)	his setting	0.50 minutes 27.20 minutes
Operator efficiency correction	0.85	32.00 minutes
Job efficiency correction	0.90	35.56 minutes
our cirioteney correction	<b>.</b> 30	30.00 minaces
Truck capacity (CY)	10.00	3.56 min/CY
Loading time, delay time per CY		0.25 min/CY
TIME (minutes) per cubic yard		3.81 min/CY
COST per CY computation  Cost of truck and operator per  Cost of truck and operator per		\$90.00 /hr. \$1.50 /min
Cost per CY		\$5.72 /CY
Spread and compact Water true	ck, Grader & Roller	\$1.50 /CY
	Cost Delivered	Cost Delivered
Size Cost/Yd (Pit)	w/o processing	with processing
3" - 0" -	\$5.72	\$7.22

#### TIMBER CRUISE REPORT

#### Long John (WO-341-2022-W00902-01) FY 2022

- 1. Sale Area Location: Portions of Sections 3 & 4, T12S, R8W and portions of Section of 34, T11S, R8W, W.M. Lincoln County, Oregon.
- 2. Fund Distribution:

a. Fund

**BOF 60%** 

CSL 40%

3. Sale Acreage by Area:

Unit	Treatment	Gross Acres	Stream Buffers	Existing Roads	No Harvest - Other	No Harvest- Slope	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	50	2	2	<1	-	46	GIS
2	Modified Clearcut	94	22	4	-	<1	68	GIS
3	Partial Cut	8	-	<1	<u>.</u>	-	8	GIS
Total		152	24	6	<1	<1	122	_

- 4. Cruisers and Cruise Dates: This sale was cruised by Zane Sandborg, David Bailey, Jacob Ruhl and Jessica Westcott in November of 2021.
- 5. Cruise Method and Computation: The sale consists of two Modified clearcut units that were cruised using variable radius plot sampling. The timber sale area was cruised using a basal area factor of 33.61. Plots were spaced on a 3x4 chain grid for Unit 1 and a 4x5 chain grid for Unit 2. Unit 2 data was imputed onto Unit 3, a light thinning unit. On Unit 1, a total of 37 plots were taken: 13 measure plots and 24 count plots. On Unit 2, a total of 32 plots were taken: 13 measure plots and 19 count plots.

Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury Super ACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcPro GIS was used to determine gross and net acreage.

- 6. Measurement Standards: Tree heights were measured to the nearest foot, to a top diameter of 6 inches inside bark or to 40% of form factor. Diameters at breast height (DBH) were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.
- 7. **Timber Description:** Timber is primarily 45 year-old Douglas-fir for Unit 1 and 48-year old Douglas-fir for Units 2 and 3. All Units possess small amounts of bigleaf maple, red alder and Western redcedar. For Unit 1 the average Douglas-fir to be removed is approximately 17 inches DBH, with an average height of 80 feet to a merchantable top. For Unit 2, the average Douglas-fir to be removed is approximately 16 inches DBH, with an average height of 75 feet to a merchantable top. For Unit 3, the average Douglas-fir to be removed is approximately 13 inches DBH, with an average height of 59 feet to a merchantable top. The average volume per

Page 1 of 3 March 28, 2022

acre to be harvested (net) is approximately 29.5 MBF for Unit 1, 35.3 MBF for Unit 2 and 6.6 MBF for Unit 3. Conifer trees other than Douglas-fir are reserved from cutting, unless present in yarding corridors, Landings or between R/W tags.

8. Statistical Analysis and Stand Summary: (See attached "Statistics").

Unit	Target CV	Target SE	Actual CV	Actual SE
1	45%	9%	33.1%	5.4%
2	40%	9%	24.6%	4.3%

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

9. Total Volume (MBF) by Species and Grade: (See attached volume report "Species, Sort Grade – Board Foot Volumes - Project").

Unit	Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
	Douglas- fir	1309	1.6%	(21)	1%	(13)	1275
1	Red Alder	79	0%	(0)	2%	(2)	77
	Big-leaf Maple	6	0%	(0)	2%	(<1)	6
	Douglas- fir	2385	1.0%	(24)	1%	(24)	2337
2	Red Alder	20	0%	(0)	2%	(<1)	20
	Big-leaf Maple	43	0%	(0)	2%	(1)	42
3	Douglas- fir	55	1.0%	(1)	1%	(1)	53
Total		3,897	1%	(46)	1%	(41)	3,810

Unit	Species	Avg. DBH	Tot. Net Vol.	2-Saw	3-Saw	4-Saw	Camp Run
	Dayalas fin	177	Grade %	45%	49%	6%	-
	Douglas-fir	17 1275 574		625	76	-	
1	Red Alder	12	Grade %	-	-	_	100%
1	Red Alder	12 .	77	-	_	-	77
	Dia loof Monto	10	Grade %	-	-	-	100%
	Big-leaf Maple	12	6	-	_	-	6
	Davalas fin	16	Grade %	36%	58%	6%	-
	Douglas-fir	16	2337	841	1356	140	-
2	Dad Aldan	12	Grade %	-	-	_	100%
2	Red Alder		20	-	-	-	20
	Die leef Manle	10	Grade %	-	_	-	100%
	Big-leaf Maple	12	42	-	-		42
3	Davidas fin	12	Grade %	19%	70%	11%	-
J	Douglas-fir	13	53	10	37	6	-
Total	Total		3810	1,425	2,018	222	145

Attachments: -Cruise Design

-Cruise Maps -Statistics

-Species, Sort, Grade - Board Foot Volume

-Stand Table Summary -Log Stock Table – MBF

Prepared by: Zane Sandborg Date: 03/24/2022

Unit Forester: Welfun Hulkari Date: 3/28/2022

#### CRUISE DESIGN WEST OREGON DISTRICT

Sale Name: Long John Unit 1

Harvest Type: MC Net BF Net BF

Approx. Cruise Acres: 49 Estimated CV% 45 /Acre SE% Objective 9 /Acre

Planned Sale Volume: 4.014 MMBF Estimated Sale Area Value/Acre: \$15,200

A. Cruise Goals: (a) Grade minimum 70 conifer and 0 hardwood trees:

(b) Sample 37 cruise plots (13 grade: 24 count); (c) Other goals X Determine log grades for sale value; Determine take and leave tree species and sizes.

Take plots as shown on map. Do not take plots in buffers.

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

DO NOT RECORD 22' LENGTHS.

#### B. Cruise Design:

1. Plot Cruises: BAF 33.61 Full point

Cruise Line Directions 90/270

Cruise Line Spacing 4/264 (chains / feet)
Cruise Plot Spacing 3/198 (chains / feet)

Grade/Count Ratio 1:2

#### C. Tree Measurements:

- **1. Diameter:** Minimum DBH to cruise is <u>8"</u> for conifers and <u>10"</u> for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- 3. Top Cruise Diameter (TCD): Minimum top outside bark for conifer is <u>7</u>", <u>7</u>" for <u>hardwoods</u> or <u>40</u>% of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
- **4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the 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. log segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

- 6. Species, Sort, and Grade Codes: A. Species: Record as DF (Douglas-fir); WH (Western hemlock); SS (Sitka Spruce); RC (Western red cedar); NF (Noble fir); SF (Silver fir); RA (Red alder); BM (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DFL, 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; K = Camp Run; 0 = Cull; Hardwoods: K = Camprun; #1 Sawmill = 12"+ scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9"; #4 Sawmill = 6" and 7"
- 7. Deductions: Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning points with red flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie red flagging above eye level near plot center and another red flagging around a sturdy wooden stake marking plot center. On red flagging, write the plot identification number. On "measure/grade" plots write the tree number and/or tree diameter on all measured trees (clockwise from the line direction) in yellow paint. Mark leave trees with an L for leave. ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.
- 9. Cruising Equipment: Relaskop, Rangefinder or Lazer, Logger's Tape (with dbh on back), Biltmore Stick, Compass, Cruise Cards or Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
- **10. Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design	by:	
Approved by:		
Date:		

## CRUISE DESIGN WEST OREGON DISTRICT

Sale Name: Long John Unit 2

Harvest Type: MC Net BF Net BF

Approx. Cruise Acres: 67 Estimated CV% 40 /Acre SE% Objective 9 /Acre

Planned Sale Volume: 4.014 MMBF Estimated Sale Area Value/Acre: \$18,050

A. <u>Cruise Goals</u>: (a) Grade minimum 70 conifer and 0 hardwood trees:

(b) Sample <u>32</u> cruise plots (11 grade : 21 count); (c) Other goals <u>X</u> Determine log grades for sale value; \_\_\_ Determine take and leave tree species and sizes.

Take plots as shown on map. Do not take plots in buffers.

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

DO NOT RECORD 22' LENGTHS.

