EL CAPITAN TIMBER SALE

Timber Cruise

Abstract Timber Cruise for El Capitan Timber Sale consisting primarily of Old Growth Timber. Publish October 2023.

Southeast Office DNR-Division of Forestry and Fire Protection

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El Capitan Timber Sale Cruise Report

October 2023

This report is a compilation of information summarizing the estimation of timber volume and quality in the El Capitan Timber Sale on State land on Prince of Wales Island as delineated in the Forest Land Use Plan dated August 16, 2023. The stand was sampled as one type mainly consisting of old growth timber. The dominant characteristic of the stand controlled how the species is described in this report as far as age. The adjacent area to the sale was logged between 1970 and 1985; the stands have been influenced by that activity. Portions of the stand near tidewater were selectively logged in the 1940's or earlier.

DOF El Capitan Timber Cruise

Sample Type/ Frequency

The units were cruised during October of 2022 by Terra Verde Inc. using a variable plot cruise sampling method based on an unbiased grid system. The grid was spaced on 3 x 3 chains representing approximately one acre per cruise plot. This combined sampling produced 335 cruise plots over 336 acres. The Atterbury Cruise Program was used to manage the data. A basal area factor of 40 BAF at 16 feet above projected stump height was used to sample measured trees. Obvious cull trees were generally not recorded. This obtained an average of 3.6 trees per plot overall.

Min. Size/ Sorts/ Specifications.

Only trees containing a minimum merchantable saw log were sampled. Diameters measuring under 12 inches at four feet above stump height were categorically not recorded. Sorts were developed based on perceived industry markets. See attached ADNR-DOF Old Growth Sort Guidelines for Southeast Alaska. Log grades were determined using Official Log Scaling and Grading Rules for the Pacific Northwest as applied and accepted in the Southeast Alaska region. Logs not meeting DOF saw log sorts were recorded as pulp logs. The #4 saw logs are not represented in the cruise. Utility logs (having 50% sound usable chips) are all in the pulp sort.

Acreage

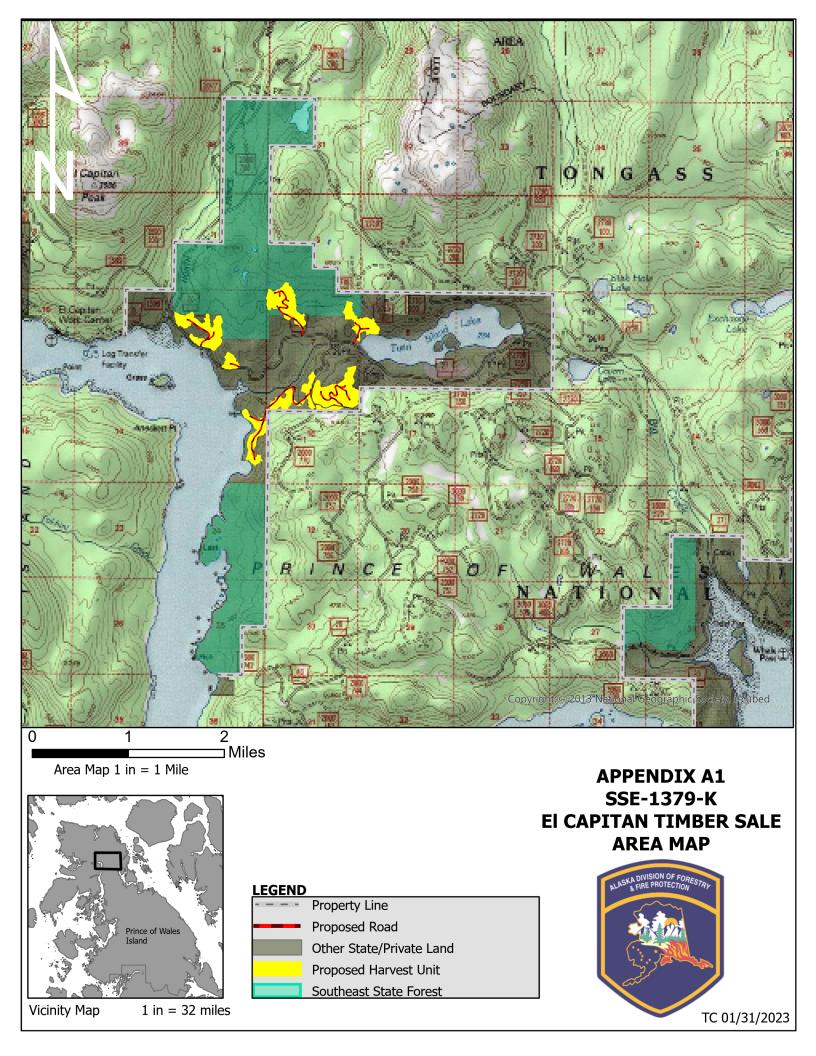
Cruised acreage was determined using ArcGIS, based off points collected along the harvest unit line using a GIS grade GPS receiver (Geode) that was restricted to sampling positions when theoretical accuracy was calculated to be less than 10 feet. GPS data utilized GNSS correction applied by the proprietary algorithm of Juniper Systems, Inc. ArcGIS calculated there to be 336 acres of timber.

