


**APPRAISAL OF TIMBER KILLED BY
SOME IMPORTANT INSECTS IN
BRITISH COLUMBIA FROM
1961-1965 INCLUSIVE**

by

C. B. Cottrell and R. L. Fiddick

**FOREST RESEARCH LABORATORY
VICTORIA, BRITISH COLUMBIA
INFORMATION REPORT BC-X-26**

**FORESTRY BRANCH
DEPARTMENT OF FISHERIES AND FORESTRY
DECEMBER, 1968**



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METHODS

Aerial surveys and vantage point counts of dead trees, supported by representative ground tallies, were used in obtaining the mortality estimates for this report. The initial estimate from the air was achieved by mapping infested or dead timber as distinguished by discolored crowns. In areas of sparse mortality trees were counted directly. Where mortality occurred in groups of trees an estimate was made of the number of trees killed in each group. Boundaries of widespread continuous outbreaks were defined from the air by damage classes, based on an estimate of the percentage of trees killed per acre. Vantage point counts consisted of counts of current dead trees on adjoining slopes or in valleys, with the aid of binoculars.

Appraisal of white spruce and alpine fir mortality, caused by bark beetles in recent years in the Prince George and Prince Rupert Forest districts, required a "damage class" type of aerial observation supplemented by ground cruises. Mortality surveys in Douglas-fir and pines were accomplished by the direct count approach supplemented by sufficient ground measurements for volume conversion. In the case of insect defoliators it was necessary to map infestations from the air by damage class, and to follow this with an annual check of ground strips to record progressive mortality until the effect of defoliation was no longer evident.

Volume calculations were based on British Columbia Forest Service volume tables. Gross volumes are presented without deductions for cull and breakage. Data (in this report) are arranged by region and compartment within each Forest District to facilitate orientation with commonly used administrative units. Compartments have been identified, as much as possible, by named geographic features, generally creeks.

RESULTS

There was more than one billion cubic feet of timber killed by bark beetles between 1961 and 1965, compared to just under 200 million cubic feet from 1956 to 1960 (Table 1). This increase was largely due to a widespread intensive outbreak of spruce beetle in the Prince George and Prince Rupert Forest districts and heavy mortality of alpine fir in the Prince Rupert District caused by a beetle-disease complex. Losses due to defoliator insect infestations were small in comparison (Table 2). Two species of defoliators caused all the recorded damage.

A detailed breakdown of volume losses is provided in the appendices. Appendices I to 10 summarize the records for the period 1961 to 1965 by insect for each region and compartment. Appendix II is an addendum, not shown in the 1962 report, summarizing mountain pine beetle losses in western white pine for the period 1956 to 1960.

Table 1

Volume of timber (ft³) killed by bark beetles in British Columbia for the periods 1956-60 and 1961-65

Tree species	Interior		Coastal		Totals	
	1956-60	1961-65	1956-60	1961-65	1956-60	1961-65
White spruce		440,553,125	21,000	64,411,680	21,000	504,964,805
Douglas-fir	7,041,291	9,298,350	8,343,205	10,465	15,384,496	9,308,815
Alpine fir	13,504,895	48,922,150		431,467,040	13,504,895	480,389,190
Western white pine	548,345	3,779,985	134,913,000	8,657,000	135,461,345	12,436,985
Lodgepole pine	684,758	4,128,400	10,286,700		10,971,458	4,128,400
Ponderosa pine	110,383	788,900			110,383	788,900
Engelmann spruce	1,951,900	104,225			1,951,900	104,225
Grand fir			300,000		300,000	
Totals	23,841,572	507,575,135	153,563,905	504,546,185	177,705,477	1,012,121,320

Table 2

Volume of timber (ft³) killed by defoliating insects in British Columbia for the periods 1956 to 1960 and 1961 to 1965

Tree species	Interior		Coast		Totals	
	1956-60	1961-65	1956-60	1961-65	1956-60	1961-65
Western hemlock			16,700	8,559,000	16,700	8,559,000
Amabilis fir			2,367,000	2,375,000	2,367,000	2,375,000
Western red cedar				97,000		97,000
Douglas-fir		12,000	13,000	81,000	13,000	93,000
Totals		12,000	2,396,700	11,112,000	2,396,700	11,124,000

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Appendix 1

Engelmann spruce (Picea engelmanni Parry) and white spruce

(P. glauca (moench) Voss^{1/})

killed by spruce beetle, Dendroctonus obesus (Mann.), 1961-65

Region	Comp.	Location	No. acres	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT				
37	5	Blair Cr.	<u>50</u> 50	<u>3,750</u> 3,750
57	9	Moirra L.	<u>150</u> 150	<u>33,600</u> 33,600
58	9	Vavenby	<u>100</u> 100	<u>10,000</u> 10,000
Total for Kamloops Forest Dist.			300	47,350
NELSON FOREST DISTRICT				
22	4	Enterprise Cr.	50	3,750
	10	Beatrice L.	75	5,625
	11	Wee Sandy Cr.	200	15,000
			<u>325</u>	<u>24,375</u>
39	8	Plante Cr.	<u>125</u> 125	<u>12,500</u> 12,500
40	15	Armstrong L.	<u>100</u> 100	<u>10,000</u> 10,000
42	1	Albert Cr.	<u>100</u> 100	<u>10,000</u> 10,000
Total for Nelson Forest Dist.			650	56,875

^{1/} Engelmann spruce in Kamloops and Nelson Forest districts, white spruce in Prince George and Prince Rupert Forest districts.

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
PRINCE GEORGE FOREST DISTRICT				
55	21	Tako Cr.	160	35,840
			<u>160</u>	<u>35,840</u>
56	1	Marvin Cr.	6,520	3,622,160
	3	Ahbau Cr.	8,870	9,881,720
	4	Ahbau L.	5,870	4,558,640
	5	Bellos Cr.	1,380	2,164,560
	6	Uniti Cr.	2,880	2,960,280
	7	Lightning Cr.	1,470	905,860
	8	Lightning Cr.	470	123,440
	11	Atis Cr.	540	257,160
	13	Swift R.	100	40,560
	14	Swift R.	1,660	680,560
	17	Deacon Cr.	2,950	1,566,280
	20	Gerimi Cr.	80	17,920
			<u>32,790</u>	<u>26,779,140</u>
59	14	Raush Va.	200	44,800
	30	Snowshoe Cr.	440	98,560
	31	Ptarmigan Cr.	280	62,720
	33	Redmountain Cr.	860	301,600
	34	Humbug Cr.	360	80,640
	39	Forgetmenot Cr.	320	71,680
	41	Walker Cr.	5,840	3,072,960
	42	Torpy R.	3,020	1,511,840
	43	Torpy R.	510	114,240
	44	Torpy R.	4,950	2,327,120
	45	McGregor R.	20,700	15,049,440
	46	Seebach Cr.	8,100	10,553,520
	47	Otter Cr.	4,200	2,520,720
	48	James Cr.	1,300	436,480
	49	McGregor R.	15,600	8,343,120
	50	McGregor R.	19,320	4,836,160
	51	Herrick Cr.	4,200	1,434,400
	52	Fontoniko Cr.	1,640	1,093,760

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
59	53	Herrick Cr.	12,840	9,829,600
	55	Herrick Cr.	80	17,920
	56	McGregor R.	15,410	16,669,360
	57	McGregor R.	1,520	848,960
	62	Slim Cr.	480	107,520
	65	Hungary Cr.	2,680	972,600
	68	Kenneth Cr.	9,820	5,142,280
	69	McGregor R.	18,710	22,062,240
	70	Bowron R. (N)	9,160	9,889,680
	71	Loup L.	16,560	16,304,800
	72	Bowron R. (N)	12,360	18,132,000
	73	Bowron R. (N)	5,980	7,038,720
	74	Purden L.	1,150	257,600
	75	Tsus Cr.	420	354,080
	77	Ames Cr.	320	71,680
	78	Pinkerton Cr.	120	26,880
	79	Wendle Cr.	220	49,280
	80	Haggen Cr.	240	53,760
	85	Summit Cr.	140	31,360
	91	Hansard L.	2,680	3,401,680
	92	Aleza L.	1,370	1,056,760
	93	Bearman Cr.	9,560	12,934,080
	94	Herring Cr.	4,200	5,306,200
	95	Olsson Cr.	3,510	6,370,900
	96	Averil Cr.	5,760	6,701,440
	97	Barney Cr.	5,840	1,526,080
	98	Giscome Canyon	3,680	2,161,440
	99	Charlie Cr.	1,300	1,949,360
	101	Bateman Cr.	100	67,800
	109	Bowes Cr.	1,420	318,080
	112	E. of Buckhorn L.	160	108,480
	114	Wansa Cr.	16,760	25,000,960
	115	Pitoney Cr.	18,890	23,117,720
	116	George Cr.	220	49,280
	117	Hurtubise Cr.	1,780	2,582,640
	118	Teapot L.	5,500	2,347,080
	119	Narrow L.	160	35,840
	120	S. of Narrow L.	1,920	466,400
	121	Stony L.	2,140	642,800