#### B. Cruise Design:

1. Plot Cruises: BAF 33.61 Full point

Cruise Line Directions 90/270

Cruise Line Spacing 5/330 (chains / feet)
Cruise Plot Spacing 4/264 (chains / feet)

Grade/Count Ratio 1:2

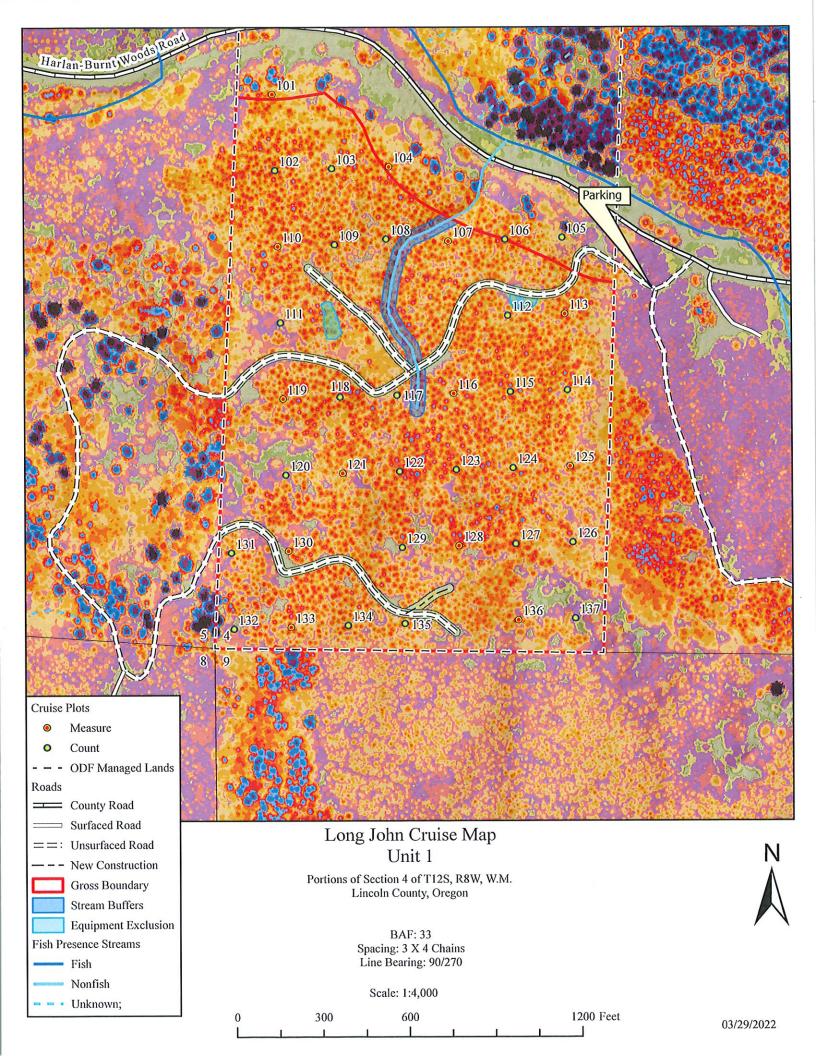
#### C. <u>Tree Measurements:</u>

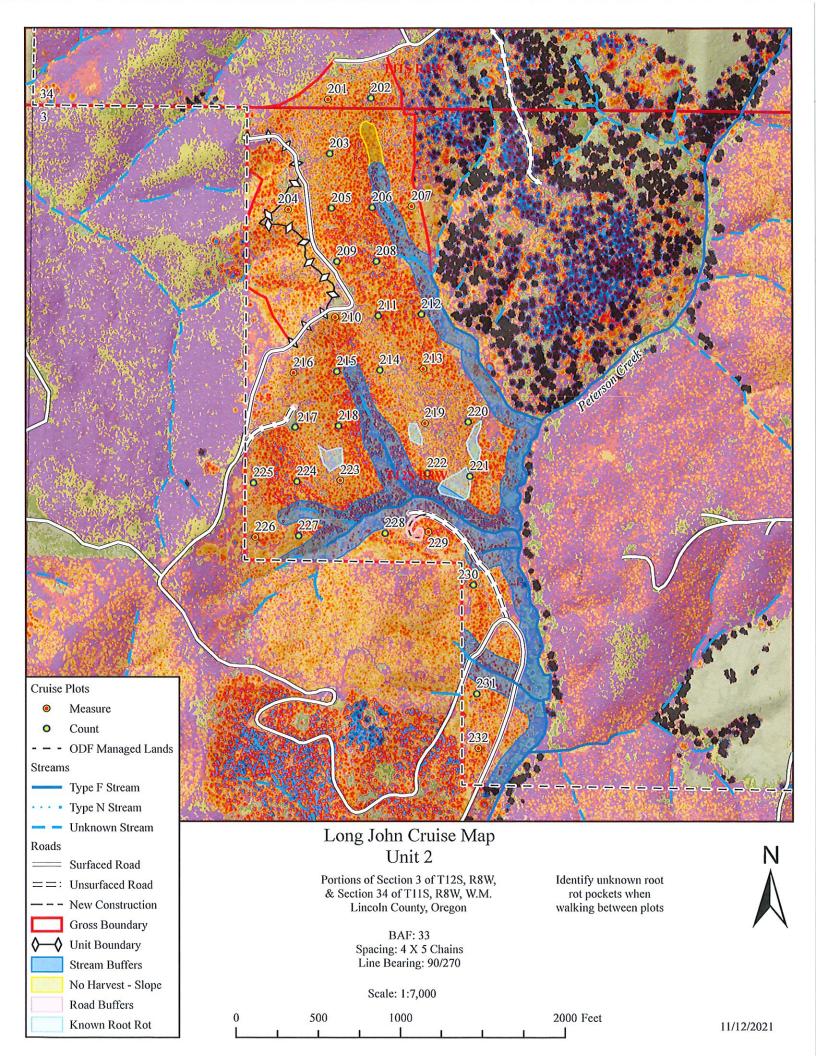
- 1. **Diameter:** Minimum DBH to cruise is <u>8</u>" for conifers and <u>10</u>" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- **3.** Top Cruise Diameter (TCD): Minimum top outside bark for conifer is <u>7", 7" for hardwoods</u> or <u>40</u>% of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
- **4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the 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. log segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

- 6. Species, Sort, and Grade Codes: A. Species: Record as DF (Douglas-fir); WH (Western hemlock); SS (Sitka Spruce); RC (Western red cedar); NF (Noble fir); SF (Silver fir); RA (Red alder); BM (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DFL, 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; K = Camp Run; 0 = Cull; Hardwoods: K = Camprun; #1 Sawmill = 12"+ scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9"; #4 Sawmill = 6" and 7"
- 7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning points with red flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie red flagging above eye level near plot center and another red flagging around a sturdy wooden stake marking plot center. On red flagging, write the plot identification number. On "measure/grade" plots write the tree number and/or tree diameter on all measured trees (clockwise from the line direction) in yellow paint. Mark leave trees with an L for leave. ITS and 100% Cruises: Mark cruise "strips" with various colored flagging (not pink). Mark trees measured and graded with yellow paint.
- **9. Cruising Equipment:** Relaskop, Rangefinder or Lazer, Logger's Tape (with dbh on back), Biltmore Stick, Compass, Cruise Cards or Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
- **10.Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by:	
Approved by:	
Date:	