Stratification

The timber was not stratified by age or type. The larger old growth hemlock is notably defective. Most defects were attributable to age and secondary stand disturbances. The contract cruisers noted some mountain hemlock mixed in the stand.

El Capitan Timber Sale Map

Vicinity Map (1 page)



El Capitan Cruise Tabular Summaries

(Atterbury Program Reports, 2 Pages)

Board Foot Volumes Report Statistical Report

TC	PSPCSTGR		SI	pecies, S	ort Gra	de - Board F	oot V	olum	es (Pr	oject)								
	5S R78E S12 Ty THRU 5S R79E S07 Ty					Project: Acres	EL	CAP 335.4	40							Page Date Time	10	1 /31/20 :34:4	022
		%					Perc	ent of N	let Boa	rd Foot	Volume					Aver	age Log	3	Logs
	S So Gr	Net	Bd. Ft.	. per Acre		Total		Log Sca	ıle 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
WH	HI 1S	5	10.9	1,021	910	305				100	1	26	23	50	32	28	1028	5.63	.9
WH	PR 1S	6	20.7	1,169	927	311				100	1	19	27	54	32	27	879	5.43	1.1
WH	PR 2M	14	18.8	2,932	2,380	798				100	1	26	19	55	32	22	580	3.57	4.1
WH	PU LP	25	1.9	4,164	4,084	1,370	0	18	22	60	7	10	25	57	31	12	233	1.61	17.5
WH	SW 2M	29	12.8	5,508	4,803	1,611			58	42	2	13	8	77	34	15	278	1.83	17.3
WH	SW 3M	21	8.9	3,731	3,397	1,139	0	73	14	12	4	13	11	71	32	8	83	0.76	40.9
wн	Totals	57	10.9	18,525	16,500	5,534	0	20	25	55	3	15	16	65	32	12	202	1.43	81.7
SS	HI 1S	26	8.9	1,146	1,044	350				100	1	19	33	47	33	31	1346	7.02	.8
SS	PR 1S	13	22.6	682	528	177				100		18	18	65	34	33	1335	8.01	.4
SS	PR 2M	18	14.0	853	734	246				100	2	38	4	56	31	22	602	3.63	1.2
SS	PU LP	8		286	286	96		12	5	83	18	19	11	51	30	15	366	2.40	.8
SS	SW 2M	23	10.4	1,023	917	308			37	63	2	7	11	80	34	16	355	2.18	2.6
SS	SW 3M	12	9.3	523	474	159		48	25	26	8	7	15	71	32	9	112	0.99	4.2
SS	Totals	14	11.8	4,513	3,982	1,336		7	12	81	3	18	17	62	32	16	399	2.49	10.0
RC	SH 2M	16	31.0	1,701	1,174	394			1	99	11	31	15	43	28	24	563	5.42	2.1
RC	SW1S	6	10.2	419	376	126				100	20	28	5	47	29	31	1113	7.32	.3
RC	SW 2M	32	13.0	2,530	2,201	738			3	97	3	27	23	47	31	23	672	4.81	3.3
RC	SW 3M	46	9.1	3,511	3,190	1,070		30	35	35	3	14	16	67	31	10	149	1.47	21.4
RC	Totals	24	14.9	8,160	6,941	2,328		14	17	69	5	22	17	55	31	13	257	2.22	27.0
YC	SW1S	5	13.8	82	71	24				100	15		24	61	29	25	734	5.50	.1
YC	SW 2M	63	10.8	918	819	275			43	57	4	10	13	73	32	15	287	2.10	2.8
YC	SW 3M	32	14.5	474	405	136		80	20		5	16	19	60	31	8	71	0.75	5.7
YC	Totals	4	12.1	1,474	1,295	434		25	33	42	5	11	15	68	32	11	150	1.25	8.6
MH	PU LP	41		33	33	11		43	57					100	40	9	139	1.41	.2
MH	SW 2M	43	4.4	35	34	11			100					100	38	13	220	1.45	.2
MH	SW 3M	16	26.5	16	12	4		100						100	37	6	44	0.54	.3
МН	Totals	0	7.0	84	79	26		33	67					100	38	9	119	1.07	.7
Total	s		12.1	32,757	28,797	9,659	0	17	22	61	4	17	17	62	32	12	225	1.66	128.0

