

B.C./CANADA
STATISTICS

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3 **B.C./CANADA STATISTICS**



3.1 Forestry Practices

Total Crown and private land ('000 ha) available for timber production in 1991, by province

Land type	B.C.	Alta.	Ont.	Que.	N.B.	Other ^(a)	Canada
Crown	46 671	21 711	34 867	45 239	2 888	56 693	208 069
Private	2 122	1 284	5 538	7 771	2 995	4 539	24 249
Total	48 793	22 995	40 405	53 010	5 883	61 232	232 318

^(a) Other includes: Nfld., P.E.I., N.S., Man., Sask., Yukon, N.W.T.

Data source: Canadian Council of Forest Ministers, 1998.

Allowable annual cut (AAC) ('000 m³) on Crown and private land, by province

Years AAC statistics relevant			'000 m ³
B.C.	1998	Crown	68 456
		Private	2 563
Alta.		Crown	23 357
Ont. ^(a)	1997	Crown	
Que.	1994–1999	Crown	45 019
		Private	13 305
N.B.	1997–2002 ^(b)	Crown	5 023
		Private	5 948

^(a) Ontario determines the annual cut in hectares.
Provincial Crown land annual allowable harvest is 364 297 hectares.

^(b) Based on the 1997 analysis.

Data source: Canadian Council of Forest Ministers, 1998.

DID YOU KNOW...

Canada:

Forest land: 247 164 000 ha
Portion of total land base: 27%
Forest land per capita: 8.1 ha

Data source: FAO, 1995.

Area harvested (ha) from 1981 to 1997, by province

Year	B.C.	Alta.	Ont.	Que.	N.B.	Other ^(a)	Canada
1981	147 889	20 424	227 603	250 000	65 500	83 691	795 107
1982	162 172	27 864	222 921	195 000	72 445	72 564	752 966
1983	208 252	34 870	183 208	272 085	81 570	68 028	848 013
1984	216 417	29 290	217 806	280 739	83 000	85 404	912 656
1985	231 730	34 612	217 984	266 180	87 070	81 455	919 031
1986	239 877	38 811	223 517	297 616	86 898	85 094	971 813
1987	259 982	40 248	228 464	329 300	88 976	103 879	1 050 849
1988	270 401	42 538	237 188	337 668	99 192	99 111	1 086 098
1989	218 384	41 688	230 308	342 231	90 114	95 093	1 017 818
1990	181 530	47 671 ^(b)	238 213	255 094	80 109	91 305 ^(c)	892 869^(c)
1991	193 654	50 628 ^(b)	199 719	229 525 ^(c)	91 916	85 175 ^(c)	856 402^(c)
1992	221 599	53 147 ^(b)	190 676	256 271	99 751 ^(c)	85 802 ^(c)	905 755^(c)
1993	207 748	57 087 ^(d)	206 000 ^(c)	294 201	97 793 ^(c)	97 998 ^(c)	968 574^(c)
1994	190 244	74 298 ^(b)	209 700 ^(c)	321 634	92 790 ^(e)	111 519 ^(c)	1 000 185
1995	189 608	65 321 ^(b)	214 104 ^(b)	338 515	99 857	110 252 ^(c)	1 017 657
1996	199 029	55 830 ^(d)	213 235 ^(b)	348 313 ^(c)	108 730 ^(b)	118 781 ^(c)	1 043 918
1997	175 808	50 697 ^(d)	197 941 ^(d)	363 844 ^(c)	112 436 ^(c)	122 954 ^(d)	1 023 680

(a) Other includes: Yukon, N.W.T., Sask., Man., N.S., P.E.I., Nfld.

(b) Revised.

(c) Estimated by provincial or territorial forestry agency.

(d) Preliminary.

(e) Estimated by Natural Resources Canada, Canadian Forest Service or by Statistics Canada.

Data source: Canadian Council of Forest Ministers, 1998 and MoF annual reports.

DID YOU KNOW...

*B.C. has only 17% of
Canada's total forest land
but grows almost 40% of the
nation's merchantable timber.*

Data source: Westland Resource Group, 1995.

DID YOU KNOW...

*In general, B.C. harvests less area
annually than Ontario and Quebec
yet plants two to three times more
area per year.*

Canada timber harvest, by region ('000 m³)

