

Sale KL-341-2020-W00774-01

District: Klamath/Lake Date: February 11, 2020

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$212,675.11	\$0.00	\$212,675.11
		Project Work:	(\$18,421.51)
		Advertised Value:	\$194,253.60



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#### **Timber Description**

Location: Portions of Sections 19, 30, and 31, Township 32S Range 7.5E, W.M., Klamath County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	95
Ponderosa Pine	21	0	97
Lodgepole Pine	14	0	90

Volume by Grade	28	3S & 4S 6"- 11"	3S 12"+	6" - 11"	12"-15"	16"+	Camprun	Total
White Fir	18	49	10	0	0	0	0	77
Ponderosa Pine	0	0	0	420	385	696	0	1,501
Lodgepole Pine	0	0	0	0	0	0	628	628
Total	18	49	10	420	385	696	628	2,206

**Comments:** Pond Values Used: Local Pond Values, December 2019.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

Other Costs (with Profit & Risk to be added): None

ROAD MAINTENANCE Move-in: \$500.00

General Road Maintenance: 6 miles x \$211.00 per mile x 1 bladings = \$1,266.00

Total Road Maintenance: \$1,766.00, \$0.80 per Mbf



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**Logging Conditions** 

Combination#: 1 White Fir 94.00%

Ponderosa Pine 63.00% Lodgepole Pine 100.00%

Logging System: Wheel Skidder Process: Feller Buncher

yarding distance: Medium (800 ft) downhill yarding: Yes

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

loads / day: 10 bd. ft / load: 4000

cost / mbf: \$94.92

machines: Log Loader (B)

Stroke Delimber (B)
Feller Buncher w/ Delimber

Tire Skidder

Combination#: 2 White Fir 6.00%

Ponderosa Pine 37.00%

Logging System: Track Skidder Process: Manual Falling/Delimbing

yarding distance: Medium (800 ft) downhill yarding: Yes

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

loads / day: 9 bd. ft / load: 4100

cost / mbf: \$119.53

machines: Log Loader (B)

Track Skidder



## Sale KL-341-2020-W00774-01

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## **Logging Costs**

**Operating Seasons:** 1.00

Profit Risk: 10%

**Project Costs:** \$18,421.51

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$0.00

#### Miles of Road

Road Maintenance:

\$0.80

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

#### **Hauling Costs**

Species	\$/MBF	Trips/Day	MBF / Load
White Fir	\$0.00	3.0	4.2
Ponderosa Pine	\$0.00	3.0	4.2
Lodgepole Pine	\$0.00	2.0	3.8



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## **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
White Fir									
\$96.40	\$0.84	\$1.99	\$79.17	\$0.00	\$17.84	\$0.00	\$2.00	\$0.00	\$198.24
Ponderosa	Pine								
\$104.03	\$0.82	\$1.99	\$77.66	\$0.00	\$18.45	\$0.00	\$2.00	\$0.00	\$204.95
Lodgepole	Pine								
\$94.92	\$0.88	\$1.99	\$137.50	\$0.00	\$23.53	\$0.00	\$2.00	\$0.00	\$260.82

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$364.03	\$165.79	\$0.00
Ponderosa Pine	\$0.00	\$309.19	\$104.24	\$0.00
Lodgepole Pine	\$0.00	\$330.00	\$69.18	\$0.00



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### **Summary**

#### Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
White Fir	77	\$165.79	\$12,765.83
Ponderosa Pine	1,501	\$104.24	\$156,464.24
Lodgepole Pine	628	\$69.18	\$43,445.04

## **Gross Timber Sale Value**

**Recovery:** \$212,675.11

Prepared By: James Monteil Phone: 541-883-5681

## Other Costs

Other costs						
	Road Maintenance					
Move-in cost (grader):	\$500.00					
Number of Miles to be Bladed:	6.0					
Number of Bladings:	1					
Total Miles	6.0					
Miles / Hour for equipment:	0.5					
Cost / Hour (grader with operator):	\$105.50					
Total Grading Hours:	12					
Grading Cost:	\$1,266.00					
_	\$1,766.00					
 Total Cost:	\$1,766.00					
Cost / Mbf:	\$0.80					

# **Project Costs**

		Pi	roject #1 Dust Abaten	nent				
PP	1501 Mbf	68.0%	Average Load	4.2 Mbf	No. of Loads	357		
LP	628 Mbf	28.5%	Average Load	3.8 Mbf	No. of Loads	165		
WF	77 Mbf	3.5%	Average Load	4.2 Mbf	No. of Loads	18		
Total:	2206 Mbf				Total Loads	541		
Assume:	6 Trucks/	Day						
2 Trips/Day				45 Days of Dust Abatement				
	12 Loads p	er Day		1.5 Hours/Day				
	45 Hauling	Days		\$88.00 Cost/Hour				
				68 Total Hours				
				\$200.00 Move in for Water Truck				
				\$6,150.75 Dust Abatement Cost				
				\$6,150.75 Total Cost				
				\$2.79 Cost/M	bf			

#### Project #2 Road Improvement

Move in Cost Dozer: \$500.00

#### Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	3781	1000	3.8	\$132.50	\$500.98
Open/Clear/Shape	C to D	3684	1000	3.7	\$132.50	\$488.13
Open/Clear/Shape	E to F	3069	1000	3.1	\$132.50	\$406.64
	Total	10534			Total	\$1,395,76

#### Project #2 Summary

<b>Equipment Costs</b>	\$500.00
Improvement Costs	\$1,395.76
Project #2 Total	\$1,895.76

## **Project Costs**

#### Project #3 Fell, Skid, and Pile Submerchantable Material

Total Sub-Sawlog Volume: 32 MBF

Fell and Skid/MBF: \$65.00

Sort/MBF: \$15.00

Total \$2,560.00

per MBF \$1.16

#### Landing Piling

Number of Landings: 17

Shovel Time: 1 Hour per Landing Cost per Hour: \$125.00 Total Cost \$2,125.00

Cat Time: 1 Hour per Landing Cost per Hour: \$132.50 Total Cost \$2,252.50

**Total \$4,377.50** per MBF \$1.98

#### Project #3 Summary

 Landing Piling
 \$4,377.50

 Total Cost
 \$4,377.50

 per Mbf
 \$1.98

## **Project Costs**

#### Project #4 Road Closures

#### **Road Closures**

3 Number of Closure Points - Point A, C, and E

\$132.50 Cost per Hour (Cat)

\$397.50 Total

\$0.18 per Mbf

#### Project #5 Slash and Brush Piling

Equipment Move In: \$500.00

 Acres to be Piled
 30

 Hours per Acre
 2

 Cost per Hour
 \$85.00

 Cost of Piling
 \$5,100.00

 Total Cost
 \$5,600.00

 per Mbf
 \$2.54

# Seaside KL-341-2020-W00774-01 *Project Costs*

Project No. 1 - Dust Abatement	\$6,150.75	
Project No. 2 - Road Improvement	\$1,895.76	
Project No. 3 - Fell, Skid, and Pile Submerch	\$4,377.50	
Project No.4- Road Closures	\$397.50	
Project No.5- Slash and Brush Piling	\$5,600.00	
Total Cost _	\$18,421.51	
ner Mhf	\$8.35	

# **Seaside**

#### KL-341-2020-W00774 Cruise Report



**SALE NAME**: Seaside

#### **LEGAL DESCRIPTION:**

Section(s) 19, 30, 31 of Township 32S, Range 7.5E, and Section(s) 25 of Township 32S, Range 6E, Willamette Meridian, Klamath County, Oregon.