TC PSTATS					ROJECT roject	STATIS ELC				PAGE DATE	1 10/31/2022
WP RG	E SC	C TRACT		ТҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
66S 78E 66S 79E	12 07			0001 0004	THR		335.40	335	1,192	S	W
000 7 <u>7</u> E	07	WIALL I	A35	0004	TREES]	ESTIMATED TOTAL		ERCENT SAMPLE		
		PLOTS	TREES		PER PLOT		TREES	L.	TREES		
TOTAL		335	1192		3.6		IREES		IREED		
CRUISE		335	1192		3.6		23,818		5.0		
DBH COUN	Г	527	11)2		5.0		23,010		5.0		
REFOREST	-										
COUNT											
BLANKS		6									
100 %											
				ST	AND SUMM	ARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
WHEMLOC	K	642	43.3	20.5		21.9	98.9	18,525	16,500	3,784	3,784
WR CEDAR		368	17.6	25.7		12.4	63.0	8,160	6,941	1,866	1,866
S SPRUCE		106	4.3	26.4		3.2	16.2	4,513	3,982	807	806
AY CEDAR	7	70 6	5.4	19.7		2.6	11.4	1,474	1,295 79	341 27	341
MHEMLOCI TOTAL	`	6 1,192	.5 71.0	20.4 22.2		0.2 40.5	1.1 <i>190.6</i>	84 <i>32,757</i>	28,797	6,825	27 6,824
CL 68.1		COEFF			SAMPLI	E TREES -	BF	#	OF TREES R	EQ.	INF. POP.
			SE%					#		-	
CL 68.1 SD: <u>1.0</u> WHEMLOCI)	COEFF VAR.% 107.6	S.E.% 4.3		SAMPLI LOW 769	E TREES - AVG 803	BF HIGH 837	#	OF TREES RI 5	EQ. 10	
SD: 1.()	VAR.%			LOW	AVG	HIGH	#		-	
SD: 1.(WHEMLOC WR CEDAR S SPRUCE)	VAR.% 107.6 109.1 117.5	4.3 5.7 11.5		LOW 769 768 2,083	AVG 803 814 2,352	HIGH 837 861 2,621	#		-	
SD: <u>1.(</u> WHEMLOCI WR CEDAR S SPRUCE AY CEDAR) K	VAR.% 107.6 109.1 117.5 96.8	4.3 5.7 11.5 11.6		LOW 769 768 2,083 358	AVG 803 814 2,352 404	HIGH 837 861 2,621 451	#		-	
SD: 1.0 WHEMLOCI WR CEDAR S SPRUCE AY CEDAR MHEMLOCI) K	VAR.% 107.6 109.1 117.5 96.8 88.1	4.3 5.7 11.5 11.6 39.2		LOW 769 768 2,083 358 104	AVG 803 814 2,352 404 172	HIGH 837 861 2,621 451 239	#	5	10	1
SD: 1.(WHEMLOCH WR CEDAR S SPRUCE AY CEDAR MHEMLOCH TOTAL) K	VAR.% 107.6 109.1 117.5 96.8 88.1 135.1	4.3 5.7 11.5 11.6		LOW 769 768 2,083 358 104 881	AVG 803 814 2,352 404 172 917	HIGH 837 861 2,621 451 239 953		5 729	10 182	1
SD: 1.0 WHEMLOCI WR CEDAR S SPRUCE AY CEDAR MHEMLOCI) K	VAR.% 107.6 109.1 117.5 96.8 88.1	4.3 5.7 11.5 11.6 39.2		LOW 769 768 2,083 358 104 881	AVG 803 814 2,352 404 172	HIGH 837 861 2,621 451 239 953		5	10 182	1 8 INF. POP.
SD: 1.(WHEMLOCH WR CEDAR S SPRUCE AY CEDAR MHEMLOCH TOTAL CL 68.1) K K	VAR.% 107.6 109.1 117.5 96.8 88.1 <i>135.1</i> COEFF VAR.% 94.2	4.3 5.7 11.5 11.6 39.2 3.9		LOW 769 768 2,083 358 104 88 <i>1</i> SAMPLI	AVG 803 814 2,352 404 172 917 2 TREES -	HIGH 837 861 2,621 451 239 953 CF		5 729 OF TREES R	10 182 EQ.	1 8 INF. POP.
SD: 1.(WHEMLOCI WR CEDAR S SPRUCE AY CEDAR MHEMLOCI TOTAL CL 68.1 SD: 1.(WHEMLOCI WR CEDAR) < <	VAR.% 107.6 109.1 117.5 96.8 88.1 <i>135.1</i> COEFF VAR.% 94.2 91.3	4.3 5.7 11.5 11.6 39.2 3.9 S.E.% 3.7 4.8		LOW 769 768 2,083 358 104 881 SAMPLI LOW 163 190	AVG 803 814 2,352 404 172 917 E TREES - AVG 170 199	HIGH 837 861 2,621 451 239 953 CF HIGH 176 209		5 729 OF TREES R	10 182 EQ.	1 8 INF. POP.
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SD:1.(WHEMLOCIWR CEDARS SPRUCEAY CEDARMHEMLOCITOTALCL68.1SD:1.(WHEMLOCIWR CEDARS SPRUCEAY CEDARMHEMLOCITOTALCL68.1SD:1.(WHEMLOCITOTALCL68.1SD:1.(WHEMLOCIWR CEDARS SPRUCEAY CEDARS SPRUCEAY CEDARSSPRUCEAY CEDARSD:1.(WHEMLOCIWHEMLOCIWR CEDARSD:1.(WHEMLOCIWR CEDARSD:1.(SSPRUCES SPRUCE		VAR.% 107.6 109.1 117.5 96.8 88.1 135.1 COEFF VAR.% 94.2 91.3 103.3 87.2 77.5 111.7 COEFF VAR.% 85.8 165.8 289.5 300.1 794.6 64.3 COEFF VAR.% 84.9 132.6 210.1	4.3 5.7 11.5 11.6 39.2 3.9 <u>S.E.%</u> 3.7 4.8 10.1 10.4 34.5 3.2 <u>S.E.%</u> 4.7 9.1 15.8 16.4 43.4 3.5 <u>S.E.%</u> 4.6 7.2 11.5		LOW 769 768 2,083 358 104 887 SAMPLI LOW 163 190 398 90 38 792 TREES/ LOW 41 16 4 5 0 69 BASAL LOW 94 58 14	AVG 803 814 2,352 404 172 917 TREES - AVG 170 199 442 101 57 198 ACRE AVG 43 18 4 5 0 71 AVG 99 63 16	HIGH 837 861 2,621 451 239 953 CF HIGH 176 209 487 111 77 205 HIGH 45 19 5 6 1 74 RE HIGH 103 68 18	#	5 729 OF TREES RI 5 498 OF PLOTS RI 5 165 OF PLOTS R	10 182 EQ. 10 125 EQ. 10 41 EQ.	1 8 INF. POP. 1 S. 1 NF. POP. 1