Year	B.C.	Prairies ^(a)	Ont.	Que.	Atlantic ^(b)
1981	60 780	11 944	22 808	34 234	14 846
1982	56 231	9 738	19 788	29 133	12 142
1983	71 443	11 476	23 736	36 288	12 831
1984	74 556	12 883	28 130	36 519	13 560
1985	76 868	13 712	28 225	35 400	14 330
1986	77 503	15 619	30 186	38 127	15 556
1987	90 591	16 269	29 692	39 503	15 661
1988	86 807	17 691	29 338	39 381	17 226
1989	87 414	17 826	29 642	36 192	17 004
1990	73 861	16 232 ^(c)	25 420 ^(c)	30 148 ^(c)	16 787
1991	74 706	17 161 ^(c)	23 829 ^(d)	28 943 ^(c)	16 123
1992	78 579	19 273	24 287 ^(d)	31 002 ^(c)	16 784
1993	78 004	20 155	25 432 ^(d)	34 100 ^(c)	17 209 ^(c)
1994	75 093	26 044 ^(c)	25 952 ^(d)	38 227 ^(c)	17 339 ^(c)
1995	74 622 ^(d)	26 532 ^(c)	26 260 ^(d)	41 432 ^(c)	19 159 ^(c)
1996	72 252 ^(d)	26 311 ^(c)	25 871 ^(d)	38 273 ^(e)	20 213 ^(c)
1997	69 298 ^(d)	28 615 ^(c)	26 595 ^(d)	42 447 ^(c)	20 800 ^(c)

(a) Includes Alta., Man. and Sask.

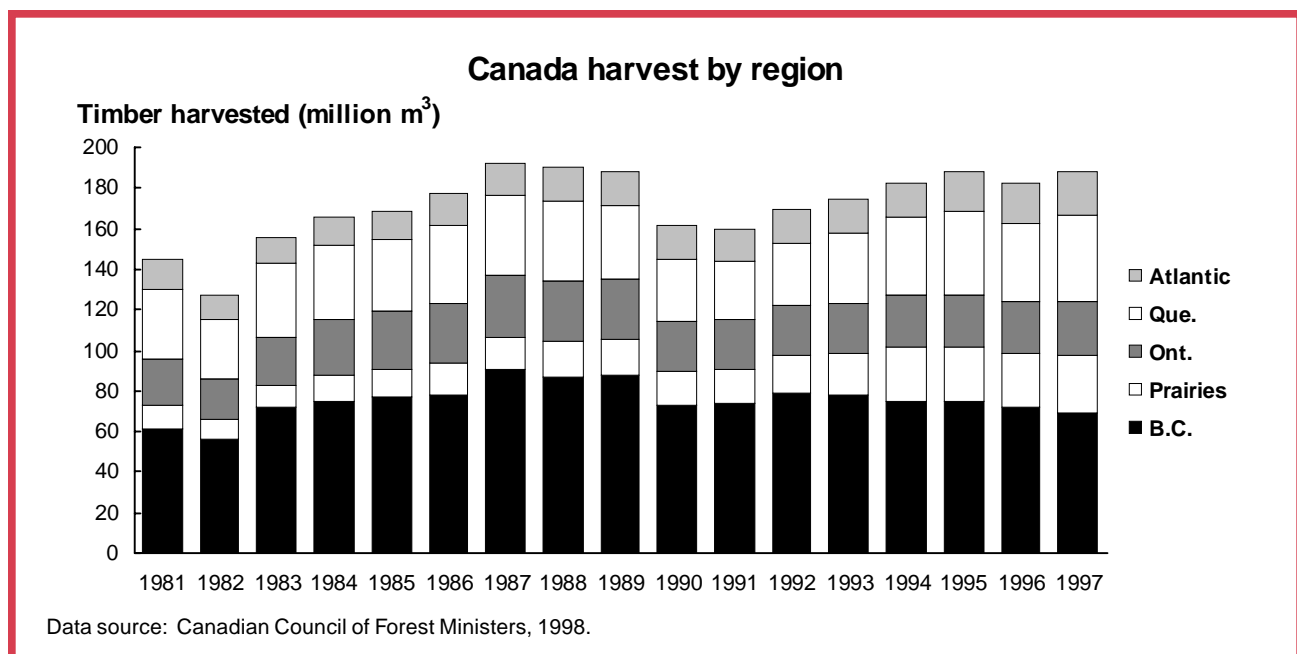
(b) Includes Nfld., P.E.I., N.S. and N.B.

(c) Estimated by provincial or territorial forestry agency.

(d) Estimated by National Resources Canada, Canadian Forest Service or Forestry Canada.

(e) Revised.

Data source: Canadian Council of Forest Ministers, 1998.