#### ACREAGE:

The timber sale is 355 acres and was cruised as two separate stands.

Stand	Gross Acres	Exclusion	Net Acres
111	305	0	305
116	50	0	50
Total	355	0	355

Acreage was determined using data collected using GPS and compiled using ArcMap.

#### TREATMENT:

Stand 111 is a single tree selection cut with cut trees marked with blue paint for trees 9.0 inches dbh and larger. Stand 111 is referenced in the contract as Area 1.

Stand 116 is a selection cut based on prescription by description, and is referenced in the contract as Areas 2. Area 2 is a selection cut with all lodgepole pine containing at least 20 board feet to be cut, and all blue marked ponderosa pine will be cut. Purchaser will also cut all submerchantable lodgepole down to 5 inches dbh. Requirements are listed in contract Section 2320, "Thinning Specifications".

#### **CRUISE METHOD:**

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot. Submerchantable material (5.0"to 9.0" dbh) was measured with a 1/50 acre fixed plot.

#### **BASAL AREA FACTOR:**

Stand	BAF	Type Acreage
111	13.61 BAF	305 acres
116	20 BAF	50 acres

#### **FIXED PLOT**:

Stand	Radius	Type Acreage
116	16.6	50 acres

#### **PLOT DESIGNATION:**

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

#### SAMPLE SIZE:

Stand 111: 33 Plots Stand 116: 7 Plots

Measurements and Grading:

- DBH and Height were measured on all "in" trees for measure plots.
- Submerch volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

#### TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole,

and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

#### MINIMUM D.B.H:

9.5" dbh for sawlog volume. 5.0" dbh for submerchantable material.

#### **DIAMETER STANDARDS:**

1" diameter class

#### BTR:

Standard ratios were used. See attached species tables.

#### **FORM FACTOR:**

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own form factor.

#### FORM POINT:

All trees were sighted at D.B.H.

#### **VOLUME COMPUTATION:**

All cruise data was compiled using SuperACE.

#### **FINAL CRUISE RESULTS:**

STAND	CV%	SE%	Acres
111	56.2	9.8	305
116	15.6	6.4	50
Combined	50.2	7.9	355

#### **TIMBER DESCRIPTION**

#### **SAWLOG VOLUME:**

All material graded camprun. See grade table for minimum standards.

Stand 111

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per area (Mbf)	Net Volume per area (Mbf)
Ponderosa pine	20.2	4,694	4,658	1,421	1,410
Lodgepole pine	14.7	797	797	243	243
White fir	14.6	253	253	77	77
Combined	18.1	5,744	5,707	1,741	1,730

Stand 116

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per area (Mbf)	Net Volume per area (Mbf)
Lodgepole pine	14.2	7,707	7,707	385	385
Ponderosa pine	29.2	1,855	1,830	92	91
Combined	14.9	9,561	9,537	478	477

## **TOTAL SAWLOG VOLUME**

Species	Average DBH	Gross Volume (Mbf)	Net Volume (Mbf)
Ponderosa pine	20.5	1,513	1,501
Lodgepole pine	14.4	628	628
White fir	14.6	77	77
Combined	17.1	2,219	2,206

**TOTAL NET SAWLOG VOLUME: 2,206 MBF** 

#### **GREEN PULP VOLUME:**

#### **Submerchantable Material**

This volume was obtained from the fixed plot cruise  $(5.0" - 9.0" \, \text{DBH})$  combined with all material graded as green pulp during the variable plot cruise. All material was graded green pulp, see grade table for minimum standards.

