KOSCIUSKO ISLAND EAST TIMBER SALE

Timber Cruise

Abstract Timber Cruise for the Kosciusko Island East Timber Sale consisting primarily of State old growth timber. Publish March 2024.

Southeast Office DNR-Division of Forestry and Fire Protection

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Kosciusko Island East Timber Sale Cruise Report

March 20, 2024

This report is a compilation of information summarizing the estimation of timber volume and quality in the Kosciusko Island East Timber Sale (SSE-1384) on State land on Kosciusko Island near the community of Edna Bay as delineated in the Forest Land Use Plan dated December 2023. The stand was sampled as one type mainly consisting of old growth timber with a residual young growth component.

DOF Kosciusko Island East Timber Cruise

Sample Type/ Frequency

The units were cruised during October of 2023 by the DOF using a variable plot cruise sampling method based on an unbiased grid system. The grid was spaced on 2 x 5 chains representing one acre per cruise plot. This combined sampling produced 188 cruise plots over 186 acres. The Atterbury Cruise Program was used to manage the data. A basal area factor (BAF) of 40 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 4.0 trees per plot overall.

Min. Size/ Sorts/ Specifications.

Only trees containing a minimum merchantable saw log per log scaling and grading rules were sampled. Diameters measuring under 9 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 and Second 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. Young growth and old growth #4 saw logs are segregated into the pulp sort. Utility logs (having 50% sound usable chips) are all in the utility pulp sort.

Acreage

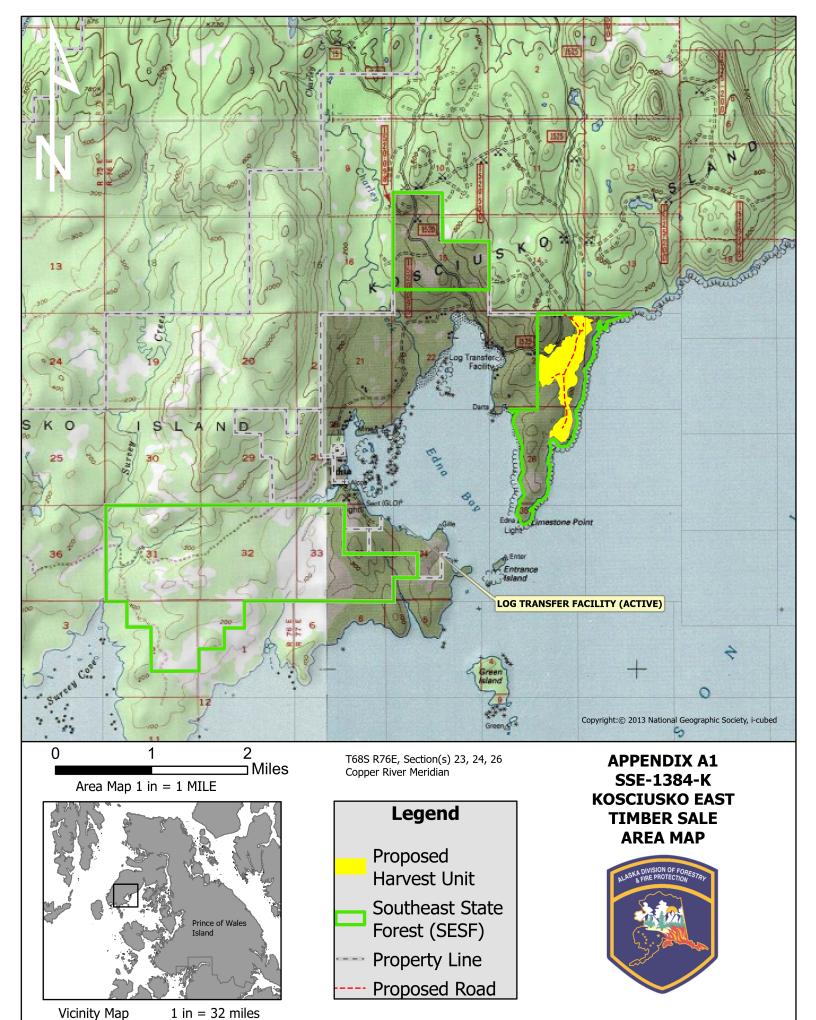
Cruised acreage was determined using ArcGIS, based off points collected along the harvest unit line using a GIS grade GPS receiver (Geode) that was restricted to sampling positions when theoretical accuracy was calculated to be less than 10 feet. GPS data utilized GNSS correction applied by the proprietary algorithm of Juniper Systems, Inc. ArcGIS calculated there to be 186 acres of timber.

