Timber Sale Appraisal
Low Incline

Sale WO-341-2023-W00995-01

District: West Oregon

Date: September 20, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$2,375,871.84	$9,666.54	$2,385,538.38
		Project Work:	($69,517.00)
		Advertised Value:	$2,316,021.38

Timber Sale Appraisal
Low Incline
Sale WO-341-2023-W00995-01

District: West Oregon **Date: September 20, 2022**

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	97
Alder (Red)	16	0	96

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	2,727	1,009	0	3,736
Alder (Red)	0	0	39	39
Total	2,727	1,009	39	3,775

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

Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$147.94/MBF = $502.00/MBF - $354.06/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$760.94/MBF = $1265/MBF - ($354.06/MBF + $150/MBF(Extra Haul Cost))

Bigleaf maple and Other Hardwoods Stumpage Price = Hardwood Pulp price using a conversion factor of 10 MBF/ton: =$60.00/MBF

PULP (Conifer and Hardwood Price) = $6/TON

Other Costs (with Profit & Risk to be added):
Intermediate Support/Tail Trees: 4 supports @ $100/support = $400
TOTAL Other Costs (with Profit & Risk to be added) = $400

Other Costs (No Profit & Risk added):
Equipment Cleaning (Invasive Species): $2,000
Non-Project Roads and Landings: 5 stations @ $138/station = $690
Waterbar and Block Dirt Roads: 5 Stations @ 17.56/Sta. =$88
Landing Slash Piling and sorting out firewood: 8 Landings @ $200/Landing = $1,600
TOTAL Other Costs (No Profit & Risk added) = $4,378

SLASH DISPOSAL
Move-In: $1,325
Machine Wash: $300
Project Work: 55 hrs @ $170/hr = $9,520
TOTAL Slash Disposal = $11,145

ROAD MAINTENANCE
Move-in: (Grader and Roller) $1,750
Final Road Maintenance: $12,313
Final Road Maintenance with fuel adjustment: $13,544
Total Road Maintenance: $13,544/3,775 MBF = $3.59/MBF

FUEL ALLOWANCE INCREASE: Adjustments have been made to costs to account for significant rise in fuel costs.

Timber Sale Appraisal
Low Incline

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District: West Oregon **Date: September 20, 2022**

Logging Conditions

Combination#: 1

Douglas - Fir	44.00%
Alder (Red)	44.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing

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

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

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

cost / mbf: $266.73

machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 2

Douglas - Fir	56.00%
Alder (Red)	56.00%

Logging System: Shovel **Process:** Harvester Head Delimbing

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

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

loads / day: 8 **bd. ft / load:** 4200

cost / mbf: $159.05

machines: Forwarder
Harvester

Timber Sale Appraisal
Low Incline
Sale WO-341-2023-W00995-01

District: West Oregon **Date: September 20, 2022**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	12%
Project Costs:	$69,517.00	**Other Costs (P/R):**	$400.00
Slash Disposal:	$11,145.00	**Other Costs:**	$4,378.00

Miles of Road

Road Maintenance: $3.59

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

Timber Sale Appraisal
Low Incline

Sale WO-341-2023-W00995-01

District: West Oregon

Date: September 20, 2022

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$206.43	$3.70	$2.33	$98.10	$0.11	$37.28	$2.95	$2.00	$1.16	$354.06
Alder (Red)									
$206.43	$3.73	$2.33	$164.21	$0.11	$45.22	$2.95	$2.00	$1.16	$428.14

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$990.00	$635.94	$0.00
Alder (Red)	$0.00	$676.00	$247.86	$0.00

Timber Sale Appraisal
Low Incline
Sale WO-341-2023-W00995-01

District: West Oregon **Date: September 20, 2022**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,736	$635.94	$2,375,871.84
Alder (Red)	39	$247.86	$9,666.54

Gross Timber Sale Value

Recovery: $2,385,538.38

Prepared By: David Bailey **Phone:** 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: Low Incline

Date: September 2022

Time: 16:07

Project #1 - Improvements

Road Segment		Length	Cost
1 to 2		72.0 sta	$11,467
2 to 3		10.2 sta	$7,098
2 to 4		13.9 sta	$9,100
5 to 6		9.3 sta	$8,475
2 to 7		42.9 sta	$1,835
Fuel Cost Increase (10%)			$3,798
	Totals	148.3 sta	$41,773

Project #2 - Brushing	Length	Cost
Brushing	0.63 mi	$484
Fuel Cost Increase (10%)		$48
Totals		$532

Project #3 - Stockpile Rock	
750 cy stockpile	$19,676
Fuel Cost Increase (10%)	$1,968
Totals	$21,644

Project #4 - Move in	Cost
Excavator, C325 or equiv.	$1,450
Dozer, D-6 or equiv.	$875
Grader, Cat 14-G or equiv.	$875
Vibratory roller	$875
Road Brusher	$778
Fuel Cost Increase (10%)	$485
Totals	$5,338

GRAND TOTAL **$69,287.00**

SUMMARY OF CONSTRUCTION COST

SALE Low Incline Project #1 LENGTH improve 72.0
ROAD 1 to 2 Cline Creek Road, Miller Creek R September 2022

IMPROVEMENT			16:07					
Clean ditch (with road grader)	72.0	sta		@	$15.40	/sta	=	$1,109
Scatter ditch material	72.0	sta		@	$20.00	/sta	=	$1,440
Construct Landings at (Stations 41+50, 62+40)	2	ldg		@	$438.00	/each	=	$876
Construct turnout (Sta. 48+56)	1	turnout		@	$50.00	/each	=	$50
							TOTAL IMPROVEMENT =	

SURFACING			Size		Rate			
Spot rock (Pt. 2)	10	CY	1½" - 0"	@	$28.33	/CY	=	$283
Turnout Rock (Sta. 48+56)	20	CY	Jaw-Run	@	$25.97	/CY	=	$519
Landing Rock (Sta. 41+50, 62+40)	60	CY	Jaw-Run	@	$25.97	/CY	=	$1,558
Shape Surface (with road grader)	72.0	sta		@	$20.63	/sta	=	$1,485
Compact surface (w/ vibratory roller)	72.0	sta		@	$16.00	/sta	=	$1,152
							TOTAL SURFACING =	

SPECIAL PROJECTS			Size		Rate			
Culvert (18" x 30') (Stations 58+84, 67+10)	60	ft		@	$13.75	/ft	=	$825
Install culvert/dissipator	4	hrs		@	$145.00	/hr	=	$580
Bedding and backfill rock	40	CY	1½" - 0"	@	$28.33	/CY	=	$1,133
Bedding Compaction	2	hrs		@	$57.00	/hr	=	$114
Dissipator rock	10	CY	Pit-Run	@	$24.28	/CY	=	$243
Culvert disposal	2	culverts		@	$50.00	/culvert	=	$100
							TOTAL SPECIAL PROJECTS COST =	

Compiled by: Jim Stuart
Date: Sep 22, 2022

GRAND TOTAL =====>

SUMMARY OF CONSTRUCTION COST

SALE	Low Incline		Project #1	LENGTH	improve	10.2	sta	
ROAD	2 to 3		September 2022					
IMPROVEMENT			16:07					
Sod & Brush Debris removal	10.2	sta		@	$15.40 /sta	=	$157	
Compact subgrade (with vibratory roller)	10.2	sta		@	$16.00 /sta	=	$163	
Re-construct Landing (w/ C325)	2	hrs		@	$145.00 /hr	=	$290	
					TOTAL IMPROVEMENT =			$610
SURFACING			Size		Rate			
Surface rock - 3" lift	170	CY	1½" - 0"	@	$28.33 /CY	=	$4,816	
Landing rock (Pt. 3)	50	CY	Jaw-Run	@	$25.97 /CY	=	$1,299	
Shape Surface (with road grader)	10.2	sta		@	$20.63 /sta	=	$210	
Compact surface (w/ vibratory roller)	10.2	sta		@	$16.00 /sta	=	$163	
					TOTAL SURFACING =			$6,488
Compiled by:	Jim Stuart							
Date:	Sep 22, 2022				**GRAND TOTAL =====>**			**$7,098**

SUMMARY OF CONSTRUCTION COST

SALE Low Incline Project #1 LENGTH improve 13.9 sta
ROAD 2 to 4 September 2022

16:07

IMPROVEMENT

Sod & Brush Debris removal	13.9	sta		@	$15.40	/sta	=	$214
Compact subgrade (with vibratory roller)	13.9	sta		@	$16.00	/sta	=	$222
Re-open Landing (with road grader)	0.5	hrs		@	$114.00	/hr	=	$57
						TOTAL IMPROVEMENT =		$493

SURFACING

			Size		Rate			
Surface rock - 3" lift	240	CY	1½" - 0"	@	$28.33	/CY	=	$6,799
Landing rock (Pt. 4)	50	CY	Jaw-Run	@	$25.97	/CY	=	$1,299
Shape Surface (with road grader)	13.9	sta		@	$20.63	/sta	=	$287
Compact surface (w/ vibratory roller)	13.9	sta		@	$16.00	/sta	=	$222
						TOTAL SURFACING =		$8,607

Compiled by: Jim Stuart **GRAND TOTAL =====> $9,100**
Date: Sep 22, 2022

SUMMARY OF CONSTRUCTION COST

SALE	Low Incline	Project #1	LENGTH	improve	9.3
ROAD	5 to 6	September 2022			

IMPROVEMENT 16:07

Sod & Brush Debris removal	9.3	sta		@	$15.40 /sta	=	$143
Compact subgrade (with vibratory roller)	9.3	sta		@	$16.00 /sta	=	$149
Construct turnaround (30'x30') and endhaul material(expanded 30%)	350	cy		@	$2.50 /cy	=	$875.00
Compact fill material	350	cy		@	$0.80 /cy	=	$280.00
Re-Construct Landing (Pt.6)	2	hours		@	$145.00 /hr	=	$290.00

TOTAL IMPROVEMENT =

SURFACING

Surface rock - 3" lift	160	CY	1½" - 0"	@	$28.33 /CY	=	$4,533
Turnaround rock (Sta. 5+84)	20	CY	3" - 0"	@	$26.98 /CY	=	$540
Landing rock (Pt. 6)	50	CY	Jaw-run	@	$25.97 /CY	=	$1,299
Shape Surface (with road grader)	9.3	sta		@	$20.63 /sta	=	$192
Compact surface (w/ vibratory roller)	9.3	sta		@	$16.00 /sta	=	$149