Species	Average DBH	Gross Volume (mbf)
Submerch.	6.6	32

TC TSTATS				ST PROJEC	CATIST	ICS SEASDE			PAGE DATE 2	1 2/10/2020
TWP RGE	SECT	TRACT		TYPE	ACI		PLOTS	TREES	CuFt	BdFt
032 007	30	111		VARI		305.00	33	108	1	Е
			Т	REES		ESTIMATED FOTAL		ERCENT AMPLE		
	PLOTS	TREES	P	ER PLOT		TREES	Т	REES		
TOTAL	33	108		3.3						
CRUISE	17	61		3.6		7,521		.8		
DBH COUNT										
REFOREST										
COUNT	14	45		3.2						
BLANKS	2									
100 %										
	CAMDLE	TREEC		D SUMMA		DACAI	CDOSS	NIET	CDOSS	NIET
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
P PINE	49	14.5	20.2	54	7.2	32.3	4,694	4,658	902	902
LP PINE	8	7.7	14.7	41	2.4	9.1	797	797	199	199
WHITE F	4	2.5	14.6	33	0.8	2.9	253	253	62	62
TOTAL	61	24.7	18.1	48	10.4	44.3	5,744	5,707	1,163	1,163
CL: 68.1 °		OF 100 THE VO	LUME WILI					OE TREES	DEO.	INE DOD
SD: 1.0	VAR.		LO		AVG	BF HIGH	#	OF TREES F	REQ. 10	INF. POP.
P PINE	89.6		LO	513	589	664		3	10	
LP PINE	57.6			0.10	207	00.				
	37.0	5 21.7		94	120	146				
WHITE F	135.2			94 48	120 213	146 377				
WHITE F TOTAL		2 77.2						408	102	2
	135.2 101.1	2 77.2 1 12.9		48 <i>437</i>	213	377 567	#	408 OF TREES F		INF. POP.
TOTAL	135.2 101.1	2 77.2 12.9	LO	48 437 <b>SAMPLE</b>	213 502	377 567	#			INF. POP.
CL: 68.1 S SD: 1.0 P PINE	135.2 101.1 % COEF	2 77.2 12.9 FF % S.E.%	LO	48 437 <b>SAMPLE</b> W 96	213 502 TREES - AVG 108	377 567 <b>CF</b> HIGH 120	#	OF TREES F	REQ.	INF. POP.
TOTAL         CL:       68.1 °         SD:       1.0         P PINE       LP PINE	135.2 101.1 % COEF VAR.• 79.7 43.4	77.2 12.9 FF % S.E.% 7 11.4 4 16.4	LO	48 437 <b>SAMPLE</b> W 96 24	213 502 TREES - AVG 108 29	377 567 <b>CF</b> HIGH 120 33	#	OF TREES F	REQ.	INF. POP.
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CL: 68.1 ° SD: 1.0 P PINE LP PINE WHITE F TOTAL	135.2 101.1 6 COEF VAR.6 79.7 43.4 122.7 89.3	77.2 12.9 7 12.9 8 S.E.% 7 11.4 16.4 7 70.1 8 11.4	LO	48 437 <b>SAMPLE</b> W 96 24	213 502 TREES - AVG 108 29	377 567 <b>CF</b> HIGH 120 33	#	OF TREES F	REQ.	INF. POP.
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TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE UP PINE LP PINE LP PINE LP PINE UP PINE WHITE F	135.2 101.1 6 COEF VAR.9 79.7 43.4 122.7 89.3 6 COEF VAR.9 107.7 216.3 349.4 70.9 6 COEF VAR.9 80.9 207.7 306.4	77.2 12.9 FF S.E.% 7 11.4 1 16.4 7 70.1 11.4 FF % S.E.% 7 18.7 8 37.6 4 60.8 0 12.3 FF % S.E.% 9 14.1 7 36.1 4 53.3	LO	48 437 SAMPLE W 96 24 14 83 TREES/A W 12 5 1 22 BASAL A W 28 6 1	213 502 TREES - AVG 108 29 48 94 ACRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4	#	318  FOF PLOTS F  201  FOF PLOTS F  5	80 REQ. 10 50 REQ. 10	INF. POP.
CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CH: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL	135.2 101.1 6 COEF VAR. 79.7 43.4 122.7 89.3 6 COEF VAR. 107.7 216.3 349.4 70.9 6 COEF VAR. 40.9 40.9 40.0	77.2 12.9 77.2 12.9 78 71.4 16.4 70.1 81.1.4 78 78 78 81.7 83 83.7.6 84 80.8 81.7 85.E.% 96 97 14.1 15.3 16.4 17.3 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 19.8	LO	48 437 SAMPLE W 96 24 14 83 TREES/A W 12 5 1 22 BASAL A W 28 6	213 502 TREES - AVG 108 29 48 94 CCRE AVG 15 8 2 25 AREA/ACE AVG 33 9	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12	#	318 OF PLOTS F 5 201 OF PLOTS F	80 REQ. 10 50 REQ.	INF. POP.
CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CH: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL	135.2 101.1 6 COEF VAR. 79.7 43.4 122.7 89.3 6 COEF VAR. 107.7 216.3 349.4 70.9 6 COEF VAR. 40.9 40.9 40.0	77.2 12.9 77.2 12.9 78 71.4 16.4 70.1 81.1.4 78 78 78 81.7 83 83.7.6 84 80.8 81.7 85.E.% 96 97 14.1 15.3 16.4 17.3 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 19.8	LO	48 437 SAMPLE W 96 24 14 83 TREES/A W 12 5 1 22 BASAL A W 28 6 1	213 502 TREES - AVG 108 29 48 94 ACRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3 45	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48	#	318  FOF PLOTS F  201  FOF PLOTS F  5	80 REO. 10 50 REO. 10 22	INF. POP.
TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  CL: 68.1  SD: 1.0  CL: 68.1  SD: 1.0  CL: 68.1  SD: 1.0	135.2 101.1 6 COEF  VAR.9 79.7 43.4 122.7 89.3 6 COEF  VAR.9 107.7 216.3 349.4 70.9 6 COEF  VAR.9 80.9 207.7 306.4 46.6 6 COEF	77.2 12.9 78 78 71.1.4 16.4 70.1 11.4 78 71.1.4 71.7 71.8 71	LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A	213 502 TREES - AVG 108 29 48 94 CCRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3 45 ACRE AVG	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH	#	318 318 5 OF PLOTS F 5 201 5 OF PLOTS F 5	80 REO. 10 50 REO. 10 22	INF. POP.
TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE CLP PINE CLE 68.1  SD: 1.0  P PINE CLP	135.2 101.1 6 COEF VAR.9 79.7 43.4 122.7 89.3 6 COEF VAR.9 107.7 216.3 349.4 70.9 6 COEF VAR.9 207.7 306.4 46.6 6 COEF VAR.9 83.9	77.2 12.9 FF S.E.% 7 11.4 1 16.4 7 70.1 11.4 FF % S.E.% 7 18.7 8 37.6 4 60.8 12.3 FF % S.E.% 9 14.1 7 36.1 4 53.3 6 8.1	LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008	213 502 TREES - AVG 108 29 48 94 CCRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3 45 ACRE AVG	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378	#	318  OF PLOTS F 5  201  OF PLOTS F 5	80 REQ. 10 50 REQ. 10 22 REQ.	INF. POP.  INF. POP.  INF. POP.