Area planted (ha) from 1981 to 1997, by province

Year	B.C. ^(a)	Alta. ^(b)	Ont. ^(c)	Que. ^(c)	N.B.	Other ^(d)	Canada
1981	66 605	5 495	38 159	15 875	22 121	13 237	161 492
1982	82 795	5 398	38 040	17 120	22 458	13 612	162 303
1983	94 726	7 547	48 772	19 834	19 985	14 626	185 656
1984	100 032	13 795	63 354	30 960	19 406	14 510	211 097
1985	101 442	9 229	72 678	42 716	19 453	19 323	222 125
1986	115 739	14 699	73 857	65 584	20 517	19 453	244 265
1987	169 002	13 279	75 158	81 147	18 916	24 570	300 925
1988	169 485	18 658	83 712	107 415	19 123	31 246	322 224
1989	174 310	24 254	85 287	116 452	20 272	26 579	330 702
1990	209 168	25 475 ^(f)	80 840	110 595	22 079	27 360	339 447
1991	199 422	32 383 ^(f)	83 917	103 714	19 497	26 744	329 580
1992	184 922	36 930 ^(f)	71 792	97 189	16 526	25 674	298 914
1993	190 176	34 924 ^(f)	73 684	84 491	13 089	21 903	417 863^(f)
1994	216 811	48 726 ^(e)	73 880 ^(e)	77 480 ^(f)	15 399	24 585	456 881^(f)
1995	206 473	51 162 ^(f)	64 732 ^(e)	70 783 ^(f)	16 162 ^(e)	25 420	434 732^(f)
1996	189 322	41 412 ^(f)	72 899 ^(f)	73 002 ^(e)	15 919	25 636	418 190^(f)
1997	188 474	45 343 ^(f)	72 784	73 697 ^(e)	19 963	33 565 ^(g)	433 826^(g)

(a) Crown land only.

(b) From 1981 to 1985, an additional 41 429 ha were planted under a special stand conversion program.

(c) Aerial seeding, a large component of seeding/planting activities, is not accounted for in these statistics.

(d) Includes Nfld., P.E.I., N.S., Man., Sask., and N.W.T.

(e) Includes Nfld., and Yukon.

(f) Revised.

(g) Estimate by provincial or territorial forestry agency.

Data source: Canadian Council of Forest Ministers, 1998.

Area of site preparation (ha) from 1981 to 1997, by province

Year	B.C.(a,b)	Alta.	Ont.	Que.	N.B.	Other ^(c)	Canada
1981	54 893	13 568	57 157	16 152	27 384	24 757	193 911
1982	62 631	16 611	71 819	14 800	18 601	25 780	210 242
1983	73 439	19 607	78 142	21 940	11 132	19 725	223 985
1984	84 413	18 082	86 932	29 902	8 862	25 224	253 415
1985	91 421	19 404	98 953	50 906	9 293	30 654	300 631
1986	133 709	22 368	110 152	91 818	12 981	33 300	404 328
1987	177 024	28 963	116 226	112 447	16 778	37 535	488 973
1988	151 546	31 954	106 479	99 559	15 318	36 656	441 512
1989	171 300	25 807	124 404	117 259	16 563	31 807	487 140
1990	117 807	30 652 ^(e)	116 742	99 449	20 059 ^(e)	30 009	400 156
1991	153 399	40 791 ^(e)	110 643	91 500	22 298 ^(e)	20 895	415 359
1992	138 755	34 553 ^(e)	77 580	70 648	17 836 ^(e)	22 677	349 509
1993	166 823	40 224 ^(e)	89 570	55 532	15 061 ^(e)	22 830	397 544
1994	136 828	41 789 ^(e)	94 006 ^(e)	49 788	18 288 ^(e)	37 887 ^(e)	378 586^(e)
1995	112 241	34 235 ^(e)	75 953 ^(f)	45 853 ^(e)	23 669 ^(e)	33 621 ^(e)	325 572^(e)
1996	95 527	31 083 ^(d)	83 629 ^(e)	44 727 ^(f)	23 988 ^(e)	32 051 ^(e)	310 996^(e)
1997	92 924	34 956 ^(d)	83 600 ^(f)	47 659 ^(e)	30 016	21 479	310 634^(f)

(a) Crown land only.

(b) Estimates are provided to Forestry Canada prior to final tabling of MoF annual reports.

(c) Other includes: N.W.T., Sask., Man., N.S., P.E.I., Nfld.

(d) Preliminary.

(e) Revised.

(f) Estimate by provincial or territorial forestry agency.

Data source: Canadian Council of Forest Ministers, 1998.

Total area (ha) of stand tending on Crown and private land from 1981 to 1997, by province