Stratification

Timber was generally a mixed stand with portions exhibiting a pronounced age type but not a discrete geographically definable age class. The timber was not stratified by age. Individual trees were subjectively identified by the cruiser as having old growth or young growth characteristics generally associated with size, tree form and observable defect. Several trees were cored with an increment borer to determine either old or young growth status. Some of the smaller hemlock could be treated as either old growth or young growth; these trees were likely influenced by the previous harvest entry. The larger old growth Sitka spruce has notably more defect than the young growth. While some of this is associated with age most was attributable to previous wind damage and secondary stand disturbances.

Parlay Two Timber Sale Map

Vicinity Map (1 page)



TC 12/28/2023

Parlay Two Young Growth Cruise Tabular Summaries

(Atterbury Program Reports, 3 Pages)

Kos East Type 90

Board Foot Volumes Report Statistical Report T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type) Project: KOSEAST

																			PM
	R76E S2			-		-		-	DI -		G	- T					R76E S2.	3 T009	0
Тwp		lge	Sec	Tract KOSEA	ст	Туре 0090			Plots		-	e Trees 748		-	uFt	BdFt			
68S	7	6E	23	KUSEA	.51	0090	186.	00	188			/40		S		W			
			%					Perce	nt Ne	t Boa	rd Foot	Volume	•			Avera	ge Log		Logs
	s _{So}	Gr	Net	Bc	l. Ft. per Acre		Total	Lo	og Sca	le Di	a.	Log	Leng	th		Ln Dia	Bd	CF/	Per
Spp	T rt	ad	BdFt	Def%	Gross	Net	Net MBF		6-11			12-20			36-99	Ft In	Ft	Lf	/Acre
WH	HI	15		9.9	116	105	19				100		26	33	42	33 29	1117	6.20	
wн	HI	PE		7.7	39	36	19				100		100	55	42	26 41		10.35	
WH	PR	15	6	7.4	1,959	1,815	338				100		23	47	30	33 29	1910	6.00	1
WH	PR	28	3	4.9	906	861	160				100		12	53	35	34 23	798	3.87	1
WH	SA	15	1	9.2	144	131	24				100		12	100	55	33 28	1038	5.44	1
WH	SA	28	54	6.5	16,708	15,626	2,906			33	67		8	37	56	35 17	416	2.32	37
WH	SA		20	4.8	6,070	5,780	1,075		74	19	8	1	12	28	59	35 9	102	0.84	56
WH	SA	4S	1	2.4	497	485	90		100	.,	0	19	68	12	1	24 6	32	0.42	15
WH	PU	38	1	22.3	105	82	15		6	26	68		37	37	26	32 16	297	2.45	10
WH	PU	4S		10.3	93	83	15		100	-		3	97		-	26 6	28	0.37	2
WH	PU	U	14	16.0	4,703	3,953	735		11	14	75	9	18	22	51	33 14	283	1.94	14
			70			28.056	5 296		10	24	59	2	12	24	50			1.17	120
WH	Totals		70	7.6	31,341	28,956	5,386		18	24	58	2	12	34	52	33 12	224	1.47	129
SS	HI	1S	11	2.5	1,099	1,071	199				100	2	47	28	22	30 37	1906	9.23	
SS	HI	28		7.6	42	39	7				100		100			26 52	3040	17.52	
SS	HI	SL			42	42	8				100		100			26 41	2070	11.13	
SS	PR	1 S	23	6.0	2,359	2,217	412				100		60	30	10	30 41	2170	10.62	1
SS	PR	2 S	11	4.6	1,067	1,018	189				100	2	45	13	40	31 34	1687	7.52	
SS	SA	1 S	1	8.6	99	91	17				100			47	53	37 38	2174	8.14	
SS	SA	2S	36	6.7	3,713	3,464	644			2	98	0	23	26	50	34 26	1129	5.26	3
SS	SA	3S	6	6.9	654	609	113		33	13	54	6	16	16	62	34 12	236	1.60	2
SS	SA	4S	1		33	33	6		100			53	47			20 7	31	0.40	1
SS	PU	3S		12.5	6	5	1			100			100			26 13	140	2.62	
SS	PU	U	11	18.2	1,283	1,050	195		1	1	98	2	28	36	34	34 33	1537	7.83	
SS	Totals		23	7.3	10,398	9,640	1,793		3	2	96	1	37	26	35	32 24	995	4.98	9
RC	L	3S	6	22.5	194	150	28				100	30	32	21	17	25 26	599	5.47	
RC	L	1R		23.2	127	98	18				100				100	40 35		13.82	
RC	L	2R	6	20.2	167	133	25				100			29	71	37 32	1439		
RC	SA	38	72	7.2	1,767	1,640	305		11	21	68	2	8	39	50	34 14		2.19	5
RC	SA	4S			13	13	2		100			100				15 8		0.49	
RC	SA	1R	2		37	37	7				100		100			26 40		15.19	
RC	SA	2R	10	8.2	240	221	41				100	13			87	37 29		7.61	
RC	Totals		6	10.0	2,545	2,292	426		8	15	76	5	10	31	54	32 15	361	2.69	6
		25	47	2.4	260	252	47			85	15				100	29 15	207		
S	SG SG	2S 3S	21	2.4	260 108	253 108	47 20		87	85 13	15	15		7	100 78	38 15 33 9	307 88	1.73 0.82	1
S S	SG PU	3S 4S	3		108	108	20		87 100	13		13	100	/	10	29 6	88 40	0.82	1
s	0	45 2S	23		17	17	3 23		100		100		100	75	25	29 6 34 25	40 994	0.43 4.39	
s s	0	28 38	6		31	31	23 6				100			15	25 100	34 25 36 24		4.39	
	0	23	_	_															
S T	otals		1	1.1	538	531	99		21	43	36	3	3	19	75	34 11	202	1.30	2
HM	SG	28	27	3.4	56	55	10			100		1		54	46	35 14	22.5	1.45	