TOTAL  CL: 68.1   P PINE  LP PINE  TOTAL  CL: 68.1   SD: 1.0  P PINE  LP PINE  WHITE F  TOTAL  CL: 68.1   SD: 1.0  P PINE  LP PINE  WHITE F  TOTAL  CL: 68.1   SD: 68.1   TOTAL  CL: 68.1   TOTAL	135.2 101.1 6 COEF VAR.9 79.7 43.4 122.7 89.3 6 COEF VAR.9 107.7 216.3 349.4 70.9 6 COEF VAR.9 80.9 207.7 306.4 46.6 6 COEF VAR.9 83.9 216.7	77.2 12.9 78 78 71.4 16.4 70.1 11.4 77 70.1 11.4 78 78 88 90 12.3 79 88 90 14.1 70 14.1 70 18.7 19.7	LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008 497	213 502 TREES - AVG 108 29 48 94 ACRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3 45 ACRE AVG 4693 797	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378 1,097	#	318  OF PLOTS F 5  201  OF PLOTS F 5	80 REQ. 10 50 REQ. 10 22 REQ.	INF. POP.  INF. POP.  INF. POP.
TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE WHITE F TOTAL  CL: 68.1  SD: 1.0  P PINE LP PINE CLP PINE CLE 68.1  SD: 1.0  P PINE CLP	135.2 101.1 6 COEF VAR.9 79.7 43.4 122.7 89.3 6 COEF VAR.9 107.7 216.3 349.4 70.9 6 COEF VAR.9 80.9 207.7 306.4 46.6 6 COEF VAR.9 83.9 216.7 286.2	2 77.2 12.9  FF  S.E.%  7 11.4  1 16.4  7 70.1  8 11.4  FF  % S.E.%  7 18.7  8 37.6  4 60.8  9 12.3  FF  % S.E.%  9 14.1  7 36.1  4 53.3  6 8.1  FF  % S.E.%  9 14.6  7 37.7  9 49.8	LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008 497 127	213 502  TREES - AVG 108 29 48 94  CCRE AVG 15 8 2 25  CREA/ACE AVG 33 9 3 45  ACRE AVG 4,693 797 253	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378	#	318 318 318 318 318 318 318 318 318 318	80 REO. 10 50 REQ. 10 22 REO. 10	INF. POP.  INF. POP.  INF. POP.
CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CL: 68.1 S SD: 1.0 P PINE LP PINE WHITE F TOTAL  CHECK TOTAL	135.2 101.1 6 COEF VAR. 79.7 43.4 122.7 89.3 6 COEF VAR. 107.7 216.3 349.4 70.9 6 COEF VAR. 80.9 207.7 306.4 46.6 6 COEF VAR. 83.9 216.7 286.2 56.2	77.2 12.9 78 78 71.4 41.4 16.4 70.1 81.1.4 87 88.1 89 81.2.3 81.7 81.7 82.8 83.3 84.6 85.8 86.8 87.7 88.1 88.1 88.1 88.1 88.1 88.1 88.2 88.2 88.2 88.2 88.2 88.3 88.1 88.2 88.2 88.3 88.4	LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008 497 127 5,182	213 502 TREES - AVG 108 29 48 94 ACRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3 45 ACRE AVG 33 9 3 45 ACRE AVG 48 48 2 25 ACRE AVG 33 9 3 45 45 45 45 46 47 47 48 48 48 48 48 48 48 48 48 48	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378 1,097 379 6,304	#	318 318 OF PLOTS F 5 201 OF PLOTS F 5 47 OF PLOTS F 5	80 REQ. 10  50 REQ. 10  22 REQ. 10  32	INF. POP.  INF. POP.  INF. POP.
TOTIN  CL: 68.1 °  F PINE  LP PINE  TOTIN  CL: 68.1 °  SD: 1.0  P PINE  LP PINE  WHITE F  TOTIN  CL: 68.1 °  SD: 1.0  P PINE  LP PINE  WHITE F  TOTIN  CL: 68.1 °  CL: 68.1 °  CR: 68.1 °	135.2 101.1 6 COEF  VAR.9 79.7 43.4 122.7 89.3 6 COEF  VAR.9 107.7 216.3 349.4 70.9 6 COEF  VAR.9 80.9 207.7 306.4 46.6 6 COEF  VAR.9 83.9 216.7 286.2 56.2	77.2 12.9  FF  S.E.% 7 11.4 16.4 7 70.1 11.4 FF  S.E.% 7 18.7 37.6 4 60.8 12.3 FF  S.E.% 9 14.1 7 36.1 4 53.3 8.1 FF  S.E.% 9 14.6 7 37.7 2 49.8 9 9.8	LO LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008 497 127 5,182  NET CUI	213 502  TREES - AVG 108 29 48 94  CCRE AVG 15 8 2 25  AREA/ACE AVG 33 9 3 45  ACRE AVG 4,693 797 253 5,743  ET FT/ACI	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378 1,097 379 6,304  RE	#	318  OF PLOTS F 5  201  OF PLOTS F 5  87  OF PLOTS F 5	80 REQ. 10  50 REQ. 10  22 REQ. 10  32 REQ.	INF. POP.  INF. POP.  INF. POP.
TOTINE  CL: 68.1 °  P PINE  LP PINE  WHITE F  TOTINE  LP PINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0  P PINE  LP PINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0  P PINE  LP PINE  WHITE F  TOTINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0  P PINE  WHITE F  TOTINE  WHITE F  TOTINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0  P PINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0  P PINE  WHITE F  TOTINE  CL: 68.1 °  SD: 68.1	135.2 101.1 6 COEF VAR.9 79.7 43.4 122.7 89.3 6 COEF VAR.9 107.7 216.3 349.4 70.9 6 COEF VAR.9 80.9 207.7 306.4 46.6 6 COEF VAR.9 83.9 216.7 286.2 56.2	77.2 12.9  FF  S.E.% 7 11.4 16.4 7 70.1 11.4 FF  S.E.% 7 18.7 37.6 4 60.8 12.3 FF  S.E.% 9 14.1 7 36.1 4 53.3 8.1 FF  S.E.% 9 14.6 7 37.7 2 49.8 9 .8 9 8 9 8 9 8 9 8 9 8	LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008 497 127 5,182  NET CUI	213 502  TREES - AVG 108 29 48 94 ACRE AVG 15 8 2 25 AREA/ACE AVG 33 9 3 45 ACRE AVG 4,693 797 253 5,743  ET FT/ACI AVG	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378 1,097 379 6,304  RE HIGH	#	318 318 OF PLOTS F 5 201 OF PLOTS F 5 47 OF PLOTS F 5	80 REQ. 10  50 REQ. 10  22 REQ. 10  32	INF. POP.  INF. POP.  INF. POP.
TOTINE  CL: 68.1 °  F PINE  LP PINE  WHITE F  TOTINE  LP PINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0 °  P PINE  LP PINE  WHITE F  TOTINE  CL: 68.1 °  SD: 1.0 °  P PINE  LP PINE  WHITE F  TOTINE  CL: 68.1 °  CL: 68.1 °  CR:	135.2 101.1 6 COEF  VAR.9 79.7 43.4 122.7 89.3 6 COEF  VAR.9 107.7 216.3 349.4 70.9 6 COEF  VAR.9 80.9 207.7 306.4 46.6 6 COEF  VAR.9 83.9 216.7 286.2 56.2	77.2 12.9  F  S.E.%  7 11.4 16.4 7 70.1 11.4 F  S.E.% 7 18.7 3.7.6 4 60.8 12.3 F  S.E.% 9 14.1 7 36.1 4 53.3 6 8.1 F  % S.E.% 9 14.6 7 37.7 2 49.8 9 9.8 F  % S.E.% 6 14.6	LO LO	48 437  SAMPLE W 96 24 14 83  TREES/A W 12 5 1 22  BASAL A W 28 6 1 41  NET BF/A W 4,008 497 127 5,182  NET CUI	213 502  TREES - AVG 108 29 48 94  CCRE AVG 15 8 2 25  AREA/ACE AVG 33 9 3 45  ACRE AVG 4,693 797 253 5,743  ET FT/ACI	377 567  CF HIGH 120 33 81 104  HIGH 17 11 4 28  RE HIGH 37 12 4 48  HIGH 5,378 1,097 379 6,304  RE	#	318  OF PLOTS F 5  201  OF PLOTS F 5  87  OF PLOTS F 5	80 REQ. 10  50 REQ. 10  22 REQ. 10  32 REQ.	INF. POP.  INF. POP.  INF. POP.