TOTAL SURFACING =

SPECIAL PROJECTS			Size		Rate		
Clean inlet/outlet of culvert (Sta 1+34)	1	culvert		@	$25.00 /culvert	=	$25

TOTAL SPECIAL PROJECTS COST =

Compiled by: Jim Stuart
Date: Sep 22, 2022

GRAND TOTAL =====>

SUMMARY OF CONSTRUCTION COST

SALE	Low Incline	Project #2	LENGTH	improve	42.9 sta
ROAD	2 to 7		September 2022		
			16:07		

SPECIAL PROJECTS			Size		Rate			
Culvert (18" x 30') (Sta. 16+36)	30	ft		@	$13.75	/ft	=	$413
Install culvert/dissipator	2	hrs		@	$145.00	/hr	=	$290
Bedding and backfill rock	20	CY	1½" - 0"	@	$28.33	/CY	=	$567
Bedding Compaction	1	hrs		@	$57.00	/hr	=	$57
Dissipator rock	10	CY	Pit-Run	@	$24.28	/CY	=	$243
Culvert disposal	1	culverts		@	$50.00	/culvert	=	$50
Clean inlet/outlet of culvert (Sta. 2+20, 13+97, 28+45)	3	culverts		@	$25.00	/culvert	=	$75
Repair culvert inlet (Sta. 2+20)	2	hrs		@	$45.00	/hr	=	$90
Culvert Disposal	1	culvert		@	$50.00	/culvert	=	$50

TOTAL SPECIAL PROJECTS COST =

Compiled by: Jim Stuart **GRAND TOTAL =====>**

Date: Sep 22, 2022

ROADSIDE BRUSHING COSTS

Project # 2

Date: Sep 22, 2022

September 2022

Road Segment	Road Name	Length (Feet)	Miles	Brush Density	Cost / Mile	Total Cost
2 to 3	Miller Creek Spurs	1,016	0.19	Medium	16:07	$0
2 to 4	Miller Creek Spurs	1,387	0.26	Medium	$1,100.00	$286
5 to 6	Miller Creek Spurs	928	0.18	Medium	$1,100.00	$198
Totals		**3,331**	**0.63**			**$484**

Total Cost **$484**

SUMMARY OF PROJECT COST

SALE Low Incline — Project # 3 - Rock Stockpile
ROAD Miller Creek Road (Pt. 2 to 7) — September 2022

16:07

STOCKPILING		Size		Rate			
Clear stockpile site	0.20 ac		@	$1,337.00 /ac	=	$267
Stockpile pad rock	40 cy	Jaw-Run	@	$21.29 /cy	=	$852
Compact pad	1 hr		@	$94.00 /hr	=	$94
Stockpile rock (w/ 18 cy truck)	750 cy	1½"-0"	@	$23.65 /cy	=	$17,738
Create stockpile (w/ excavator)	5 hr		@	$145.00 /hr	=	$725
				TOTAL ROCK COST =		$19,676

Compiled by: Jim Stuart
Date: Sep 22, 2022

GRAND TOTAL =====> $19,676

SUMMARY OF MAINTENANCE COST

SALE Low Incline Final log haul Maintenance Cost Estimate

(Costed in appraisal, not in p September 2022

Move-in	Grader	$	875	16:07
	Roller	$	875	

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	72.0	$36.63	$2,637	1.36
2 to 3	10.2	$20.63	$210	0.19
2 to 4	13.9	$20.63	$287	0.26
2 to 7	42.9	$36.63	$1,571	0.81
5 to 6	9.3	$20.63	$192	0.18
Total	148.3		$4,897	2.81

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	200	$ 28.33	$5,666.00

Grand Total $ 12,313.00

TS Volume 3,775 MBF

Cost / MBF = $3.26

NOTES:

Rock Haul Cost Computation

SALE NAME: Roger Miller Combo — DATE: Sep 22, 2022
ROAD NAME: Miller Cr. Road — Septem Medium
ROCK SOURCE: Richard Rock Quarry — 10 (cy) truck
Route: Hwy 20 Cline Cr to Miller Cr. Road — 16:07

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH	31.2	MRT	37.4	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	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	7.6	MRT	22.8	minutes
9.	15 MPH	5.4	MRT	21.6	minutes
10.	10 MPH		MRT	0.0	minutes
11.	05 MPH		MRT	0.0	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		82.30	minutes
Operator efficiency correction	0.85	96.82	minutes
Job efficiency correction	0.90	107.58	minutes
Truck capacity (cy)	10.00	10.76	min/cy
Loading time, delay time per (cy)		0.25	min/cy
TIME (minutes) per cubic yard		11.01	min/cy

COST per CY computation

Cost of truck and operator per hour	$90.00	/hr.
Cost of truck and operator per minute	$1.50	/min
Cost per CY	$16.52	/cy
Spread and compact — Water truck, Grader & Roller	$1.50	/cy

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
1½" - 0"	$ 11.81	$ 28.33	$ 29.83
3" - 0"	$ 10.46	$ 26.98	$ 28.48
Jaw-Run	$ 9.45	$ 25.97	$ 27.47
Pit-Run	$ 7.76	$ 24.28	$ 25.78
Rip-Rap	$ 27.00	$ 43.52	$ 45.02

Rock Haul Cost Computation

SALE NAME: Roger Miller Combo DATE: Sep 22, 2022
ROAD NAME: Miller Cr. Road Septem Medium
ROCK SOURCE: Richard Rock Quarry (18 cy) Truck and Trailer
Route: Hwy 20 Cline Cr to Miller Cr. Road 16:07

TIME Computation:
Road speed time factors:

1.	55 MPH		MRT	0.0	minutes
2.	50 MPH	31.2	MRT	37.4	minutes
3.	45 MPH		MRT	0.0	minutes
4.	40 MPH		MRT	0.0	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	7.6	MRT	22.8	minutes
9.	15 MPH	5.4	MRT	21.6	minutes
10.	10 MPH		MRT	0.0	minutes
11.	05 MPH		MRT	0.0	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		82.30	minutes
Operator efficiency correction	0.85	96.82	minutes
Job efficiency correction	0.90	107.58	minutes
Truck capacity (cy)	18.00	5.98	min/cy
Loading time, delay time per cy		0.25	min/cy
TIME (minutes) per cubic yard		6.23	min/cy

COST per cy computation

Cost of truck and operator per hour	$114.00	/hr.
Cost of truck and operator per minute	$1.90	/min
Cost per cy	$11.84	/cy
Spread and compact Water truck, Grader & Roller	$1.50	/cy

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
1½" - 0"	$ 11.81	$ 23.65	$ 25.15
3" - 0"	$ 10.46	$ 22.30	$ 23.80
Jaw-Run	$ 9.45	$ 21.29	$ 22.79
Pit-Run	$ 7.76	$ 19.60	$ 21.10
Rip-Rap	$ 27.00	$ 38.84	$ 40.34

TIMBER CRUISE REPORT

Low Incline
(WO-341-2023-W00995-01)
FY 2023

1. **Sale Area Location**: Portions of Sections 17 & 20, T11S, R8W, W.M., Lincoln County, Oregon.

2. **Fund Distribution:**
   a. **Fund** BOF 100%

3. **Sale Acreage by Area:**

Unit	Treatment	Gross Acres	Stream Buffers	Existing Roads	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	113	12	5	96	GIS

4. **Cruisers and Cruise Dates:** The sale was cruised by David Bailey in July 2022.

5. **Cruise Method and Computation:** The sale consists of one modified clearcut that was cruised using variable radius plot sampling. The Sale was cruised on a 5 x 5 chain grid, using a 33.61 BAF. A total of 33 plots were taken with 21 measure plots and 12 count plots.

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

   Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap 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 in Unit 1 includes 96 net acres of 61 year-old Douglas-fir. The average Douglas-fir to be removed is approximately 22 inches DBH, with an average height of 107 feet to a merchantable top. The average volume per acre to be harvested (net) is approximately 39.3 MBF. Conifer trees other than Douglas-fir are reserved on all Units.

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

Unit	Target CV	Target SE	Actual CV	Actual SE
1	45%	9%	31.3%	5.4%

Note: 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)	Interior Wildlife Trees	Net Sale Volume
1	DF	3795	.4%	(15)	1%	(38)	(6)	3736
1	RA	40	--	--	1%	(1)		39
Total	--	3835	--	(15)	--	(39)	(6)	3775

Unit	Ave. DBH	Species	Net Vol.	2-Saw	3-Saw	4-Saw	Camp Run
1	22	DF	Grade%	73%	24%	3%	--
			3736	2727	897	112	--
1	16	RA	Grade%	0%	0%	0%	100%
			39	--	--	--	39
Total all Units			Grade %	72%	24%	2%	1%
			3775	2727	897	112	39

Attachments: Cruise Design
Cruise Maps
Species, Sort Grade – Board Foot Volumes
Statistics
Stand Table Summary
Log Stock Table – MBF

Prepared by: David Bailey Date: 9/21/22

Unit Forester: Evelyn Hukari Date: 9/21/2022

Revised August 2002

CRUISE DESIGN
WEST OREGON DISTRICT

Sale Name: Low Incline

Harvest Type: MCC
Approx. Cruise Acres: 96 **Estimated CV%** 45 Net BF /Acre **SE% Objective** 9 Net BF /Acre

Planned Sale Volume: 3.325 MMBF **Estimated Sale Area Value/Acre:** $ 18,375

A. Cruise Goals: (a) Grade minimum 75 conifer and 10 hardwood trees:
(b) Sample 32 cruise plots (16 grade: 16 count); (c) Other goals X Determine log grades for sale value.