TC PST	CATS					OJECT OJECT		STICS IGJOHN			PAGE DATE	1 3/9/2022
TWP	RGE	SC	TRACT	,	ТҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
012	008	04	U1		00MC			46.00	37	201	1	W
						TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		P	LOTS	TREES		PER PLOT		TREES		TREES		
TOTA	AL		37	201		5.4						
	SE COUNT DREST		16	79		4.9		5,622		1.4		
COUN BLAN 100 %	NKS		20 1	110		5.5						
					STA	ND SUMM	ARY					
			MPLE REES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF			73	103.0	17.3	80	40.2	167.1	28,449	27,997	7,355	
R AL	DER		2	15.1	11.5	54	3.2	10.9	1,719	1,719	445	445
	APLE		2	2.2	12.2	35	0.5	1.8	134	134	45	
CHER TOTA			2 79	1.9 122.2	13.1 16.5	35 75	0.5 44.7	1.8 181.7	116 <i>30,418</i>	116 29,966	40 7,885	40 7,885
CON			TS OF THE		VOLUME	WILL BE V	WITHIN TI	HE SAMPLE E	RROR			
CL	68.1		COEFF				E TREES -		#	OF TREES R	-	INF. POP.
SD:	1.0		VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	1
DF R ALI	DED		46.3 68.1	5.4 63.8		318 49	336 135	355 221				
	APLE		00.1	05.0								
DL IVI	7 II LL					60	60	60				
CHER						60	60 60	60 60				
	RRY		51.9	5.8						108	27	1
CHER	RRY		51.9 COEFF	5.8		60 299	60	60 336	#	108 OF TREES R	-	INF. POP.
CHER TOTA CL SD:	RRY AL		COEFF VAR.%	S.E.%	L	60 299 <b>SAMPL</b> I	60 317 E <b>TREES</b> - AVG	60 336 • <b>CF</b> HIGH	#		-	
CHER TOTA CL SD:	68.1 1.0		COEFF VAR.% 40.8	S.E.% 4.8	<u> </u>	60 299 <b>SAMPLI</b> OW 83	60 317 E TREES - AVG 87	60 336 • <b>CF</b> HIGH	#	OF TREES R	EQ.	INF. POP.
CHEFTOTAL  CL SD: DF R ALL	68.1 1.0		COEFF VAR.%	S.E.%	L	60 299 SAMPLI OW 83 14	60 317 E TREES - AVG 87 35	60 336 • CF HIGH 91 55	#	OF TREES R	EQ.	INF. POP.
CHEFTOTAL  CL SD: DF R ALL	AL 68.1 1.0 DER (APLE		COEFF VAR.% 40.8	S.E.% 4.8	L	60 299 <b>SAMPLI</b> OW 83	60 317 E TREES - AVG 87	60 336 • <b>CF</b> HIGH	#	OF TREES R	EQ.	INF. POP.
CHER TOTA CL SD: DF R ALL BL M	68.1 1.0 DER APLE RRY		COEFF VAR.% 40.8 63.5	S.E.% 4.8 59.5	L	60 299 SAMPLI OW 83 14 20	60 317 E TREES - AVG 87 35 20	60 336 CF HIGH 91 55 20	#	OF TREES R	EQ.	INF. POP.
CHERTOTAL  CL SD: DF R ALL BL M CHER	68.1 1.0 DER APLE RRY		COEFF VAR.% 40.8 63.5	S.E.% 4.8 59.5	L	60 299 SAMPLI OW 83 14 20 20	60 317 E TREES - AVG 87 35 20 21 83	60 336 CF HIGH 91 55 20 22		OF TREES R	10 21	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD:	68.1 1.0 DER APLE RRY		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.%	S.E.% 4.8 59.5 6.3 5.2 S.E.%		60 299 SAMPLI OW 83 14 20 20 78 TREES/	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG	60 336 CF HIGH 91 55 20 22 87		OF TREES R 5	10 21	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF	68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.%	S.E.% 4.8 59.5 6.3 5.2 S.E.% 8.6		60 299 SAMPLI OW 83 14 20 20 78 TREES/	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103	60 336 CF HIGH 91 55 20 22 87  HIGH 112		OF TREES R 5  85  OF PLOTS R	21 REQ.	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL	68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8	S.E.%  4.8 59.5  6.3 5.2  S.E.%  8.6 39.9		60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15	60 336 CF HIGH 91 55 20 22 87  HIGH 112 21		OF TREES R 5  85  OF PLOTS R	21 REQ.	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL BL M	68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.%	S.E.% 4.8 59.5 6.3 5.2 S.E.% 8.6		60 299 SAMPLI OW 83 14 20 20 78 TREES/	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103	60 336 CF HIGH 91 55 20 22 87  HIGH 112		OF TREES R 5  85  OF PLOTS R	21 REQ.	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1	S.E.%  4.8 59.5  6.3 5.2  S.E.%  8.6 39.9 69.7		60 299 SAMPLI OW 83 14 20 20 78 TREES/A OW 94 9 1	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2	60 336 CF HIGH 91 55 20 22 87  HIGH 112 21 4		OF TREES R 5  85  OF PLOTS R	21 REQ.	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL BL M CHERTOTA	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2	S.E.%  4.8 59.5  6.3 5.2  S.E.%  8.6 39.9 69.7 69.7		60 299 SAMPLI OW 83 14 20 20 78 TREES/. OW 94 9 1 1 114	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130	#	OF TREES R 5  85  OF PLOTS R 5	21 EEQ. 10	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL APLE RRY AL		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.%	S.E.%  4.8 59.5  6.3 5.2  S.E.%  8.6 39.9 69.7 69.7	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/. OW 94 9 1 1 114	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130	#	OF TREES R 5  85  OF PLOTS R 5	21 EEQ. 10	INF. POP.
CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL BL M CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA  CHERTOTA	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8	S.E.%  4.8 59.5  6.3 5.2  S.E.%  8.6 39.9 69.7 69.7 6.5  S.E.%  7.0	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH	#	OF TREES R 5  85  OF PLOTS R 5  07  OF PLOTS R	21 2EQ. 10 16 2EQ.	INF. POP.  INF. POP.  INF. POP.
CHERTOTA  CL SD: DF R ALL SD: DF R ALL SD: DF CL SD: DF CL SD: DF R ALL SD: DF R ALL	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8 241.6	S.E.%  4.8 59.5 6.3 5.2  S.E.% 8.6 39.9 69.7 69.7 6.5  S.E.% 7.0 39.7	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL OW 155 7	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG 167 11	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH 179 15	#	OF TREES R 5  85  OF PLOTS R 5  07  OF PLOTS R	21 2EQ. 10 16 2EQ.	INF. POP.  INF. POP.  INF. POP.
CHERTOTA  CL SD: DF R ALL SD: DF R ALL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL SD: DF R ALL SD: DF R ALL SD:	68.1 1.0 DER AAL 68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8	S.E.%  4.8 59.5  6.3 5.2  S.E.%  8.6 39.9 69.7 69.7 6.5  S.E.%  7.0	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH	#	OF TREES R 5  85  OF PLOTS R 5  07  OF PLOTS R	21 2EQ. 10 16 2EQ.	INF. POP.  INF. POP.  INF. POP.
CHERTOTA  CL SD: DF R ALL SD: DF R ALL SD: DF CL SD: DF CL SD: DF R ALL SD: DF R ALL	68.1 1.0 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8 241.6 424.1	S.E.%  4.8 59.5 6.3 5.2  S.E.% 8.6 39.9 69.7 69.7 6.5  S.E.% 7.0 39.7 69.7	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL OW 155 7	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG 167 11	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH 179 15 3	#	OF TREES R 5  85  OF PLOTS R 5  07  OF PLOTS R	21 2EQ. 10 16 2EQ.	INF. POP.  INF. POP.  INF. POP.
CHERTOTA  CL SD: DF R ALL SD: CL SD: DF R ALL SD: DF	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8 241.6 424.1	S.E.%  4.8 59.5 6.3 5.2  S.E.% 8.6 39.9 69.7 69.7 6.5  S.E.% 7.0 39.7 69.7 69.7	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 114 BASAL OW 155 7 1	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG 167 11 2 2 183	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH 179 15	#	OF TREES R 5  85  OF PLOTS R 5  OF PLOTS R 5	21 22 20 10 16 22 10 10 10 10 10	INF. POP.  INF. POP.  INF. POP.
CHERTOTA  CL SD: DF R ALL SD: DF R ALL SD: DF R ALL SD: DF R ALL SD: CL SD: CL SD: CL SD: CHERTOTA	68.1 1.0 DER APLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8 241.6 424.1 424.1 31.0 COEFF VAR.%	S.E.%  4.8 59.5 6.3 5.2  S.E.% 8.6 39.9 69.7 69.7 6.5  S.E.% 7.0 39.7 69.7 69.7 5.1	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL OW 155 7 1 1 172 NET BE	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG 167 111 2 2 182 182 ACRE AVG	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH 179 15 3 3 191	#	OF TREES R 5  85  OF PLOTS R 5  OF PLOTS R 5	21 22 20 10 16 22 10 10 10 10 10	INF. POP.
CHERTOTA  CL SD: DF R ALL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL SD: DF R ALL SD: DF CL SD: DF R ALL BL M CHERTOTA	68.1 1.0 1.0 DER AAL 68.1 1.0 DER AAPLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8 241.6 424.1 424.1 31.0 COEFF VAR.%	S.E.%  4.8 59.5 6.3 5.2  S.E.% 8.6 39.9 69.7 69.7 6.5  S.E.% 7.0 39.7 69.7 69.7 5.1  S.E.% 6.9	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL OW 155 7 1 1 172 NET BF	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG 167 11 2 2 182 /ACRE AVG 2 183	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH 179 15 3 3 191	#	OF TREES R 5  85  OF PLOTS R 5  OF PLOTS R 5	21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 21	INF. POP.  INF. POP.  INF. POP.
CHERTOTA  CL SD: DF R ALL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL SD: DF R ALL BL M CHERTOTA  CL SD: DF R ALL BL M CHERTOTA	68.1 1.0 1.0 DER AAL 68.1 1.0 DER AAPLE RRY AL 68.1 1.0 DER APLE RRY AL 68.1 1.0		COEFF VAR.% 40.8 63.5 6.7 46.2 COEFF VAR.% 52.5 242.8 424.1 424.2 39.8 COEFF VAR.% 42.8 241.6 424.1 424.1 31.0 COEFF VAR.%	S.E.%  4.8 59.5 6.3 5.2  S.E.% 8.6 39.9 69.7 69.7 6.5  S.E.% 7.0 39.7 69.7 69.7 5.1	L	60 299 SAMPLI OW 83 14 20 20 78 TREES/ OW 94 9 1 1 114 BASAL OW 155 7 1 1 172 NET BE	60 317 E TREES - AVG 87 35 20 21 83 ACRE AVG 103 15 2 2 122 AREA/AC AVG 167 111 2 2 182 182 ACRE AVG	60 336 CF HIGH 91 55 20 22 87 HIGH 112 21 4 3 130 RE HIGH 179 15 3 3 191	#	OF TREES R 5  85  OF PLOTS R 5  OF PLOTS R 5	21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 21	INF. POP.  INF. POP.  INF. POP.