TC PST	FATS				<u>PROJE</u> proje	ECT STAT	<u>FISTICS</u> LCAP			PAGE DATE	2 10/31/2022
гwр	RGE	SC	TRACT	Т	YPE		ACRES	PLOTS	TREES	CuFt	BdFt
66S 66S	78E 79E	12 07	WHALE PASS WHALE PASS		001 THR 004		335.40	335	1,192	S	W
CL	68.1		COEFF		NE	T BF/ACRE			# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	1
WHE	EMLOCK		108.6	5.9	15,522	2 16,500	17,478				
WR C	CEDAR		143.3	7.8	6,398	6,941	7,484				
S SPI	RUCE		227.2	12.4	3,488	3,982	4,476				
AY C	EDAR		293.5	16.0	1,088	3 1,295	1,503				
MHE	MLOCK		909.6	49.7	40) 79	117				
тот	AL		65.5	3.6	27,768	8 28,797	29,826		171	43	1
CL	68.1		COEFF		NE	T CUFT FT/	ACRE		# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	1
WHE	EMLOCK		98.5	5.4	3,581	3,784	3,988				
WR (CEDAR		135.0	7.4	1,729	9 1,866	2,004				
S SPI	RUCE		219.3	12.0	709	806	902				
AY C	EDAR		284.1	15.5	288	3 341	394				
MHE	MLOCK		860.9	47.0	14	4 27	40				
тот	AL		55.8	3.0	6,610	6,824	7,032		124	31	1

ADNR-DOF Sort Guidelines

Southeast Alaska

(2 pages)

Revised Sort Matrix Reference Card (For Old Growth Cruising)