(Special cruising directions – leave trees etc.) 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 Direction(s) 90/270
   Cruise Line Spacing 5/330 (chains) (feet)
   Cruise Plot Spacing 5/330 (chains) (feet)
   Grade/Count Ratio 1:1

C. Tree Measurements:

1. **Diameter:** Minimum DBH to cruise is 8" for conifers and 10" 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 7", 7" for hardwoods or 40 % 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. Grade: 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"

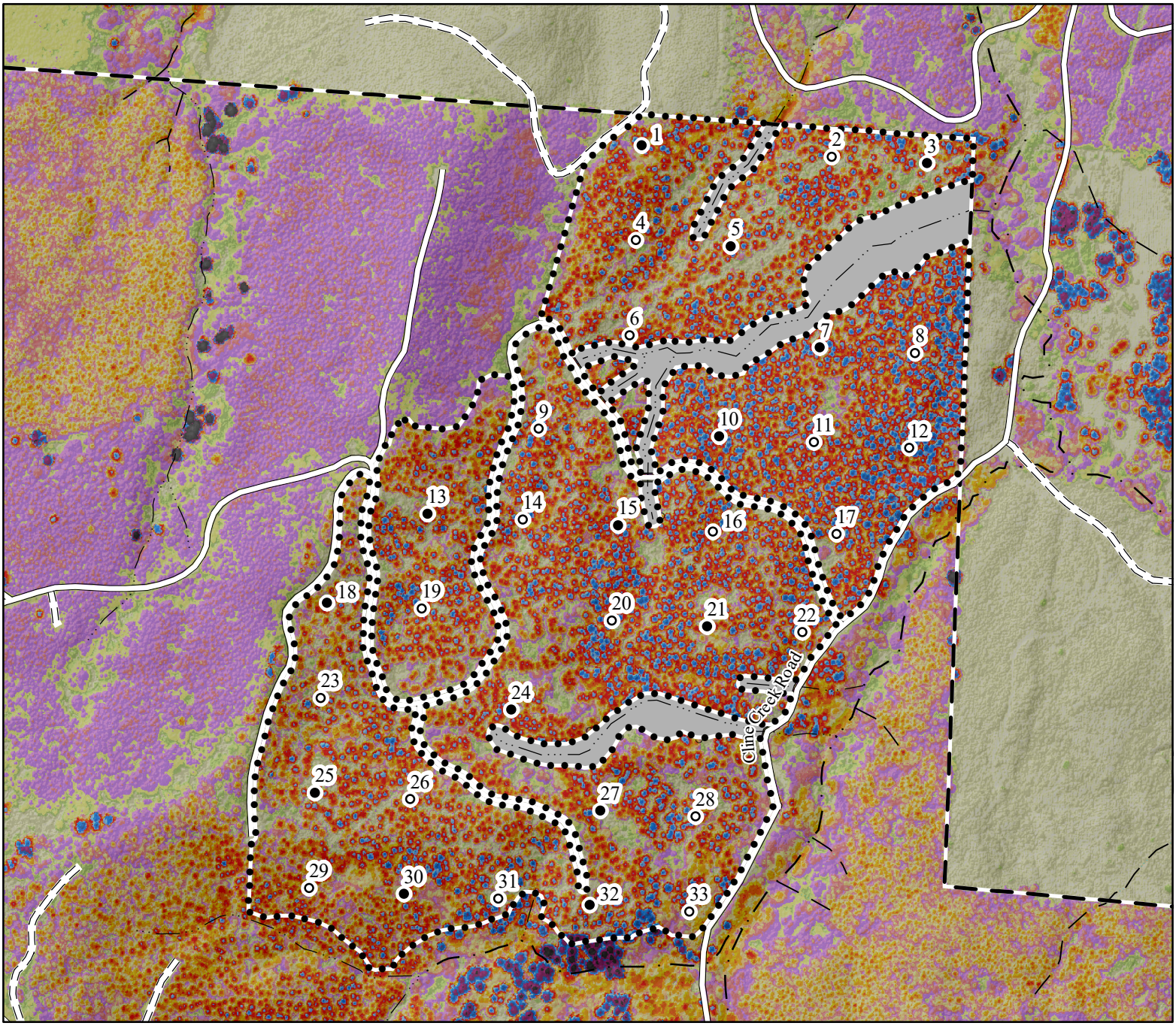
7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally 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. Cruise Map (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: __David Bailey_____
Approved by: _____
Date: _____



Legend

- ODF Managed Lands
- Timber Sale Boundary

Roads
- Surfaced Road
- Unsurfaced Road

Streams
- Fish
- Nonfish
- Unknown
- Stream Buffer Posted

Cruise Plot
- Measure
- Count

CRUISE MAP

OF TIMBER SALE CONTRACT NO. WO-341-2020-W00995-01
LOW INCLINE
PORTIONS OF SECTIONS 17 & 20, T11S, R08W, W.M.,
LINCOLN COUNTY, OREGON

Unit 1 (MC)
Spacing 5 X 5 Chains (330' X 330')
Bearing 90 X 270
BAF 33.61

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

Scale

1:6,000

0 250 500 1,000 1,500 Feet

N

Date: 08/10/2022

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T11S R08W S17 Ty00MC 96.00

Project: LI

Acres 96.00

Page 1
Date 8/8/2022
Time 10:44:50AM

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		OG2M		73	.4	29,128	29,018	2,786		0	62	38				100	40	15	357	1.88	81.2
DF		OG3M		24	.4	9,677	9,636	925		96	4			1	7	92	38	9	109	0.72	88.3
DF		OG4M		2		839	839	81		100			23	61	8	8	23	6	30	0.36	28.1
DF		PW3M		1		29	29	3		100						100	36	7	60	0.59	.5
DF	**Totals**			99	.4	39,673	39,522	3,794		26	46	28	0	2	2	96	37	11	200	1.20	198.1
BM		OGK		100		86	86	8		100						100	40	10	150	1.06	.6
BM	**Totals**			0		86	86	8		100						100	40	10	150	1.06	.6
RA		OGK		100		414	414	40		100						100	40	9	116	0.85	3.6
RA	**Totals**			1		414	414	40		100						100	40	9	116	0.85	3.6
Totals					0.4	40,174	40,023	3,842		27	46	27	0	2	2	96	37	11	198	1.20	202.2

TC TSTATS

STATISTICS

PROJECT LI

DATE 8/8/2022

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	184	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	33	184	5.6		
CRUISE	21	107	5.1	7,132	1.5
DBH COUNT					
REFOREST					
COUNT	12	70	5.8		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	103	70.2	21.8	107	38.9	181.3	39,673	39,522	8,765	8,765
R ALDER	3	3.6	16.2	49	1.3	5.1	414	414	121	121
BL MAPLE	1	.6	18.0	52	0.2	1.0	86	86	24	24
TOTAL	*107*	*74.3*	*21.5*	*103*	*40.4*	*187.4*	*40,174*	*40,023*	*8,910*	*8,910*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 %	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	47.3	4.7	640	671	702			
R ALDER	25.0	17.3	99	120	141			
BL MAPLE								
TOTAL	*50.4*	*4.9*	*619*	*651*	*683*	*102*	*25*	*11*

CL: 68.1 %	COEFF		SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	40.7	4.0	140	146	152			
R ALDER	20.5	14.2	30	35	40			
BL MAPLE								
TOTAL	*43.6*	*4.2*	*136*	*142*	*148*	*76*	*19*	*8*

CL: 68.1 %	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	37.6	6.5	66	70	75			
R ALDER	373.4	64.9	1	4	6			
BL MAPLE	574.5	99.9	0	1	1			
TOTAL	*30.4*	*5.3*	*70*	*74*	*78*	*37*	*9*	*4*

CL: 68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	34.0	5.9	171	181	192			
R ALDER	373.4	64.9	2	5	8			
BL MAPLE	574.5	99.9	0	1	2			
TOTAL	*28.0*	*4.9*	*178*	*187*	*197*	*31*	*8*	*3*

CL: 68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	34.0	5.9	37,181	39,522	41,862			
R ALDER	373.4	64.9	145	414	684			
BL MAPLE	574.5	99.9	0	86	173			
TOTAL	*31.4*	*5.5*	*37,838*	*40,023*	*42,208*	*39*	*10*	*4*

CL: 68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	33.9	5.9	8,248	8,765	9,282			
R ALDER	373.4	64.9	42	121	199			
BL MAPLE	574.5	99.9	0	24	49			

TC TSTATS

STATISTICS

PROJECT LI

DATE 8/8/2022

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	184	S	W

CL: 68.1%	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*30.5*	*5.3*	*8,437*	*8,910*	*9,383*	*37*	*9*	*4*

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 8/8/2022

T11S R08W S17 Ty00MC 96.00

Project LI
Acres 96.00

Time: 10:44:51AM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		14	2	85	111	3.293	3.52	6.59	19.6	82.5	3.69	129	543	354	124	52
DF		15	1	85	125	1.434	1.76	2.87	25.1	105.0	2.06	72	301	197	69	29
DF		16	3	85	123	3.782	5.28	8.82	25.1	102.9	6.30	221	908	605	212	87
DF		17	5	85	123	5.583	8.80	13.40	27.2	109.2	10.38	364	1,463	997	350	140
DF		18	4	86	126	3.984	7.04	10.96	27.1	108.2	8.45	296	1,185	811	285	114
DF		19	5	86	130	4.470	8.80	13.41	29.5	123.3	11.29	396	1,654	1,084	380	159
DF		20	9	86	131	7.261	15.84	20.98	34.1	141.9	20.39	715	2,977	1,957	687	286
DF		21	9	86	141	6.586	15.84	19.76	38.3	166.7	21.58	757	3,293	2,071	727	316
DF		22	7	86	141	4.667	12.32	14.00	41.9	191.4	16.73	587	2,680	1,607	564	257
DF		23	17	86	146	10.371	29.92	31.11	47.8	215.3	42.43	1,489	6,698	4,073	1,429	643
DF		24	6	86	152	3.362	10.56	10.08	54.3	247.8	15.61	548	2,499	1,498	526	240
DF		25	6	86	152	3.098	10.56	9.29	58.0	271.1	15.36	539	2,520	1,474	517	242
DF		26	10	86	152	4.774	17.60	14.32	62.5	285.3	25.53	896	4,086	2,451	860	392
DF		27	5	85	150	2.213	8.80	6.64	67.6	318.7	12.79	449	2,116	1,227	431	203
DF		28	6	86	161	2.470	10.56	7.41	77.2	396.1	16.29	572	2,935	1,564	549	282
DF		29	2	86	150	.767	3.52	2.30	77.8	381.7	5.11	179	879	490	172	84
DF		30	3	86	153	1.076	5.28	3.23	84.1	417.8	7.74	271	1,348	743	261	129
DF		31	2	85	160	.672	3.52	2.01	94.4	473.3	5.42	190	954	521	183	92
DF		33	1	86	163	.296	1.76	.89	106.0	543.3	2.69	94	483	258	90	46
DF		Totals	103	86	138	70.158	181.29	198.07	44.3	199.5	249.81	8,765	39,522	23,982	8,415	3,794
RA		15	1	88	67	1.383	1.70	1.38	28.4	90.0	1.08	39	124	104	38	12
RA		16	1	88	69	1.216	1.70	1.22	33.4	120.0	1.12	41	146	107	39	14
RA		18	1	88	67	.961	1.70	.96	42.4	150.0	1.12	41	144	108	39	14
RA		Totals	3	88	68	3.560	5.09	3.56	33.9	116.4	3.32	121	414	318	116	40
BM		18	1	88	67	.576	1.02	.58	42.4	150.0	.65	24	86	62	23	8
BM		Totals	1	88	67	.576	1.02	.58	42.4	150.0	.65	24	86	62	23	8
Totals			107	86	134	74.294	187.40	202.21	44.1	197.9	253.77	8,910	40,023	24,362	8,554	3,842