Year	B.C. ^(a)	Alta.	Ont.	Que.	N.B.	Other ^(b)	Canada
1981	37 677	634 ^(c)	41 444	12 686	17 618	14 919	124 978
1982	26 031	695 ^(c)	54 506	6 446 ^(d)	18 263	13 753	119 694
1983	15 739	245 ^(c)	47 560	15 960	30 488	16 009	126 001
1984	30 865	510 ^(c)	69 994	21 220	40 040	26 130	188 759
1985	29 416	1 005 ^(c)	101 062	19 800	45 700	27 890	224 873
1986	73 499	825	95 921	24 201	38 313	29 491	262 250
1987	92 271	321	101 476	36 193	48 483	23 393	302 137
1988	75 347	2 797	97 136	53 727	53 114	19 757	301 878
1989	117 245	4 725	127 839	48 510	55 398	22 415	376 132
1990	109 335	1 987 ^(e)	123 544	71 634	50 819	28 435	384 935 ^(e)
1991	118 635 ^(f)	680 ^(e)	90 795	78 720	48 768	25 592	362 020 ^(e)
1992	119 595	2 923 ^(e)	75 590	84 807	36 914	23 877	342 492 ^(e)
1993	133 389	2 507 ^(e)	77 083	90 023	41 099	22 958	365 654 ^(e)
1994	127 227	6 135 ^(e)	77 101 ^(f)	96 638	35 752	24 172	367 025 ^(e)
1995	120 337	7 157 ^(e)	77 009	97 764 ^(e)	48 087 ^(f)	24 549 ^(e)	374 903 ^(e)
1996	150 250	11 172 ^(g)	95 869 ^(e)	103 179 ^(f)	68 550	28 713	457 735 ^(e)
1997	143 076	4 673 ^(g)	95 595 ^(e)	106 583 ^(f)	81 841 ^(f)	25 922	457 692 ^(f)

(a) Crown land only.

(b) Includes Nfld., P.E.I., N.S., Man., and Sask.

(c) Thinning only.

(d) Precommercial thinning only.

(e) Revised.

(f) Estimate by provincial or territorial forestry agency.

(g) Preliminary.

Data source: Canadian Council of Forest Ministers, 1998.

Total silviculture expenditures ('000\$)^(a) on Crown and private land 1985, 1988, and 1990 to 1996

Year	B.C. ^(a)	Alta.	Ont.	Que.	N.B.	Other ^(b)	Canada
1985	167 800	15 000	116 100	113 300	23 500	40 900	476 600
1988	301 000	15 300	121 400	185 600	31 600	50 000	704 900
1990	298 363	31 693	124 019	188 878	28 930	52 618	724 501
1991	395 869	31 644	112 963	179 131	34 075	49 175	802 857
1992	323 633 ^(c)	40 707 ^(d)	98 287 ^(c)	162 533 ^(e)	28 544 ^(c)	53 754 ^(c)	706 072 ^(e)
1993	317 121 ^(e)	38 128 ^(c)	92 475 ^(e)	144 494 ^(e)	27 200 ^(e)	46 984 ^(d)	666 404 ^(e)
1994	295 168 ^(d)	38 677 ^(d)	52 301 ^(d)	133 150 ^(d)	22 832 ^(e)	49 158 ^(d)	591 287 ^(e)
1995	402 260 ^(d)	70 490	130 712	131 739	27 111	47 419	809 731
1996	287 785 ^(d)	83 916	77 312	97 188	36 613	46 805	629 619

(a) Public and Industry expenditures on silviculture.

(b) Includes Nfld., P.E.I., N.S., Man., Sask., Yukon, N.W.T.

(c) Preliminary.

(d) Estimate by provincial or territorial forestry agency.

(e) Revised.

Data source: Canadian Council of Forest Ministers, 1998.

DID YOU KNOW...

*Almost 50% of all
silviculture expenditures in
Canada occur in B.C.*

Size of clearcuts by ownership and by province for the latest period calculated

Province	Provincial	Private
	Crown land	land
	Avg. size of cuts (ha)	
B.C. ^(a)	28.2	n/a
Alta.	23.5 (hardwoods)	n/a
Alta.	17.3 (spruce and pine)	n/a
Man.	10–49	n/a
Sask.	60–70 (hardwood)	n/a
Sask.	30–40 (softwood)	n/a
Ont. ^(b)	n/a	n/a
Que.	n/a	n/a
N.B.	30	50 ^(c)
N.S.	<50	n/a
P.E.I.	3.5	3.1
Nfld.	<120 ^(d)	n/a
Yukon	8.3	n/a
N.W.T.	15–25	n/a

(a) Updated statistics on cutblock size are on page 15.

(b) 1997/98 survey of 8 moose and moose/caribou management units:

moose: 46% had clearcut size of 0–50 ha	moose/caribou: 21% had clearcut size of 0–50 ha
24% had clearcut size of 51–100 ha	21% had clearcut size of 51–100 ha
30% had clearcut size of 101 to 260+	15% had clearcut size of 101–150 ha
	43% had clearcut size of 150–260+

(c) Large operations; for private woodlots: <50 ha.

(d) For leased Crown land; for unalienated Crown land average cut size is 30 ha.

Data source: Canadian Council of Forest Ministers, 1998.

3.2 Forest Products and Economics

DID YOU KNOW...

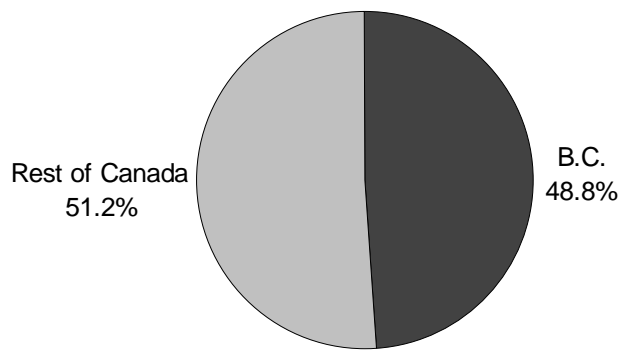
The B.C. forest industry is a key contributor to the provincial economy. In 1997, it made up over 48%, or \$16.8 billion, of total manufactured shipments.