Code	Description	Min. Length	Min. Diameter
	·		
А	<u>SPRUCE AND HEMLOCK LOGS</u> High Grade Sort	14'	24"
~	Clean appearing #2 and better.	74	24
	Reasonably straight, with clear		
	cuttings. Maximum twist 2" per		
	foot. Max. defect 15%.		
В	Premium Sort	14'	20"
	#2 or better. Clear cutting in one		
	Quadrant minimum. Total deductions		
	not more than 50%.		
S	Sawlog Sort	12'	6"
	#3 or better, no rough tops.		
	Maximum deduction 66%.		
Р	Pulp Sort	12'	6"
	Min. 50% net utility scale.		
	Won't fit into sawlog sorts		
	due to quality and defect.		
	<u>RED CEDAR LOGS</u>		
L	Shake & Shingle	12'	20"
	Suitable to produce 4' blocks for		
	shakes or 16" blocks for shingles.		
	Larger logs that aren't saw quality.		
S	Sawlog Sort	12'	6"
	#3 or better, no rough tops.		
	Maximum deduction 66%.		
	YELLOW CEDAR LOGS		
S	All Saw Logs	12'	6"
	Camp run sort. Grade determines		
	quality. No excessive sweep or twist.		
	Must be suitable for sawlogs.		
	1/3 sound Scribner volume.		

2022 ADNR-DOF Old Growth Sort Guidelines for Southeast Alaska

Preferred Lengths in order of preference: 36', 33' 40', 26', 16', 14', 12'

TblSortGrade

 Table Name:
 SE ALASKA

Sort/Grade Table

Date: 11/1/2022

Sort	Grd	Abr	Desc	Fbr	Min Dia	Max Dia	Max B Butt	Min I Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot S Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
	0	CU	CULL		0	0	0	0	0	0	0		0	0	0			0	0		0	
	1	1S	11SAWMI		24	0	0	12	0	0	0		0	0	0			0	0		1	С
	2	2	2SAWMIL		12	0	0	12	0	0	60		0	0	0			0	0		1	С
	3	3	3SAWMIL		6	0	0	12	0	0	50	М	0	0	0			0	0		0	
	4	4	4SAWMIL		5	0	0	12	0	0	10	М	0	0	0			0	0		0	
	9	LP	PULP		4	0	0	12	0	0	0		0	0	0			0	0		0	
0		CU	CULL		0	0	0	0	0	0	0		0	0	0			0	0		0	
9		PU	PULP		4	0	0	12	0	0	0		0	0	0			0	0		0	
А		HI	HI GRADE		24	99	0	14	40	0	0		0	0	0			0	0		0	
В		PR	PREMIUM		20	99	0	14	40	0	0		0	0	0			0	0		0	
L		SH	SHAKE		20	99	0	12	40	0	0		0	0	0			0	0		0	
0		CU	CULL		0	0	0	1	40	0	0		0	0	0			0	0		0	
Р		PU	PULP		6	99	0	12	40	0	0		0	0	0			0	0		0	
S		S	SAWLOG		6	99	0	12	40	66	0		0	0	0			0	0		0	

WHALE PASS TIMBER SALE

Timber Cruise

Abstract

Timber Cruise for the Whale Pass Timber Sale consisting primarily of Old Growth Timber. Publish October 2023.

Southeast Office DNR-Division of Forestry and Fire Protection

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Whale Pass Timber Sale Cruise Report

October 2023

This report is a compilation of information summarizing the estimation of timber volume and quality in the Whale Pass Timber Sale on State land on Prince of Wales Island as delineated in the Forest Land Use Plan dated March 2023. The stand was sampled as one type mainly consisting of old growth timber. The dominant characteristic of the stand controlled how the species is described in this report as far as age.

DOF Whale Pass Timber Cruise

Sample Type/ Frequency

The units were cruised during April of 2022 by Terra Verde Inc. using a variable plot cruise sampling method based on an unbiased grid system. The grid was spaced to represent approximately one acre per cruise plot. This combined sampling produced 292 cruise plots over 292 acres. The Atterbury Cruise Program was used to manage the data. A basal area factor of 40 BAF at 16 feet above projected stump height was used to sample measured trees. Obvious cull trees were generally not recorded. This obtained an average of 4.3 trees per plot overall.

Min. Size/ Sorts/ Specifications.

Only trees containing a minimum merchantable saw log were sampled. Diameters measuring under 12 inches at four feet above stump height were categorically not recorded. Sorts were developed based on perceived industry markets. See attached ADNR-DOF Old Growth Sort Guidelines for Southeast Alaska. Log grades were determined using Official Log Scaling and Grading Rules for the Pacific Northwest as applied and accepted in the Southeast Alaska region. Logs not meeting DOF saw log sorts were recorded as pulp logs. The #4 saw logs are not generally represented in the cruise. Utility logs (having 50% sound usable chips) are all in the pulp sort.