TC PLOGSTVB

Log Stock Table - MBF

T11S R08W S17 Ty00MC 96.00

Project: LI
Acres 96.00

Page 1
Date 8/8/2022
Time 10:44:50AM

Spp	S T	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3 4-5	6-7 8-9	10-11 12-13	14-15 16-19	20-23 24-29	30-39 40+
DF		OG	2M	40	2,796		2,786	73.4			11 576	661 1164	374	
DF		OG	3M	22	2		2	.0		2				
DF		OG	3M	28	7		7	.2		5 2				
DF		OG	3M	32	30		30	.8		13 16				
DF		OG	3M	34	35		35	.9		22 13				
DF		OG	3M	36	37	1.9	36	1.0		33 3				
DF		OG	3M	38	130		130	3.4		24 65	30 11			
DF		OG	3M	40	689		686	18.1		82 168	406 30			
DF		OG	4M	14	10		10	.3		10				
DF		OG	4M	16	7		7	.2		7				
DF		OG	4M	18	1		1	.0		1				
DF		OG	4M	22	5		5	.1		5				
DF		OG	4M	24	23		23	.6		23				
DF		OG	4M	26	4		4	.1		4				
DF		OG	4M	28	11		11	.3		11				
DF		OG	4M	30	6		6	.2		6				
DF		OG	4M	34	6		6	.2		6				
DF		OG	4M	40	7		7	.2		7				
DF		PW	3M	36	3		3	.1		3				
DF		Totals			3,809		3,794	98.7		264 267	447 617	661 1164	374	
BM		OG	K	40	8		8	100.0			8			
BM		Totals			8		8	.2			8			
RA		OG	K	40	40		40	100.0		26	14			
RA		Totals			40		40	1.0		26	14			
Total		All Species			3,857		3,842	100.0		264 293	469 617	661 1164	374	

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	D	Bole Hgt	Tot. Hg	PRDVT	S SG	Len	FIFI	Bark	Dia Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
0001	0001	B	11	DF		3	21.8	4	86	G	107	138		1	xx	37					125	125	565	563
	Count						BA = 100.83				T/A = 39.020										*125*	*125*	*565*	*563*
PLOT							BA = 100.83				T/A = 39.020										4,875	4,875	22,066	21,981
0002	0001	B	11	DF		1	16.0	4	86	G	87	122		1	13	40	2	.920	.522	16.02	11.03	41	41	180	170
							BA = 33.61				T/A = 24.071			2	13	40		.920	.522	11.03	7.09	19	19	70	70
																					60	*60*	*250*	*240*
	0002	B	11	DF		1	23.0	4	87	4	107	136		1	12	40		.920	.522	22.91	16.35	81	81	400	400
							BA = 33.61				T/A = 11.649			2	13	40		.920	.522	16.35	11.62	41	41	180	180
														3	14	24		.920	.522	11.62	7.36	11	11	40	40
																						133	*133*	*620*	*620*
	0003	B	11	DF		1	17.0	4	86	G	94	128		1	13	40	2	.920	.522	17.04	11.83	45	45	180	170
							BA = 33.61				T/A = 21.323			2	13	38		.920	.522	11.83	8.23	19	19	80	80
														3	14	14		.920	.522	8.23	6.30	4	4	20	20
																						68	*68*	*280*	*270*
PLOT							BA = 100.83				T/A = 57.043											4,429	4,429	19,211	18,757
0003	0001	B	11	DF		1	21.8	4	86	G	107	138		1	xx	37						125	125	565	563
	Count						BA = 33.61				T/A = 13.007											*125*	*125*	*565*	*563*
PLOT							BA = 33.61				T/A = 13.007											1,625	1,625	7,355	7,327
0004	0001	B	11	DF		1	18.0	4	87	G	99	131		1	12	40	1	.920	.522	17.92	12.72	47	47	200	190
							BA = 33.61				T/A = 19.019			2	13	40	1	.920	.522	12.72	8.77	23	23	90	90
														3	14	14		.920	.522	8.77	6.74	4	4	20	20
																						74	*74*	*310*	*300*
	0002	B	11	DF		1	23.0	4	87	4	103	130		1	12	40		.920	.522	22.89	16.24	81	81	400	400
							BA = 33.61				T/A = 11.649			2	12	40		.920	.522	16.24	11.17	41	41	180	180
														3	13	22		.920	.522	11.17	6.94	9	9	30	30
																						131	*131*	*610*	*610*
	0004	B	11	DF		1	19.0	4	86	4	107	136		1	12	40		.920	.522	19.06	13.35	58	58	240	240
							BA = 33.61				T/A = 17.070			2	13	38		.920	.522	13.35	9.72	26	26	110	110
														3	14	24		.920	.522	9.72	6.34	8	8	30	30
																						91	*91*	*380*	*380*
PLOT							BA = 100.83				T/A = 47.738											4,491	4,491	19,488	19,298
0005	0001	B	11	DF		5	21.8	4	86	G	107	138		1	xx	37						125	125	565	563
	Count						BA = 168.05				T/A = 65.034											*125*	*125*	*565*	*563*
PLOT							BA = 168.05				T/A = 65.034											8,125	8,125	36,776	36,635
0006	0001	B	11	DF		1	20.0	4	86	4	95	120		1	12	40		.920	.522	20.02	13.75	62	62	240	240
							BA = 33.61				T/A = 15.406			2	13	38	1	.920	.522	13.75	8.98	24	24	80	80
														3	14	14		.920	.522	8.98	6.33	4	4	20	20
																						90	*90*	*340*	*340*
	0002	B	11	DF		1	16.0	4	85	G	89	126		1	13	40	1	.920	.522	16.15	10.97	39	39	150	150
							BA = 33.61				T/A = 24.071			2	13	32		.920	.522	10.97	8.16	14	14	70	70
														3	14	16		.920	.522	8.16	6.18	4	4	20	20
																						58	*58*	*240*	*240*
	0003	B	11	DF		1	15.0	4	86	G	86	125		1	13	40		.920	.522	15.03	10.40	35	35	150	150
							BA = 33.61				T/A = 27.388			2	13	40	1	.920	.522	10.40	6.89	15	15	60	60
																						50	*50*	*210*	*210*
	0004	B	11	DF		1	23.0	4	86	4	107	136		1	12	40		.920	.522	23.08	16.16	86	86	400	400
							BA = 33.61				T/A = 11.649			2	13	40		.920	.522	16.16	11.49	41	41	180	180
														3	14	24		.920	.522	11.49	7.28	11	11	40	40
																						138	*138*	*620*	*620*
	0005	B	11	DF		1	27.0	4	85	4	110	139		1	12	40		.920	.522	27.30	18.84	115	115	530	530
							BA = 33.61				T/A = 8.453			2	12	40		.920	.522	18.84	13.67	54	54	240	240
														3	13	28		.920	.522	13.67	8.22	18	18	50	50
																						186	*186*	*820*	*820*
	0006	B	11	DF		1	22.0	4	86	4	104	132		1	12	40		.920	.522	22.06	15.39	77	77	360	360
							BA = 33.61				T/A = 12.732			2	13	38		.920	.522	15.39	10.96	34	34	140	140
														3	14	24		.920	.522	10.96	6.76	9	9	30	30
																						120	*120*	*530*	*530*
	0007	B	11	DF		1	21.0	4	86	4	105	133		1	12	40		.920	.522	21.06	14.71	69	69	290	290