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
59	122	Stephanie Cr.	540	157,280
	123	E. of Lodi L.	3,290	1,245,440
	124	Paput Cr.	4,620	2,134,320
	125	Big Valley Cr.	120	26,880
	126	Tregillus Cr.	2,610	947,840
	127	Slough Cr.	1,360	504,400
	128	N. of Foreman	280	62,720
	134	Stone Cr.	440	298,320
	142	Hixon Cr.	280	62,720
	143	Terry Cr.	1,230	747,680
	144	Yardley Cr.	7,740	7,274,600
	145	Naver Cr.	5,940	2,786,640
				<u>315,450</u>
60	7	Nadsilnich L.	100	22,400
	8	Woodpecker	130	29,120
			<u>230</u>	<u>51,520</u>
68	2	Salmon R.	130	29,120
	5	Salmon R.	1,240	277,760
	6	Salmon R.	200	135,600
	16	Merton Cr.	2,060	461,440
	19	Merton L.	7,640	3,741,920
	20	N. of Peculiar L.	680	261,280
	21	Mossvale L.	130	29,120
	23	Peculiar L.	1,180	282,480
	28	Great Beaver L.	3,130	2,044,960
	30	Great Beaver L.	240	53,760
			<u>16,630</u>	<u>7,317,440</u>
69	8	Cut Thumb Cr.	800	179,200
	9	Nation R.	920	206,080
	10	Nation R.	2,720	1,299,360
	11	Nation R.	340	212,360
	12	Nation R.	4,860	3,158,880
	13	Philip Cr.	320	71,680
	15	Philip Cr.	7,080	1,585,920
	16	Philip L.	1,520	340,480
	17	E. of Philip L.	600	134,400
	48	Dina L.	540	120,960
	49	Dastaiga Cr.	4,600	3,130,240

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
69	52	Mugaha Cr.	7,640	7,598,800
	54	S. of Morfee L.	60	114,960
	55	Tsedeka Cr.	1,380	309,120
	56	Scovil Flats	660	695,080
	57	Scovil Cr.	280	189,840
	58	Gataiga Cr.	3,580	2,821,600
	61	Parsnip R.	80	17,920
	66	Isadore Cr.	12,260	8,265,920
	69	Reynolds Cr.	2,040	892,800
	72	Firth L.	5,700	3,081,200
	73	Parsnip R. (E)	2,460	2,665,680
	74	Destilida L.	1,320	926,320
	75	Anzac Cr.	240	53,760
	80	Tacheeda L.	3,680	1,677,840
	81	Wooyadilinka Cr.	5,410	2,582,920
	82	Parsnip R. (E)	12,410	3,179,360
	83	Table R.	1,080	241,920
	86	Parsnip R. (E)	4,160	1,712,720
	89	Wichcika Cr.	800	451,600
	92	Parsnip R. (E)	9,740	3,044,360
	93	Arctic L.	1,160	332,480
	94	Lignite Cr.	820	347,120
	95	Tudyah L.	1,600	1,297,680
	96	Holder Cr.	2,240	1,226,480
	97	War L.	1,700	653,200
	101	McDougall R.	760	170,240
	102	Carp L.	3,980	1,109,440
	103	McLeod L.	13,580	5,557,080
	104	Hammett Cr.	3,890	4,583,920
	105	Attezega Cr.	22,700	21,447,440
	106	Weedon Cr.	14,030	8,740,540
107	Weedon L.	7,200	3,565,000	
108	Redrocky Cr.	5,360	4,815,080	
109	Davie L.	16,180	11,904,720	
110	Davie L.	4,980	2,994,240	
111	Chuchinka Cr.	2,000	520,640	
112	Angusmac Cr.	10,580	3,931,680	
113	Dominion L.	11,840	3,959,680	
114	McEwan L.	3,960	887,040	
115	Summit L.	2,960	1,062,560	
129	Hammett Cr.	880	1,686,080	
			<u>231,680</u>	<u>131,755,620</u>

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
70	65	Wartenbe Mtn.	<u>200</u> 200	<u>383,200</u> 383,200
71	42	Boundary L.	<u>500</u> 500	<u>50,000</u> 50,000
73	99	Johnson Cr.	<u>750</u> 750	<u>1,437,000</u> 1,437,000
79	58	Tuchodi L.	<u>50</u> 50	<u>11,200</u> 11,200
86	84	Aline L.	50	30,000
	90	Smith R.	50	30,000
	91	Smith R.	200	120,000
	99	Liard R.	300	180,000
	108	Liard R.	<u>100</u> 700	<u>60,000</u> 420,000
Total for Prince George Forest Dist.			599,140	440,448,900

PRINCE RUPERT FOREST DISTRICT

60	134		4,320	1,341,120
	137		<u>320</u> 4,640	<u>43,520</u> 1,384,640
65	16		1,720	173,720
	17		7,760	1,365,760
	40		13,880	6,815,080
	42	Deuce Cr.	360	48,960
	42	Kitwanga R.	8,880	4,360,080
	43	Deuce Cr.	200	27,200
	44	Kitwanga R.	2,520	1,237,320
	46		9,280	4,371,880
	50		400	196,400
	53	Ironside Cr.	4,640	816,640
	54	Clifford Cr.	<u>1,280</u> 50,920	<u>628,480</u> 20,041,520

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
66	4	Shovel Cr.	680	333,880
	4	Helene L.	2,200	387,200
	10	Henrietta Cr.	12,440	3,010,240
	11	Sutherland Cr.	1,960	962,360
	13	Taltapin L.	3,040	1,080,840
	14	Ling L.	1,640	223,040
	14	Division L.	1,520	746,320
	15	Babine L.	360	48,960
	20	Pinkut Cr.	6,760	3,319,160
	22	Cross Cr.	920	125,120
	24	Babine L.	1,480	726,680
	25	Pierre Cr.	1,040	510,640
	40	Babine L.	4,400	444,400
	47	Babine L.	80	14,080
	48	Babine L.	1,560	765,960
	50	Babine L.	1,080	146,880
	51	Hagan Arm	200	35,200
	52	Babine L.	640	87,040
	52	Hatchery Arm	3,880	1,212,080
	53	Morrison L.	3,000	843,000
	57	Babine L.	2,400	1,077,600
	60	Babine L.	4,400	774,400
	61	Tsezaka Cr.	4,480	788,480
	62		2,560	745,760
	63	Nilkitkwa R.	400	125,400
	65	Gramophone Cr.	7,120	1,253,120
	66	Bulkley R.	12,280	2,161,280
	68	Harold Price Cr.	280	49,280
	69	Blunt Cr.	10,200	1,216,200
	70	Harold Price Cr.	12,600	2,217,600
	73	Skilokis Cr.	1,800	316,800
	74	Natlan Cr.	5,520	971,520
	75	Natlan Cr.	120	21,120
	77	Babine R.	320	43,520
	83		1,320	179,520
			<u>114,680</u>	<u>26,964,680</u>

Appendix 1 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
67	3		2,760	996,360
	4		2,200	1,030,200
	7		5,680	999,680
	8		17,360	5,071,360
	11		320	56,320
	12		4,320	760,320
	13	Trout Cr.	5,560	2,516,960
	14	Trout Cr.	6,360	1,688,560
	17	Telkwa R.	640	314,240
	21		8,440	1,485,440
	23		880	432,080
	24		1,000	263,800
	32	Nanika L.	1,520	355,520
			<u>57,040</u>	<u>16,020,840</u>
Total for Prince Rupert Forest Dist.			227,280	64,411,680
Total for British Columbia			827,370	504,964,805

Appendix 2

Douglas-fir (Pseudotsuga menziesii (Mirb.) Franco) killed by

Douglas-fir beetle, Dendroctonus pseudotsugae Hopk., 1961-65

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT					
13	5	Blind Cr.	80	65	5,200
	6	Manuel Cr.	50		3,250
	7	Olalla Cr.	40		2,600
	8	Cedar Cr.	20		1,300
	9	Yellowlake Cr.	310		20,150
	14	Paul Cr.	600		39,000
	32	Whistle Cr.	10	60	600
	33	Smith Cr.	25		1,500
	42	Siwash Cr.	30	70	2,100
	45	Shrimpton Cr.	40		2,800
	47	Rampart Cr.	60	65	3,900
	48	Summers Cr.	40		2,600
	49	Allison Cr.	130		8,450
	53	Mt. Darcy	25		1,625
	54	Wolfe Cr.	85	60	5,100
	59	Copper Mtn.	5		300
	60	Sunday Cr.	35	70	2,450
	61	Belgie Cr.	10	60	600
	62	Placer Cr.	20		1,200
	67	Manning Park	35	70	2,450
	71	Otter L.	20		1,400
	72	Boulder Mtn.	70		4,900
	74	Myren Cr.	50		3,500
	75	Thalia L.	55		3,850
	76	Missezoula L.	160		11,200
	77	Bluey L.	120		8,400
	78	Angstadt Cr.	140		9,800
	81	Lawless Cr.	170		11,900
			<u>2,435</u>		<u>162,125</u>
14	3	Orofino Cr.	70	65	4,550
	4	Mika Cr.	20	60	1,200
	5	Wolfcub Cr.	140		8,400
	6	McCuddy Cr.	410		24,600
	7	Orofino Cr.	100	65	6,500
	10	Shuttleworth Cr.	30		1,950
	12	McLean Cr.	30		1,950
	13	Shingle Cr.	50		3,250