Acreage

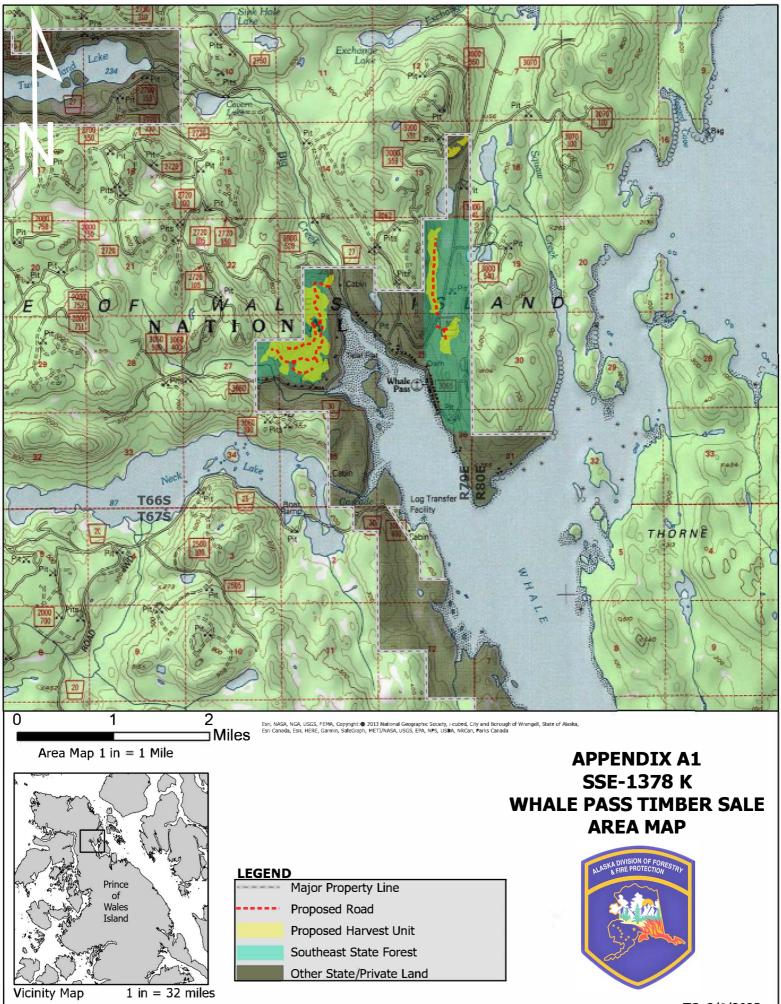
Cruised acreage was determined using ArcGIS, based off points collected along the harvest unit line using a GIS grade GPS receiver (Geode) that was restricted to sampling positions when theoretical accuracy was calculated to be less than 10 feet. GPS data utilized GNSS correction applied by the proprietary algorithm of Juniper Systems, Inc. ArcGIS calculated there to be 292 acres of timber.

Stratification

The timber was not stratified by age or type.

Whale Pass Timber Sale Map

Vicinity Map (1 page)



TC 2/8/2023

Whale Pass Cruise Tabular Summaries

(Atterbury Program Reports, 2 Pages)