TC PST	ATS				PROJECT PROJECT		<u>STICS</u> NGJOHN			PAGE DATE	<b>2</b> 3/9/2022
TWP	RGE	SC	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt
012	008	04	U1	00M0	C		46.00	37	201	1	W
CL	68.1		COEFF		NET B			# OF PLOTS	REQ.	INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
TOTA	<b>A</b> L		33.1	5.4	28,337	29,966	31,596		44	11	5
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOTS RE	Q.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DF			42.1	6.9	6,846	7,355	7,863				
R ALI	DER		241.9	39.7	268	445	621				
BL M	APLE		424.1	69.7	14	45	76				
CHER	RY		424.2	69.7	12	40	69				
TOTA	<b>AL</b>		32.8	5.4	7,460	7,885	8,309		43	11	5

TC	PSPCSTGR		Sı	pecies, S	ort Gra	de - Board F	oot V	olum	es (Pr	oject	)								
ТО	12 R008 S04 Ty	00MC		46.00		Project: Acres	LO	ONGJ(								Page Date Time		19/2022 :32:00	2
Spp	S So Gr T rt ad	% Net BdFt	Bd. Ft Def%	. per Acre Gross	Net	Total Net MBF	-	cent of N Log Sca 6-11			Volume		Length	36-99	. Ln Ft		age Log Bd Ft	CF/	Logs Per /Acre
DF DF DF	DO 2M DO 3M DO 4M	45 49 6	2.2 1.1 1.0	13,068 13,808 1,573	12,785 13,655 1,557	588 628 72		98	87 2	13	85	2 4	13	100 85 12	40 38 17		277 105 22	1.68 0.78	46.1 129.8 71.0
DF	Totals	93	1.6	28,449	27,997	1,288		53	41	6	5	1	6	88	32	9	113	0.92	246.9
RA	DO CR Totals	100		1,719	1,719	79 79		100				15		85 85	37 37	8	85		20.2
BM	DO CR	100		1,719	1,719	6		100				15	100	83	34	7	60	0.60	20.2
BM	Totals	0		134	134	6		100					100		34	7	60	0.59	2.2
СН	DO CR	100		116	5		100					100		34	7	60	0.62	1.9	
СН	Totals	0		116	116	5		100					100		34	7	60	0.62	1.9
Tota	ıls		1.5	30,418	29,966	1,378		56	38	5	4	2	7	87	33	9	110	0.89	271.2

TC PST	TNDSUM		Stand Table	e Summary	Page Date:	1 3/9/2022
T012 R00	08 S04 Ty00MC	46.00	Project	LONGJOHN	Time:	3:32:01PM
			Acres	46.00	Grown Year:	

S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	N	ЛВF
DF	8	1	86	26	6.559	2.29	6.56	5.0	20.0		33	131			15	6
DF	11	1	90	112	3.469	2.29	6.94	12.5	45.0		87	312		•	40	14
DF	12	2	85	96	5.830	4.58	11.66	13.5	45.0		157	525			72	24
DF	13	2	89	92	4.968	4.58	7.45	21.7	80.0		161	596			74	27
DF	14	1	88	117	2.142	2.29	4.28	22.5	90.0		96	386			44	18
DF	15	6	86	114	11.194	13.74	24.25	23.9	89.2		580	2,164		2	67	100
DF	16	5	87	111	8.199	11.45	16.40	29.5	110.0		484	1,804		2	23	83
DF	17	12	87	118	17.431	27.48	43.58	28.1	103.7		1,225	4,517		5	63	208
DF	18	9	89	119	11.661	20.61	33.69	28.1	103.8		947	3,498		4	36	161
DF	19	6	88	117	6.977	13.74	20.93	29.6	106.7		619	2,233			85	103
DF	20	6	87	117	6.297	13.74	18.89	32.6	122.2		615	2,309		2	83	106
DF	21	6	89	127	5.711	13.74	17.13	38.9	157.8		667	2,703			07	124
DF	22	5	88	121	4.337	11.45	12.14	42.9	172.9		521	2,099			40	97
DF	23	5	87	117	3.968	11.45	10.32	49.9	194.6		515	2,008			37	92
DF	24	5	89	123	3.644	11.45	10.93	50.1	210.7		547	2,303			52	106
DF	27	1	88	117	.576	2.29	1.73	57.7	236.7		100	409		•	46	19
DF	Totals	73	87	109	102.964	167.14	246.89	29.8	113.4		7,355	27,997		3,3	83	1,288
RA	10	1	86	94	9.993	5.45	9.99	19.0	70.0		190	700			87	32
RA	14	1	86	113	5.098	5.45	10.20	25.0	100.0		255	1,020		1	17	47
RA	Totals	2	86	100	15.091	10.90	20.19	22.0	85.2		445	1,719		2	05	79
BM	12	2	86	61	2.238	1.82	2.24	20.0	60.0		45	134		:	21	6
BM	Totals	2	86	61	2.238	1.82	2.24	20.0	60.0		45	134			21	6
СН	13	2	86	55	1.927	1.82	1.93	21.0	60.0		40	116			19	5
СН	Totals	2	86	55	1.927	1.82	1.93	21.0	60.0		40	116			19	5
Totals		79	87	106	122.220	181.68	271.24	29.1	110.5		7,885	29,966		3,6	27	1,378

 TC
 PLOGSTVB
 Log Stock Table - MBF

 T012 R008 S04 Ty00MC
 46.00
 Project: LONGJOHN Acres
 LONGJOHN Acres
 Date 3/9/2022 Time 3:32:00PM

s	So G	Fr	Log	Gross	Def	Net	%		l	Net Volu	me by S	caling I	Diamete	r in Inche	es				
Spp T	rt d	e	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	DO	2M	40	601	2.2	588	45.7						254	218	116				
DF	DO	3M	28	4	14.3	4	.3				4								
DF	DO	3M	30	8		8	.6				8								
DF	DO	3M	32	36	4.4	34	2.6			4	25	5							
DF	DO	3M	34	47		47	3.6			11	26	10							
DF	DO	3M	36	76		76	5.9			20	51	6	i						
DF	DO	3M	38	19	2.3	19	1.4				14	5							
DF	DO	3M	40	445		441	34.2			80	69	279	13						
DF	DO	4M	12	6		6	.4			4	1								
DF	DO	4M	14	3		3	.2			3									
DF	DO	4M	16	38		38	2.9			38									
DF	DO	4M	18	6		6	.5			6									
DF	DO	4M	20	9		9	.7			9									
DF	DO	4M	28	3		3	.2			3									
DF	DO	4M	36	9	8.3	8	.6			8									
DF	7	otals		1,309	1.6	1,288	93.4			185	198	303	267	218	116				
RA	DO	CR	28	12		12	14.8			12									
RA	DO	CR	40	67		67	85.2			32		35							
RA	7	otals		79		79	5.7			44		35							
BM	DO	CR	34	6		6	100.0			6									
BM	7	otals		6		6	.4			6									
СН	DO	CR	34	5		5	100.0			5									
СН	7	otals		5		5	.4			5									
Total	All S	pecie	s	1,399	1.5	1,378	100.0			241	198	339	267	218	116				