TC TST	ATS	STATISTICS PROJECT SEASDE								PAGE DATE	2 2/10/2020
TWP	RGE	SECT	TRAC	T	TYPE	A	CRES	PLOTS	TREES	CuFt	BdFt
032	007	30	111		VARI		305.00	33	108	1	Е
CL:	68.1 %	CO	EFF		NET CU	JFT FT/A	CRE		# OF PLO	ΓS REQ.	INF. POP.
SD:	1.0	VA	R.	S.E.%	LOW	AVG	HIGH		5	10	15
TOTA	<b>A</b> L	50	0.1	8.7	1,068	1,170	1,272		100	25	11

TC TSTA	ATS				S7 PROJEC	TATIST	ICS SEASDE			PAGE DATE 2	1 2/10/2020
TWP	RGE	SECT TI	RACT		TYPE	ACI		PLOTS	TREES	CuFt	BdFt
032	007	30 11			VARI	7101	50.00	7	35	1	E
052	007	30 11			VARI		30.00			1	<u></u>
				-	ΓREES		ESTIMATED FOTAL		ERCENT AMPLE		
		PLOTS	TREES		PER PLOT	1	TREES		REES		
TOTA	ī	7	35		5.0		TREES	- 11	KLLS		
CRUIS		3	16		5.3		4,150		.4		
	COUNT						,				
REFO	REST										
COUN		4	19		4.8						
BLAN											
100 %				CITE A N	ID CLIMANA	4 DX7					
		SAMPLE	TREES	AVG	I <b>D SUMM</b> BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
LP PIN	NE	14	80.5	14.2	41	23.5	88.6	7,707	7,707	1,850	1,830
P PINI	E	2	2.5	29.2	77	2.1	11.4	1,855	1,830	344	344
TOTA	<b>A</b> L	16	83.0	14.9	42	25.9	100.0	9,561	9,537	2,194	2,174
CONI		LIMITS OF TH TIMES OUT O		LUME WIL	L BE WITI	HIN THE S	AMPLE ERR	OR			
CL:	68.1 %	COEFF			SAMPLE	TREES -	BF	#	OF TREES F	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC	)W	AVG	HIGH		5	10	15
LP PIN		56.0	15.5		100	118	136				
P PINI TOTA		12.3 114.2	11.6 29.5		659 138	745 196	831 254		555	139	62
			29.3								· · · · · · · · · · · · · · · · · · ·
CL:	68.1 %	COEFF	0.50	1.0		TREES -		#	OF TREES F	-	INF. POP.
SD: LP PIN	1.0 NE	VAR.% 54.1	S.E.% 15.0	LC	23	AVG 28	HIGH 32		5	10	15
P PINI		11.1	10.4		125	140	155				
TOTA	AL	98.8	25.5		31	42	52		415	104	46
CL:	68.1 %	COEFF			TREES/A	CRE		#	OF PLOTS F	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC	)W	AVG	HIGH		5	10	15
LP PIN		26.8	10.9		72	81	89				
P PINI TOTA		137.7 23.3	56.0 9.5		1 75	2 83	4 91		25	6	3
			9.3								
CL:	68.1 %	COEFF	C F o/	* *		AREA/ACE		#	OF PLOTS F		INF. POP.
SD: LP PIN	1.0 NE	VAR.% 28.7	S.E.% 11.7	LC	78	AVG 89	HIGH 99		5	10	15
P PINI		137.7	56.0		5	11	18				
TOTA	AL	16.3	6.6		93	100	107		12	3	1
CL:	68.1 %	COEFF			NET BF/	ACRE		#	OF PLOTS F	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC		AVG	HIGH		5	10	15
LP PIN		29.7	12.1		6,774	7,707	8,639				
_	E2	137.7	56.0		805	1,830	2,855				
P PINI		15 2	£ 1		0.020	0.527	10 111		11	9	
TOTA	<b>A</b> L	15.6	6.4	d	8,930	9,537	10,144		11	3	1
CL:	68.1 %	COEFF			NET CUI	FT FT/ACI	RE	#	OF PLOTS F	REQ.	INF. POP.
CL: SD:	68.1 % 1.0	COEFF VAR.%	S.E.%	LC	NET CU	F <b>T FT/ACI</b> AVG	RE HIGH	#			
CL:	68.1 % 1.0 NE	COEFF		LC	NET CUI	FT FT/ACI	RE	#	OF PLOTS F	REQ.	INF. POP.

10 1317	ATS			PRO	STATIST JECT	ICS SEASDE			PAGE DATE	1 2/10/2020
ГWР	RGE	SECT	ГRАСТ	TYPI	E AC	RES	PLOTS	TREES	CuFt	BdFt
032	007	<b>30</b> 1	116	FIXI	)	50.00	7	2	1	Е
				TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES	PER PLO	OT	TREES	T	REES		
TOTA	L.	7	2	.3	3					
CRUIS	SE	1	1	1.0	)	714		.1		
DBH (	COUNT	1	1	1.0	)					
REFO	REST									
COUN										
BLANKS		5								
100 %	1									
				STAND SUN	MMARY					
		SAMPLE TREES	TREES /ACRE	AVG BOLE DBH LEN		BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
LP PI	NE	1	14.3	6.6	31 1.3	3.4	429	429	71	71
TOTA	<b>A</b> L	1	14.3	6.6	31 1.3	3.4	429	429	71	71
CL: SD:	68.1 % 1.0	COEFF VAR.%		SAM LOW	<b>PLE TREES -</b> AVG	BF HIGH	#	OF TREES I	REQ.	
LP PIN	NE	VAR.%	6 S.E.%	LOW	AVG	HIGH		0		
IOIA										
CL:		COEFE	F	CAM		CIE.		OF TREES.	neo.	
CL:	68.1 %	COEFF			PLE TREES -		#	OF TREES I	REQ.	
SD:	68.1 <sup>%</sup>	COEFF VAR.%		SAM LOW	PLE TREES - AVG	CF HIGH	#	OF TREES I	REQ.	
	68.1 % 1.0 NE						#		REQ.	
SD: LP PIN	68.1 % 1.0 NE AL		6 S.E.%	LOW	AVG			0		INE DOD
SD: LP PIN TOTA	68.1 % 1.0 NE AL 68.1 %	VAR.%	6 S.E.%	LOW	AVG ES/ACRE	HIGH		0 OF PLOTS I	REQ.	INF. POP.
SD: LP PIN	68.1 % 1.0 NE AL 68.1 % 1.0	VAR.%	6 S.E.% F 6 S.E.%	LOW	AVG			0		
SD: LP PIN TOTA CL: SD:	68.1 % 1.0 NE AL 68.1 % 1.0	VAR.% COEFF VAR.%	6 S.E.% F 6 S.E.% 69.5	LOW TREI LOW	AVG ES/ACRE AVG	HIGH	#	0 OF PLOTS I	REQ.	1
SD: LP PIN TOTA CL: SD: LP PIN	68.1 % 1.0 NE AL 68.1 % 1.0	COEFI VAR.% 170.8	6 S.E.%  6 S.E.%  69.5  69.5	TREI LOW  4 4	AVG ES/ACRE AVG 14 14	HIGH 24 24 24	#	0 OF PLOTS I 5 1,352	REQ. 10	15
SD: LP PIN TOTA CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL 68.1 % 1.0  NE AL 68.1 % 68.1 %	VAR.%  COEFF VAR.% 170.8	6 S.E.%  F 6 S.E.%  69.5  69.5	TREI LOW  4 4	AVG ES/ACRE AVG 14	HIGH 24 24 24	#	OF PLOTS I	REQ. 10	15 INF. POP.
