

Appendix C-2

GROSS TIMBER VOLUME BY SUBUNIT

The estimated gross volumes in each subunit where forestry is one of the designated uses are listed below. This information is based on the timber inventory done by the US Forest Service, US Soil and Conservation Service, and Alaska Department of Natural Resources in 1978-80.¹ High site forests are mixed forests, cottonwood forests, and closed white spruce forests. Low site forests are black spruce forests and open white spruce forests. Approximately 98% of the volume for the "birch and aspen" category is birch.

PHASE I - EAST SIDE

	VOLUME (Thousand cubic feet)			VOLUME (Thousand cubic feet)		
	Spruce ²	Birch & Aspen	Cottonwood	High site	Low site	TOTAL
Forestry Co-primary						
Deception Creek 3a	930	1,150	20	1,500	600	2,100
Deception Creek 3b	630	930	10	1,240	330	1,570
Deception Creek 4	130	160	<10	210	90	290
Deception Creek 5a	1,590	2,430	40	3,270	780	4,060
Deception Creek 5b	720	1,330	20	1,790	280	2,070
Deception Creek 6	180	240	<10	320	110	420
Deception Creek 7a	490	950	20	1,310	140	1,460
Deception Creek 7b	800	1,640	20	2,220	250	2,460
Kashwitna 1a	2,630	2,700	30	3,810	1,540	5,360
Kashwitna 1b	3,410	4,240	190	6,350	1,480	7,840
Willow 6	1,190	480	17,310	18,840	140	18,980
Willow 12d	450	160	<10	170	450	610
South Parks Highway 2	3,260	4,950	11,230	19,360	70	19,440
South Parks Highway 11	160	360	<10	520	-0-	520
South Parks Highway 12a	3,970	4,080	40	6,630	1,450	8,090
South Parks Highway 12b	3,530	3,540	60	6,220	900	7,130
Petersville Road 1a (east)	4,800	6,990	-0-	11,660	130	11,790
Petersville Road 6d	-0-	-0-	-0-	-0-	-0-	-0-
Petersville Road 7d	60	120	<10	180	-0-	180
Subtotal	28,930	36,450	28,990	85,600	8,740	94,370

¹ For information on the inventory methodology, see USDA Soil Conservation Service. 1986. Timber and Vegetation Resources of the Susitna River Basin - Alaska Report. Anchorage, AK 49 pp. + appendices.

² Includes white spruce and black spruce.

PHASE 1 - EAST SIDE, cont.

	VOLUME (Thousand cubic feet)			VOLUME (Thousand cubic feet)		
	Spruce	Birch & Aspen	Cottonwood	High site	Low site	TOTAL
Forestry Secondary						
South Parks Highway 9c	290	540	<10	840	-0-	830
South Parks Highway 14b	220	330	780	1,200	130	1,330
Willow 4a	1,440	1,500	100	2,550	490	3,040
Petersville Road 3a	320	250	<10	570	<10	570
Petersville Road 3g	40	70	<10	110	-0-	110
Petersville Road 6c	910	1,500	10	2,300	120	2,420
Petersville Road 7c	750	1,370	10	2,100	30	2,130
<i>Subtotal</i>	3,970	5,560	900	9,670	770	10,430
Personal Use						
South Parks Highway 4a	510	950	<10	1,460	10	1,460
South Parks Highway 4f	1,200	2,570	30	3,770	30	3,800
South Parks Highway 4g	140	330	10	480	10	480
South Parks Highway 10b	320	290	480	930	170	1,050
Petersville Road 2b	920	2,020	20	2,960	10	2,960
<i>Subtotal</i>	3,090	6,160	540	9,600	230	9,790
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PHASE 1 - EAST SIDE: TOTAL	35,990	48,170	30,430	104,870	9,740	114,590
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ESTIMATED PHASE 1 - EAST SIDE: NET ³ <i>(excludes prohibited areas)</i>				82,290- 88,730	7,280- 8,000	89,570- 96,730

³ Net volumes are estimated from (Net acreage/gross acreage) X gross volume. Site specific volumes are not available for prohibited and conditional areas.

PHASE 1 - MT. SUSITNA

	VOLUME (Thousand cubic feet)			VOLUME (Thousand cubic feet)		TOTAL
	Spruce	Birch & Aspen	Cottonwood	High site	Low site	
Forestry Co-primary						
Mount Susitna 2b	1,720	1,380	400	3,450	40	3,500
Mount Susitna 2c (west)	5,180	5,010	370	10,430	130	10,560
<i>Subtotal</i>	<i>6,900</i>	<i>6,390</i>	<i>770</i>	<i>13,880</i>	<i>170</i>	<i>14,060</i>
Personal Use						
Mount Susitna 4a (west)	20	40	-0-	60	-0-	60
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PHASE 1- MT. SUSITNA: TOTAL	6,920	6,430	770	13,940	170	14,120
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ESTIMATED PHASE 1-MT. SUSITNA: NET <i>(excludes prohibited areas)</i>				12,890- 13,190	160	13,050- 13,350