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
14	14	Shatford Cr.	120	65	7,800
	24	Darke Cr.	60	60	3,600
	26	Naramata Cr.	40		2,400
	34	Mission Cr.	100		6,000
	36	Joe Rich Cr.	100		6,000
	37	Belgo Cr.	70	65	4,550
	40	Scotty Cr.	100	60	6,000
	44	Lambly Cr.	100		6,000
	45	Lambly Cr.	105		6,300
	49	Coldstream Cr.	65	65	4,225
	52	Shorts Cr.	30		1,950
	54	Bouleau Cr.	20		1,300
	55	Whiteman Cr.	565	60	33,900
	59	Pinaus L.	80	65	5,200
	60	Armstrong	30	70	2,100
62	Duteau Cr.	40		2,800	
			<u>2,475</u>		<u>152,525</u>
25	7	Nicola R.	75	70	5,250
	8	Nicola R.	60		4,200
	16	Coldwater R.	355	80	28,400
	27	Pothole Cr.	280	70	19,600
	29	Tommy L.	55		3,850
	30	Pennask L.	400	80	32,000
	31	Pennask L.	150		12,000
	32	Pennask L.	200		16,000
	33	Glimpse L.	620	70	43,400
	38	Douglas Plateau	3,300		231,000
	39	Douglas Plateau	55		3,850
	40	Peterhope L.	105	50	5,250
	41	Trapp L.	250		12,500
44	Le Jeune L.	230	40	9,200	
			<u>6,135</u>		<u>426,500</u>
33	4	Siwhe Cr.	5	70	350
	5	Intlpam Cr.	15		1,050
	8	Cayoosh Cr.	200		14,000
	11	Anderson L. (E)	85		5,950
	12	Anderson L. (W)	10		700
	13	Seton L. (N)	5		350
	14	Seton L. (S)	105		7,350

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)		
33	15	Camoo Cr.	55	70	3,850		
	16	Yalakom R.	85		5,950		
	18	Carpenter L.	185		12,950		
	19	Carpenter L.	1,150		80,500		
	20	Bridge R.	785		54,950		
	22	Gwyneth L.	130		9,100		
			<u>2,815</u>		<u>197,050</u>		
34	2	Mamette L.	760	90	68,400		
	3	Highland Va.	610		54,900		
	4	Tunkwa L.	625		56,250		
	5	Tunkwa L.	500		45,000		
	6	Walhachin	785		70,650		
	7	Barnes Cr.	55		4,950		
	8	Barnes Cr.	55		4,950		
	9	Highland Va.	995		89,550		
	12	Skuhn Cr.	10		900		
	13	Poison Cr.	30		2,700		
	14	Deadman R.	400		36,000		
			<u>4,825</u>			<u>434,250</u>	
	35	2	Campbell Range		70	50	3,500
		3	Campbell L.		855		42,750
			<u>925</u>		<u>46,250</u>		
36	2	Monte Cr.	200	62	12,400		
	3	Monte L.	80		4,960		
	4	Ingram Cr.	80		4,960		
	5	Twig Cr.	1,100		77,000		
	6	Woods L.	670	62	41,540		
	7	Upper Salmon R.	400		24,800		
	8	Upper Salmon R.	580	35,960			
	10	Paxton Va.	240	70	16,800		
		<u>3,350</u>			<u>218,420</u>		
37	1	Warren Cr.	105	66	6,930		
	5	Pillar L.	360		23,760		
	6	Chase Cr.	40		2,640		
	10	Bastion Mtn.	80	70	5,600		
	11	Salmon Arm (W)	45		3,150		
	15	Eagle R.	10		700		
		<u>640</u>		<u>42,780</u>			

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
38	7	Tsuius Cr.	40	78	3,120
	12	Kingfisher Cr.	35	60	3,100
	14	Cooke Cr.	50		3,000
	18	Hidden L.	160	78	12,480
	24	Ireland Cr.	180	70	12,600
	25	Christain Cr.	40		2,800
	26	Cherryville	100		7,000
	28	Cherry Cr.	40		2,800
	32	Echo L.	60	60	3,600
	33	Creighton Cr.	60	70	4,200
	35	Harris Cr.	210		14,700
		<u>975</u>		<u>68,400</u>	
43	1	Adams L. (W)	600	80	48,000
	2	Adams L. (W)	540		43,200
	3	Adams L. (E)	180		14,400
	5	Momich R.	300	70	21,000
	6	Momich L.	20		1,400
	11	Gannett Cr.	100		7,000
		<u>1,740</u>		<u>135,000</u>	
44	1	Nikwikwaia Cr.	15	70	1,050
	2	Scotch Cr.	70		4,900
	3	Seymour Arm (W)	390		27,300
	4	Kwikoit Cr.	20		1,400
		<u>495</u>		<u>34,650</u>	
45	1	Paul L.	50	80	4,000
	3	Paul L.	70		5,600
	5	N. Thompson R.	50		4,000
	6	N. Thompson R.	50		4,000
	9	Adams L.	50		4,000
	10	N. Thompson R.	65		5,200
	11	Badger L.	205		16,400
		<u>540</u>		<u>43,200</u>	
46	3	Jamieson Cr.	180	90	16,200
	4	Tranquille Cr.	1,385	100	138,500
	5	Watching L.	10		1,000
	6	Tranquille Cr.	220		22,000
	9	Copper Cr.	650		65,000
	10	Sedge Cr.	20		2,000
	11	Criss Cr.	145		14,500
13	Barricade Cr.	20		2,000	

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
46	14	Deadman R.	815	100	81,500
	15	Criss Cr.	115		11,500
	16	Criss Cr.	45		4,500
	17	Deadman R.	250		25,000
	18	Deadman R.	50		5,000
	19	Deadman R.	45		4,500
			<u>3,950</u>		<u>393,200</u>
47	1	Hawks Cr.	270	68	18,360
	2	Spokin L.	30	70	2,100
	3	Williams Lake Cr.	1,710	85	145,350
	4	150 Mile House	815	70	57,050
	5	Jones Cr.	220		15,400
	6	San Jose R. (N)	620	68	42,160
	7	San Jose R. (S)	1,980		134,640
	8	Helena L.	845	91	76,895
	9	Lac la Hache (N)	185		16,835
	10	Timothy Cr.	240	68	16,320
	11	Lily Pond L.	110		7,480
	12	100 Mile House	60		4,080
	13	Horse L. (N)	60		4,080
	14	Deka L.	25		1,700
	15	Sheridan L.	40		2,720
	17	Chimney Cr.	9,430	85	801,550
	18	Alkali Cr.	860		73,100
	19	Place L.	275		23,375
	20	Dog Cr. (W)	1,385	68	94,180
	21	Dog Cr. (E)	610		41,480
	22	Canoe Cr.	4,645		315,860
	23	Little Big Bar L.	1,280	70	89,600
	24	Jesmond Cr.	315		22,050
	25	Kelly L.	955		66,850
	26	Cutoff Valley Cr.	1,575		110,250
	27	Big Bar L.	1,650		115,500
	28	Meadow L.	325		22,750
	29	Bonaparte R. (W)	1,330		93,100
	30	Bonaparte R. (N)	3,070	67	205,690
	31	70 Mile House	295	75	22,125
	32	87 Mile House	80		6,000
	33	Green L.	170		12,750

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
47	34	Green L. (S)	100	75	7,500
	35	Pressy L.	50	70	3,500
	37	Hutchison L.	300	75	22,500
	38	Young L.	270		20,250
	39	Bonaparte R.	20		1,500
	42	Maiden Cr.	2,715	70	190,050
	43	Lower Hat Cr.	3,130		219,100
	44	Upper Hat Cr.	105		7,350
	45	Pavilion L.	1,560		109,200
	46	Fountain Va.	355		24,850
	47	Cinquefoil Cr.	100		7,000
	48	Izman Cr.	230		16,100
	49	Botanie Cr.	75		5,250
	50	Scoonka Cr.	85		5,950
	51	Murray Cr.	25		1,750
	52	Oregon Jack Cr.	290		20,300
	53	McLean L.	995		69,650
	56	Scottie Cr.	1,900	67	127,300
	58	Loon L.	1,125	90	101,250
	59	Loon L.	100		9,000
			205,690		3,630,730
48	2	Leon Cr.	20	70	1,400
	3	Watson Bar Cr.	250		17,500
	4	Ward Cr.	130		9,100
	8	Churn Cr.	105		7,350
	12	Gaspard Cr. (E)	545	85	46,325
	13	Gaspard Cr. (W)	250		21,250
	16	Farwell Cr.	6,280		533,800
	17	Big Cr.	2,220		188,700
	18	Mons L.	75		6,375
	24	Kloh L.	670		56,950
	25	Chilcotin R. (S)	1,925		163,625
	26	Haines Cr.	910	76	69,160
	27	Towydkin L.	100		7,600
	40	Chilko R.	50		3,800
	54	Chilcotin R. (N)	10		760
	55	Riske Cr.	760	85	64,600
	56	S. Riske Cr.	1,675	76	127,300
	57	Withrow Cr.	6,525		495,900
58	Collins Cr.	295		22,420	
59	Buckskin Cr.	405		30,780	
60	Meldrum Cr.	695		52,820	
61	Drummond L.	435		33,060	