Species, Sort Grade - Board Foot Volumes (Type) Page 2 Т TSPCSTGR **Project:** KOSEAST Date 3/11/2024 Time 4:45:32PM T68S R76E S23 T0090 T68S R76E S23 T0090 Sample Trees Twp Tract Туре Acres Plots Rge Sec CuFt BdFt KOSEAST 0090 748 68S 76E 23 186.00 188 S W Percent Net Board Foot Volume Average Log % Logs S So Gr Net Bd. Ft. per Acre Total Log Scale Dia. Log Length CF/ Ln Dia Bd Per T rt ad BdFt Spp Def% Gross Net Net MBF Ft In Ft 6-11 12-16 17+ 12-20 21-30 31-35 36-99 Lf /Acre 4-5 15 78 101 0.86 78 78 30 70 22 29 10 HM SG3S 40 .8 HM CS 32 32 3S16 6 100 100 36 6 60 0.37 .5 HM PU 4S17 15.5 37 32 6 1008 92 23 6 24 0.38 1.3 196 37 2.8 0 204 44 23 46 HM Totals 3.8 56 1 29 28 8 69 0.63 Type Totals 7.6 45,025 41,615 7,740 18 67 2 18 32 48 33 13 276 1.72 150.7 14

IC TSTATS					ST projec	TATIST	ICS koseast			PAGE DATE	1 3/20/2024
TWP RGE	SECT	TR	АСТ		TYPE	ACI		PLOTS	TREES	CuFt	BdFt
68S 76E			SEAST		0090		186.00	188	748	S	W
					TREES		ESTIMATED FOTAL		PERCENT SAMPLE		
	PLOTS	5	TREES		PER PLOT		TREES	1	FREES		
TOTAL	18	38	748		4.0						
CRUISE DBH COUNT REFOREST COUNT BLANKS 100 %	18	38	748		4.0		15,448		4.8		
				STA	ND SUMM	ARY					
	SAMPLE TREES		TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
W HMLK	:	586	71.2	20.3	67	35.5	159.7	31,341	28,956	6,310	6,308
S SPRUCE		85	3.8	32.9	87	4.0	22.7	10,398	9,640	1,532	1,532
RCDR OG		59	4.1	27.4	58	3.2	16.8	2,545	2,292	553	553
SPRC SG		11	1.6	18.0	60	0.7	2.9	538	531	116	116
HMLK SG TOTAL		7 748	2.3 83.1	12.7 21.2	38 66	0.6 <i>44.3</i>	2.0 204.0	204 <i>45,025</i>	196 <i>41,615</i>	50 8, <i>561</i>	50 8,559
	.1 TIMES O	UT OF	6 100 THE VO	DLUME WII	LL BE WIT	HIN THE S	SAMPLE ERR	OR			
CI. (0.1)	V CC	NEEE									
CL: 68.1		DEFF	SE%	L		E TREES -		#	# OF TREES 5	-	INF. POP.
CL: 68.1 SD: 1.0 W HMLK	VA	DEFF AR.% 14.2	S.E.% 4.7	L	SAMPLE OW 877	E TREES - AVG 920	BF HIGH 964	#	# OF TREES 5	REQ. 10	
SD: 1.0	VA 11	AR.%		L	OW	AVG	HIGH	#		-	
SD: 1.0 W HMLK S SPRUCE RCDR OG	VA 11 5	AR.% 14.2 70.6 84.1	4.7 7.7 10.9	L	OW 877 5,608 1,015	AVG 920 6,073 1,140	HIGH 964 6,538 1,264	#		-	INF. POP. 1
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG	VA 11 2 8 11	AR.% 14.2 70.6 84.1 15.9	4.7 7.7 10.9 36.6	L	0W 877 5,608 1,015 424	AVG 920 6,073 1,140 669	HIGH 964 6,538 1,264 914	#		-	
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG	VA 11 5 8 11 8	AR.% 14.2 70.6 84.1 15.9 80.6	4.7 7.7 10.9 36.6 32.8		0W 877 5,608 1,015 424 107	AVG 920 6,073 1,140 669 159	HIGH 964 6,538 1,264 914 211	#	5	10	1
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL	VA 11 5 11 11 15	AR.% 14.2 70.6 84.1 15.9	4.7 7.7 10.9 36.6		0W 877 5,608 1,015 424 107 1,425	AVG 920 6,073 1,140 669 159 <i>1,512</i>	HIGH 964 6,538 1,264 914 211 <i>1,600</i>		5 994	10 249	1
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL	VA 11 5 11 8 15 66 CC	AR.% 14.2 70.6 84.1 15.9 80.6 77.8	4.7 7.7 10.9 36.6 32.8		0W 877 5,608 1,015 424 107 1,425	AVG 920 6,073 1,140 669 159	HIGH 964 6,538 1,264 914 211 <i>1,600</i>		5	10 249	1
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK	VA 11 5 8 11 8 15 75 % CCC 8 6 7 9	AR.% 14.2 70.6 84.1 15.9 80.6 77.8 DEFF AR.% 98.1	4.7 7.7 10.9 36.6 32.8 5.8 <u>S.E.%</u> 4.0		0W 877 5,608 1,015 424 107 1,425 SAMPLI OW 176	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191		5 994 # OF TREES	10 249 REQ.	1 11 INF. POP.