TC PSTATS					OJECT OJECT		TICS GJOHN			PAGE DATE	<b>1</b> 3/18/2022
WP RG	E S	SC TRACT	7	ГҮРЕ		ACI	RES	PLOTS	TREES	CuFt	BdFt
012 008	(	03 U2	(	00MC			68.00	32	215	1	W
					TREES	]	ESTIMATED TOTAL		PERCENT SAMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOTAL		32	215		6.7						
CRUISE DBH COUN REFOREST	Т	13	93		7.2		11,191		.8		
COUNT BLANKS 100 %		19	122		6.4						
				STA	ND SUMM	ARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF		80	146.4	16.2	75	52.2	210.1	35,052	34,708	9,028	9,028
BL MAPLE		5	7.8	12.2	35	1.8	6.3	628	628	175	175
SNAG		4	5.5	13.2	56	1.4	5.3	***	***		_
R ALDER		3	3.8	12.3	42	0.9	3.2	294	294	94	9.
CHERRY TOTAL		1 93	1.1 <i>164.6</i>	13.0 15.9	35 72	0.3 56.7	1.1 225.8	68 <i>36,043</i>	68 35,699	9,319	9,31
CL 68.	1	COEFF			SAMPLI	E TREES -	BF	i	# OF TREES R	EQ.	INF. POP.
SD: 1.0		VAR.%	S.E.%	L	ow	AVG	HIGH	-	# OF TREES R 5	EQ. 10	
			S.E.% 6.1 31.1	L				-		-	INF. POP.
SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY		VAR.% 54.8 62.7 27.2	6.1 31.1 18.8	L	286 67 62	AVG 305 98 77	HIGH 323 129 91		5	10	
SD: 1,0 DF BL MAPLE SNAG R ALDER		VAR.% 54.8 62.7	6.1 31.1	и	OW 286 67	305 98	323 129	1		-	
SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY	)	VAR.% 54.8 62.7 27.2	6.1 31.1 18.8	ъ	286 67 62 252	AVG 305 98 77	HIGH 323 129 91 289		5	10	
SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0	1	VAR.% 54.8 62.7 27.2 65.7 COEFF VAR.%	6.1 31.1 18.8 6.8		286 67 62 252 SAMPLI	AVG 305 98 77 270 E TREES - AVG	HIGH 323 129 91 289 CF HIGH		5 172	10 43 EQ.	
SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL CL 68.	1	VAR.% 54.8 62.7 27.2 65.7 COEFF	6.1 31.1 18.8 6.8		286 67 62 252 SAMPLI	AVG 305 98 77 270 E TREES -	HIGH 323 129 91 289 CF		5 172 # OF TREES R	10 43 EQ.	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY	1	VAR.% 54.8 62.7 27.2 65.7 COEFF VAR.% 49.8 59.4	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5		286 67 62 252 SAMPLI OW 74 19	AVG 305 98 77 270 E TREES - AVG 78 27 25	91 289  CF HIGH 83 35 27		5 172 # OF TREES R 5	10 43 EQ.	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER	1	VAR.% 54.8 62.7 27.2 65.7 COEFF VAR.% 49.8 59.4	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5		286 67 62 252 SAMPLI OW 74 19	AVG 305 98 77 270 2 TREES - AVG 78 27	91 289 CF HIGH 83 35		5 172 # OF TREES R	10 43 EQ.	INF. POP.
SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68.	1	VAR.% 54.8 62.7 27.2 65.7 COEFF VAR.% 49.8 59.4	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5	L	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/4	AVG 305 98 77 270 2 TREES - AVG 78 27 25 70 ACRE	91 289  CF HIGH 83 35 27	;	172 # OF TREES R 5 146 # OF PLOTS R	10  43  EQ. 10  37  EQ.	INF. POP.
DE 1.0 DF SNAG R ALDER CHERRY TOTAL  CL 68.5D: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68.5SD: 68.5SD: 1.0	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3	L	286 67 62 252 SAMPLE OW 74 19 22 65 TREES/A	AVG 305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG	HIGH  323 129 91 289  CF HIGH  83 35 27 74  HIGH	;	5 172 # OF TREES R 5	43 EQ. 10	INF. POP.
DE 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68.5 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68.5 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68.5 DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.% 49.8 59.4  13.0  60.5  COEFF VAR.% 35.3	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.%	L	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A	AVG  305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG 146	HIGH  323 129 91 289  CF HIGH  83 35 27 74  HIGH  155	;	172 # OF TREES R 5 146 # OF PLOTS R	10  43  EQ. 10  37  EQ.	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4	L	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A	AVG  305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG 146 8	HIGH  323 129  91  289  CF  HIGH  83 35  27  74  HIGH  155 14	;	172 # OF TREES R 5 146 # OF PLOTS R	10  43  EQ. 10  37  EQ.	INF. POP.
DE 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.%	L	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A	AVG  305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG 146	HIGH  323 129 91 289  CF HIGH  83 35 27 74  HIGH  155	;	172 # OF TREES R 5 146 # OF PLOTS R	10  43  EQ. 10  37  EQ.	INF. POP.
SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5	L	286 67 62 252 SAMPLIOW 74 19 22 65 TREES/A	AVG  305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG 146 8 5	HIGH  323 129  91  289  CF  HIGH  83 35  27  74  HIGH  155 14 8	;	172 # OF TREES R 5 146 # OF PLOTS R	10  43  EQ. 10  37  EQ.	INF. POP.
DE 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0 DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.% 54.8 62.7 27.2 65.7 COEFF VAR.% 49.8 59.4 13.0 60.5 COEFF VAR.% 35.3 477.7 308.8 565.7	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9	L	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A	AVG  305 98  77  270  E TREES - AVG 78 27  25  70  ACRE AVG 146 8 5 4	HIGH  323 129  91  289  CF HIGH  83 35  27  74  HIGH  155 14 8 8	;	172 # OF TREES R 5 146 # OF PLOTS R	10  43  EQ. 10  37  EQ.	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. CHERRY TOTAL  CL 68. CHERRY TOTAL	1 1 1 )	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8 565.7 565.7	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9	L	286 67 62 252 SAMPLE OW 74 19 22 65 TREES/A OW 137 1 2 0 0 154	AVG  305 98  77  270  E TREES - AVG 78 27  25  70  ACRE AVG 146 8 5 4 1 165	HIGH  323 129  91  289  CF  HIGH  83 35  27  74  HIGH  155 14 8 8 2 175	į	5  172  # OF TREES R 5  146  # OF PLOTS R 5	10  43  EQ. 10  37  EQ. 10	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.% 49.8 59.4  13.0  60.5  COEFF VAR.% 35.3 477.7 308.8 565.7 565.7 35.3	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9	L D	286 67 62 252 SAMPLE OW 74 19 22 65 TREES/A OW 137 1 2 0 0 154	AVG  305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG 146 8 5 4 1	HIGH  323 129  91  289  CF  HIGH  83 35  27  74  HIGH  155 14 8 8 2 175	į	172 # OF TREES R 5  146 # OF PLOTS R 5	10  43  EQ. 10  37  EQ. 10	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68.	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8 565.7 565.7 35.3  COEFF	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9 99.9 6.2	L D	286 67 62 252 SAMPLIOW 74 19 22 65 TREES/A OW 137 1 2 0 0 154	AVG  305 98 77 270 E TREES - AVG 78 27 25 70 ACRE AVG 146 8 5 4 1 165 AREA/ACI	HIGH  323 129  91  289  CF  HIGH  83 35  27  74  HIGH  155 14 8 8 2 175  RE	į	# OF PLOTS R  50  # OF PLOTS R	10  43  EQ. 10  37  EQ. 10	INF. POP.
DE 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8 565.7 565.7 35.3  COEFF VAR.%  26.6 477.7	6.1 31.1 18.8 6.8 S.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9 99.9 6.2 S.E.%	L D	286 67 62 252 SAMPLIOW 74 19 22 65 TREES/A OW 137 1 2 0 0 154 BASAL A	AVG  305 98 77 270 ETREES - AVG 78 27 25 70 ACRE AVG 146 8 5 4 1 165 AREA/ACI AVG	HIGH  323 129  91  289  CF HIGH  83 35  27  74  HIGH  155 14 8 8 2 175  RE HIGH	į	# OF PLOTS R  50  # OF PLOTS R	10  43  EQ. 10  37  EQ. 10	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8 565.7 565.7 35.3  COEFF VAR.%  26.6 477.7 286.6	6.1 31.1 18.8 6.8 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9 99.9 6.2 S.E.% 4.7 84.4 50.6	L D	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A OW 137 1 2 0 0 154 BASAL A OW 200 1 3	AVG  305 98  77 270  E TREES - AVG 78 27 25 70  ACRE AVG 146 8 5 4 1 165  AREA/ACI AVG 210 6 5	HIGH  323 129  91  289  CF HIGH  83 35 27  74  HIGH  155 14 8 8 2 175  RE HIGH  220 12 8	į	# OF PLOTS R  50  # OF PLOTS R	10  43  EQ. 10  37  EQ. 10	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8 565.7 565.7 35.3  COEFF VAR.%  26.6 477.7 286.6 565.7	6.1 31.1 18.8 6.8 5.E.% 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9 99.9 6.2 S.E.% 4.7 84.4 50.6 99.9	L D	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A OW 137 1 2 0 0 154 BASAL A OW 200 1 3 0	AVG  305 98  77  270  E TREES - AVG  78 27  25  70  ACRE AVG  146 8 5 4 1 165  AREA/ACI AVG  210 6 5 3	HIGH  323 129  91  289  CF  HIGH  83 35  27  74  HIGH  155 14 8 8 2 175  RE  HIGH  220 12 8 6	į	# OF PLOTS R  50  # OF PLOTS R	10  43  EQ. 10  37  EQ. 10	INF. POP.
DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL  CL 68. SD: 1.0  DF BL MAPLE SNAG R ALDER CHERRY TOTAL	1	VAR.%  54.8 62.7  27.2  65.7  COEFF VAR.%  49.8 59.4  13.0  60.5  COEFF VAR.%  35.3 477.7 308.8 565.7 565.7 35.3  COEFF VAR.%  26.6 477.7 286.6	6.1 31.1 18.8 6.8 5.6 29.5 9.0 6.3 S.E.% 6.2 84.4 54.5 99.9 99.9 6.2 S.E.% 4.7 84.4 50.6	L D	286 67 62 252 SAMPLI OW 74 19 22 65 TREES/A OW 137 1 2 0 0 154 BASAL A OW 200 1 3	AVG  305 98  77 270  E TREES - AVG 78 27 25 70  ACRE AVG 146 8 5 4 1 165  AREA/ACI AVG 210 6 5	HIGH  323 129  91  289  CF HIGH  83 35 27  74  HIGH  155 14 8 8 2 175  RE HIGH  220 12 8	į	# OF PLOTS R  50  # OF PLOTS R	10  43  EQ. 10  37  EQ. 10	INF. POP.