SD: LP PIN TOTA  CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL  68.1 % 1.0  NE AL  68.1 % 1.0  NE AL  68.1 % 1.0	VAR.%  COEFF  VAR.%  170.8  170.8  COEFF	6 S.E.%  F 6 S.E.%  69.5  69.5  F 6 S.E.%	TREI LOW  4 4 BASA	AVG ES/ACRE AVG 14 14 AL AREA/ACI	HIGH  24 24 RE	#	OF PLOTS I 5  1,352 OF PLOTS I	REQ. 10 338 REQ.	15 INF. POP.
SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: SD:	68.1 % 1.0  NE AL  68.1 % 1.0  NE AL  68.1 % 1.0  NE AL	VAR.%  COEFF  VAR.%  170.8  170.8  COEFF  VAR.%	6 S.E.%  F 6 S.E.%  69.5  69.5  F 6 S.E.%  69.5	LOW  TREI LOW  4 4 BASA LOW	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG	HIGH  24 24 RE HIGH	#	OF PLOTS I 5  1,352 OF PLOTS I	REQ. 10 338 REQ.	15 INF. POP.
SD: LP PIN TOTA  CL: SD: LP PIN TOTA  CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL  68.1 % 1.0  NE AL  68.1 % 1.0  NE AL	VAR.%  COEFI VAR.% 170.8 170.8 COEFI VAR.% 170.8	6 S.E.%  6 S.E.%  69.5  69.5  6 S.E.%  69.5  69.5	LOW  TREI LOW  4 4 BASA LOW  1	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3	HIGH  24 24 RE HIGH  6	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5	REQ. 10 338 REQ. 10 338	15 INF. POP.
SD: LP PIN TOTA  CL: SD: LP PIN TOTA  CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL 68.1 % 1.0  NE AL 1.0  NE AL  68.1 % 1.0  NE AL	VAR.%  COEFF VAR.% 170.8 COEFF VAR.% 170.8	6 S.E.%  F 6 S.E.%  69.5  69.5  6 S.E.%  69.5  69.5	LOW  TREI LOW  4 4 BASA LOW  1	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3 3	HIGH  24 24 RE HIGH  6	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5	REQ.  10  338  REQ.  10  338  REQ.	15 INF. POP. 15 INF. POP.
SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL  68.1 % 1.0	VAR.%  COEFF  VAR.%  170.8  170.8  COEFF  VAR.%  170.8  COEFF  COEFF	6 S.E.%  F 6 S.E.%  69.5  69.5  6 S.E.%  69.5  6 S.E.%  69.5	TREI LOW  4 4 BASA LOW 1 1 NET	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3  3  BF/ACRE	HIGH  24 24 RE HIGH  6 6	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5 1,352 OF PLOTS I 5	REQ.  10  338  REQ.  10  338  REQ.	15 INF. POP. 15 INF. POP.
SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL  68.1 % 1.0	VAR.%  COEFI VAR.% 170.8 170.8 COEFI VAR.% 170.8 COEFI VAR.% VAR.%	6 S.E.%  6 S.E.%  69.5  69.5  6 S.E.%  69.5  6 S.E.%  69.5  69.5	TREI LOW  4 4 BASA LOW  1 1 NET LOW	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3  3  BF/ACRE  AVG	HIGH  24 24 RE HIGH  6 6 6	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5 1,352 OF PLOTS I	REQ.  10  338  REQ.  10  338  REQ.	15 INF. POP. 1 15 INF. POP. 1
SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL  68.1 % 1.0	VAR.%  COEFF VAR.% 170.8 170.8 COEFF VAR.% 170.8 170.8 COEFF VAR.% 170.8	6 S.E.%  6 S.E.%  69.5  6 S.E.%  69.5  6 S.E.%  69.5  6 S.E.%  69.5  69.5	LOW  TREI LOW  4 4 BASA LOW  1 I NET LOW 131 131	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3  3  BF/ACRE  AVG  429	HIGH  24 24  RE  HIGH  6 6  HIGH  726 726	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5 1,352 OF PLOTS I 5	REQ.  10  338  REQ.  10  338  REQ.  10  338	15 INF. POP. 15 INF. POP. 15
SD: LP PIN TOTA  CL: SD: LP PIN TOTA  CL: SD: LP PIN TOTA  CL: SD: LP PIN TOTA	68.1 % 1.0  NE AL	VAR.%  COEFF VAR.% 170.8  COEFF VAR.% 170.8  170.8  COEFF VAR.% 170.8  170.8  170.8	6 S.E.%  6 S.E.%  69.5  69.5  6 S.E.%  69.5  69.5  69.5  69.5  F  6 S.E.%  69.5	LOW  TREI LOW  4 4 BASA LOW  1 I NET LOW 131 131	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3  3  BF/ACRE  AVG  429  429	HIGH  24 24  RE  HIGH  6 6  HIGH  726 726	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5 1,352 OF PLOTS I 5	REQ.  10  338  REQ.  10  338  REQ.  10  338	15 INF. POP. 15 INF. POP. 15 INF. POP.
SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: SD: LP PIN TOTA CL: CL: CL: CL: CL: CL:	68.1 % 1.0  NE AL  68.1 % 1.0  NE AL	VAR.%  COEFI VAR.%  170.8  170.8  COEFI VAR.%  170.8  170.8  COEFI VAR.%  170.8  COEFI COE	6 S.E.%  F 6 S.E.%  69.5  69.5  6 S.E.%  69.5  69.5  69.5  F 6 S.E.%  69.5  69.5	TREI LOW  4 4 BASA LOW  1 1 NET LOW 131 131 NET	AVG  ES/ACRE  AVG  14  14  AL AREA/ACI  AVG  3  3  BF/ACRE  AVG  429  429  CUFT FT/AC	HIGH  24 24  RE  HIGH  6 6  6  HIGH  726  726  RE	#	0 OF PLOTS I 5 1,352 OF PLOTS I 5 1,352 OF PLOTS I 5 1,352 OF PLOTS I	REQ.  10  338  REQ.  10  338  REQ.  10  338  REQ.	15 INF. POP. 1 15 INF. POP. 1 15 15