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
48	62	Mackin Cr.	10	76	760
	64	Anahim Cr.	405		30,780
	66	Avon Cr.	40		3,040
	67	Alexis Cr.	50		3,800
	68	Chilcotin R.	90		6,840
			<u>24,925</u>		<u>2,005,795</u>
56	26	Quesnel Forks	50	76	3,800
	28	Rollie Cr.	15		1,140
	29	Seller Cr.	5		380
	30	Cariboo L.	55		4,180
	31	Roaring Cr.	60		4,560
	43	Niagara Cr.	40		3,040
	44	Lynx Cr.	20		1,520
	45	Quesnel L.	20		1,520
	46	Quesnel L.	50		3,800
	49	Jacques L.	360		27,360
	52	Tyee L.	105		7,980
	53	Beaver Va.	80		6,080
	54	Beaver Cr.	80		6,080
	55	McIntosh L.	10		760
	56	Sucker Cr.	15		1,140
	60	McKinley Cr.	25		1,900
	61	Suey Bay	5		380
	62	Bouldery Cr.	10		760
	63	Bill Miner Cr.	5		380
66	Crooked L.	20	1,520		
67	Bosk L.	260	19,760		
68	Upper McKinley Cr.	125	9,500		
69	McLeese L.	90	6,840		
			<u>1,505</u>		<u>114,380</u>
57	1	Whitewood Cr.	35	90	3,150
	8	Needa L.	10	70	700
	14	Drewry L.	10	700	
	15	Stephenson L.	10	700	
	17	Spout L.	65	4,550	
	19	Hendrix Cr.	235	16,450	
			<u>365</u>		<u>26,250</u>
58	1	Johnson L.	1,085	90	97,650
	3	E. Barriere L.	80		7,200
	9	Irvine L.	10		900
			<u>1,175</u>		<u>105,750</u>
Total for Kamloops Forest Dist.			264,960		8,237,255

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
NELSON FOREST DISTRICT					
15	1	Christina L.	150	40	6,000
	2	Stewart Cr.	100		4,000
	3	July Cr.	10	31	310
	10	Clement Cr.	2,160	49	105,840
	12	Paturages Cr.	100		4,900
	14	Rock Cr.	100		4,900
			<u>2,620</u>		<u>125,950</u>
18	3	Gold Cr.	400	60	24,000
	4	Caven Cr.	370		22,200
			<u>770</u>		<u>46,200</u>
19	1	Willie Phillipps Cr.	200	60	12,000
	4	Wigwam R.	475		28,500
	12	Fairmount Cr.	50		3,000
			<u>725</u>		<u>43,500</u>
21	5	Lussier R.	100	60	6,000
	11	Toby Cr.	15		900
	12	Windermere L. (E)	150		9,000
	23	Kootenay R.	215		12,900
	25	Elk Cr.	25		1,500
	26	Whiteswan L.	965		57,900
	27	White R.	25		1,500
			<u>1,495</u>		<u>89,700</u>
22	16	Wilson L.	45	61	2,745
			45		2,745
23	7	Needles	100	42	4,200
	8	Pin Cr.	20		840
			<u>120</u>		<u>5,040</u>
24	1	Kettle R.	80	42	3,360
	10	Kettle R.	60		2,520
	17	Kettle R.	60		2,520
			<u>200</u>		<u>8,400</u>

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
40	15	Trout L.	90	61	5,490
			90		5,490
42	24	Foster Cr.	100	88	8,800
	25	Canoe R.	20		1,760
	26	Hugh Allan Cr.	100		8,800
			220		19,360
Total for Nelson Forest Dist.			6,285		346,385

PRINCE GEORGE FOREST DISTRICT

55	1	Deserters Cr.	20	88	1,760	
	2	Ruric Cr.	25		2,200	
	3	Narcosli Cr.	600		100	60,000
	4	Narcosli Cr.	750		100	75,000
	5	Webster Cr.	105		88	9,240
	6	Tingley Cr.	590		76	44,840
	7	Nadsilnich L.	45			3,420
	10	Higdon Cr.	25		88	2,200
	21	West Road R.	280			24,640
	23	Saunders	60		100	6,000
		2,500		229,300		
56	1	Whites Landing	865	100	86,500	
	2	Lazaroff L.	50		5,000	
	19	Australian Cr.	215		76	16,340
	22	Cuisson Cr.	445			33,820
		1,575		141,660		
59	70	Bowron R. (N)	30	88	2,640	
	71	Aleza L.	230		100	23,000
	96	Averil Cr.	105			10,500
	97	Barney Cr.	75			7,500
	98	Giscome Canyon	25		88	2,200
	101	Churchill Mtn.	390			34,320
	136	Redrock Cr.	5		76	380
	139	Trapping Cr.	10			760
		870		81,300		

Appendix 2 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
60	8	W. Woodpecker	850	100	85,000
	43	Cluculz L.	<u>90</u> 940	70	<u>6,300</u> 91,300
68	61	Sowchea Bay	50	70	3,500
	63	Camsell Cr.	415		29,050
	65	Ft. St. James	10		700
	68	Pinchi L. (E)	115		8,050
	74	Pinchi L.	830		58,100
	75	Pinchi L.	30		2,100
	84	Stuart L. (N)	310		21,700
	85	Trembleur L. (S)	65		4,550
	86	Stuart L. (N)	70		4,900
	87	Mancut Cr.	245		17,150
	88	Stuart L. (W)	170		11,900
	94	Trembleur L.	<u>55</u> 2,365		<u>3,850</u> 165,550
69	110	Davie L.	5	70	350
	113	Coffee Pot Mtn.	50		3,500
	115	Summit L.	<u>25</u> 80		<u>1,750</u> 5,600
Total for Prince George Forest Dist.			8,330		714,710
VANCOUVER FOREST DISTRICT					
11	10	Silverhope Cr.	<u>10</u> 10	34	<u>340</u> 340
12	16	Klesilkwa R.	<u>20</u> 20	34	<u>680</u> 680
25	16	Ainslie Cr.	<u>55</u> 55	75	<u>4,125</u> 4,125
26	11	Nahatlatch R.	10	38	380
	14	Nahatlatch R.	30		1,140
	15	Nahatlatch R.	<u>100</u> 140		<u>3,800</u> 5,320
Total for Vancouver Forest Dist.			225		10,465
Total for British Columbia			279,800		9,308,815

Appendix 3

Alpine fir (Abies lasiocarpa (Hook.)Nutt.) killed by western balsam bark beetle,
Dryocoetes confusus Sw., in association with a forest disease,
Ceratocystis dryocoetidis Kendrick and Molnar, 1961-65

Region	Comp.	Location	No. acres	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT				
14	27	Lequime Cr.	500	65,000
	31	Lacoma Cr.	2,500	325,000
	35	Hydraulic Cr.	500	130,000
	37	Ideal L.	400	52,000
	38	Mission Cr.	200	26,000
	45	Terrace Cr.	500	130,000
	53	Shorts Cr.	80	10,400
	54	Bouleau Cr.	600	156,000
	55	Whiteman Cr.	400	104,000
	60	Fortune Cr.	50	6,500
	61	Putnam Cr.	50	6,500
	63	Aberdeen L.	200	26,000
				<u>5,980</u>
37	1	Warren Cr.	500	65,000
	4	Gordon Cr.	600	78,000
	5	Chase Cr.	1,500	195,000
	14	Hunters Range	24,000	7,680,000
	15	Shuswap L. (E)	2,500	650,000
	16	Anstey Arm (E)	7,500	1,950,000
	19	Perry R.	100	13,000
	20	Anstey R.	1,500	195,000
			<u>38,200</u>	<u>10,826,000</u>
38	2	Joss Mtn.	40	5,200
	7	Tsuius Cr.	40	5,200
	11	Hunters Range	10,380	2,906,400
	13	Hunters Range	5,810	1,626,800
	19	Latewhos Cr.	100	13,000
	26	Holstein Cr.	300	39,000
	28	Cherry Ridge	400	52,000
	31	Ferry Cr.	200	26,000
	33	Harris Cr.	200	26,000
	35	Harris Cr.	500	65,000
			<u>17,970</u>	<u>4,764,600</u>

Appendix 3 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
43	6	Cayenne Cr.	2,500	650,000
	7	Humamilt L.	5,000	650,000
	8	Cayenne Cr.	15,000	3,900,000
	12	Harbour Cr.	600	156,000
	14	Tuntum L.	50	13,000
			<u>23,150</u>	<u>5,369,000</u>
44	4	Scotch Cr.	50	6,500
			<u>50</u>	<u>6,500</u>
45	11	Badger L.	100	13,000
			<u>100</u>	<u>13,000</u>
47	50	Skoonka Cr.	10	1,300
			<u>10</u>	<u>1,300</u>
56	29	Seller Cr.	10	1,300
	55A	Moffat Cr.	100	13,000
	58	Dillabough L.	10	1,300
	60	McKinley L.	150	19,500
	66	McKusky Cr.	10	1,300
	67	Molybdenite Cr.	25	3,250
			<u>305</u>	<u>39,650</u>
57	1	Jamieson Cr.	100	13,000
	2	Jamieson Cr.	100	13,000
	9	Moira L.	100	13,000
	19	Hendrix Cr.	30	3,900
	27	Myrtle L.	50	6,500
			<u>380</u>	<u>49,400</u>
58	3	Barriere L.	50	6,500
	5	Barriere L.	50	6,500
	10	Cariboo Range	3,400	442,000
	11	Cariboo Range	3,000	390,000
			<u>6,500</u>	<u>845,000</u>
Total for Kamloops Forest Dist.			92,645	22,951,850