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	T D	Bole Hgt	Tot. Hg	PRDVT	S SG	Len	FIPI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
							BA = 33.61				T/A = 13.973			213	38		.920	.522	14.71	10.56	31	31	140	140
0006														314	24		.920	.522	10.56	6.65	9	9	30	30
																					109	*109*	*460*	*460*
PLOT							BA = 235.27				T/A = 113.672										10,381	10,381	44,096	44,096
0007	0001	B11	DF			6	21.8	4	86	G	107	138		1xx	37						125	125	565	563
		Count					BA = 201.66				T/A = 78.041										*125*	*125*	*565*	*563*
PLOT							BA = 201.66				T/A = 78.041										9,750	9,750	44,131	43,962
0008	0001	B11	DF			1	24.0	4	86	4	123	157		112	40		.920	.522	24.14	17.22	94	94	460	460
							BA = 33.61				T/A = 10.698			212	40		.920	.522	17.22	13.37	50	50	240	240
														313	40		.920	.522	13.37	7.60	24	24	70	70
																					168	*168*	*770*	*770*
	0002	B11	DF			1	21.0	4	86	4	117	149		112	40		.920	.522	21.11	14.96	69	69	290	290
							BA = 33.61				T/A = 13.973			213	40		.920	.522	14.96	11.30	35	35	180	180
														313	36		.920	.522	11.30	6.32	15	15	60	60
																					119	*119*	*530*	*530*
	0003	B11	DF			1	26.0	4	87	4	121	154		112	40		.920	.522	25.96	18.83	104	104	530	530
							BA = 33.61				T/A = 9.116			212	40		.920	.522	18.83	14.50	57	57	290	290
														313	40		.920	.522	14.50	7.93	27	27	70	70
																					187	*187*	*890*	*890*
	0004	B11	DF			1	27.0	4	86	4	120	153		112	40		.920	.522	27.15	19.30	119	119	600	600
							BA = 33.61				T/A = 8.453			212	40		.920	.522	19.30	14.80	61	61	290	290
														313	40		.920	.522	14.80	7.92	27	27	70	70
																					206	*206*	*960*	*960*
	0005	B11	DF			1	23.0	4	86	4	119	151		112	40		.920	.522	23.12	16.43	86	86	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.43	12.53	44	44	200	200
														313	38		.920	.522	12.53	6.92	19	19	60	60
																					148	*148*	*660*	*660*
	0006	B11	DF			1	28.0	4	87	4	120	153		112	40		.920	.522	27.95	20.25	123	123	700	700
							BA = 33.61				T/A = 7.860			212	40		.920	.522	20.25	15.52	68	68	360	360
														313	40		.920	.522	15.52	8.31	32	32	90	90
																					223	*223*	*1150*	*1150*
PLOT							BA = 201.66				T/A = 61.750										10,392	10,392	48,599	48,599
0009	0001	B11	DF			1	26.0	4	86	4	117	149		112	40	2	.920	.522	26.13	18.52	109	109	530	510
							BA = 33.61				T/A = 9.116			212	40	1	.920	.522	18.52	14.00	54	54	240	240
														313	36		.920	.522	14.00	7.82	21	21	60	60
																					184	*184*	*830*	*810*
	0002	B11	DF			1	29.0	4	86	4	121	154		112	40		.920	.522	29.16	20.76	135	135	700	700
							BA = 33.61				T/A = 7.327			212	40		.920	.522	20.76	15.98	68	68	360	360
														313	40		.920	.522	15.98	8.74	32	32	90	90
																					235	*235*	*1150*	*1150*
	0003	B11	DF			1	26.0	4	86	4	122	155		112	40		.920	.522	26.15	18.63	109	109	530	530
							BA = 33.61				T/A = 9.116			212	40		.920	.522	18.63	14.41	57	57	290	290
														313	40		.920	.522	14.41	8.03	28	28	90	90
																					194	*194*	*910*	*910*
	0004	B11	DF			1	17.0	4	86	G	91	123		113	40		.920	.522	17.03	11.76	45	45	180	180
							BA = 33.61				T/A = 21.323			213	40		.920	.522	11.76	7.68	19	19	70	70
																					63	*63*	*250*	*250*
PLOT							BA = 134.44				T/A = 46.882										6,521	6,521	29,619	29,436
0010	0001	B11	DF			6	21.8	4	86	G	107	138		1xx	37						125	125	565	563
		Count					BA = 201.66				T/A = 78.041										*125*	*125*	*565*	*563*
PLOT							BA = 201.66				T/A = 78.041										9,750	9,750	44,131	43,962
0011	0001	B11	DF			1	30.0	4	87	4	116	147		112	40	1	.920	.522	29.93	21.60	140	140	760	740
							BA = 33.61				T/A = 6.847			212	40	1	.920	.522	21.60	16.23	76	76	400	390
														313	34		.920	.522	16.23	9.36	31	31	100	100
																					247	*247*	*1260*	*1230*
	0002	B11	DF			1	30.0	4	87	4	120	153		112	40	1	.920	.522	29.94	21.70	140	140	760	740
							BA = 33.61				T/A = 6.847			212	40		.920	.522	21.70	16.63	76	76	400	400
														313	38		.920	.522	16.63	9.37	35	35	110	110
																					251	*251*	*1270*	*1250*
	0003	B11	DF			1	22.0	4	87	4	106	134		112	40		.920	.522	21.91	15.62	73	73	360	360

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	D	T Bole Hgt	Tot. Hg	PRDVT	S	SG	Len	FIFI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
							BA = 33.61				T/A = 12.732			213		40		.920	.522	15.62	11.01	38	38	180	180
0011														314		24		.920	.522	11.01	6.85	10	10	30	30
																						121	*121*	*570*	*570*
	0004	B11	DF			1	27.0	4	86	4	115	146		112		40		.920	.522	27.13	19.19	119	119	600	600
							BA = 33.61				T/A = 8.453			212		40		.920	.522	19.19	14.35	61	61	290	290
														313		34		.920	.522	14.35	8.11	24	24	70	70
																						204	*204*	*960*	*960*
	0005	B11	DF			1	23.0	4	86	4	118	150		112		40		.920	.522	23.12	16.41	86	86	400	400
							BA = 33.61				T/A = 11.649			212		40		.920	.522	16.41	12.46	44	44	200	200
														313		34		.920	.522	12.46	7.45	18	18	60	60
																						147	*147*	*660*	*660*
	0007	B11	DF			1	25.0	4	86	4	117	149		112		40		.920	.522	25.13	17.81	100	100	460	460
							BA = 33.61				T/A = 9.860			212		40		.920	.522	17.81	13.46	50	50	240	240
														313		34		.920	.522	13.46	7.91	20	20	60	60
																						170	*170*	*760*	*760*
PLOT							BA = 201.66				T/A = 56.388											10,057	10,057	47,877	47,534
0012	0001	B11	DF			1	20.0	4	86	4	104	132		112		40		.920	.522	20.06	13.99	62	62	240	240
							BA = 33.61				T/A = 15.406			213		38		.920	.522	13.99	9.96	26	26	110	110
														314		24		.920	.522	9.96	6.15	8	8	30	30
																						96	*96*	*380*	*380*
	0002	B11	DF			1	14.0	4	86	G	78	119		113		40		.920	.522	14.01	9.61	30	30	120	120
							BA = 33.61				T/A = 31.440			213		38		.920	.522	9.61	6.22	12	12	60	60
																						42	*42*	*180*	*180*
	0003	B11	DF			1	19.0	4	86	4	100	126		112		40		.920	.522	19.04	13.19	58	58	240	240
							BA = 33.61				T/A = 17.070			213		40		.920	.522	13.19	8.82	25	25	90	90
														314		16		.920	.522	8.82	6.19	4	4	20	20
																						88	*88*	*350*	*350*
	0005	B11	DF			1	21.0	4	86	4	114	145		112		40		.920	.522	21.10	14.91	69	69	290	290
							BA = 33.61				T/A = 13.973			213		40		.920	.522	14.91	11.08	35	35	180	180
														313		32		.920	.522	11.08	6.48	14	14	50	50
																						118	*118*	*520*	*520*
	0006	B11	DF			1	27.0	4	87	4	126	161		112		40		.920	.522	26.97	19.65	113	113	600	600
							BA = 33.61				T/A = 8.453			212		40		.920	.522	19.65	15.44	64	64	360	360
														313		40		.920	.522	15.44	9.22	33	33	120	120
																						210	*210*	*1080*	*1080*
	0008	B11	DF			1	28.0	4	86	4	129	165		112		40		.920	.522	28.19	20.21	129	129	700	700
							BA = 33.61				T/A = 7.860			212		40	1	.920	.522	20.21	16.05	72	72	400	390
														313		40		.920	.522	16.05	9.99	37	37	120	120
																						237	*237*	*1220*	*1210*
PLOT							BA = 201.66				T/A = 94.202											9,591	9,591	43,473	43,394
0013	0001	B11	DF			8	21.8	4	86	G	107	138		1xx		37						125	125	565	563
			Count				BA = 268.88				T/A = 104.055											*125*	*125*	*565*	*563*
PLOT							BA = 268.88				T/A = 104.055											13,000	13,000	58,841	58,616
0014	0001	B11	DF			1	17.0	4	86	G	87	118		113		40		.920	.522	17.01	11.65	45	45	180	180
							BA = 33.61				T/A = 21.323			213		40		.920	.522	11.65	7.18	19	19	70	70
																						63	*63*	*250*	*250*
	0002	B11	DF			1	23.0	4	86	4	117	149		112		40		.920	.522	23.12	16.39	86	86	400	400
							BA = 33.61				T/A = 11.649			212		40		.920	.522	16.39	12.38	44	44	200	200
														313		36		.920	.522	12.38	6.92	18	18	60	60
																						147	*147*	*660*	*660*
	0003	B11	DF			1	30.0	4	86	4	124	158		112		40		.920	.522	30.18	21.54	146	146	760	760
							BA = 33.61				T/A = 6.847			212		40		.920	.522	21.54	16.80	76	76	400	400
														313		40		.920	.522	16.80	9.71	37	37	120	120
																						259	*259*	*1280*	*1280*
	0004	B11	DF			1	24.0	4	86	4	122	155		112		40		.920	.522	24.14	17.20	94	94	460	460
							BA = 33.61				T/A = 10.698			212		40		.920	.522	17.20	13.30	50	50	240	240
														313		40		.920	.522	13.30	7.42	24	24	70	70
																						168	*168*	*770*	*770*
	0005	B11	DF			1	14.0	4	86	G	68	102		113		40		.920	.522	13.96	9.27	27	27	120	120
							BA = 33.61				T/A = 31.440			214		28		.920	.522	9.27	6.18	9	9	30	30
																						36	*36*	*150*	*150*
PLOT							BA = 168.05				T/A = 81.957											7,771	7,771	34,737	34,737