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE	VA 11 5 8 11 8 15 75 % CCC 0 8 0 0 0	AR.% 14.2 70.6 84.1 15.9 80.6 77.8 DEFF AR.% 98.1 67.9	4.7 7.7 10.9 36.6 32.8 5.8 <u>S.E.%</u> 4.0 7.4		0W 877 5,608 1,015 424 107 <i>1,425</i> SAMPLI 0W 176 867	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004		5 994 # OF TREES	10 249 REQ.	1 11 INF. POP.
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE RCDR OG	VA 11 5 8 15 75 % CCC VA 9 6 8 8	AR.% 14.2 70.6 84.1 15.9 80.6 77.8 DEFF AR.% 98.1 67.9 84.2	4.7 7.7 10.9 36.6 32.8 5.8 <u>S.E.%</u> 4.0 7.4 11.0		0W 877 5,608 1,015 424 107 <i>1,425</i> SAMPLI 0W 176 867 236	AVG 920 6,073 1,140 669 159 <i>1,512</i> 7 TREES - AVG 183 935 265	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294		5 994 # OF TREES	10 249 REQ.	1 11 INF. POP.
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE	VA 11 5 8 15 75 % CCC 9 % CCC 9 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	AR.% 14.2 70.6 84.1 15.9 80.6 77.8 DEFF AR.% 98.1 67.9	4.7 7.7 10.9 36.6 32.8 5.8 <u>S.E.%</u> 4.0 7.4		0W 877 5,608 1,015 424 107 <i>1,425</i> SAMPLI 0W 176 867	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004		5 994 # OF TREES	10 249 REQ.	1 11 INF. POP.
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SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG	VA 11 8 11 8 15 15 6 6 0 8 9 0 13	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4		0W 877 5,608 1,015 424 107 <i>1,425</i> SAMPLI 0W 176 867 236 92 27	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51	#	5 994 # OF TREES 5	10 249 REQ. 10 176	11 INF. POP. 1
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 ° SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL	VA 11 5 8 15 76 VA 0 0 0 0 0 0 0 0 0 0 0 0 0	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.%	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.%	L	0W 877 5,608 1,015 424 107 1,425 SAMPLI 0W 176 867 236 92 27 260 TREES/4 0W	AVG 920 6,073 1,140 669 159 <i>1,512</i> C TREES - AVG 183 935 265 131 39 273 ACRE AVG	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH	#	5 994 # OF TREES 5 706	10 249 REQ. 10 176	11 INF. POP. 1 7 INF. POP.
SD: 1.0 SD: 1.0 W HMLK SSPRUCE RCDR OG SPRCS HMLK SG TOTAL CL: 68.1 SDRUCE G W HMLK SSPRUCE RCDR OG SPRCSG HMLK SG TOTAL CL: 68.1 SDRUSG G TOTAL G CL: 68.1 SD: 1.0 W HMLK G TOTAL G	VA 11 5 8 15 7 7 7 8 15 7 7 7 7 8 15 7 7 8 15 15 15 15 15 15 15 15 15 15	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 99.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2	L	0W 877 5,608 1,015 424 107 1,425 SAMPLI 0W 176 867 236 92 27 260 TREES/4 0W 67	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273 ACRE AVG 71	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76	#	5 994 # OF TREES 5 706 # OF PLOTS	10 249 REQ. 10 176 REQ.	11 INF. POP. 1 7 INF. POP.
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SDRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK SSP: V	VA 11 5 8 15 76 VA 9 0 8 9 0 8 9 0 8 9 0 8 9 0 8 9 0 8 9 0 8 9 0 8 9 0 8 9 0 13 15 15 15 15 15 15 15 15 15 15	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 22.7	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0	L	OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 3	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 2 <i>73</i> AVG AVG 71 4	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5	#	5 994 # OF TREES 5 706 # OF PLOTS	10 249 REQ. 10 176 REQ.	11 INF. POP. 1 7 INF. POP.