Appendix 3 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
NELSON FOREST DISTRICT				
17	11	Summit Cr.	<u>10</u> 10	<u>1,300</u> 1,300
18	1	Linklater Cr.	50	6,500
	6	Tree Cr.	40	5,200
	16	Sundown Cr.	40	5,200
	17	Lamb Cr.	<u>30</u> 160	<u>3,900</u> 20,800
19	4	Bighorn Cr.	80	10,400
	17	Upper Bull R.	<u>100</u> 180	<u>13,000</u> 23,400
20	3	Cabin Cr.	<u>60</u> 60	<u>7,800</u> 7,800
21	26	Whiteswan L.	<u>20</u> 20	<u>2,600</u> 2,600
22	4	Enterprise Cr.	50	6,500
	10	Evans L.	<u>150</u> 200	<u>19,500</u> 26,000
39	8	Plante Cr.	115	14,950
	9	Upper Fosthall Cr.	75	9,750
	10	Incomapleux R.	50	6,500
	11	Pingston Cr.	120	15,600
	17	Incomapleux R.	<u>210</u> 570	<u>27,300</u> 74,100
41	34	Beavermouth	40	5,200
	48	Surprise Rapids	10	1,300
	55	Kinbasket L.	<u>150</u> 200	<u>19,500</u> 26,000
42	1	Rogers Pass	155	20,150
	22	Dawson Cr.	200	26,000
	24	Foster Cr.	100	13,000
	26	Hugh Allan Cr.	<u>100</u> 555	<u>13,000</u> 72,150
Total for Nelson Forest Dist.			1,955	254,150

Appendix 3 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
PRINCE GEORGE FOREST DISTRICT				
42	37	Canoe R.	<u>50</u> 50	<u>3,750</u> 3,750
59	1	Tonquin Cr.	100	12,500
	9	Small Cr.	100	7,500
	12	Raush R.	100	12,500
	14	Raush R.	200	20,000
	16	Chalco Cr.	100	12,500
	17	Holmes R.	100	12,500
	19	Castle Cr.	100	7,500
	24	McKale Cr.	100	7,500
	25	East Twin Cr.	200	15,000
	27	Laselle Cr.	200	15,000
	35	Morkill R.	300	30,000
	50	McGregor R.	50	3,750
	64	Tumuch L.	100	7,500
	74	Taspai Cr.	50	3,750
	75	Tsus Cr.	100	12,500
	76	Grizzly Bear Cr.	100	12,500
	77	Ames Cr.	50	6,250
	79	Wendle Cr.	<u>50</u> 2,100	<u>6,250</u> 205,000
68	12	Ogston L.	3,700	962,000
	39	Brule Hill	1,400	364,000
	85	Tarnezell L. (E)	400	104,000
	97	Inzana L.	2,900	754,000
	99	Kazchek L. (N)	4,500	1,170,000
	101	Leo Cr.	1,800	468,000
	105	Bivouac Cr.	50	6,500
	106	Tochcha L. (W)	3,600	936,000
	107	Natowite L.	<u>30</u> 18,380	<u>3,900</u> 4,768,400
69	36	Tchentlo L. (E)	2,500	650,000
	37	Tchentlo L. (W)	3,200	992,000
	39	Purvis L.	600	156,000
	40	Sawtooth Mtn. (E)	7,300	1,898,000
	46	Tsayta L. (S)	5,700	1,482,000
	60	Mischinsinlika Cr.	4,600	1,196,000
	63	Pine Pass (N)	1,000	260,000

Appendix 3 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
69	64	Misinchinka R.	40,500	10,530,000
	70	Tchentlo L. (S)	1,200	468,000
	71	Chuyazega Cr.	1,500	390,000
	83	Table R.	250	32,500
	92	Parsnip R. (E)	6,000	1,560,000
	95	Tudyah L.	800	208,000
	98	Missinka R.	100	13,000
	116	Finlay Forks	<u>1,300</u>	<u>169,000</u>
		<u>76,550</u>	<u>20,004,500</u>	
70	44	Beaver Cr.	1,500	390,000
	45	John Bennett Cr.	500	130,000
	47	Callazan Cr.	700	182,000
	48	Link Cr.	150	19,500
	50	Little Boulder Cr.	<u>100</u>	<u>13,000</u>
		<u>2,950</u>	<u>734,500</u>	
Total for Prince George Forest Dist.			100,030	25,716,150
PRINCE RUPERT FOREST DISTRICT				
60	134	Parrott Lakes	<u>4,080</u>	<u>3,136,640</u>
			4,080	3,136,640
65	16	McDonell L.	1,720	430,000
	17	Hankin L.	7,760	9,482,720
	40	Kitseguecla L.	13,880	4,622,040
	42		8,880	2,957,040
	44		1,200	399,600
	46		9,280	2,984,680
	50		2,200	2,332,800
53	Ironside Cr.	<u>4,640</u>	<u>5,670,080</u>	
		<u>49,560</u>	<u>28,878,960</u>	
66	4	Shovel Cr.	2,800	3,421,600
	10	Henrietta Cr.	11,920	12,005,920
	13	Pinkut Cr.	1,520	1,110,680
	14	Pinkut L.	800	977,600
	20	Nellian L.	1,280	1,564,160
	24	Froggy L.	1,240	412,920

Appendix 3 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
66	25	Pierre Cr.	1,040	346,320
	33	Byman Cr.	3,320	830,000
	34	Barren Cr.	600	733,200
	35	McQuarrie L.	8,520	5,279,280
	36	Deep Cr.	1,600	400,000
	37	Deception L.	5,400	5,082,480
	40	Gran Isle Townsite	5,920	7,234,240
	41	Fulton R.	9,320	2,330,000
	44	McKendrick Cr.	3,220	2,729,560
	47	Reiseter Cr.	4,120	5,034,640
	48	Chapman L.	14,320	16,112,200
	49	Doris L.	1,200	1,466,400
	51	Hagan Arm	200	244,400
	52	Hatchery Arm	3,200	3,483,680
	53	Morrison L.	2,360	2,883,920
	56	North Babine L.	2,280	2,786,160
	60	North Babine L.	6,760	5,966,800
	61	Tsezakwa Cr.	11,040	11,896,800
	62	Nilkitkwa L.	1,120	372,960
	63	Nilkitkwa R.	1,520	1,679,640
	64	Nilkitkwa R.	5,360	6,549,920
	65	Gramophone Cr.	7,120	8,700,640
	66	Kwun Cr.	12,280	15,006,160
	68	Harold Price Cr.	11,360	13,881,920
	69	Blunt Cr.	10,200	12,464,400
	70	Harold Price Cr.	14,960	18,281,120
	71	Suskwa Pass	3,000	3,666,000
	72	Suskwa Pass	1,720	2,101,840
73	Suskwa R.	5,040	6,158,880	
74	Natlan Cr.	9,720	11,877,840	
75	Natlan Cr.	120	146,640	
77	Nilkitkwa L.	5,160	6,305,520	
78	Nine Mile Cr.	1,480	370,000	
83	Babine R.	26,760	32,700,720	
85	Shahnagh Cr.	3,040	3,714,880	
			<u>226,540</u>	<u>241,489,240</u>
67	3	Goosly L.	2,360	2,457,200
	4	Buck Cr.	2,200	732,600
	7	Klinger L.	5,680	6,940,960

Appendix 3 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
67	8	Walcott	17,360	15,524,320
	10	Goathorn Cr.	4,080	4,985,760
	11	Pine Cr.	2,200	2,688,400
	12	Smithers	4,320	5,279,040
	13	Trout Cr.	4,960	1,651,680
	14	John Brown Cr.	2,320	772,560
	17	Telkwa R.	10,040	11,102,480
	18	Telkwa R.	2,560	3,128,320
	19	Starr Cr.	2,880	3,519,360
	20	Houston Cr.	8,000	9,776,000
	21	Houston	8,880	10,851,360
	22	Thautil Cr.	6,880	8,407,360
	24	Lamprey Cr.	15,960	18,052,720
	27	McBride L.	15,880	19,405,360
	28	Morice L.	7,640	9,180,560
	29	Kidprice L.	11,480	14,028,560
	30	Morice L.	200	244,400
	31	Atna R.	2,560	3,128,320
	32	Nanika L.	3,120	3,812,640
	33		160	195,520
			<u>141,720</u>	<u>155,865,480</u>
75	30		<u>3,520</u>	<u>2,096,720</u>
			3,520	2,096,720
Total for Prince Rupert Forest Dist.			425,420	431,467,040
Total for British Columbia			620,050	480,389,190

Appendix 4

Western white pine (Pinus monticola Dougl.) killed by mountain pine beetle,
Dendroctonus ponderosae Hopk., 1961-65