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	T D	Bole Hgt	Tot. Hg	PRDVT	S SG	Len	FIFI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
0015	0001	B	11	DF		9	21.8	4	86	G	107	138		1xx	37						125	125	565	563
				Count			BA = 302.49				T/A = 117.061										*125*	*125*	*565*	*563*
PLOT							BA = 302.49				T/A = 117.061										14,625	14,625	66,197	65,943
0016	0001	B	11	DF		1	26.0	4	86	4	116	147		112	40	1	.920	.522	26.13	18.50	109	109	530	520
							BA = 33.61				T/A = 9.116			212	40		.920	.522	18.50	13.91	54	54	240	240
														313	36		.920	.522	13.91	7.60	21	21	60	60
																					184	*184*	*830*	*820*
	0002	B	11	DF		1	26.0	4	86	4	117	149		112	40		.920	.522	26.13	18.52	109	109	530	530
							BA = 33.61				T/A = 9.116			212	40		.920	.522	18.52	14.00	54	54	240	240
														313	36		.920	.522	14.00	7.82	21	21	60	60
																					184	*184*	*830*	*830*
	0003	B	11	DF		1	22.0	4	87	4	110	139		112	40		.920	.522	21.92	15.71	73	73	360	360
							BA = 33.61				T/A = 12.732			213	40		.920	.522	15.71	11.40	38	38	180	180
														314	28		.920	.522	11.40	6.86	12	12	30	30
																					122	*122*	*570*	*570*
	0004	B	11	DF		1	23.0	4	85	4	108	137		112	40		.920	.522	23.25	16.00	82	82	360	360
							BA = 33.61				T/A = 11.649			213	40	1	.920	.522	16.00	11.45	38	38	180	180
														314	26		.920	.522	11.45	7.00	11	11	30	30
																					131	*131*	*570*	*570*
	0005	B	11	DF		1	22.0	4	86	4	116	147		112	40	1	.920	.522	22.11	15.65	77	77	360	350
							BA = 33.61				T/A = 12.732			213	40		.920	.522	15.65	11.77	38	38	180	180
														313	36		.920	.522	11.77	6.43	15	15	60	60
																					130	*130*	*600*	*590*
	0006	B	11	DF		1	21.0	4	86	4	112	142		112	40		.920	.522	21.09	14.87	69	69	290	290
							BA = 33.61				T/A = 13.973			213	40		.920	.522	14.87	10.92	32	32	150	150
														314	30		.920	.522	10.92	6.47	11	11	40	40
																					113	*113*	*480*	*480*
PLOT							BA = 201.66				T/A = 69.318										9,684	9,684	43,376	43,157
0017	0001	B	11	DF		1	28.0	4	87	4	126	161		112	40		.920	.522	27.97	20.38	123	123	700	700
							BA = 33.61				T/A = 7.860			212	40		.920	.522	20.38	16.02	72	72	400	400
														313	40		.920	.522	16.02	9.56	37	37	120	120
																					231	*231*	*1220*	*1220*
	0002	B	11	DF		1	23.0	4	86	4	123	157		112	40		.920	.522	23.14	16.50	86	86	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.50	12.81	44	44	200	200
														313	40		.920	.522	12.81	7.28	21	21	70	70
																					150	*150*	*670*	*670*
	0003	B	11	DF		1	18.0	4	86	G	103	137		112	40		.920	.522	18.06	12.67	51	51	200	200
							BA = 33.61				T/A = 19.019			213	38		.920	.522	12.67	9.29	23	23	110	110
														314	22		.920	.522	9.29	6.44	7	7	30	30
																					81	*81*	*340*	*340*
	0004	B	11	DF		1	23.0	4	87	4	119	151		112	40		.920	.522	22.95	16.62	81	81	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.62	12.68	44	44	200	200
														313	38		.920	.522	12.68	7.00	20	20	70	70
																					144	*144*	*670*	*670*
	0005	B	11	DF		1	21.0	4	86	4	113	143		112	40		.920	.522	21.09	14.89	69	69	290	290
							BA = 33.61				T/A = 13.973			213	40		.920	.522	14.89	11.01	35	35	180	180
														313	32		.920	.522	11.01	6.30	14	14	50	50
																					118	*118*	*520*	*520*
	0006	B	11	DF		1	25.0	4	87	4	127	162		112	40		.920	.522	24.98	18.22	98	98	530	530
							BA = 33.61				T/A = 9.860			212	40		.920	.522	18.22	14.37	57	57	290	290
														313	40		.920	.522	14.37	8.70	28	28	90	90
																					183	*183*	*910*	*910*
PLOT							BA = 201.66				T/A = 74.010										10,252	10,252	47,904	47,904
0018	0001	B	11	DF		5	21.8	4	86	G	107	138		1xx	37						125	125	565	563
				Count			BA = 168.05				T/A = 65.034										*125*	*125*	*565*	*563*
	0002	B	11	BM		1	18.0	4	89	H	52	67		11K	40		.953	.555	17.92	10.81	42	42	150	150
							BA = 33.61				T/A = 19.019										*42*	*42*	*150*	*150*
PLOT							BA = 201.66				T/A = 84.053										8,932	8,932	39,629	39,488
0019	0001	B	11	DF		1	33.0	4	86	4	128	163		112	40	1	.920	.522	33.21	23.79	176	176	940	920
							BA = 33.61				T/A = 5.659			212	40		.920	.522	23.79	18.83	93	93	530	530

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	D	T Bole Hgt	Tot. Hg	PRDVT	S	SG	Len	FIFI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
0019															313	40		.920	.522	18.83	11.57	49	49	180	180
																						318	*318*	*1650*	*1630*
	0002	B11	DF			1	24.0	4	86	4	110	139			112	40	1	.920	.522	24.09	16.94	91	91	400	390
						BA = 33.61					T/A = 10.698				212	40		.920	.522	16.94	12.29	44	44	200	200
															313	28		.920	.522	12.29	7.39	15	15	50	50
																						149	*149*	*650*	*640*
	0003	B11	DF			1	26.0	4	86	4	117	149			112	40	2	.920	.522	26.13	18.52	109	109	530	510
						BA = 33.61					T/A = 9.116				212	40		.920	.522	18.52	14.00	54	54	240	240
															313	38		.920	.522	14.00	7.40	23	23	70	70
																						185	*185*	*840*	*820*
	0004	B11	DF			1	22.0	4	86	4	114	145			112	40	1	.920	.522	22.10	15.62	77	77	360	350
						BA = 33.61					T/A = 12.732				213	40		.920	.522	15.62	11.61	38	38	180	180
															313	32		.920	.522	11.61	6.79	14	14	50	50
																						129	*129*	*590*	*580*
PLOT						BA = 134.44					T/A = 38.205											6,726	6,726	31,460	30,930
0020	0001	B11	DF			1	26.0	4	86	4	123	157			112	40		.920	.522	26.15	18.65	109	109	530	530
						BA = 33.61					T/A = 9.116				212	40		.920	.522	18.65	14.48	57	57	290	290
															313	40		.920	.522	14.48	8.23	28	28	90	90
																						194	*194*	*910*	*910*
	0002	B11	DF			1	21.0	4	85	4	110	139			112	40	1	.920	.522	21.24	14.65	69	69	290	280
						BA = 33.61					T/A = 13.973				213	40		.920	.522	14.65	10.63	32	32	150	150
															314	28		.920	.522	10.63	6.39	10	10	30	30
																						112	*112*	*470*	*460*
	0003	B11	DF			1	23.0	4	86	4	119	151			112	40		.920	.522	23.12	16.43	86	86	400	400
						BA = 33.61					T/A = 11.649				212	40		.920	.522	16.43	12.53	44	44	200	200
															313	38		.920	.522	12.53	6.92	19	19	60	60
																						148	*148*	*660*	*660*
	0004	B11	DF			1	20.0	4	86	4	108	137			112	40		.920	.522	20.07	14.08	65	65	290	290
						BA = 33.61					T/A = 15.406				213	40		.920	.522	14.08	10.08	32	32	150	150
															314	26		.920	.522	10.08	6.16	10	10	30	30
																						107	*107*	*470*	*470*
	0005	B11	DF			1	21.0	4	87	4	117	149			112	40	1	.920	.522	20.95	15.14	68	68	360	350
						BA = 33.61					T/A = 13.973				213	40		.920	.522	15.14	11.44	38	38	180	180
															313	36	1	.920	.522	11.44	6.39	15	15	60	50
																						121	*121*	*600*	*580*
	0006	B11	DF			1	19.0	4	86	G	101	131			112	40	1	.920	.522	19.05	13.28	58	58	240	240
						BA = 33.61					T/A = 17.070				213	38		.920	.522	13.28	9.43	26	26	110	110
															314	22		.920	.522	9.43	6.11	7	7	30	30
																						91	*91*	*380*	*380*
	0007	B11	DF			1	25.0	4	86	4	116	147			112	40	1	.920	.522	25.12	17.79	100	100	460	450
						BA = 33.61					T/A = 9.860				213	40		.920	.522	17.79	13.37	50	50	240	240
															313	34		.920	.522	13.37	7.71	20	20	60	60
																						170	*170*	*760*	*750*
PLOT						BA = 235.27					T/A = 91.047											11,627	11,627	52,156	51,638
0021	0001	B11	DF			2	21.8	4	86	G	107	138			1xx	37						125	125	565	563
		Count				BA = 67.22					T/A = 26.014											*125*	*125*	*565*	*563*
	0002	B11	RA			1	18.0	4	89	H	52	67			11K	40		.953	.555	17.92	10.81	42	42	150	150
						BA = 33.61					T/A = 19.019											*42*	*42*	*150*	*150*
	0003	B11	RA			1	16.0	4	89	H	50	69			11K	40		.953	.555	15.95	9.75	33	33	120	120
						BA = 33.61					T/A = 24.071											*33*	*33*	*120*	*120*
	0004	B11	RA			1	15.0	4	89	H	47	67			11K	40		.953	.555	14.93	8.97	28	28	90	90
						BA = 33.61					T/A = 27.388											*28*	*28*	*90*	*90*
PLOT						BA = 168.05					T/A = 96.492											5,637	5,637	22,917	22,860
0022	0001	B11	DF			1	25.0	4	87	4	125	159			112	40		.920	.522	24.97	18.18	98	98	530	530
						BA = 33.61					T/A = 9.860				212	40		.920	.522	18.18	14.23	57	57	290	290
															313	40		.920	.522	14.23	8.36	28	28	90	90
																						183	*183*	*910*	*910*
	0002	B11	DF			1	19.0	4	87	G	108	140			112	40		.920	.522	18.94	13.57	54	54	240	240
						BA = 33.61					T/A = 17.070				213	40		.920	.522	13.57	9.87	27	27	120	120
															314	24		.920	.522	9.87	6.59	8	8	30	30