Wood products accounted for 32.9%, up slightly from the previous year, and pulp and paper products accounted for 15.6%.

Data source: COFI, 1998.

**B.C. versus rest of Canadian forest industries:
volume production by commodity – 1997**

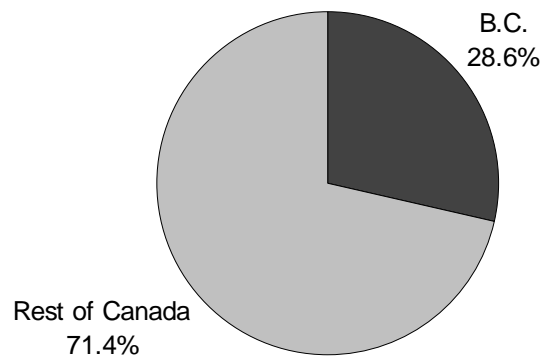
Lumber



Data source: COFI, 1998.

Total: 64.0 million m³

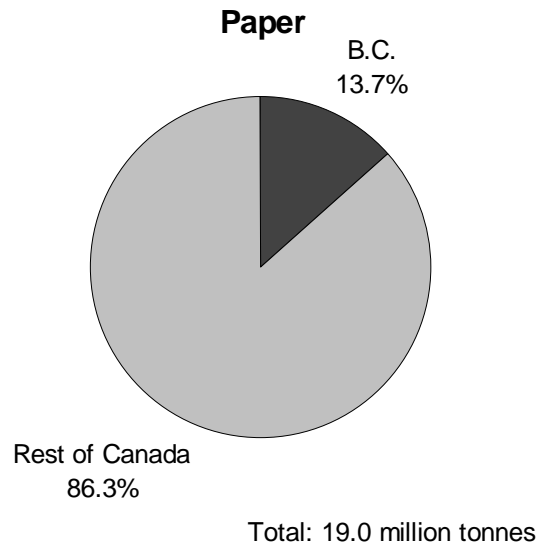
Pulp



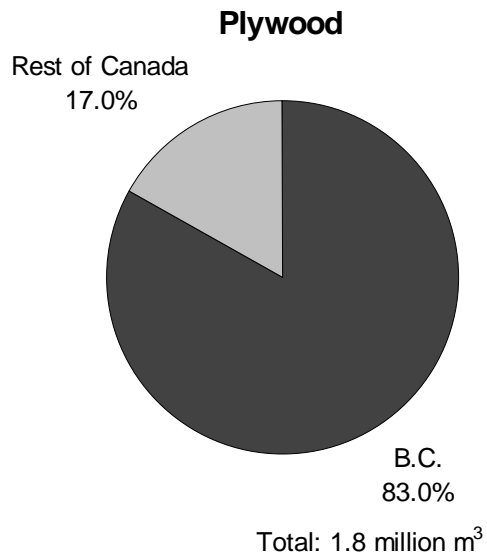
Data source: COFI, 1998.

Total: 24.8 million m³

Volume production by commodity – continued

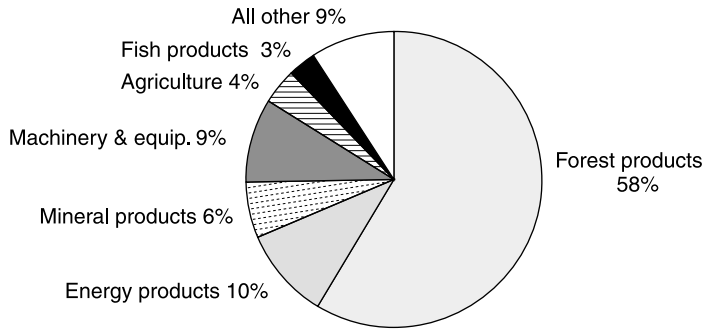


Data source: COFI, 1998.