SD: 1.0 SD: 1.0 W HMLK SSPRUCE RCDR OG SPRCS HMLK SG TOTAL CL: 68.1 SDRUCE G W HMLK SSPRUCE RCDR OG SPRCSG HMLK SG TOTAL CL: 68.1 SDRUSG G TOTAL G CL: 68.1 SD: 1.0 W HMLK G TOTAL G	VA 11 5 5 6 6 7 7 7 7 7 7 7 7 7 8 15 7 7 7 8 15 7 7 8 15 15 15 15 15 15 15 15 15 15	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 99.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2	L	0W 877 5,608 1,015 424 107 1,425 SAMPLI 0W 176 867 236 92 27 260 TREES/4 0W 67	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273 ACRE AVG 71	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76	#	5 994 # OF TREES 5 706 # OF PLOTS	10 249 REQ. 10 176 REQ.	11 INF. POP. 1 7 INF. POP.
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRCSG HMLK SG TOTAL CL: 68.1 S SPRUCE RCDR OG SPRC SG HMLK SG SO: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK SU: 1.0 W HMLK S SPRUCE RCDR OG	VA 11 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0	L	OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 3	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273 AVG 71 4 4 4	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5 5	#	5 994 # OF TREES 5 706 # OF PLOTS	10 249 REQ. 10 176 REQ.	11 INF. POP. 1 7 INF. POP.
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK SD: 1.0 W HMLK SD: 1.0 W HMLK SD: 1.0	VA 11 5 5 6 12 15 15 6 0 0 13 6 0 13 6 0 13 6 0 13 15 15 15 15 15 15 15 15 15 15	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0 75.4	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9	L	OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 1	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273 AVG 71 4 4 2	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5 5 2	#	5 994 # OF TREES 5 706 # OF PLOTS	10 249 REQ. 10 176 REQ.	11 INF. POP. 1 INF. POP. 1
SD: 1.0 W HMLK S SPRUCE RCDR OG SPRCSG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 0 Y 9 CL: 68.1 SD: 0 Y 10 W HMLK 10 W HMLK 5 SPRUCE 68.1 SPRUCE 10	VA 111 5 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0	AR.% 14.2 70.6 84.1 15.9 80.6 77.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0 75.4 67.3	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9 70.5	L	OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 1 1 78	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273 ACRE AVG 71 4 4 2 2	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5 2 4 88	#	5 994 # OF TREES 5 706 # OF PLOTS 5	10 249 REQ. 10 176 REQ. 10 59	11 INF. POP. 1 INF. POP. 1
SD: 1.0 SD: 1.0 W HMLK SSPRUCE RCDR OG SPRCS HMLK SG 1.0 W HMLK SSPRUCE RCDR OG 1.0 W HMLK SSPRUCE RCDR OG SPRC SG HMLK SG 1.0 W HMLK SSPRUCE RCDR OG 1.0 W HMLK SG 1.0 W HMLK SSPRUCE RCDR OG SPRC SG HMLK SG 1.0 W HMLK SG 1.0 W HMLK SG 1.0 CL: 68.1 SDR SG 6 HMLK SG 1.0 CL: 68.1 SD: 1.0	VA 11 5 8 15 % CC VA 9 6 8 9 7 % CC VA 8 32 33 57 90 7 % CC	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0 75.4 67.3 77.0 DEFF AR.%	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9 70.5 5.6 5.6		OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 1 1 78 BASAL 4 OW	AVG 920 6,073 1,140 669 159 <i>I,512</i> C TREES - AVG 183 935 265 131 39 273 ACRE AVG 71 4 4 2 2 83 AREA/ACE AVG	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5 2 4 88 RE HIGH	#	5 994 # OF TREES 5 706 # OF PLOTS 5 237	10 249 REQ. 10 176 REQ. 10 59	1 INF. POP. 1 INF. POP. 1 2 INF. POP.