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

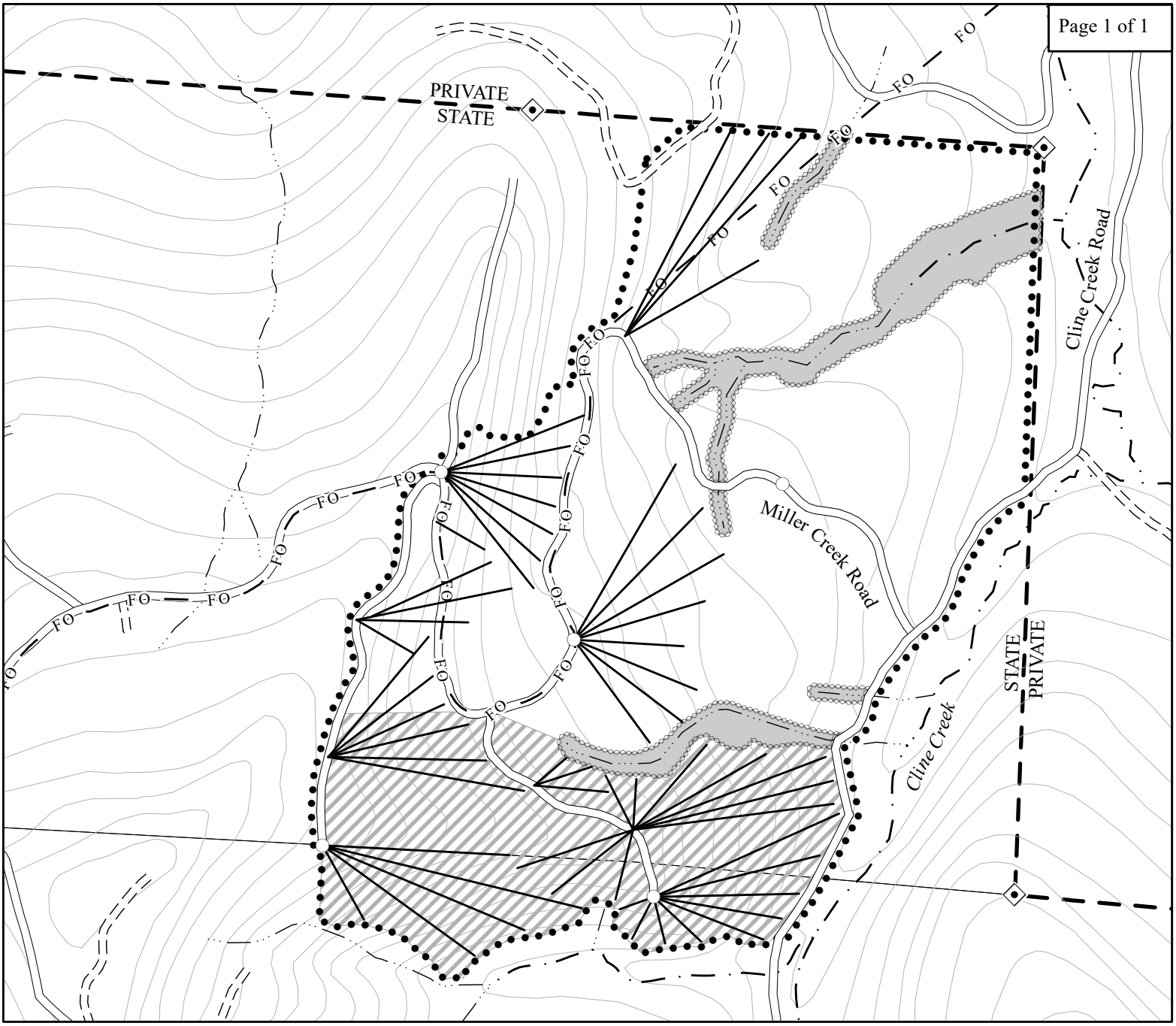
Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	T D	Bole Hgt	Tot. Hg	PRDVT	S SG	Len	FIFI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
																					89	*89*	*390*	*390*
0022	0003	B1	1	DF		1	20.0	4	87	4	112	142		112	40		.920	.522	19.94	14.32	61	61	290	290
							BA = 33.61				T/A = 15.406			213	40		.920	.522	14.32	10.53	32	32	150	150
														314	30		.920	.522	10.53	6.24	11	11	40	40
																					104	*104*	*480*	*480*
	0004	B1	1	DF		1	25.0	4	87	4	120	153		112	40		.920	.522	24.95	18.08	98	98	530	530
							BA = 33.61				T/A = 9.860			212	40		.920	.522	18.08	13.86	54	54	240	240
														313	40		.920	.522	13.86	7.42	24	24	70	70
																					176	*176*	*840*	*840*
	0005	B1	1	DF		1	23.0	4	86	4	121	154		112	40		.920	.522	23.13	16.46	86	86	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.46	12.68	44	44	200	200
														313	40		.920	.522	12.68	6.93	20	20	60	60
																					149	*149*	*660*	*660*
	0006	B1	1	DF		1	31.0	4	85	4	127	162		112	40	1	.920	.522	31.42	22.07	158	158	840	810
							BA = 33.61				T/A = 6.412			212	40		.920	.522	22.07	17.41	84	84	460	460
														313	40		.920	.522	17.41	10.54	42	42	150	150
																					284	*284*	*1450*	*1420*
	0007	B1	1	DF		1	23.0	4	87	4	120	153		112	40		.920	.522	22.96	16.64	81	81	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.64	12.75	44	44	200	200
														313	40		.920	.522	12.75	6.83	20	20	60	60
																					144	*144*	*660*	*660*
	0008	B1	1	DF		1	22.0	4	86	4	116	147		112	40		.920	.522	22.11	15.65	77	77	360	360
							BA = 33.61				T/A = 12.732			213	40	1	.920	.522	15.65	11.77	38	38	180	180
														314	34		.920	.522	11.77	6.79	15	15	50	50
																					130	*130*	*590*	*590*
PLOT							BA = 268.88				T/A = 94.637										13,545	13,545	63,493	63,300
0023	0001	B1	1	DF		1	28.0	4	86	4	123	157		112	40		.920	.522	28.16	20.09	129	129	700	700
							BA = 33.61				T/A = 7.860			212	40		.920	.522	20.09	15.60	68	68	360	360
														313	40		.920	.522	15.60	8.86	32	32	90	90
																					229	*229*	*1150*	*1150*
	0002	B1	1	DF		1	24.0	4	87	4	125	159		112	40		.920	.522	23.97	17.45	89	89	460	460
							BA = 33.61				T/A = 10.698			212	40		.920	.522	17.45	13.66	50	50	240	240
														313	40		.920	.522	13.66	8.03	25	25	90	90
																					165	*165*	*790*	*790*
	0003	B1	1	DF		1	24.0	4	86	4	121	154		112	40		.920	.522	24.13	17.18	94	94	460	460
							BA = 33.61				T/A = 10.698			212	40		.920	.522	17.18	13.23	50	50	240	240
														313	40		.920	.522	13.23	7.23	24	24	70	70
																					168	*168*	*770*	*770*
PLOT							BA = 100.83				T/A = 29.257										5,358	5,358	25,729	25,729
0024	0001	B1		DF		7	21.8	4	86	G	107	138		1xx	37						125	125	565	563
				Count			BA = 235.27				T/A = 91.048										*125*	*125*	*565*	*563*
PLOT							BA = 235.27				T/A = 91.048										11,375	11,375	51,486	51,289
0025	0001	B1		DF		5	21.8	4	86	G	107	138		1xx	37						125	125	565	563
				Count			BA = 168.05				T/A = 65.034										*125*	*125*	*565*	*563*
PLOT							BA = 168.05				T/A = 65.034										8,125	8,125	36,776	36,635
0026	0001	B1	1	DF		1	20.0	4	86	4	110	139		112	40		.920	.522	20.08	14.12	65	65	290	290
							BA = 33.61				T/A = 15.406			213	40		.920	.522	14.12	10.25	32	32	150	150
														314	28		.920	.522	10.25	6.16	10	10	30	30
																					108	*108*	*470*	*470*
	0002	B1	1	DF		1	23.0	4	86	4	115	146		112	40		.920	.522	23.11	16.35	86	86	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.35	12.22	44	44	200	200
														313	34		.920	.522	12.22	6.91	17	17	50	50
																					146	*146*	*650*	*650*
	0003	B1	1	DF		1	23.0	4	86	4	112	142		112	40		.920	.522	23.10	16.28	86	86	400	400
							BA = 33.61				T/A = 11.649			213	38		.920	.522	16.28	12.22	41	41	190	190
														314	34		.920	.522	12.22	6.70	17	17	50	50
																					144	*144*	*640*	*640*
	0004	B1	1	DF		1	23.0	4	86	4	115	146		112	40		.920	.522	23.11	16.35	86	86	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.35	12.22	44	44	200	200
														313	34		.920	.522	12.22	6.91	17	17	50	50
																					146	*146*	*650*	*650*