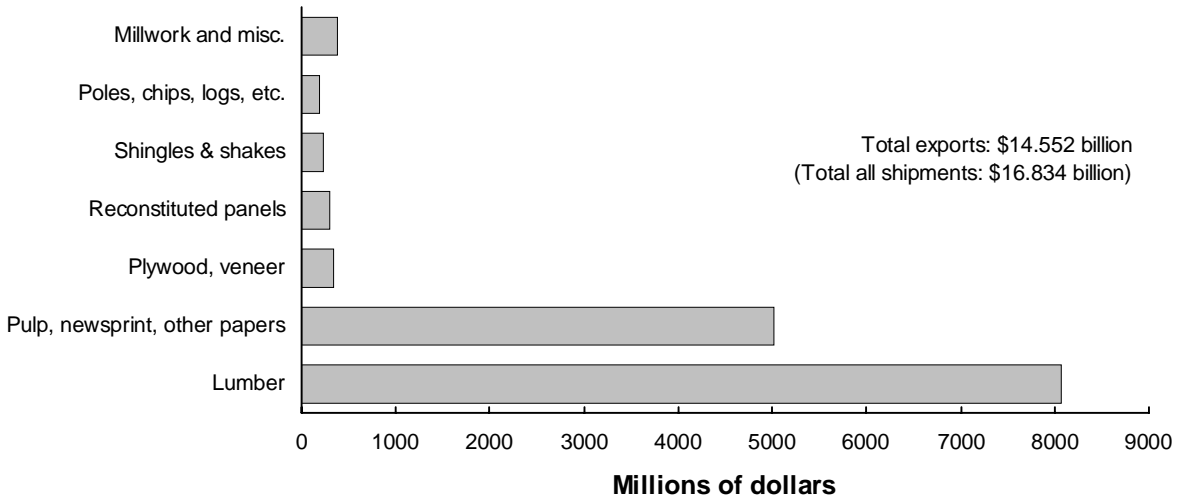
Data source: COFI, 1998.

**B.C. exports – by product groups
1998 – \$25.6 billion**



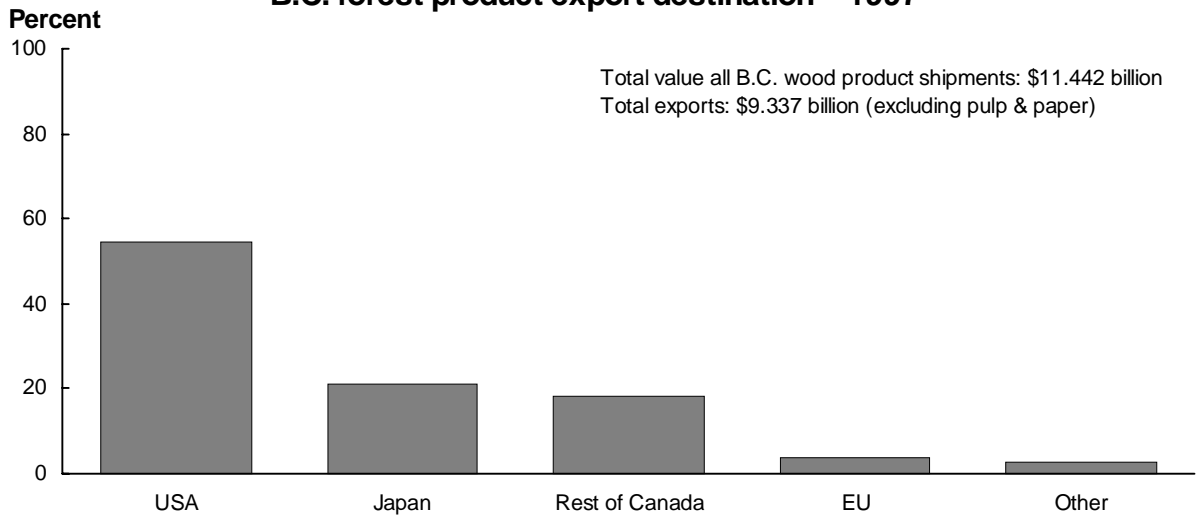
Data source: BC Stats; Exports (B.C. origin) 1988–1997 revised, Economics and Trade Branch, Ministry of Forests.

B.C. forest product exports 1997



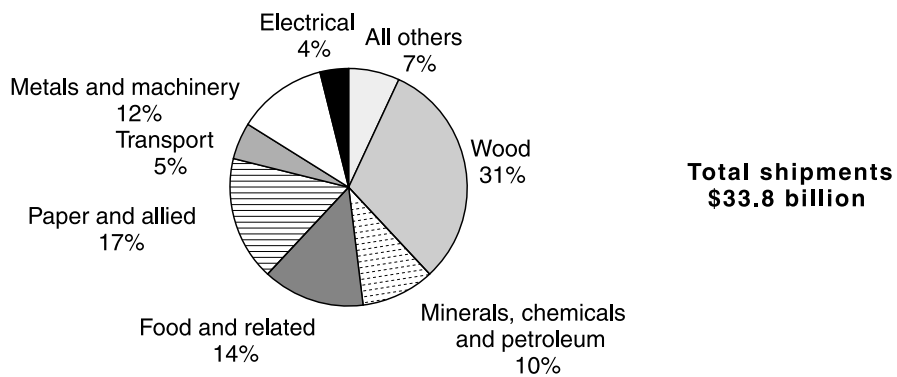
Data source: COFI, 1998.