SD: 1.0 SD: 1.0 W HMLK S SPRUCE RCDROG SPRUE HMLK SD: 1.0 W HMLK SD: SD: 1.0 W HMLK SPRUE RCDROG SPRUE GL: 68.1 SD: I.0 W HMLK SPRUE CL: 68.1 SPRUE RCDROG SPRUE RCDROG SPRUE RCDROG SPRUE RCDROG SPRUE CL: 68.1 CL: 68.1 SD: 1.0 VHLK SOPROG GUI 68.1 SD: 1.0 W HMLK	VA 11 5 5 6 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0 75.4 67.3 7.0 DEFF AR.% 51.1	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9 70.5 5.6 5.6		OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 1 1 78 BASAL 4 OW 154 154	AVG 920 6,073 1,140 669 159 <i>I,512</i> TREES - AVG 183 935 265 131 39 273 ACRE AVG 71 4 4 2 83 AREA/ACE AVG 160	НІGH 964 6,538 1,264 914 211 1,600 CF НІGH 191 1,004 294 171 51 286 НІGH 76 5 5 2 4 88 RE НІGH 166	#	5 994 # OF TREES 5 706 # OF PLOTS 5 237 # OF PLOTS	10 249 REQ. 10 176 REQ. 10 59 REQ.	1 INF. POP. 1 INF. POP. 1 2 INF. POP.
SD: 1.0 SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL SCL: 68.1 SPRC SG HMLK SG TOTAL CL: 68.1 SDRC SG HMLK SG TOTAL	VA 11 5 8 15 % CCC VA 5 6 8 5 7 7 % CCC VA 8 5 7 90 7 % CCC VA 8 5 7 90 7 % CCC VA 8 90 7 7 8 13 13 13 13 13 13 13 13 13 13	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0 75.4 67.3 77.0 DEFF AR.% 51.1 70.0	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9 70.5 5.6 5.6 5.E.%		ow 877 5,608 1,015 424 107 1,425 SAMPLI ow 176 867 236 92 27 260 TREES/A ow 67 3 1 1 78 BASAL A ow 154 20	AVG 920 6,073 1,140 669 159 <i>I,512</i> C TREES - AVG 183 935 265 131 39 273 ACRE AVG 71 4 4 2 83 AVG AVG 160 23	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5 5 2 4 88 RE HIGH 166 26	#	5 994 # OF TREES 5 706 # OF PLOTS 5 237 # OF PLOTS	10 249 REQ. 10 176 REQ. 10 59 REQ.	11 INF. POP. 1 INF. POP. 1 2
SD: 1.0 SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SD: 1.0 W HMLK S SPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SPRC SG HMLK SG TOTAL CL: 68.1 SSPRUCE RCDR OG SPRC SG HMLK SG TOTAL CL: 68.1 SCDR SG HMLK SG TOTAL	VA 11 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 84.8 29.7 71.0 75.4 67.3 7.0 DEFF AR.% 51.1	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9 70.5 5.6 5.6		OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/4 OW 67 3 1 1 78 BASAL 4 OW 154 154	AVG 920 6,073 1,140 669 159 <i>I,512</i> TREES - AVG 183 935 265 131 39 273 ACRE AVG 71 4 4 2 83 AREA/ACE AVG 160	НІGH 964 6,538 1,264 914 211 1,600 CF НІGH 191 1,004 294 171 51 286 НІGH 76 5 5 2 4 88 RE НІGH 166	#	5 994 # OF TREES 5 706 # OF PLOTS 5 237 # OF PLOTS	10 249 REQ. 10 176 REQ. 10 59 REQ.	1 INF. POP. 1 INF. POP. 1 2 INF. POP.
SD: 1.0 SD: 1.0 W HMLK S SPRUCE RCDROG SPRUE TOTAL CL: 68.1 SD: 1.0 W HMLK S SPRUCE RCDROG SPRUE CL: 68.1 SPRUE CL: 68.1 SD: 1.0 W HMLK SSPRUE RCD: 1.0 W HMLK SSPRUE RCD: SSPRUE RCD:	VA 11 5 5 6 15 6 15 7 6 0 13 6 0 13 6 0 13 6 0 13 6 0 13 6 0 13 6 0 13 6 0 13 6 0 13 15 15 15 15 15 15 15 15 15 15	AR.% 14.2 70.6 84.1 15.9 80.6 7.8 DEFF AR.% 98.1 67.9 84.2 94.6 77.2 22.9 DEFF AR.% 92.1 77.2 22.9 DEFF AR.% 92.7 71.0 75.4 67.3 7.0 DEFF AR.% 51.1 70.0 19.1	4.7 7.7 10.9 36.6 32.8 5.8 5.8 5.8 5.8 4.0 7.4 11.0 29.9 31.4 4.9 5.E.% 6.2 24.0 27.0 41.9 70.5 5.6 5.6 5.E.% 3.7 12.4 23.3		OW 877 5,608 1,015 424 107 1,425 SAMPLI OW 176 867 236 92 27 260 TREES/A OW 67 3 1 1 78 BASAL A OW 154 20 13 3	AVG 920 6,073 1,140 669 159 <i>1,512</i> 2 TREES - AVG 183 935 265 131 39 273 ACRE AVG 71 4 4 2 83 AREA/ACH AVG 160 23 17	HIGH 964 6,538 1,264 914 211 1,600 CF HIGH 191 1,004 294 171 51 286 HIGH 76 5 2 4 88 RE HIGH 166 26 21	#	5 994 # OF TREES 5 706 # OF PLOTS 5 237 # OF PLOTS	10 249 REQ. 10 176 REQ. 10 59 REQ.	1 INF. POP. 1 INF. POP. 1 2 INF. POP.