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	D	Bole Hgt	Tot. Hg	PRDVT	S	SG	Len	FIFI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
PLOT							BA = 134.44				T/A = 50.352											6,734	6,734	29,840	29,840
0027	0001	B11	DF			6	21.8	4	86	G	107	138		1	xx	37						125	125	565	563
	Count						BA = 201.66				T/A = 78.041											*125*	*125*	*565*	*563*
	0002	B11	RA			1	16.2	4	89	H	49	68		1	xx	40						34	34	116	116
	Count						BA = 33.61				T/A = 23.493											*34*	*34*	*116*	*116*
PLOT							BA = 235.27				T/A = 101.534											10,546	10,546	46,866	46,698
0028	0001	B11	DF			1	26.0	4	86	4	126	161		1	12	40		.920	.522	26.16	18.71	109	109	530	530
							BA = 33.61				T/A = 9.116			2	12	40		.920	.522	18.71	14.70	57	57	290	290
														3	13	40		.920	.522	14.70	8.78	28	28	90	90
																						194	*194*	*910*	*910*
	0002	B11	DF			1	28.0	4	86	4	129	165		1	12	40		.920	.522	28.19	20.21	129	129	700	700
							BA = 33.61				T/A = 7.860			2	12	40		.920	.522	20.21	16.05	72	72	400	400
														3	13	40		.920	.522	16.05	9.99	37	37	120	120
																						237	*237*	*1220*	*1220*
	0003	B11	DF			1	23.0	4	86	4	117	149		1	12	40		.920	.522	23.12	16.39	86	86	400	400
							BA = 33.61				T/A = 11.649			2	12	40		.920	.522	16.39	12.38	44	44	200	200
														3	13	36		.920	.522	12.38	6.92	18	18	60	60
																						147	*147*	*660*	*660*
	0004	B11	DF			1	28.0	4	86	4	127	162		1	12	40		.920	.522	28.18	20.17	129	129	700	700
							BA = 33.61				T/A = 7.860			2	12	40		.920	.522	20.17	15.91	68	68	360	360
														3	13	40		.920	.522	15.91	9.64	33	33	120	120
																						231	*231*	*1180*	*1180*
PLOT							BA = 134.44				T/A = 36.485											7,162	7,162	34,848	34,848
0029	0001	B11	DF			1	20.0	4	86	4	104	132		1	12	40		.920	.522	20.06	13.99	62	62	240	240
							BA = 33.61				T/A = 15.406			2	13	38		.920	.522	13.99	9.96	26	26	110	110
														3	14	24		.920	.522	9.96	6.15	8	8	30	30
																						96	*96*	*380*	*380*
	0002	B11	DF			1	29.0	4	86	4	115	146		1	12	40		.920	.522	29.14	20.61	135	135	700	700
							BA = 33.61				T/A = 7.327			2	12	40		.920	.522	20.61	15.41	68	68	360	360
														3	13	36		.920	.522	15.41	8.23	28	28	80	80
																						232	*232*	*1140*	*1140*
	0003	B11	DF			1	20.0	4	86	4	105	133		1	12	40		.920	.522	20.06	14.01	65	65	290	290
							BA = 33.61				T/A = 15.406			2	13	38		.920	.522	14.01	10.06	31	31	140	140
														3	14	24		.920	.522	10.06	6.33	9	9	30	30
																						105	*105*	*460*	*460*
	0004	B11	DF			1	21.0	4	86	4	100	126		1	12	40		.920	.522	21.04	14.58	69	69	290	290
							BA = 33.61				T/A = 13.973			2	13	40		.920	.522	14.58	9.75	30	30	120	120
														3	14	18		.920	.522	9.75	6.45	6	6	20	20
																						105	*105*	*430*	*430*
	0005	B11	DF			1	25.0	4	86	4	110	139		1	12	40		.920	.522	25.10	17.65	100	100	460	460
							BA = 33.61				T/A = 9.860			2	12	40		.920	.522	17.65	12.81	47	47	200	200
														3	13	28		.920	.522	12.81	7.70	15	15	50	50
																						162	*162*	*710*	*710*
	0006	B11	DF			1	20.0	4	86	4	98	124		1	12	40		.920	.522	20.03	13.83	62	62	240	240
							BA = 33.61				T/A = 15.406			2	13	40		.920	.522	13.83	9.05	27	27	120	120
														3	14	16		.920	.522	9.05	6.14	5	5	20	20
																						94	*94*	*380*	*380*
	0007	B11	DF			1	18.0	4	86	G	87	115		1	13	40	1	.920	.522	18.00	12.26	47	47	200	190
							BA = 33.61				T/A = 19.019			2	14	40		.920	.522	12.26	7.28	21	21	70	70
																						68	*68*	*270*	*260*
PLOT							BA = 235.27				T/A = 96.397											10,605	10,605	45,292	45,102
0030	0001	B11	DF			6	21.8	4	86	G	107	138		1	xx	37						125	125	565	563
	Count						BA = 201.66				T/A = 78.041											*125*	*125*	*565*	*563*
	0002	B11	RA			1	16.2	4	89	H	49	68		1	xx	40						34	34	116	116
	Count						BA = 33.61				T/A = 23.493											*34*	*34*	*116*	*116*
PLOT							BA = 235.27				T/A = 101.534											10,546	10,546	46,866	46,698
0031	0001	B11	DF			1	17.0	4	86	G	86	116		1	13	40		.920	.522	17.00	11.62	45	45	180	180
							BA = 33.61				T/A = 21.323			2	13	40		.920	.522	11.62	7.05	19	19	70	70

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CRUISED DATE	CuFt	BdFt
11S	08W	17	LI	00MC	96.00	33	107	7/1/2022	S	W

Plot	Tree No.	PF	A	Spc	S	C T	DBH	FF	FF	T D	Bole Hgt	Tot. Hg	PRDVT	S SG	Len	FIFI	Bark	Ao	Dia Butt	Dia Top	Gross CuFt	Net CuFt	Gross BdFt	Net BdFt
																					63	*63*	*250*	*250*
0031	0002	B11		DF		1	31.0	4	86	4	123	157		112	40		.920	.522	31.18	22.24	158	158	840	840
							BA = 33.61				T/A = 6.412			212	40		.920	.522	22.24	17.27	84	84	460	460
														313	40		.920	.522	17.27	9.81	40	40	120	120
																					282	*282*	*1420*	*1420*
	0003	B11		DF		1	16.0	4	86	G	86	120		113	40		.920	.522	16.01	11.01	41	41	180	180
							BA = 33.61				T/A = 24.071			213	40		.920	.522	11.01	6.97	17	17	60	60
																					58	*58*	*240*	*240*
	0004	B11		DF		1	24.0	4	86	4	117	149		112	40		.920	.522	24.12	17.10	94	94	460	460
							BA = 33.61				T/A = 10.698			212	40		.920	.522	17.10	12.92	47	47	200	200
														313	34		.920	.522	12.92	7.60	18	18	60	60
																					159	*159*	*720*	*720*
	0005	B11		DF		1	17.0	4	86	G	95	129		113	40		.920	.522	17.04	11.85	45	45	180	180
							BA = 33.61				T/A = 21.323			213	40		.920	.522	11.85	8.09	20	20	90	90
														314	14		.920	.522	8.09	6.16	4	4	20	20
																					69	*69*	*290*	*290*
	0006	B11		DF		1	26.0	4	86	4	116	147		112	40		.920	.522	26.13	18.50	109	109	530	530
							BA = 33.61				T/A = 9.116			212	40		.920	.522	18.50	13.91	54	54	240	240
														343	36		.920	.522	13.91	7.60	21	21	60	60
																					184	*184*	*830*	*830*
	0007	B11		DF		1	22.0	4	86	4	112	142		112	40		.920	.522	22.09	15.57	77	77	360	360
							BA = 33.61				T/A = 12.732			213	40		.920	.522	15.57	11.45	38	38	180	180
														313	32		.920	.522	11.45	6.41	14	14	50	50
																					129	*129*	*590*	*590*
PLOT							BA = 235.27				T/A = 105.675										11,052	11,052	49,178	49,178
0032	0001	B11		DF		6	21.8	4	86	G	107	138		1xx	37						125	125	565	563
		Count					BA = 201.66				T/A = 78.041										*125*	*125*	*565*	*563*
PLOT							BA = 201.66				T/A = 78.041										9,750	9,750	44,131	43,962
0033	0001	B11		DF		1	27.0	4	86	4	120	153		112	40		.920	.522	27.15	19.30	119	119	600	600
							BA = 33.61				T/A = 8.453			212	40		.920	.522	19.30	14.80	61	61	290	290
														313	40		.920	.522	14.80	7.92	27	27	70	70
																					206	*206*	*960*	*960*
	0002	B11		DF		1	26.0	4	86	4	117	149		112	40		.920	.522	26.13	18.52	109	109	530	530
							BA = 33.61				T/A = 9.116			212	40		.920	.522	18.52	14.00	54	54	240	240
														313	36		.920	.522	14.00	7.82	21	21	60	60
																					184	*184*	*830*	*830*
	0003	B11		DF		1	23.0	4	86	4	116	147		112	40		.920	.522	23.11	16.37	86	86	400	400
							BA = 33.61				T/A = 11.649			212	40		.920	.522	16.37	12.30	44	44	200	200
														313	36		.920	.522	12.30	6.73	18	18	60	60
																					147	*147*	*660*	*660*
	0004	B11		DF		1	19.0	4	86	G	92	119		112	40		.920	.522	19.01	13.04	58	58	240	240
							BA = 33.61				T/A = 17.070			213	32		.920	.522	13.04	9.32	22	22	90	90
														314	16		.920	.522	9.32	6.62	5	5	20	20
																					85	*85*	*350*	*350*
	0005	B11		DF		1	20.0	4	86	I	85	121		112	40		.920	.522	20.02	13.77	62	62	240	240
							BA = 33.61				T/A = 15.406			213	40		.920	.522	13.77	8.77	25	25	90	90
																					87	*87*	*330*	*330*
	0006	B11		DF		1	21.0	4	86	4	115	146		112	40		.920	.522	21.10	14.92	69	69	290	290
							BA = 33.61				T/A = 13.973			213	40		.920	.522	14.92	11.16	35	35	180	180
														313	34		.920	.522	11.16	6.31	15	15	50	50
																					119	*119*	*520*	*520*
	0007	B11		DF		1	18.0	4	86	G	90	119		112	40		.920	.522	18.01	12.35	51	51	200	200
							BA = 33.61				T/A = 19.019			213	34		.920	.522	12.35	8.56	19	19	70	70
														314	14		.920	.522	8.56	6.27	4	4	20	20
																					74	*74*	*290*	*290*
PLOT							BA = 235.27				T/A = 94.686										10,998	10,998	47,210	47,210
TYPE							BA = 187.40				T/A = 74.294										8,910	8,910	40,174	40,023



Legend

- Ownership
- Timber Sale Boundary

Streams
- Type F Stream
- Type N Stream
- Stream Buffer Posted

Roads
- Surfaced Road
- Unsurfaced Road
- FO Fiber Optic Line
- Cable Corridor
- Felling Restriction Area
- Landing
- Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2023-W00995-01
LOW INCLINE
PORTIONS OF SECTIONS 17 & 20, T11S, R08W, W.M.,
LINCOLN COUNTY, OREGON

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Scale

1:6,000

0 250 500 1,000 1,500 Feet

AREA	NET CABLE ACRES	NET TRACTOR ACRES
1 (MC)	42	54
TOTAL	42	54

N

Date: 09/21/2022