B.C. forest product export destination 1997



Data source: COFI, 1998.

B.C. forest industry and the provincial economy – 1998

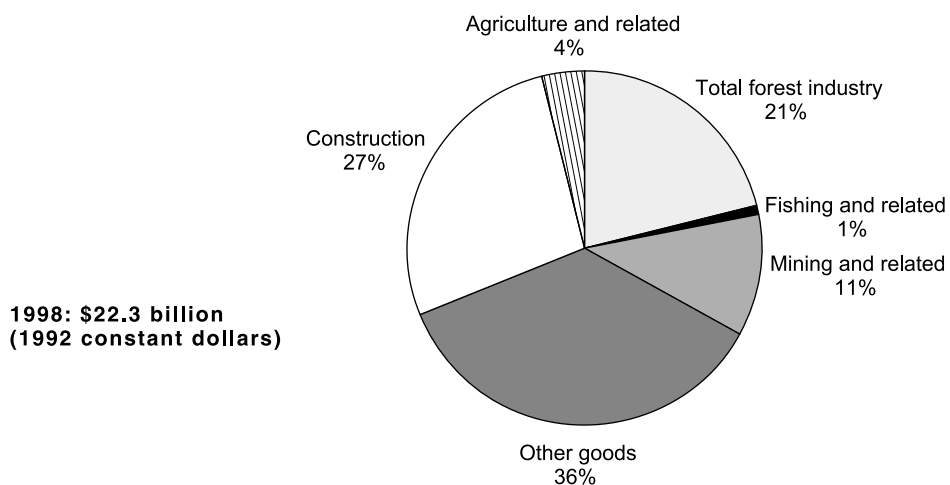


Data source: COFI, 1998.

DID YOU KNOW...

Among the goods-producing industries, the forest industry (a combination of the wood products, paper and allied industries and logging) is one of the largest contributors to B.C.'s gross domestic product.

B.C. gross domestic product goods producing industries – 1998



Data source: Stats Canada, Cat. no. 15-203.

Employment in the forest industry in B.C.

Year	Harvest (^{'000} m ³)	(employees)				(employees/1000 m ³)			
		Logging	Wood	P & A	Total	Logging	Wood	P & A	Total
1950	23 408	n/a	34 439	6 155	n/a	n/a	1.47	0.26	n/a
1955	29 280	n/a	41 434	8 640	n/a	n/a	1.42	0.30	n/a
1960	33 975	n/a	37 202	10 409	n/a	n/a	1.09	0.31	n/a
1965	43 413	18 746	40 499	14 176	73 421	0.43	0.93	0.33	1.69
1966	45 348	17 846	39 699	15 779	73 324	0.39	0.88	0.35	1.62
1967	44 505	17 369	37 582	16 533	71 484	0.39	0.84	0.37	1.61
1968	48 178	17 948	38 304	16 528	72 780	0.37	0.80	0.34	1.51
1969	53 487	20 279	39 284	17 312	76 875	0.38	0.73	0.32	1.44
1970	54 726	18 581	38 329	17 089	73 999	0.34	0.70	0.31	1.35
1971	56 515	18 364	41 652	18 327	78 343	0.32	0.74	0.32	1.39
1972	56 416	18 976	45 819	18 804	83 599	0.34	0.81	0.33	1.48
1973	70 093	21 716	49 549	19 782	91 047	0.31	0.71	0.28	1.30
1974	60 047	22 906	44 866	20 768	88 540	0.38	0.75	0.35	1.47
1975	50 077	18 046	38 655	20 225	76 926	0.36	0.77	0.40	1.54
1976	69 521	20 464	44 645	20 404	85 513	0.29	0.64	0.29	1.23
1977	69 969	21 125	47 605	20 320	89 050	0.30	0.68	0.29	1.27
1978	75 173	23 534	50 955	20 665	95 154	0.31	0.68	0.27	1.27
1979	76 194	24 940	51 369	20 998	97 307	0.33	0.67	0.28	1.28
1980	74 654	24 784	49 708	21 540	96 032	0.33	0.67	0.29	1.29
1981	61 818	20 017	46 627	20 660	87 304	0.32	0.75	0.33	1.41
1982	56 231	16 769	40 309	18 458	75 536	0.30	0.72	0.33	1.34
1983	71 369	20 411	40 392	17 390	78 193	0.29	0.57	0.24	1.10
1984	74 556	23 056	38 901	17 433	79 390	0.31	0.52	0.23	1.06
1985	76 868	21 870	39 603	16 850	78 323	0.28	0.52	0.22	1.02
1986	77 503	22 289	37 204	17 254	76 747	0.29	0.48	0.22	0.99
1987	90 591	23 236	42 425	17 662	83 323	0.26	0.47	0.19	0.92
1988	86 807	22 340	42 283	18 207	82 830	0.26	0.49	0.21	0.95
1989	87 414	22 437	42 416	18 643	83 496	0.26	0.49	0.21	0.96
1990	78 316	19 753	40 312	18 427	78 492	0.25	0.51	0.24	1.00
1991	73 675	18 393	35 562	18 427	72 382	0.25	0.48	0.25	0.98
1992	74 004	17 898	40 115	17 225	75 238	0.24	0.54	0.23	1.02
1993	79 239	18 979	41 939	17 469	78 387	0.24	0.53	0.22	0.99
1994	75 650	16 380	42 795	17 228	76 403	0.22	0.57	0.23	1.01
1995	76 471	18 655	41 068	17 631	77 354	0.24	0.54	0.23	1.01
1996	75 213	20 147	38 973	17 423	76 543	0.27	0.52	0.23	1.02
1997	75 213								
1998	65 984								
Average employees/1000 m³ harvested (1992–1996)						0.24	0.54	0.23	1.01