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT					
12	13	Skaist Cr.	890	40	35,600
	14	Skagit R.	1,540		61,600
			<u>2,430</u>		<u>97,200</u>
14	61	Vance Cr.	50	60	3,000
	62	Deafie Cr.	27		1,200
			<u>70</u>		<u>4,200</u>
37	9	White L.	115	60	6,900
	11	Salmon Arm (W)	170		10,200
	14	Yard Cr.	80		4,800
	15	Eagle R.	165		9,900
	17	Eagle R.	40		2,400
	19	Perry R.	260		15,600
	20	Anstey R.	230		13,800
	21	Seymour Arm	240		14,400
			<u>1,300</u>		<u>78,000</u>
38	2	Wap Cr.	1,970	60	118,200
	3	Mabel L. (N)	800		48,000
	5	Upper Shuswap R.	70	40	2,800
	7	Tsuius Cr.	180		7,200
	8	Upper Shuswap R.	200	60	12,000
	10	Spectrum Cr.	1,350		81,000
	12	Kingfisher Cr.	140		8,400
	17	Trinity Cr.	15		900
	18	Hidden L.	830		49,800
	20	Sugar L.	185	40	7,400
	21	Sitkum Cr.	800	60	48,000
	22	Outlet Cr.	10	40	400
	23	Sugar L. (W)	240	60	14,400
	24	Ireland Cr.	350	40	14,000
	25	Christian Cr.	35		1,400
			<u>7,175</u>		<u>413,900</u>
42	32	Bulldog Cr.	15	40	600
			<u>15</u>		<u>600</u>

Appendix 4 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
43	1	Adams L. (W)	300	60	18,000
	2	Adams L.	285	40	11,400
	3	Adams L. (E)	90	60	5,400
	4	Blueberry Cr.	20		1,200
	5	Momich R.	660		39,600
	6	Momich L.	2,340		140,400
	7	Humamilt L.	1,630		97,800
	9	Seymour R.	150		9,000
	10	Ratchford Cr.	835		50,100
	11	Gannett Cr.	10		600
			<u>6,320</u>		<u>373,500</u>
44	3	Ross Cr.	530	60	31,800
	4	Kwikoit Cr.	885		53,100
	5	Spillman Cr.	120		7,200
		<u>1,535</u>		<u>92,100</u>	
58	2	N. Barriere L.	70	40	2,800
	3	E. Barriere L.	10		400
	4	N. Barriere L.	1,110		44,400
	5	N. Barriere L.	1,010		40,400
	12	Avola	135		5,400
	15	Blue R.	45		1,800
	16	Blue R.	3,500		140,000
	18	Blue R.	10		400
	23	Clemina	15		600
			<u>5,905</u>		<u>236,200</u>
Total for Kamloops Forest Dist.			24,750		1,295,700

NELSON FOREST DISTRICT

17	32	Kokanee Cr.	50	35	1,750
	40	Schroeder Cr.	100	27	2,700
	42	Lost Ledge Cr.	<u>145</u>		<u>3,915</u>
			<u>295</u>		<u>8,365</u>
22	10	Evans Cr.	595	39	23,205
	11	Sharp Cr.	1,255		48,945
	14	Wilson Cr.	705		27,495
	17	Summit L.	200		7,800
		<u>2,755</u>		<u>107,445</u>	

Appendix 4 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
23	1	Worthington Cr.	150	42	6,300
	4	Whatshan L.	215		9,030
	5	File Cr.	<u>305</u>		<u>12,810</u>
			670		28,140
39	2	Box L.	330	39	12,870
	5	Cape Horn	1,735		67,665
	6	Saddle Mtn.	2,360		92,040
	7	Mackinson Flats	1,320	76	51,480
	8	Cusson Cr.	725		55,100
	9	Fosthall Cr.	5,800		440,800
	10	Fosthall Cr.	905	39	68,780
	11	Pingston Cr.	2,530		192,280
	13	Shelter Bay	715		27,885
	14	Halfway R.	2,310	76	175,560
	15	Payne Cr.	2,800		212,800
	16	Armstrong L.	1,145		87,020
	17	Fish R.	300	76	22,800
	21	Arrowhead	680		51,680
	22	Akolkolex R.	1,195		46,605
24	Blanket Cr.	1,700	56	95,200	
25	Cranberry Cr.	<u>1,450</u>		<u>81,200</u>	
		28,000		1,781,765	
40	4	Lardeau R.	1,085	76	82,460
	5	Duncan L.	450		34,200
	7	Duncan R.	20		1,520
	15	Trout L.	1,135		86,260
	17	Wilkie Cr.	<u>1,275</u>		<u>96,900</u>
		3,965		301,340	
41	15	Kinbasket L.	400	46	18,400
	35	Blackwater L.	15		690
	55	Kinbasket L.	<u>10</u>		<u>460</u>
		425		19,550	
42	1	Rogers Pass	760	76	57,760
	2	Clachnacudain R.	150		11,400
	5	La Forme Cr.	680		51,680
	6	Frisby Cr.	150	36	11,400
	9	Downie Cr.	1,240		44,640
	13	Goldstream R.	550		41,800
16	Bigmouth Cr.	250	76	19,000	
		<u>3,780</u>		<u>237,680</u>	
Total for Nelson Forest Dist.			39,890		2,484,285

Appendix 4 - continued

Region	Comp.	Location	No. acres	Total volume
VANCOUVER FOREST DISTRICT (Vancouver Island Section)				
2	9	Noomas L.	480	45,000
	10	Nimpkish L.	760	72,000
	11	Kinman Cr.	560	53,000
	16	Nimpkish R.	480	41,000
	18	Steele Cr.	440	38,000
	19	Nimpkish R.	320	27,000
	20	Woss L.	3,160	272,000
	21	Nimpkish R.	160	14,000
	22	Nimpkish R.	120	10,000
	23	Luckwa Cr.	80	7,000
	24	Davie R.	160	14,000
	25	Davie R.	2,640	227,000
	26	Davie R.	2,920	252,000
	29	Nimpkish R.	7,440	641,000
	30	Woss L.	160	14,000
	32	Vernon L.	120	10,000
	35	Oktwanch R.	1,120	97,000
36	Maquilla Cr.	560	48,000	
37	Klaklakama L.	1,420	122,000	
		<u>23,100</u>	<u>1,904,000</u>	
3	1	Mooyah R.	5,240	156,000
	2	Jacklan R.	10,360	309,000
	3	Buman R.	440	13,000
	4A	Muchalat In.	200	6,000
	5F	Oktwanch R.	800	32,000
		<u>17,040</u>	<u>516,000</u>	
4	29	Wolf R.	9,520	33,000
	32	Marblerock Cr.	3,360	15,000
	33	Buttle L.	4,560	21,000
	34	Shepherd Cr.	1,080	5,000
	37	Thelwood Cr.	1,360	6,000
		<u>19,880</u>	<u>91,000</u>	
6	1B	Jordan R.	4,860	322,000
	1C	Jordan R.	2,300	153,000
	1D	Ledingham Cr.	2,300	152,000
	2A	Loss Cr.	6,140	407,000
	2B	Sombrio R.	5,630	373,000

Appendix 4 - continued

Region	Comp.	Location	No. acres	Total volume
6	2C	Parkinson Cr.	7,420	492,000
	3A	San Juan R.	4,860	322,000
	3C	San Juan R.	6,910	458,000
	3D	San Juan R.	1,530	102,000
	4A	Gordon R.	2,300	5,000
	4B	Camper Cr.	9,720	20,000
	4C	Cullite Cr.	8,960	18,000
	5A	Walbran Cr.	6,650	14,000
	6A	Carmanah Cr.	6,910	14,000
	6B	Carmanah Cr.	2,040	4,000
	7A	Cheewhat Cr.	4,090	8,000
			<u>82,620</u>	<u>2,864,000</u>
	7	1D	Buttle L.	4,240
4B		Oyster R.	560	21,000
4E		Piggott Cr.	15,880	611,000
4F		Oyster R.	6,640	255,000
6D		Regan L.	4,040	155,000
7B		Puntledge R.	9,760	375,000
8A		Comox L.	680	26,000
8B		Comox L.	4,640	179,000
10		Tsable R.	360	14,000
11B		Elsie L.	1,640	63,000
32F		Koksilah Ridge	5,920	195,000
33B		Deerholme	2,670	88,000
33C		Koksilah R.	7,200	177,000
33D		Waterloo Mtn.	4,540	150,000
34A		San Juan R.	5,900	76,000
35		Jordan R.	20,990	270,000
36A		Sooke R.	4,860	63,000
36C		Sooke L.	8,190	106,000
36D		Survey Mtn.	19,200	247,000
39A		Trap Mtn.	1,020	13,000
39B		Muir Cr.	9,200	119,000
39C	Muir Cr.	1,530	20,000	
		<u>139,660</u>	<u>3,282,000</u>	
Total for Vancouver Forest Dist.			282,300	8,657,000
Total for British Columbia				12,436,985

Appendix 5

Lodgepole pine (Pinus contorta Dougl. var. latifolia Engelm.) killed by
mountain pine beetle, Dendroctonus ponderosae Hopk., 1961-65