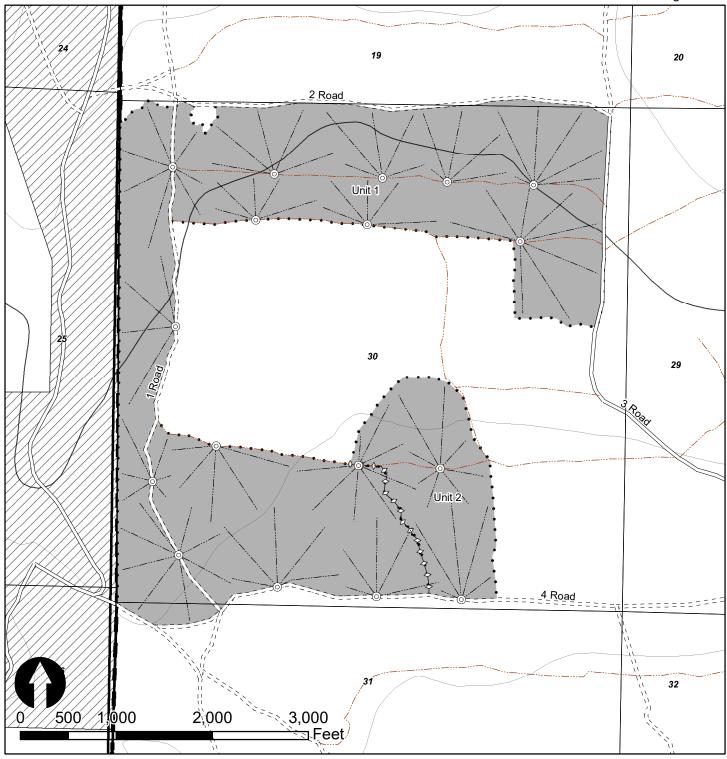
TC PST	TATS					OJECT OJECT	STATIS SEA				PAGE DATE	1 2/10/2020
ГWР	RGE	SC TF	RACT	7	TYPE			RES	PLOTS	TREES	CuFt	BdFt
032 032	007 007	30 111 30 116			VARI VARI			355.00	40	143	1	E
032	007	30 110	1		VAKI	TREES		ESTIMATED TOTAL		ERCENT SAMPLE		
		PLOT	S	TREES		PER PLOT		TREES		TREES		
TOTA	AL		40	143		3.6						
CRUI	ISE		20	77		3.8		11,671		.7		
DBH	COUNT											
REFO	DREST											
COU	NT		18	64		3.6						
BLA			2									
100 %	ю́											
					STA	ND SUMM	ARY					
		SAMPL TREE		TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
LP PI	NE		22	17.9	14.4	41	5.3	20.3	1,770	1,770	432	429
P PIN	ΙE	51		12.8	20.5	55	6.5	29.4	4,294	4,259	823	823
WHI	ΓE F		4	2.1	14.6	33	0.6	2.5	217	217	54	54
TOT	AL		77	32.9	17.1	46	12.6	52.1	6,282	6,247	1,309	1,306
CON	IFIDENC	E LIMITS (	OF THE	E SAMPLE								
	6	8.1 TIME	ES OUT	T OF 100 THE	VOLUME	WILL BE V	VITHIN TI	HE SAMPLE E	RROR			
CL	68.1	C	OEFF			SAMPLI	E TREES -	·BF	#	OF TREES R	EQ.	INF. POP.
SD: 1.0		V	AR.%	S.E.%	L	OW	AVG	HIGH		5	10	
LP PI			55.2	12.0		104	119	133				
P PIN			87.0	12.2		522	595	667				
WHIT TOT.			135.2 09.1	77.2 12.4		48 384	213 439	377 493		476	119	5
				12.7								
CL	68.1		OEFF				E TREES -		#	OF TREES R	•	INF. POP.
SD: LP PI	1.0	<u>V</u>	AR.% 49.2	S.E.% 10.7	LOW 25		AVG 28	HIGH 31		5	10	
P PIN			77.4	10.7		97	109	121				
WHI		1	22.7	70.1		14	48	81				
TOT			95.9	10.9		74	83	92		367	92	4
CL	68.1	C	OEFF			TREES/A	ACRE		#	OF PLOTS R	FO	INF. POP.
	1.0		AR.%	S.E.%	L	OW.	AVG	HIGH	"	5	10	111.101.
LP PI			54.7	24.4		14	18	22		-		
	ΙE	1	22.0	19.3		10	13	15				
P PIN							2	_				
P PIN		3	886.5	61.1		1	2	3				2
P PIN			386.5 71.8	61.1 11.3		1 29	33	3 37		206	51	
P PIN	AL					29		37	#	206 OF PLOTS R		INF. POP.
P PIN WHIT TOT	AL	C	71.8		L	29	33 AREA/AC AVG	37 RE HIGH	#			INF. POP.
P PIN WHIT TOT.  CL SD: LP PI	68.1 1.0	C V	71.8 OEFF AR.%	S.E.% 24.0	L	29 BASAL A OW 15	33 AREA/AC AVG 20	37 <b>RE</b> HIGH 25	#	OF PLOTS R	EQ.	INF. POP.
P PIN WHIT TOT: CL SD: LP PI P PIN	68.1 1.0 INE	C V	71.8 OEFF AR.% 151.8 91.4	S.E.% 24.0 14.4	L	29  BASAL A  OW  15 25	33 AREA/AC AVG 20 29	37 RE HIGH 25 34	#	OF PLOTS R	EQ.	INF. POP.
P PIN WHIT TOT.  CL SD: LP PI P PIN WHIT	68.1 1.0 INE IE IE F	C V	OEFF AR.% 151.8 91.4 339.6	S.E.% 24.0 14.4 53.7	L	29  BASAL 2  OW  15 25 1	33 AREA/AC AVG 20 29 2	37  RE HIGH 25 34 4	#	OF PLOTS R 5	EQ. 10	INF. POP.
P PIN WHIT TOT: CL SD: LP PI P PIN	68.1 1.0 INE IE IE F AL	C V	71.8 OEFF AR.% 151.8 91.4	S.E.% 24.0 14.4	L	29  BASAL A  OW  15 25	33 AREA/AC AVG 20 29	37 RE HIGH 25 34	#	OF PLOTS R	EQ.	INF. POP.
P PIN WHITTOT.  CL SD: LP PI P PIN WHITTOT.  CL	68.1 1.0 INE IE IE F AL 68.1	C V I	71.8  OEFF AR.%  151.8  91.4  339.6  46.1  OEFF	S.E.% 24.0 14.4 53.7 7.3		29  BASAL 4  OW  15  25  1  48  NET BF/	33  AREA/AC  AVG  20 29 2 52  ACRE	37  RE HIGH 25 34 4 56		OF PLOTS R 5 85 OF PLOTS R	EQ. 10 21 EQ.	INF. POP.
P PIN WHITTOT.  CL SD: LP PIN WHITTOT.  CL SD:	68.1 1.0 INE IE IE F AL 68.1 1.0	C V	71.8  OEFF AR.%  51.8  91.4  339.6  46.1  OEFF AR.%	S.E.% 24.0 14.4 53.7 7.3 S.E.%		29  BASAL 4  OW  15 25 1 48  NET BF/	33  AREA/AC  AVG  20 29 2 52  ACRE  AVG	37  RE HIGH 25 34 4 56  HIGH		OF PLOTS R 5	EQ. 10	INF. POP.
P PIN WHIT TOT.  CL SD: LP PIN WHIT TOT.  CL SD: LP PI LP PI	68.1 1.0 NE IE FE F AL 68.1 1.0	C V	71.8  OEFF AR.% 151.8 91.4 339.6 46.1  OEFF AR.% 154.2	S.E.% 24.0 14.4 53.7 7.3 S.E.% 24.4		29  BASAL 4  OW  15 25 1 48  NET BF/OW  1,339	33  AREA/AC  AVG  20 29 2 52  ACRE  AVG  1,770	37  RE HIGH 25 34 4 56  HIGH 2,201		OF PLOTS R 5 85 OF PLOTS R	EQ. 10 21 EQ.	INF. POP.
P PIN WHITTOT. CL SD: LP PIN WHITTOT. CL SD: LP PIPIN	68.1 1.0 NE IE FE F AL 68.1 1.0	C V	71.8  OEFF AR.%  151.8  91.4  339.6  46.1  OEFF AR.%  154.2  93.7	S.E.% 24.0 14.4 53.7 7.3 S.E.% 24.4 14.8		29  BASAL 4  OW  15 25 1 48  NET BF/ OW  1,339 3,629	33  AREA/AC  AVG  20 29 2 52  ACRE  AVG  1,770 4,259	37  RE HIGH 25 34 4 56  HIGH 2,201 4,890		OF PLOTS R 5 85 OF PLOTS R	EQ. 10 21 EQ.	INF. POP.
P PIN WHITTOT.  CL SD: LP PIN WHITTOT.  CL SD: LP PIN WHITTOT.  CL SD: LP PIN WHITTOT.	68.1 1.0 NE IE FE F AL 68.1 1.0 INE IE	C V V	71.8  OEFF AR.% 151.8 91.4 339.6 46.1  OEFF AR.% 154.2 93.7 817.7	S.E.% 24.0 14.4 53.7 7.3 S.E.% 24.4 14.8 50.2		29  BASAL A  OW  15 25 1 48  NET BF/ OW  1,339 3,629 108	33  AREA/AC  AVG  20 29 2 52  ACRE  AVG  1,770 4,259 217	37  RE HIGH 25 34 4 56  HIGH 2,201 4,890 326		OF PLOTS R 5  85  OF PLOTS R 5	EQ. 10  21  EQ. 10	INF. POP.
P PIN WHIT TOT.  CL SD: LP PI P PIN WHIT TOT.  CL SD: LP PI VHIT TOT.	68.1 1.0 NE IE FE F AL 68.1 1.0 NE IE FE F	C V	71.8  OEFF AR.% 151.8 91.4 339.6 46.1  OEFF AR.% 154.2 93.7 817.7 50.2	S.E.% 24.0 14.4 53.7 7.3 S.E.% 24.4 14.8		29  BASAL 4  OW  15 25 1 48  NET BF/ OW  1,339 3,629 108 5,752	33  AREA/AC  AVG  20 29 2 52  ACRE  AVG  1,770 4,259 217 6,247	37  RE HIGH  25 34 4 56  HIGH  2,201 4,890 326 6,742	#	OF PLOTS R 5  85  OF PLOTS R 5	EQ. 10  21  EQ. 10  225	INF. POP.
P PIN WHITTOT.  CL SD: LP PI P PIN WHITTOT.  CL SD: LP PI TOT.  CL C	68.1 1.0 INE IE FE F AL 68.1 1.0 INE IE FE F AL	C C V	71.8  OEFF AR.%  151.8  91.4  339.6  46.1  OEFF AR.%  154.2  93.7  817.7  50.2  OEFF	S.E.% 24.0 14.4 53.7 7.3  S.E.% 24.4 14.8 50.2 7.9	L	29  BASAL A  OW  15 25 1 48  NET BF/  OW  1,339 3,629 108 5,752  NET CU	33  AREA/AC  AVG  20  29  2  52  ACRE  AVG  1,770  4,259  217  6,247  FT FT/AC	37  RE HIGH 25 34 4 56  HIGH 2,201 4,890 326 6,742	#	OF PLOTS R 5  0F PLOTS R 5  101  OF PLOTS R	EQ. 10  21  EQ. 10  22  EQ. 10	INF. POP.
P PIN WHIT TOT:  CL SD: LP PI WHIT TOT:  CL SD: LP PI P PIN WHIT TOT:  CL CL CL	68.1 1.0 NE IE FE F AL 68.1 1.0 NE IE IE FE F AL	C V	71.8  OEFF AR.% 151.8 91.4 339.6 46.1  OEFF AR.% 154.2 93.7 817.7 50.2	S.E.% 24.0 14.4 53.7 7.3 S.E.% 24.4 14.8 50.2	L	29  BASAL 4  OW  15 25 1 48  NET BF/ OW  1,339 3,629 108 5,752	33  AREA/AC  AVG  20 29 2 52  ACRE  AVG  1,770 4,259 217 6,247	37  RE HIGH  25 34 4 56  HIGH  2,201 4,890 326 6,742	#	OF PLOTS R 5  85  OF PLOTS R 5	EQ. 10  21  EQ. 10  25  EQ.	INF. POP.  INF. POP.