Data source: Harvest Data – Ministry of Forests, Harvest Database System.

Employment Data – Statistics Canada, Annual Survey of Manufactures & Logging Industry Catalogue 25-201-XPB.

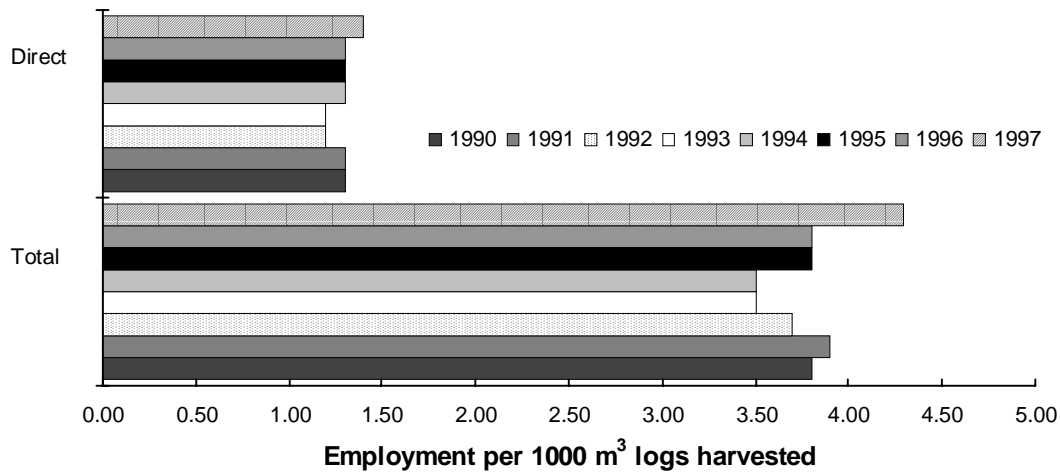
Notes: Employment for logging includes working owners and partners for the years 1975 and later.

Wood – wood industries.

P & A – paper and allied industries.

m³ – cubic metres.

Forest employment in B.C. per 1000 m³ logs harvested 1990 1997



Data source: COFI 1998.

B.C. silviculture employment factors^(a,b)

Treatment	Worker-days/hectare
Surveys	0.1
Site preparation	0.3
Planting	1.8
Brushing and weeding	1.0
Juvenile spacing	3.5
Pruning	6.0
Fertilization	0.1
Nurseries	1.0 person-day/1000 trees
Cone collection	0.5 person-day/hectolitre
Conifer release	2.5
Other ^(c)	1.0 worker-year/\$100 000

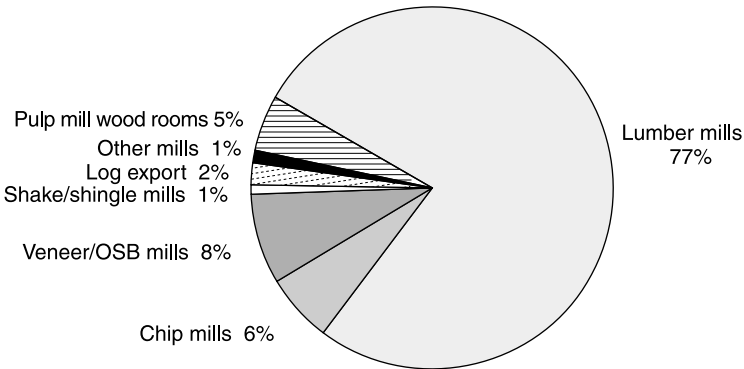
^(a) A worker-year is based on 220 eight-hour work days.

^(b) An employment factor of 26.8 worker-years per million dollar expenditure is officially recognized for general silviculture activities. This includes direct, indirect and induced employment.

^(c) Other includes contract implementation.

Data source: Forest Practices Branch.

**British Columbia – estimated log and fibre usage
1998 harvest – 68.7 million m³**



Data source: Ministry of Forests.
Prepared by: Economics and Trade Branch.