TC PSTATS

## PROJECT STATISTICS

**PAGE** 

2 PROJECT DATE 3/18/2022 LONGJOHN RGE SC**TYPE** TWP TRACT ACRES **PLOTS** TREES CuFt BdFt 215 1 W 012 008 03 U2 00MC 68.00 32 COEFF NET BF/ACRE # OF PLOTS REQ. INF. POP. CL68.1 SD: VAR.% S.E.% LOW AVG HIGH 10 1.0 DF 25.7 4.5 33,134 34,708 36,283 BL MAPLE 477.7 84.4 98 628 1,158 SNAG 99.9 0 R ALDER 565.7 294 587 CHERRY 565.7 99.9 0 68 137 TOTAL 24.6 4.3 34,146 35,699 37,251 24 3 # OF PLOTS REQ. INF. POP. COEFF NET CUFT FT/ACRE  $\operatorname{CL}$ 68.1 SD: 1.0 VAR.% S.E.% LOW AVG HIGH 5 10 15 DF 25.7 4.5 8,618 9,028 9,438 477.7 84.4 175 322 BL MAPLE 27  ${\bf SNAG}$ 565.7 99.9 0 94 188 R ALDER CHERRY 565.7 99.9 0 23 46 TOTAL 6 24.9 4.4 8,909 9,319 9,729 25 3

T01	2 R008 S03 Ty	00MC		68.00		Project: Acres	LON	GJO 68.0								Page Date Time		1 18/202 28:47	22
		%					Percen	t of Ne	et Boar	d Foot	Volume					Avera	ige Log	g	Logs
Spp	S So Gr T rt ad	Net BdFt	Bd. Ft. Def%	per Acre Gross	Net	Total Net MBF		g Scal		17.	12.20		Length	26.00	Ln	Dia In	Bd Ft	CF/ Lf	Per /Acre
							4-3 0	-11	12-16		12-20	21-30			Ft				
DF DF	DO 2M DO 3M	36 58	1.5 .7	12,873 20,112	12,678 19,964	862 1,358		100	89	11		1 6	1 7	98 88	40 38	8	281 103	1.70 0.73	4: 19:
DF	DO 4M	6	.,	2,067	2,067	141		100			62	38	,	00	19	6	24		84
DF	DO 4M 6 2,067 2,067 1					2,360		63	32	4	4	6	4	86	33	9	107	0.84	323
RA	DO CR	100		294	294	20		100			14		32	54	31	7	57	0.59	
	Totals	1		294	294	20		100			14		32	54	31			0.59	
СН	DO CR	100		68	68	5		100					100		34	7	60	0.59	:
СН	Totals	0		68	68	5		100					100		34	7	60	0.59	1
ВМ	DO CR	100		628	628	43		100			9	31	60		27	8	65	0.66	Ģ
вм	Totals	2		628	628	43		100			9	31	60		27	8	65	0.66	
Total			1.0	36,043	35,699	2,428		64	32	4	4	6	5	84	33	9	105	0.83	33'

TC PSTNDSUM		Stand Table	e Summary	Page Date:	1 3/18/2022
T012 R008 S03 Ty00MC	68.00	Project	LONGJOHN	Time:	8:28:48AM
		Acres	68.00	Grown Year:	

C				Tot				Average	Log		Net	Net			
S		Sample	FF	Av	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.		Totals	
Spc T	DBH	Trees	16'	Ht	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF
DF	9	1	86	48	5.944	2.63	5.94	8.0	30.0		48	178		3:	2 12
DF	10	2	88	102	9.629	5.25	14.44	12.3	50.0		178	722		12	1 49
DF	11	1	81	82	3.979	2.63	3.98	19.0	60.0		76	239		5	1 16
DF	12	3	88	102	10.030	7.88	20.06	14.7	55.0		294	1,103		20	
DF	13	3	86	98	8.546	7.88	14.24	20.2	72.0		288	1,026		19	
DF	14	7	88	106	17.194	18.38	34.39	21.7	80.7		747	2,776		508	
DF	15	6	85	114	12.838	15.75	27.82	24.4	91.5		678	2,546		46	
DF	16	14	88	116	26.328	36.76	58.30	27.6	107.7		1,612	6,281		1,09	
DF	17	6	89	120	9.995	15.75	26.65	26.9	101.2		716	2,699		48'	
DF	18	5	89	118	7.429	13.13	19.32	30.2	110.0		582	2,125		39	
DF	19	9	88	113	12.002	23.63	33.34	31.6	120.4		1,055	4,014		71	
DF	20	5	89	123	6.018	13.13	18.05	34.3	130.7		619	2,359		42	
DF	21	4	88	129	4.367	10.50	13.10	38.5	151.7		504	1,987		34:	
DF	22	5	88		4.973	13.13	13.93	41.9	172.9		583	2,407		390	
DF	23	3 2	90		2.730	7.88	8.19	45.3	192.2		371	1,574		25:	
DF	24 25	1	88 86		1.672 .770	5.25	4.18	55.2	224.0 220.0		231 127	936 508		15	
DF	25 26	2	85 85	104		2.63 5.25	2.31	55.0 58.8	214.0		209	762		14:	
DF	31	1	83		1.424 .501	2.63	1.50	73.3	310.0		110	466		7:	
DF															
DF	Totals	80	87	109	146.369	210.06	323.30	27.9	107.4		9,028	34,708		6,139	2,360
BM	10	1	87	56	2.311	1.26	2.31	14.0	50.0		32	116		2	2 8
BM	11	1	87	66	1.910	1.26	1.91	17.0	60.0		32	115		2:	
BM	12	1	87	45	1.605	1.26	1.60	15.0	50.0		24	80		1	
BM	15	1	87	88	1.027	1.26	2.05	21.5	80.0		44	164		30	
BM	16	1	87	70	.903	1.26	1.81	23.0	85.0		42	153		2	3 10
BM	Totals	5	87	62	7.755	6.30	9.68	18.0	64.9		175	628		119	43
RA	12	2	87	83	2.675	2.10	4.01	16.0	53.3		64	214		4	1 15
RA	13	1	87	68	1.139	1.05	1.14	26.0	70.0		30	80		20	
RA	Totals	3	87	78	3.814	3.15	5.15	18.2	57.0		94	294		6-	1 20
СН	13	1	87	55	1.139	1.05	1.14	20.0	60.0		23	68		1:	
СН	Totals	1	87	55	1.139	1.05	1.14	20.0	60.0		23	68		1:	
							1.14	20.0	00.0		23	00		1.	, 3
SN	10	1	98	49	2.407	1.31									
SN	13	1	98	18	1.424	1.31									
SN	17	2	98	97	1.666	2.63									
SN	Totals	4	98	56	5.497	5.25									
Totals		93	88	103	164.575	225.82	339.28	27.5	105.2		9,319	35,699		6,33	7 2,428