TC PST	ATS				PROJECT PROJECT	STATI SEA		PAGE DATE	<b>2</b> 2/10/2020		
TWP	RGE	SC	TRACT	TYI	ТҮРЕ		CRES	PLOTS	TREES	CuFt	BdFt
032 032	007 007	30 30	111 116	VAI VAI			355.00	40	143	1	Е
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOTS	S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
	WHITE F TOTAL		323.8 45.7	51.2 7.2	26 1,211	54 1,306	81 1,400		83	21	9

т т	TSPCST	GR			Specie	s, Sort ( Project	Grade - Boar : SEA		ot Vol	lumes	s (Тур	oe)				Pago Date Fim	2	1 /10/20: 2:35:38	
T032 I Twp 032	)	30 TVAI Rge 007	Sec	Tract		Type VAR			Plots		Sampl	e Trees		CuFt 1	T03 Bdl E		007 S30	TVA	RI
			%					Per	cent No	et Boar	d Foot	Volum	e		A	/eraș	ge Log		,
Spp	S So		Net BdFt	Bd. Def%	Ft. per Acre Gross	Net	Total Net MBF	I 4-5	og Sca	ale Dia		Log	g Leng 21-30	eth 31-35 36-99	Ln I Ft I		Bd Ft	CF/ Lf	Logs Per /Acre
PP PP	CI CI		99 1	.8	4,659 35	4,623 35	1,410 11	33	29 67	29	43	6 100	8	86	29 14		209 15	1.41 0.26	22. 2.
PP	Totals		82	.8	4,694	4,658	1,421	0	29	28	43	7	8	85	27	11	191	1.36	24
LP	Cl	R CR	100		797	797	243		70	30		18	15	66	28	8	84	0.75	9
LP	Totals		14		797	797	243		70	30		18	15	66	28	8	84	0.75	9
WF	Cl	R CR	100		253	253	77		63		37	18	16	66	25	9	95	0.94	2
WF	Total	s	4		253	253	77		63		37	18	16	66	25	9	95	0.94	2
Туре То	otals			.6	5,744	5,707	1,741	0	36	27	36	9	10	82	27	10	156	1.17	36

T T	ISPCSTGI	R			Species	s, Sort ( Project	Grade - Boar : SEA		olume	es (Typ	oe)		Pag Date Tim	e 2	1 /10/202 2:36:23	
T032 R007 S30 TVARI Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt 032 007 30 116 VARI 50.00 7 16 1 E											TVAI	RI				
	a		%					Percent N	let Boa	ard Foot	Volume		Averag		Logs	
Spp	S So T rt	Gr	Net BdFt	Bd. I Def%	Ft. per Acre Gross	Net	Total Net MBF	Log S 4-5 6-1		ia. 6 17+	Log Length 12-20 21-30 3	h 1-35 36-99	Ln Dia Ft In	Bd Ft	CF/ Lf	Per /Acre
LP	CR	CR	100		7,707	7,707	385	76	24		16 11	73	27 9	88	0.79	87.2
LP	Totals		81		7,707	7,707	385	76	24		16 11	73	27 9	88	0.79	87.2
PP	CR	CR	100	1.3	1,855	1,830	91	17	24	59	22	78	27 14	297	2.06	6.2
PP	Totals		19	1.3	1,855	1,830	91	17	24	59	22	78	27 14	297	2.06	6.2
Type T	otals			.3	9,561	9,537	477	65	24	11	17 9	74	27 9	102	0.87	93.3

тс	PSPCSTGR		Sı	pecies, So	ort Gra	de - Board Fo	oot V	olum	es (Pr	oject	)							
	T032 R007 S30 TyVARI 305.00 T032 R007 S30 TyVARI 50.00				SE	ASDE 355.0							Page Date Time		10/202 :34:40	20		
		%					Perc	ent of N	let Boai	rd Foot	Volume				Avera	ige Log	g	Logs
	S So Gr Net Bd. Ft. per Acre					Total		Log Scale Dia.				Log	Length	Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35 36-99	Ft	In	Ft	Lf	/Acre
PP	CR CR	99	.8	4,264	4,229	1,501		28	28	44	7	8	85	29	12	213	1.44	19.8
PP	CR GP	1		30	30	11	33	67			100			14	5	15	0.26	2.0
PP	Totals	68	.8	4,294	4,259	1,512	0	28	28	44	8	8	85	27	11	195	1.38	21.8
WF	CR CR	100		217	217	77		63		37	18	16	66	25	9	95	0.94	2.3
WF	Totals	3		217	217	77		63		37	18	16	66	25	9	95	0.94	2.3
LP	CR CR	100		1,770	1,770	628		73	27		17	13	70	27	9	87	0.77	20.4
LP	Totals	28		1,770	1,770	628		73	27		17	13	70	27	9	87	0.77	20.4
Tota	ls		0.6	6,282	6,247	2,218	0	42	27	31	11	10	80	27	10	140	1.08	44.5



#### **LOGGING PLAN**

Of Timber Sale Contract KL-341-2020-W00774-01 Seaside Section(s) 19, 30, 31, T32S, R7.5E, Willamette Meridian, Klamath County, Oregon Approximately 355 acres