Board Foot Volumes Report Statistical Report

TC	PSPCST	GR		SI	pecies, S	ort Gra	de - Board Fo	oot Vo	olum	es (Pr	oject)								
	5S R79E THRU 5S R79E :	-			Acres 292.00									1 24/202 03:52	22					
			%					Perce	ent of N	let Boa	d Foot	Volume					Avera	ige Log	5	Logs
	S So	-	Net		. per Acre		Total	I	Log Sca	ale 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
YC	S	2	3	16.2	45	38	11				100		46		54	32	21	553	3.72	.1
YC	S	3	97	12.2	1,174	1,031	301	3	49	25	23	6	15	6	73	29	9	99	1.10	10.4
YC	Totals		7	12.3	1,218	1,068	312	3	48	24	26	6	16	6	73	29	9	102	1.11	10.4
RC	L		6	27.6	835	605	177		1	0	100	24	18	16	41		30	794 222	5.34	.8
RC RC	L S	3 2	10 13	29.1 9.1	1,334 1,393	946 1,266	276 370		1	8 1	91 99	36 1	40 24	3 8	21 68		21 24	333 757	2.81 4.76	2.8 1.7
RC		3	71	7.4	7,271	6,735	1,967	2	25	33	40	7	15	7	70	28		146	1.55	46.2
RC	Totals		59	11.8	10,833	9,552	2,789	1	17	24	57	10	19	7	63	28	12	186	1.78	51.5
WH	В	3	1		50	50	15				100			100		33	24	830	4.53	.1
WH	Р	Р	11	28.4	670	480	140	6	59	18	18	13	32	4	52	26	8	54	0.63	8.9
WH	S	2	11	9.8	511	461	135			36	64		20	6	74	33	17	362	2.38	1.3
WH	S	3	77	6.8	3,551	3,308	966	2	43	36	19	4	12	3	81	30	9	114	1.00	29.1
WН	Totals		27	10.1	4,782	4,299	1,255	2	40	33	25	5	15	5	76	30	9	109	0.98	39.3
SS	А		2		24	24	7				100				100	40		1010	4.36	.0
SS		2	3	3.4	44	43	12				100		50		50		24	743	4.51	.1
SS		3	2	22.5	22	17	5				100	100	100				27	690	4.78	.0
SS		P	27	17.9	11	9	3		58	42	76	100			70	17	7	27	0.42	.3
SS SS	S S	2	37 56	3.7 4.7	444 676	427 644	125 188	0	33	24 33	76 33	6	9	21 8	79 77		18 10	503 142	2.81 1.26	.8 4.5
		3											-							
SS	Totals		7	4.7	1,221	1,164	340	0	19	28	54	4	8	12	76	30	12	200	1.57	5.8
Total	ls			10.9	18,055	16,083	4,696	1	25	27	46	8	17	7	68	29	11	150	1.40	107.1

TC PS1	TATS					OJECT Roject		<u>STICS</u> ALEPAS			PAGE DATE	1 5/24/2022
ſWP	RGE	SC	TRACT	1	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
66S 66S	79E 79E	13 25	6 5)VRP 7)VRP	THR		292.00	292	1,260	S	W
				, , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		I	PLOTS	TREES		PER PLOT		TREES		TREES		
TOT	AL		292	1260		4.3						
	ISE COUNT DREST		279	996		3.6		21,813		4.6		
COU	NT		5	11		2.2						
BLA			8									
100 %	6											
						ND SUMM						
			MPLE FREES	TREES	AVG DBH	BOLE LEN	REL DEN	BASAL	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
N/D		1		/ACRE				AREA				
	CEDAR EMLOCK		600 259	35.1 27.2	24.5 17.8	49 52	23.1 11.2	114.5 47.2	10,833 4,782		2,765 1,209	2,601 1,139
	CEDAR		239 92	9.2	17.8	32 49	4.0	47.2	4,782		342	337
	RUCE		45	3.2	21.6	63	1.8	8.2	1,210		279	277
тот			996	74.7	21.4	51	40.4	187.2	18,055		4,595	4,354
CON			ITS OF THE FIMES OUT		VOLUME	WILL BE V	WITHIN T	HE SAMPLE E	ERROR			
CL 68.1			COEFF			SAMPL	E TREES	BF		# OF TREES R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	I	LOW	AVG	HIGH		5	10	1:
	CEDAR		103.8	4.2		468	488	509				
	EMLOCK		102.4 113.4	6.4 11.8		238 167	254 190	270 212				
	CEDAR RUCE		75.2	11.8		518	190 583	649				
тот			110.9	3.5		390	404	418		491	123	5.
CL	68.1		COEFF			SAMPLI	E TREES	CF		# OF TREES R	FΟ	INF. POP.
SD:	1.0		VAR.%	S.E.%	I	LOW	AVG	HIGH		5 5	10	1:
WR (CEDAR		81.3	3.3		114	118	122				
	EMLOCK		85.4	5.3		60	63	66				
	CEDAR		95.4	9.9		51	56	62				
	RUCE		61.7 88.6	9.2 2.8		120 96	133	145		313	78	3.
тот			88.6	2.8			99	101				
CL	68.1		COEFF	S E O/	Ŧ	TREES/		шси		# OF PLOTS R		INF. POP.
SD: WR (<u>1.0</u> Cedar		VAR.% 101.9	S.E.% 6.0	1	20W 33	AVG 35	HIGH 37		5	10	1:
	EMLOCK		125.1	7.3		25	27	29				
	CEDAR		228.6	13.4		8	9	10				
	RUCE		313.8	18.3		3	3	4				
тот	AL		71.2	4.2		72	75	78		202	51	22
CL	68.1		COEFF				AREA/AC			# OF PLOTS R		INF. POP.
SD:	1.0		VAR.%	S.E.%	I	LOW	AVG	HIGH		5	10	1:
	CEDAR EMLOCK		79.9 123.0	4.7 7.2		109 44	114 47	120 51				
	CEDAR		123.0 206.8	12.1		44 15	47 17	51 19				
	RUCE		200.8	12.1		13 7	8	19				
тот			55.7	3.3		181	187	193		124	31	14
CL	68.1		COEFF			NET BF	/ACRE			# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	I	LOW	AVG	HIGH		5	10	1
WR C	CEDAR		91.9	5.4		9,038	9,552	10,065				
WHE	EMLOCK		146.7	8.6		3,930	4,299	4,668				
	CEDAR		243.3	14.2		916	1,068	1,220				
S SPI	RUCE		346.9	20.3		928	1,164	1,400				
TOT			68.3	4.0		15,441	16,083	16,726		186	47	2.