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT					
13	12	Bullock Cr.	300	20	6,000
	17	Ashnola R.	430		8,600
	19	Wall Cr.	20		400
	37	Hayes Cr.	30	60	1,800
	48	Summers Cr.	130	20	2,600
	50	Summers Cr.	20		400
	70	Tulameen R.	25		500
	71	Tulameen R.	25		500
	82	Lawless Cr.	65	30	1,950
	83	Manion Cr.	50		1,500
			<u>1,095</u>		<u>24,250</u>
14	6	Baldy Cr.	50	20	1,000
	14	Shatford Cr.	150	17	2,550
	15	Deschamp Cr.	600	14	8,400
	27	Chute L.	25		350
	30	Venner Cr.	8,100		113,400
	36	Joe Rich Cr.	1,100	20	22,000
	40	Whelan Cr.	100		2,000
	45	Lambly Cr.	7,750	35	271,250
	55	Whiteman Cr.	200	20	4,000
	61	Vance Cr.	350	17	5,950
			<u>18,425</u>		<u>432,900</u>
33	18	Carpenter L.	100	27	2,700
	19	Traux Cr.	200		5,400
	20	Gun L.	890		24,030
	22	Bridge R.	25		675
	25	Tyaughton Cr.	80		2,160
			<u>1,295</u>		<u>34,965</u>
35	3	Bulman Mtn.	200	27	5,400
			<u>200</u>		<u>5,400</u>
36	8	Salmon R.	200	20	4,000
			<u>200</u>		<u>4,000</u>
38	30	Heckman Cr.	225	26	5,850
			<u>225</u>		<u>5,850</u>

Appendix 5 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
47	1	Bull Mtn.	11,930	27	322,110
	3	Missioner Cr.	665		17,955
	17	Colpitt L.	150		4,050
	18	Patrick Cr.	20		540
	27	Beaverdam L.	25		675
	29	Fiftyseven Cr.	175		4,725
	44	Hat Cr.	65		1,755
	46	Fountain Va.	270		7,290
	47	McGillivray Cr.	50		1,350
	48	Laluwissin Cr.	5		135
	51	Murray Cr.	15		405
		<u>13,370</u>	<u>360,990</u>		
48	12	Gaspard Cr.	10	27	270
	17	Vedan Cr.	75		2,025
	25	Minton Cr.	250		6,750
	26	Chilcotin R.	300		8,100
	29	Chilko R.	100		2,700
	40	Chilko R.	500		13,500
	55	Doc English Gulch	100		2,700
	56	South Riske Cr.	130		3,510
	57	Zenzaco Cr.	30		810
	60	Sword Cr.	10		270
	61	Riske Cr.	180		4,860
	64	Anahim Cr.	25		675
			<u>1,710</u>		<u>46,170</u>
56	27	Spanish L.	10	27	270
	28	Cariboo L.	100		2,700
	29	Wilby Cr.	10		270
	30	Cariboo R.	400		10,800
	31	Little R.	700		18,900
	49	Whiffle L.	15		405
	52	Tyee L.	6,155		166,185
	53	Gavin Cr.	15		405
	69	Sheridan Cr.	5,075		137,025
		<u>12,480</u>	<u>336,960</u>		
57	15	Fiset L.	75	27	2,025
		<u>75</u>	<u>2,025</u>		
Total for Kamloops Forest Dist.			49,075		1,251,510

Appendix 5 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
NELSON FOREST DISTRICT					
19	4	Wigwam R.	100	20	2,000
	6	Harvey Pass	25		500
	21	Elk R.	200		4,000
	28	Cummings Cr.	<u>100</u>		<u>2,000</u>
			425		8,500
21	5	Coyote Cr.	4,000	20	80,000
	9	Granite Cr.	400		8,000
	10	Whitetail L.	375		7,500
	15	Bruce Cr.	165		3,300
	16	Forster Cr.	225		4,500
	21	Steamboat Mtn.	50		1,000
	23	Kootenay R.	250		5,000
	24	White R.	1,120		22,400
	25	Elk Cr.	1,200		24,000
	26	Whiteswan L.	440		8,800
	32	Palliser R.	250		5,000
	37	Yearling Cr.	<u>200</u>		<u>4,000</u>
			8,675		173,500
22	4	Enterprise Cr.	<u>300</u>	33	<u>9,900</u>
			300		9,900
24	10	Copperkettle L.	2,000	35	70,000
	12	Mohr Cr.	830		29,050
	14	Bruer Cr.	<u>1,800</u>		<u>63,000</u>
			4,630		162,050
41	7	Parson	35	20	700
	24	Holt Cr.	75		1,500
	35	Redgrave	3,765	27	101,655
	36	Waitabit Cr.	2,250		60,750
	44	Lyell Cr.	250	20	5,000
	45	Upper Bush R.	100		2,000
	49	Bush R.	<u>2,250</u>	27	<u>60,750</u>
			8,725		232,355
42	21	Canoe R.	400	33	13,200
	22	Canoe R.	<u>840</u>		<u>27,720</u>
			1,240		40,920
Total for Nelson Forest Dist.			23,995		617,325

Appendix 5 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
PRINCE GEORGE FOREST DISTRICT					
55	1	Deserters Cr.	25	32	800
	3	Narcosli Cr.	1,000		47,000
	4	Narcosli Cr.	200		9,400
	5	Webster Cr.	280	47	13,160
	6	Tingley Cr.	160		7,520
	24	West Road R.	110		3,520
	76	Noses L.	100		3,200
			<u>1,875</u>	<u>84,600</u>	
56	2	Lazaroff L.	35	32	1,120
	19	Australian Cr.	60		1,920
	22	Cuisson L.	<u>3,500</u>	29	<u>101,500</u>
			<u>3,595</u>	<u>104,540</u>	
59	76	Pinkerton Cr.	<u>1,000</u>	29	<u>29,000</u>
			<u>1,000</u>		<u>29,000</u>
68	75	Tezzeron L.	1,000	40	40,000
	76	Tezzeron L.	5,350		214,000
	80	Tezzeron L.	500		20,000
	81	Tezzeron L.	4,800		192,000
	83	Kuzkwa R.	16,500		660,000
	85	Tarnezell Cr.	75		3,000
	86	Whitefish L.	65		2,600
	88	Stuart L.	10		400
	89	Trembleur L.	415		16,600
	96	Inzana L.	250		10,000
	99	Kazcheck L.	20		800
	101	Leo Cr.	250		10,000
	102	Takla L.	100		4,000
	103	Baptiste Cr.	20		800
	104	Middle R.	400		16,000
105	Bivouac Cr.	10,400	416,000		
106	Tochcha L.	270	10,800		
107	Sakiniche R.	9,200	368,000		
110	Hautete Cr.	<u>1,120</u>	<u>44,800</u>		
			<u>50,745</u>	<u>2,029,800</u>	
Total for Prince George Forest Dist.			57,215		2,217,940
Total for British Columbia			130,285		4,116,775

Appendix 6

Ponderosa pine (Pinus ponderosa Laws.) killed by mountain pine beetle,
Dendroctonus ponderosae Hopk., 1961-65

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT					
13	36	Hayes Cr.	280	110	30,800
	37	Christian Cr.	50	119	5,950
	47	Rampart Cr.	10		1,190
	48	Summers Cr.	15		1,785
	49	Allison L.	310	124	38,440
	50	Oelrich Cr.	85		10,540
	51	Jura	1,000	25	25,000
	52	Allenby	200		5,000
	53	Princeton	100	22	2,200
	58	Whipsaw Cr.	10	25	250
	72	Lockie Cr.	5	119	595
	73	Manning Cr.	80	110	8,800
	74	Myren Cr.	10	70	700
	75	Gladstone L.	10	110	1,100
	77	Bates Cr.	25	119	2,975
84	Newton Cr.	10	40	400	
			<u>2,200</u>		<u>135,725</u>
14	5	Wolfcub Cr.	10	25	250
	6	Baldy Cr.	500		12,500
	10	Shuttleworth Cr.	10		250
	19	Trout Cr.	30	47	1,410
	37	Belgo Cr.	180	37	6,660
	44	Bald Range Cr.	50	40	2,000
	45	Lambly Cr.	130		5,200
			<u>910</u>		<u>28,270</u>
25	6	Nicola R.	315	43	13,545
	7	Nicola R.	250		10,750
	8	Nicola R.	10		430
	9	Nicola R.	20		860
	15	Coldwater R.	30	31	930
	27	Alleyne L.	25	119	2,975
	29	Quilchena Cr.	45	31	1,395
	31	Pennask L.	10	43	430
	38	Chapperon L.	10,000	25	250,000
	45	Clapperton Cr.	80	66	5,280
	47	Guichon Cr.	10	37	370
48	Guichon Cr.	5		185	
49	Guichon Cr.	5		185	
			<u>10,805</u>		<u>287,335</u>