 TC
 PLOGSTVB
 Log Stock Table - MBF

 T012 R008 S03 Ty00MC
 68.00
 Project: LONGJOHN Acres
 Date 3/18/2022 Time 8:28:47AM

			<u> </u>														20.7/A	
Spp T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	2-3	4-5		<b>ne by S</b> 8-9	<b>caling I</b> 10-11		r in Inche 14-15	16-19	20.22	24-29	30-39	40:
			İ			_	2-3	4-3	0-7	8-9	10-11	12-13		10-19	20-23	24-29	30-39	40+
DF	DO 21			5.0	6							0	6					
DF DF	DO 21			1.5	8 848							328	284	213	24			
DI	DO 21	VI 40	, 301	1.5	040	33.9						326	204	213	24			
DF	DO 31	M 28	19		19	.8				13	7							
DF	DO 31	M 30	57		57	2.4				49	8							
DF	DO 31	M 32	40	3.7	39	1.6			20	6	12							
DF	DO 31	M 34	50		50	2.1			8	41								
DF	DO 31	M 36	113	1.9	111	4.7			45	26	40							
DF	DO 31	M 38	66	1.2	65	2.8			10	44	11							
DF	DO 31	M 40	1,022		1,017	43.1			182	287	548							
DF	DO 41	м 16	67		67	2.9			60	7								
DF	DO 41	M 18	17		17	.7			17									
DF	DO 41	M 20	2		2	.1			2									
DF	DO 41	M 24	24		24	1.0			24									
DF	DO 41	M 26	18		18	.7			18									
DF	DO 41	M 28	12		12	.5			12									
DF	Tota	ls	2,384		2,360	97.2			399	473	626	336	290	213	24			
RA	DO C	R 16	3		3	13.7			3									
RA	DO C	R 32	6		6	31.9				6								
RA	DO C	R 36	5		5	27.3			5									
RA	DO C	R 40	5		5	27.2			5									
RA	Tota	ls	20		20	.8			14	6								
СН	DO C	R 34	5		5	100.0			5									
СН	Tota	ls	5		5	.2			5									
BM	DO C	R 16	5 4		4	9.2			2	2								
BM	DO C	R 28	13		13	31.2			13									
BM	DO C	R 32	16		16	38.4			8		9							
BM	DO C	R 34	9		9	21.3					9							
BM	Tota	ls	43		43	1.8			23	2	18							
Total	All Spec	ies	2,451		2,428	100.0			440	482	643	336	290	213	24			

TC PST	ΓATS					OJECT OJECT		STICS NGJOHN			PAGE DATE	1 3/18/2022
TWP	RGE	SC	TRACT	ŗ	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
012	008	03	U3	(	00PC			8.00	32	215	1	W
						TREES		ESTIMATED TOTAL		ERCENT SAMPLE		
		PL	LOTS	TREES		PER PLOT		TREES		TREES		
TOTA	AL		32	215		6.7						
	ISE COUNT DREST		13	93		7.2		1,330		7.0		
COUR BLAN 100 %	NKS		19	122		6.4						
					STA	ND SUMM	ARY					
			MPLE REES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF-L	,		63	97.1	17.5	83	38.7	161.7	28,108	27,825	7,171	7,171
DF-T			17	51.0	13.2	59	13.3	48.3	6,846	6,787	1,840	1,840
	IAPLE C		5	7.8	12.2	35 56	1.8	6.3	628	628	175	175
SNA0 R AL			4 3	5.5 3.8	13.2 12.3	56 42	1.4 0.9	5.3 3.2	294	294	94	94
CHE			1	1.1	13.0	35	0.3	1.1	68	68	23	23
TOT			93	166.2	15.8	71	56.8	225.8	35,945	35,603	9,302	9,302
CL SD:	68.1 1.0		COEFF VAR.%	S.E.%	I	SAMPLI OW	E <b>TREES</b> - AVG	· <b>BF</b> HIGH	#	OF TREES R	EQ. 10	INF. POP.
DF-L			48.4	S.E.% 6.1		318	339	360		3	10	13
DF-T	•		60.9	15.2		151	178	205				
	IAPLE		62.7	31.1		67	98	129				
R AL CHEI	DER		27.2	18.8		62	77	91				
TOT			65.8	6.8		252	271	289		173	43	19
CL	68.1		COEFF			SAMPLI	E TREES -	· CF	#	OF TREES R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
DF-L			43.6	5.5		82	87	91				
	IAPLE		58.2 59.4	14.5 29.5		41 19	48 27	55 35				
SNAO R AL CHEI	DER		13.0	9.0		22	25	27				
TOT			60.6	6.3		66	70	74		147	37	16
CL	68.1		COEFF			TREES/A			#	OF PLOTS R		INF. POP.
SD:	1.0		VAR.%	S.E.%	I	OW	AVG	HIGH		5	10	15
DF-L DF-T			23.1 99.8	4.1 17.6		93 42	97 51	101 60				
	IAPLE		477.7	84.4		1	8	14				
SNA			308.8	54.5		2	5	8				
R AL			565.7	99.9		0	4	8				
CHE			565.7 39.2	99.9 6.9		0 155	1 166	2 178		61	15	7
CL	68.1		COEFF	0.9			AREA/AC		#	OF PLOTS R		INF. POP.
SD:	1.0		VAR.%	S.E.%	I	OW.	AKEA/AC AVG	KE HIGH	#	5 5	EQ. 10	INF. POP.
DF-L			9.8	1.7		159	162	165				1.
DF-T	,		98.3	17.4		40	48	57				
	IAPLE		477.7	84.4		1	6	12				
	IAPLE											

TC PST	ATS				PROJECT PROJECT		STICS NGJOHN			PAGE DATE	<b>2</b> 3/18/2022
TWP	RGE	SC	TRACT	TY			CRES	PLOTS	TREES	CuFt	
012	008	03	U3	00P	С		8.00	32	215	1	W
CL	68.1		COEFF		BASAI	AREA/A(	CRE		# OF PLOT	S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
R AL	DER		565.7	99.9	0	3	6				
CHE	RRY		565.7	99.9	0	1	2				
TOT	AL		25.7	4.5	216	226	236		26	7	3
CL	68.1		COEFF		NET B	F/ACRE			# OF PLOTS R	EO.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DF-L			9.8	1.7	27,341	27,825	28,309				
DF-T			100.2	17.7	5,586	6,787	7,988				
BL M	APLE		477.7	84.4	98	628	1,158				
SNAC	3										
R AL	DER		565.7	99.9	0	294	587				
CHEF	RRY		565.7	99.9	0	68	137				
TOT	AL		22.6	4.0	34,181	35,603	37,024		20	5	2
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DF-L			9.4	1.7	7,052	7,171	7,290				
DF-T			99.9	17.6	1,515	1,840	2,164				
BL M	APLE		477.7	84.4	27	175	322				
SNAC	3										
R AL	DER		565.7	99.9	0	94	188				
CHEF	RRY		565.7	99.9	0	23	46				
TOT	AL		23.4	4.1	8,918	9,302	9,686		22	5	2

TC PSPCSTGR		$\mathbf{S}_{\mathbf{l}}$	pecies, S	ort Gra	de - Board	Foot \	Volum	es (Pr	oject	)								
T012 R008 S03 T	y00PC		8.00		Project: Acres	L	ONGJO 8.	OHN 00							Page Date Time		18/202	22
S So Gr Spp T rt ad	% Net		•	Net	Total	Pe 4-5	rcent of l Log Sc 6-11			Volume		Length	26.00	Ln Ft	Avera	ige Log Bd Ft	7	Logs Per /Acre
DF L DO 2M DF L DO 3M DF L DO 4M	Net and Bd. Ft. per Acre         Total Net Net MBF           M         40         1.4         11,352         11,190           M         54         .8         15,355         15,234           M         6         1,402         1,402						100	88	12	69	21-30 1 6 31	1 7	98 87	40 38 19		289 109 24	1.74 0.77 0.40	38.7 139.1 57.6
DF Totals  DF T DO 2M  DF T DO 3M	78 19 70	1.0 2.4 .6	28,108 1,368 4,793	27,825 1,335 4,766	223		100	35 100	5	3	5	5	87 100 90	33 40 38	8	118 224 86	0.91 1.42 0.61	235.5 6.0 55.4
DF T DO 4M  DF Totals	11	.9	6,846	686	54	+	100	20		44	56 9	3	83	33	7	76	0.33	27.9 89.3
RA DO CR  RA Totals	100		294 294	294 294	2	+	100			14		32	54 54	31	7	57 57	0.59	5.2
CH DO CR CH Totals	100		68 68	68 68	1	_	100					100		34	7	60	0.59	1.1
BM DO CR  BM Totals	100		628 628	628 628	4	_	100			9	31	60		27 27	8	65 65	0.66	9.7 9.7
Totals		1.0	35,945	35,603	285		65	31	4	4	6	5	84	33	8	104	0.82	340.7