TC TST.	ATS			PROJE	STATIS ECT	STICS KOSEAST			PAGE DATE	2 3/20/2024
TWP	RGE	SECT 7	TRACT	ТҮРЕ	A	CRES	PLOTS	TREES	CuFt	BdFt
68S	76E	23 I	KOSEAST	0090		186.00	188	748	S	W
CL:	68.1%	COEFF	7	NET B	F/ACRE			# OF PLC	TS REQ.	INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
CL:	68.1 %	COEFF	1	NET B	F/ACRE			# OF PLOTS	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
W HM	1LK	57.3	4.2	27,746	28,956	30,166				
S SPR	UCE	175.3	12.8	8,408	9,640	10,871				
RCDR	ROG	338.8	24.7	1,726	2,292	2,857				
SPRC	SG	451.1	32.9	357	531	706				
HMLI	K SG	1184.8	86.3	27	196	366				
TOTA	AL	51.3	3.7	40,060	41,615	43,171		105	26	12
CL:	68.1 %	COEFF	7	NET C	UFT FT/A	CRE		# OF PLOTS	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
W HM	1LK	53.0	3.9	6,065	6,308	6,552				
S SPR	UCE	171.6	12.5	1,340	1,532	1,723				
RCDR	ROG	327.9	23.9	421	553	685				
SPRC	SG	440.3	32.1	79	116	153				
HMLI	K SG	1126.0	82.0	9	50	91				
TOTA	AL	44.6	3.2	8,281	8,559	8,837		79	20	9