Appendix 6 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft. ³)		
33	12	Anderson L. (W)	10	29	290		
	13	Seton L. (N)	5		145		
	15	Applespring Cr.	5		145		
	18	Carpenter L.	10		290		
	19	Marshall Cr.	70		2,030		
	20	Gun L.	965		27,985		
	22	Downton L.	290		8,410		
	25	Tyaughton Cr.	20		580		
			<u>1,375</u>		<u>39,875</u>		
34	1	Lower Nicola	90	37	3,330		
	2	Mamette L.	50		1,850		
	5	Mt. Savona	5		185		
	6	Barnes Cr.	200		7,400		
	7	Barnes Cr.	120		4,440		
	8	Highland Va.	110		4,070		
	9	Highland Va.	25		925		
	11	Nicola R.	40		1,480		
	12	Nicola R.	5		185		
	13	Nicola R.	100		3,700		
					<u>745</u>		<u>27,565</u>
	35	4	Le Jeune L.		75	25	1,875
		10	Durand Cr.		25		625
14		Merritt	250	6,250			
47		Merritt	40	1,000			
				<u>390</u>			<u>9,750</u>
36	7	Rush L.	735	37	27,195		
	8	Index L.	150	33	4,950		
			<u>885</u>		<u>32,145</u>		
45	3	Louis L.	280	31	8,680		
	4	Pritchard	500		15,500		
	5	Robbins Cr.	30	25	750		
	6	Lyons L.	45		1,125		
	7	Pritchard	110	31	3,410		
	10	Heffley Cr.	15	58	870		
			<u>980</u>		<u>30,335</u>		
46	2	McQueen Cr.	15	58	870		
	4	Tranquille Cr.	245	31	7,595		
	5	Watching Cr.	10		310		
	6	Tranquille Cr.	50		1,550		

Appendix 6 - continued

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
46	9	Copper Cr.	40	25	1,000
	10	Deadman R.	5		125
	11	Criss Cr.	100	31	3,100
	12	Deadman R.	45	25	1,125
	13	Deadman R.	100		2,500
	14	Deadman R.	<u>5</u>		<u>125</u>
			615		18,300
47	25	Kelly L.	10	18	180
	26	Clinton	575		10,350
	29	Bonaparte R.	120	40	4,800
	30	Fly Cr.	80	110	8,800
	37	Fly Cr.	165		18,150
	38	Rayfield R.	50	40	2,000
	42	Bonaparte R.	10		400
	43	Hat Cr.	3,655	25	91,375
	44	Hat Cr.	880		22,000
	45	Pavilion	10	18	180
	47	Cinquefoil Cr.	35		630
	48	Izman Cr.	20		360
	50	Shushten Cr.	30		540
	51	Murray Cr.	20		360
	52	Venables Va.	625		11,250
	53	Ashcroft Cr.	10		180
57	Loon Cr.	10	25	250	
58	Loon L.	<u>5</u>		<u>125</u>	
			6,310		171,930
Total for Kamloops Forest Dist.			25,215		781,230
NELSON FOREST DISTRICT					
15	3	Granby Va.	<u>60</u>	31	<u>1,860</u>
			60		1,860
24	4	Carmi	15	31	465
	6	Beaverdell Cr.	<u>100</u>		<u>3,100</u>
			115		3,565
Total for Nelson Forest Dist.			175		5,425
Total for British Columbia			25,390		786,655

Appendix 7

Ponderosa pine killed by engraver beetle, Ips spp., 1961-65

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT					
14	4	Anarchist Mtn.	200	5	1,000
	19	Trout Cr.	25	25	625
	48	Carr's Indg.	<u>130</u>	4	<u>520</u>
			355		2,145
NELSON FOREST DISTRICT					
15	12	Rock Cr.	<u>20</u>	5	<u>100</u>
			20		100
Total for British Columbia			375		2,245

Appendix 8

Lodgepole pine killed by engraver beetle Ips spp., 1961-65

Region	Comp.	Location	No. trees	Avg vol per tree	Total volume (ft ³)
KAMLOOPS FOREST DISTRICT					
47	1	Soda Cr.	25	5	125
48	60	Meldrum Cr.	<u>170</u>		<u>850</u>
			195		975
NELSON FOREST DISTRICT					
19	23	Michel Cr.	<u>150</u>	5	<u>750</u>
			150		750
Total for British Columbia			345		1,725

Appendix 9

Western hemlock (Tsuga heterophylla (Raf.)Sarg.) and
amabilis fir^{1/} (Abies amabilis (Dougl.)Forb.) killed by
saddleback looper, Ectropis crepuscularia Schiff., 1961-65

Region	Comp.	Location	No. acres	Avg vol per acre	Total volume (ft ³)
PRINCE RUPERT FOREST DISTRICT					
61	6	Kitimat	2,000	2,300	4,600,000
	7	Kitimat	<u>7,000</u>	700	<u>4,900,000</u>
			9,000		9,500,000
Total for British Columbia			9,000		9,500,000

^{1/} Approx. 75% western hemlock, 25% amabilis fir.

Appendix 10

Western hemlock, western red cedar (Thuja plicata Donn.) and

Douglas-fir filled by green striped forest looper,

Melanolophia imitata Wlk., 1961-65

Region	Comp.	Location	No. acres	Avg vol per acre	Total volume (ft ³)
VANCOUVER FOREST DISTRICT					
3	1	Villaverde Isl.	<u>260</u> 260	6,200	<u>1,612,000</u> 1,612,000
Total for British Columbia			260		1,612,000

Appendix 11

Western white pine (Pinus monticola Dougl.) killed by mountain pine beetle,
Dendroctonus ponderosae Hopk., 1956-60

Region	Comp.	Location	No. acres	Total volume (ft ³)
VANCOUVER FOREST DISTRICT (Vancouver Island Section)				
2	9	Noomas L.	480	126,000
	10	Nimpkish L.	760	199,000
	11	Kinman Cr.	560	147,000
	16	Nimpkish R.	480	115,000
	18	Steele Cr.	440	105,000
	19	Nimpkish R.	320	77,000
	20	Woss L.	3,160	759,000
	21	Nimpkish R.	160	38,000
	22	Nimpkish R.	120	29,000
	23	Luckwa Cr.	80	19,000
	24	Davie R.	160	38,000
	25	Davie R.	2,640	634,000
	26	Davie R.	2,900	702,000
	29	Nimpkish R.	7,440	1,788,000
	30	Woss L.	160	38,000
	32	Vernon L.	120	29,000
	35	Oktwanch R.	1,120	269,000
36	Maquilla Cr.	560	134,000	
37	Klaklakama Lakes	1,420	341,000	
		<u>23,080</u>	<u>5,587,000</u>	
3	1	Mooyah R.	5,240	1,115,000
	2	Jacklan R.	10,360	2,204,000
	3	Burman R.	440	94,000
	4A	Muchalat In.	200	42,000
	5F	Oktwanch R.	800	229,000
		<u>17,040</u>	<u>3,684,000</u>	
4	29	Wolf R.	9,520	871,000
	32	Marblerock Cr.	3,360	307,000
	33	Buttle L.	4,560	417,000
	34	Shepherd Cr.	1,080	99,000
	37	Thelwood Cr.	1,360	124,000
		<u>19,880</u>	<u>1,818,000</u>	

Appendix 11 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
6	1B	Jordan R.	4,800	4,035,000
	1C	Jordan R.	2,300	1,911,000
	1D	Ledingham Cr.	2,300	1,911,000
	2A	Loss Cr.	6,100	5,097,000
	2B	Sombrio R.	5,630	4,672,000
	2C	Parkinson Cr.	7,400	6,158,000
	3A	San Juan R.	4,860	4,035,000
	3C	San Juan R.	6,900	5,734,000
	3D	San Juan R.	1,500	1,274,000
	4A	Gordon R.	2,300	937,000
	4B	Camper Cr.	9,700	3,958,000
	4C	Cullite Cr.	8,900	3,645,000
	5A	Walbran Cr.	6,700	2,708,000
	6A	Carmanah Cr.	6,900	2,812,000
	6B	Carmanah Cr.	2,100	833,000
	7A	Cheewhat Cr.	4,100	1,666,000
			<u>82,490</u>	<u>51,386,000</u>
7	1D	Buttle L.	4,240	348,000
	4B	Oyster R.	560	127,000
	4E	Piggot Cr.	15,880	3,602,000
	4F	Oyster R.	6,640	1,506,000
	6D	Regan L.	4,040	916,000
	7B	Puntledge R.	9,760	2,214,000
	8A	Comox L.	680	154,000
	8B	Comox L.	4,640	1,053,000
	10	Tsable R.	360	82,000
	11B	Elsie L.	1,640	372,000
	16B	Cameron R.	1,500	837,000
	21A	South Englishman R.	350	202,000
	21C	South Englishman R.	5,300	3,026,000
	21D	Englishman R.	10,500	6,294,000
	24I	Nanaimo R.	1,300	745,000
	24J	Nanaimo R.	4,200	2,447,000
	24H	Nanaimo R.	400	240,000
	31	Dimple L.	6,700	1,711,000
	32F	Koksilah Ridge	5,900	1,972,000
	33B	Deerholme	2,700	890,000
	33C	Koksilah R.	7,200	2,812,000
	33D	Waterloo Mtn.	4,500	1,513,000
34A	San Juan R.	8,700	3,458,000	
34B	San Juan R.	8,900	2,304,000	
34C	Fleet R.	13,300	3,422,000	

Appendix 11 - continued

Region	Comp.	Location	No. acres	Total volume (ft ³)
7	35	Jordan R.	21,000	9,747,000
	36A	Sooke L.	4,800	2,258,000
	36C	Sooke L.	8,200	3,804,000
	36D	Survey Mtn.	19,200	8,915,000
	39A	Trap Mtn.	1,000	475,000
	39B	Muir Cr.	9,200	4,279,000
	39C	Muir Cr.	1,500	713,000
			<u>194,790</u>	<u>72,438,000</u>
Total for Vancouver Forest Dist.			337,280	134,913,000