TC PSTNDSUM		Stand Table Summary	Page 1 Date: 3/18/2022	
T012 R008 S03 Ty00PC	8.00	Project LONGJOHN	Time: 9:07:26AM	
		Acres 8.00	Grown Year:	

S		Sample	FF	Tot Av	Trees/	BA/	Logs	Average Net	e Log Net	Tons/	Net Cu.Ft.	Net Bd.Ft.	Totals	
Spc T	DBH	Trees	16'	Ht	Acre	Acre	_	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons Cunits MB	BF
DF L	12	1	87	94	3.269	2.57	6.54	13.5	50.0		88	327	7	3
DF L	13	2	88	111	5.571	5.13	11.14	18.7	72.5		209	808	17	6
DF L	14	5	87	106	12.008	12.84	24.02	22.0	82.0		528	1,969	42	16
DF L	15	5	86	114	10.461	12.84	23.01	24.2	91.8		557	2,113	45	17
DF L	16	12	88	116	22.065	30.81	47.81	28.3	110.4		1,355	5,277	108	42
DF L	17	5	88		8.144	12.84	22.80	26.1	98.6		595	2,248	48	18
DF L	18	3	89	122	4.359	7.70	11.62	29.9	112.5		347	1,308	28	10
DF L	19	8	88		10.432	20.54	28.69	32.0	121.8		917	3,495	73	28
DF L	20	4	88	123	4.707	10.27	14.12	34.1	128.3		481	1,812	39	14
DF L	21	4	88		4.270	10.27	12.81	38.5	151.7		493	1,943	39	16
DF L	22	5	88		4.863	12.84	13.62	42.3	174.3		576	2,373	46	19
DF L	23	3	90		2.670	7.70	8.01	45.3	192.2		363	1,539	29	12
DF L	24	2	88		1.634	5.13	4.09	55.2	224.0		226	915	18	7
DF L	25	1	85	127	.753	2.57	2.26	55.0	220.0		124	497	10	4
DF L	26	2	84	104	1.393	5.13	3.48	58.8	214.0		205	745	16	6
DF L	31	1	83	109	.490	2.57	1.47	73.3	310.0		108	456	9	4
DF L	Totals	63	88	115	97.088	161.75	235.48	30.5	118.2		7,171	27,825	574	223
DF T	9	1	86	48	6.433	2.84	6.43	8.0	30.0		51	193	4	2
DF T	10	2	87	102	10.422	5.68	15.63	12.3	50.0		193	782	15	6
DF T	11	1	81	82	4.306	2.84	4.31	19.0	60.0		82	258	7	2
DF T	12	2	88	106	7.237	5.68	14.47	15.3	57.5		221	832	18	7
DF T	13	1	83	73	3.083	2.84	3.08	26.0	70.0		80	216	6	2
DF T	14	2	88	105	5.317	5.68	10.63	21.0	77.5		223	824	18	7
DF T	15	1	82		2.316	2.84	4.63	25.5	90.0		118	417	9	3
DF T	16	2	87	113	4.071	5.68	10.18	24.0	94.0		244	957	20	8
DF T	17	1	91		1.803	2.84	3.61	32.5	120.0		117	433	9	3
DF T	18	2	89		3.217	5.68	8.04	30.6	106.0		246	852	20	7
DF T	19	1	87	118	1.443	2.84	4.33	29.3	110.0		127	476	10	4
DF T	20	1	90	123	1.303	2.84	3.91	35.0	140.0		137	547	11	4
DF T	Totals	17	86	96	50.951	48.31	89.26	20.6	76.0		1,840	6,787	147	54
BM	10	1	87	56	2.311	1.26	2.31	14.0	50.0		32	116	3	1
BM	11	1	87	66	1.910	1.26	1.91	17.0	60.0		32	115	3	1
BM	12	1	87	45	1.605	1.26	1.60	15.0	50.0		24	80	2	1
BM	15	1	87	88	1.027	1.26	2.05	21.5	80.0		44	164	4	1
BM	16	1	87	70	.903	1.26	1.81	23.0	85.0		42	153	3	1
BM	Totals	5	87	62	7.755	6.30	9.68	18.0	64.9		175	628	14	5
RA	12	2	87	83	2.675	2.10	4.01	16.0	53.3		64	214	5	2
RA	13	1	87	68	1.139	1.05	1.14	26.0	70.0		30	80	2	1
RA	Totals	3	87	78	3.814	3.15	5.15	18.2	57.0		94	294	8	2
СН	13	1	87	55	1.139	1.05	1.14	20.0	60.0		23	68	2	1
СН	Totals	1	87	55	1.139	1.05	1.14	20.0	60.0		23	68	2	1
SN	10	1	98	49	2.407	1.31								
SN	13	1	98	18	1.424	1.31								
SN	17	2	98		1.666	2.63								
SN	Totals	4	98	56	5.497	5.25								
Totals	10000						240.70	27.0	104.5		0.202	25.602	7.1	207
rotais	1	93	88	103	166.245	225.82	340.72	27.3	104.5		9,302	35,603	744	285

 TC PLOGSTVB
 Log Stock Table - MBF

 T012 R008 S03 Ty00PC
 8.00
 Project: LONGJOHN Acres
 LONGJOHN 8.00
 Date 3/18/2022 Time 9:07:25AM

	_			<del> </del>		-										1 ime	9.0	U7:25A	171
_	S	So Gr	-		Def	Net	%							er in Inch		I		1	
Spp	T	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	L				5.0	1								1					
DF	L	DO 2M				1	.4						1						
DF	L	DO 2M	1 40	89	1.4	88	39.5						31	30	24	3			
DF	L	DO 3M	1 28	2		2	1.0				1	1							
DF	L	DO 3M	1 30	5		5	2.2				4	1							
DF	L	DO 3M	1 32	4	4.7	3	1.6			1	1	1							
DF	L	DO 3M	1 34	5		5	2.2			1	4								
DF	L	DO 3M	1 36	10	2.6	10	4.3			3	3	3	3						
DF	L	DO 3M	1 38	7	1.4	6	2.9			1	4	1							
DF	L	DO 3M	<b>1</b> 40	91		90	40.5			11	22	57	7						
DF	L	DO 4M	1 16	7		7	3.0			6	1								
DF	L	DO 4M	<b>1</b> 18	1		1	.3			1									
DF	L					0	.2			0									
DF	L	DO 4M	1 24	1		1	.6			1									
DF	L	DO 4M	<b>1</b> 26	1		1	.3			1									
DF	L	DO 4M	1 28	1		1	.6			1									
DF		Total	s	225	1.0	223	78.2			29	40	65	5 32	31	24	3			
DF	T	DO 2M	1 40	11	2.4	11	19.7						8	3					
DF	Т	DO 3M	1 30	2		2	3.5				2								
DF		DO 3M				1	2.0			1									
DF	Т					1	1.5				1								
DF	Т	DO 3M	1 36	2		2	3.8			2									
DF	Т	DO 3M	1 38	1		1	2.1				1								
DF	T	DO 3M	1 40	31		31	57.4			11	12	8	3						
DF	Т	DO 4M	<b>1</b> 16	1		1	1.9			1									
DF		DO 4M				1	2.6			1									
DF		DO 4M		2		2	2.8			2									
DF	T	DO 4M	<b>I</b> 26	2		2	2.8			2									
DF		Total	s	55		54	19.1			19	16	8	8 8	3					
RA		DO CF	16	0		0	13.7			0									
RA		DO CF	32	1		1	31.9				1								
RA		DO CF	36	1		1	27.3			1									
RA		DO CF	40	1		1	27.2			1									
RA	$\dashv$	Total	s	2		2	.8			2	1								
СН	寸	DO CF	34	1		1	100.0			1									

TC PLO	OGS	STVB					Log S	Stock '	Table -	MBF								
T012 R008 S03 Ty00PC 8.00					8.00		Project: Acres		LON	GJOH	N 8.00			Page Date Time	3/1	2 18/2022 07:25AM		
s		So Gr	Log	Gross	Def	Net	Net  % Net Volume by Scaling Diameter in Inches											
Spp T	1	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11 12-13	14-1	5 16-19	20-23	24-29	30-39	40+
СН	T	Total	s		1	1	.2			1								
BM	T	DO CF	R 16		0	0	9.2			0	0							
BM		DO CF	R 28		2	2	31.2			2								
BM		DO CF	R 32		2	2	38.4			1		1						
BM		DO CF	R 34		1	1	21.3					1						
BM		Total	s		5	5	1.8			3	0	2						
Total		All Speci	es	28	38	285	100.0			53	57	75	19	34 24	3			