ADNR-DOF Sort Guidelines

Southeast Alaska

(2 pages)

Revised Sort Matrix Reference Card (For Old Growth Cruising)

Code	Description	Min. Length	Min. Diameter
	·	8	
А	<u>SPRUCE AND HEMLOCK LOGS</u> High Grade Sort	14'	24"
~	Clean appearing #2 and better.	14	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.		
	RED CEDAR LOGS		
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'

Young Growth Product Categories

There is no need to cruise these sorts, these guidelines can be used to set up a log stock report. See Appendix B. Young Growth Cruise Specifications

Min. Max Min. Diameter Diameter Length Code Description All Species 20" Ο Oversize 16' #3 and better sawlog. Standard/Gang 16' 8" 20" S #3 and better sawlog. 6" 8" Ν Chip and Saw 16' #3 sawlog. 36' only allowed length. No Bark seems.

ADNR-DOF Young Growth Reporting for Southeast Alaska

Log Grades

Grade	Abrv	Desc	Fbr	Min Diameter	Min Length	Min Vol	Vol Type
0	CU	CULL	G	6	1	0	
1	1S	#1 SAW	G	24	16	0	
2	2S	#2 SAW	G	12	12	60	Net
3	3S	#3 SAW	G	6	12	50	Net
4	4S	#4 SAW	G	6	12	10	Net
5	S	SP MILL	G	16	17	0	
7	1R	1 SAW RC	G	28	16	500	Net
8	2R	2 SAW RC	G	20	12	210	Net
Р	PE	PEELER	G	24	17	0	
S	SL	SELECT	G	30	16	90	%clear
U	U	UTILITY	G	6	12	0	