TC PSI	TATS				PROJECT project		<u>STICS</u> IALEPAS			PAGE DATE	2 5/24/2022
TWP	RGE	SC	TRACT	ТҮР	E	ACRES		PLOTS	TREES	CuFt	BdFt
66S 66S	79E 79E	13 25	6 5	0VRI 0VRI			292.00		1,260	S	W
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
WR C	CEDAR		86.9	5.1	2,469	2,601	2,733				
WHE	MLOCK		137.6	8.0	1,048	1,139	1,231				
AY C	EDAR		223.9	13.1	293	337	382				
S SPF	RUCE		322.0	18.8	225	277	329				
тот	AL		63.1	3.7	4,194	4,354	4,515		159	40	18

ADNR-DOF Sort Guidelines

Southeast Alaska

(2 pages)

Revised Sort Matrix Reference Card (For Old Growth Cruising)

Code	Description	Min. Length	Min. Diameter
	·		
А	<u>SPRUCE AND HEMLOCK LOGS</u> High Grade Sort	14'	24"
~	Clean appearing #2 and better.	74	24
	Reasonably straight, with clear		
	cuttings. Maximum twist 2" per		
	foot. Max. defect 15%.		
В	Premium Sort	14'	20"
	#2 or better. Clear cutting in one		
	Quadrant minimum. Total deductions		
	not more than 50%.		
S	Sawlog Sort	12'	6"
	#3 or better, no rough tops.		
	Maximum deduction 66%.		
Р	Pulp Sort	12'	6"
	Min. 50% net utility scale.		
	Won't fit into sawlog sorts		
	due to quality and defect.		
	<u>RED CEDAR LOGS</u>		
L	Shake & Shingle	12'	20"
	Suitable to produce 4' blocks for		
	shakes or 16" blocks for shingles.		
	Larger logs that aren't saw quality.		
S	Sawlog Sort	12'	6"
	#3 or better, no rough tops.		
	Maximum deduction 66%.		
	YELLOW CEDAR LOGS		
S	All Saw Logs	12'	6"
	Camp run sort. Grade determines		
	quality. No excessive sweep or twist.		
	Must be suitable for sawlogs.		
	1/3 sound Scribner volume.		

2022 ADNR-DOF Old Growth Sort Guidelines for Southeast Alaska

Preferred Lengths in order of preference: 36', 33' 40', 26', 16', 14', 12'

TblSortGrade

 Table Name:
 SE ALASKA

Sort/Grade Table

Date: 11/1/2022

Sort	Grd	Abr	Desc	Fbr	Min Dia	Max Dia	Max B Butt	Min I Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot S Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
	0	CU	CULL		0	0	0	0	0	0	0		0	0	0			0	0		0	
	1	1S	11SAWMI		24	0	0	12	0	0	0		0	0	0			0	0		1	С
	2	2	2SAWMIL		12	0	0	12	0	0	60		0	0	0			0	0		1	С
	3	3	3SAWMIL		6	0	0	12	0	0	50	М	0	0	0			0	0		0	
	4	4	4SAWMIL		5	0	0	12	0	0	10	М	0	0	0			0	0		0	
	9	LP	PULP		4	0	0	12	0	0	0		0	0	0			0	0		0	
0		CU	CULL		0	0	0	0	0	0	0		0	0	0			0	0		0	
9		PU	PULP		4	0	0	12	0	0	0		0	0	0			0	0		0	
А		HI	HI GRADE		24	99	0	14	40	0	0		0	0	0			0	0		0	
В		PR	PREMIUM		20	99	0	14	40	0	0		0	0	0			0	0		0	
L		SH	SHAKE		20	99	0	12	40	0	0		0	0	0			0	0		0	
0		CU	CULL		0	0	0	1	40	0	0		0	0	0			0	0		0	
Р		PU	PULP		6	99	0	12	40	0	0		0	0	0			0	0		0	
S		S	SAWLOG		6	99	0	12	40	66	0		0	0	0			0	0		0	