PHASE 2

	VOLUME (Thousand cubic feet)			VOLUME (Thousand cubic feet)		
	Spruce	Birch & Aspen	Cottonwood	High site	Low site	TOTAL
Forestry Co-primary						
Willow 8a	3,140	4,970	1,430	8,040	1,500	9,540
Susitna Lowlands 11a	14,310	21,630	1,450	33,430	3,970	37,390
Susitna Lowlands 12b	4,390	6,150	30	9,470	1,100	10,570
Susitna Lowlands 14e	1,900	3,330	1,830	6,930	130	7,060
Petersville Road 1a (west)	7,190	10,270	150	15,770	1,840	17,610
<i>Subtotal</i>	30,930	46,350	4,890	73,640	8,540	82,170
Forestry Secondary						
Susitna Lowlands 9a	2,290	2,560	30	3,570	1,310	4,880
Susitna Lowlands 11c	230	430	<10	660	<10	660
Susitna Lowlands 11f	260	430	<10	650	40	690
Susitna Lowlands 14a	8,200	7,160	280	10,020	5,620	15,640
<i>Subtotal</i>	10,980	10,580	310	14,900	6,970	21,870
Resource Management						
Susitna Lowlands 9c	3,790	4,600	40	6,590	1,830	8,430
Susitna Lowlands 12a	5,650	9,180	40	13,880	980	14,870
<i>Subtotal</i>	9,440	13,780	80	20,470	2,810	23,300
PHASE 2: TOTAL	51,350	70,710	5,280	109,010	18,320	127,340
ESTIMATED PHASE 2: NET (excludes prohibited areas)				100,090- 103,290	16,870- 17,680	116,960- 120,970

PHASE 3

	VOLUME (Thousand cubic feet)			VOLUME (Thousand cubic feet)		
	Spruce	Birch & Aspen	Cottonwood	High site	Low site	TOTAL
Forestry Co-primary						
Susitna Lowlands 3a ⁴	800	1,340	1,090	3,220	10	3,230
Susitna Lowlands 5a	1,090	2,360	20	3,460	20	3,470
Susitna Lowlands 5f	2,860	5,180	60	7,350	740	8,100
Susitna Lowlands 6e	2,160	3,410	30	5,070	520	5,600
Susitna Lowlands 7a	8,790	15,880	70	24,290	440	24,740
Susitna Lowlands 13b	950	1,760	20	2,550	170	2,730
Mount Susitna 2c (east)	3,930	4,140	310	7,040	1,340	8,380
Mount Susitna 3f	30	60	<10	100	<10	90
Subtotal	20,610	34,130	1,600	53,080	3,240	56,340
Forestry Secondary						
Sunflower Basin 6a	1,120	670	120	1,420	480	1,910
Sunflower Basin 6c	540	730	30	1,070	230	1,300
Susitna Lowlands						
1a and 1b	13,720	19,090	2,630	32,270	3,170	35,440
Susitna Lowlands 2a ⁴	13,400	12,870	1,710	26,810	1,170	27,980
Susitna Lowlands 2d	320	250	30	580	20	600
Susitna Lowlands 3c ⁴	90	250	<10	350	-0-	340
Susitna Lowlands 6a	5,330	8,760	40	13,280	840	14,130
Susitna Lowlands 13d ²	3,340	6,040	3,340	11,450	1,280	12,720
Susitna Lowlands 13e	850	1,490	50	2,350	50	2,390
Mount Susitna 5a	530	1,110	190	1,830	-0-	1,830
Alaska Range 1b	5	-	-	-	-	-
Subtotal	39,240	51,260	8,140	91,410	7,240	98,640
Resource Management						
Susitna Lowlands 2f	1,190	890	430	2,430	80	2,510
Susitna Lowlands 5b	140	270	0	410	0	410
Susitna Lowlands 6b	3,050	5,030	20	7,650	450	8,100
Susitna Lowlands 8b	6,230	9,660	130	13,410	2,600	16,020
Mount Susitna 3c	280	540	<10	820	-0-	820
Mount Susitna 4d	4,310	7,800	30	11,930	210	12,140
Mount Susitna 6c	6	-	-	-	-	-
Subtotal	15,200	24,190	610	36,650	3,340	40,000

⁴The western part of this subunit is outside the area where detailed vegetation maps (1:63,360 scale) are available. Existing data is inadequate to estimate the timber acreage or volume in this part of the subunit.

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	— VOLUME (Thousand cubic feet) —			— VOLUME (Thousand cubic feet) —		
	Spruce	Birch & Aspen	Cottonwood	High site	Low site	TOTAL
Personal Use						
Susitna Lowlands 4b	3,120	7,490	120	10,390	340	10,730
Mount Susitna 4a (east)	430	790	10	1,220	-0-	1,230
<i>Subtotal</i>	<i>3,550</i>	<i>8,280</i>	<i>130</i>	<i>11,610</i>	<i>340</i>	<i>11,960</i>
PHASE 3: TOTAL	78,600	117,860	10,480	192,750	14,160	206,910
ESTIMATED PHASE 3: NET <i>(excludes prohibited areas)</i>				176,570- 186,430	13,090- 13,810	189,610- 200,240
GROSS TOTAL FOR STATE LANDS DESIGNATED FOR FORESTRY <i>(Forestry co-primary use, secondary use, resource management, reserved use, or personal use)</i>						
	172,860	243,170	46,960	420,570	42,390	462,990
ESTIMATED NET TOTAL <i>(excludes prohibited areas)</i>				371,840- 391,640	37,420 39,650	409,360- 431,290