

Why are Americans More Productive than Canadians?

Andrew Sharpe, Executive Director, Centre for the Study of Living Standards, January 2003

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Table 1: Real Per Capita GDP and its Determinants in Canada, 1946-2002

	GDP per Hour (1997 chained US dollars)	Average Weekly Hours	Average Annual Hours	Working Age Population to Total Population, %	Force Participation Rate, %	1-Unemployment Rate, %	GDP per Capita (1997 chained US dollars) G=A*C*(D/100)* (E/100)*(F/100)
1946	8.08	53.18	2,765	71.80	55.38	96.67	8,591
1947	8.24	52.39	2,724	72.14	55.24	97.80	8,753
1948	8.39	52.78	2,745	71.66	54.93	97.74	8,866
1949	8.69	52.71	2,741	69.29	54.91	97.25	8,815
1950	9.55	50.87	2,645	70.49	54.06	96.45	9,283
1951	9.84	50.56	2,629	69.84	54.03	97.62	9,535
1952	10.55	50.02	2,601	69.22	53.83	97.13	9,942
1953	10.98	49.55	2,576	68.83	53.46	97.04	10,109
1954	11.03	48.92	2,544	68.33	53.22	95.51	9,751
1955	12.02	48.05	2,498	67.86	53.30	95.69	10,396
1956	12.52	47.78	2,485	67.56	53.86	96.64	10,943
1957	12.81	46.79	2,433	67.32	54.38	95.43	10,893
1958	13.56	45.24	2,352	67.03	54.25	93.05	10,795
1959	13.83	44.61	2,320	66.73	54.15	94.12	10,915
1960	14.39	43.41	2,258	66.55	54.55	93.14	10,983
1961	14.95	42.43	2,206	66.44	54.47	92.95	11,092
1962	15.57	42.40	2,205	66.43	54.23	94.18	11,648
1963	16.16	41.99	2,184	66.57	54.19	94.53	12,040
1964	16.71	41.70	2,169	66.79	54.46	95.39	12,580
1965	17.23	41.44	2,155	67.18	54.76	96.13	13,141
1966	17.56	41.11	2,137	65.71	57.66	96.69	13,755
1967	17.84	40.46	2,104	66.32	58.01	96.23	13,903
1968	18.87	39.37	2,047	67.04	57.98	95.56	14,354
1969	19.52	38.75	2,015	67.79	58.25	95.64	14,861
1970	20.36	37.85	1,968	68.58	58.17	94.41	15,099
1971	20.94	37.45	1,948	69.32	58.48	93.89	15,523
1972	21.72	36.97	1,923	69.96	58.98	93.87	16,179
1973	22.19	36.88	1,918	70.65	60.15	94.52	17,095
1974	22.26	36.59	1,903	71.47	60.94	94.74	17,481
1975	22.75	35.83	1,863	72.20	61.51	93.17	17,543
1976	23.79	35.32	1,837	72.90	61.50	92.98	18,213
1977	24.27	35.31	1,836	73.49	61.80	92.02	18,623
1978	24.26	35.65	1,854	74.19	62.65	91.68	19,168
1979	24.12	35.67	1,855	74.87	63.58	92.51	19,701
1980	24.32	35.11	1,826	75.39	64.17	92.50	19,869

Table 1: Real Per Capita GDP and its Determinants in Canada, 1946-2002 (cont.)

	GDP per Hour (1997 chained US dollars)	Average Weekly Hours	Average Annual Hours	Working Age Population to Total Population, %	Force Participation Rate, %	1-Unemployment Rate, %	GDP per Capita (1997 chained US dollars) G=A*C*(L/D)*100
	A	B	C=B*52	D	E	F	(E/100)*(F/100)
1981	24.82	34.58	1,798	75.80	64.96	92.43	20,314
1982	24.99	34.43	1,791	76.06	64.37	89.03	19,500
1983	25.45	34.48	1,793	76.30	64.70	88.06	19,833
1984	26.24	34.53	1,796	76.53	65.00	88.70	20,789
1985	26.57	34.75	1,807	76.78	65.53	89.35	21,585
1986	26.41	34.73	1,806	76.98	65.98	90.36	21,889
1987	26.86	34.62	1,800	76.93	66.40	91.19	22,518
1988	26.88	35.20	1,830	76.93	66.84	92.25	23,331
1989	26.64	35.66	1,855	76.60	67.20	92.45	23,515
1990	26.87	35.16	1,828	76.59	67.12	91.88	23,207
1991	27.32	34.47	1,793	76.85	66.53	89.68	22,454
1992	28.20	33.93	1,764	77.06	65.68	88.84	22,375
1993	28.26	34.39	1,789	77.27	65.40	88.64	22,637
1994	28.68	34.83	1,811	77.28	65.18	89.64	23,453
1995	29.15	34.58	1,798	77.42	64.90	90.56	23,850
1996	29.19	34.82	1,810	77.62	64.69	90.36	23,977
1997	29.70	34.85	1,812	77.90	64.87	90.90	24,727
1998	30.40	34.53	1,796	78.26	65.13	91.72	25,518
1999	30.92	34.82	1,811	78.56	65.59	92.43	26,664
2000	31.27	35.07	1,824	78.87	65.88	93.19	27,617
2001	32.02	34.39	1,788	79.13	65.99	92.80	27,744
2002	32.66	34.09	1,773	79.41	66.90	92.34	28,401
Average Annual Growth Rates							
1946-2002	2.53	-0.79	-0.79	0.18	0.34	-0.08	2.16
1946-1973	3.81	-1.35	-1.35	-0.06	0.31	-0.08	2.58
1973-2002	1.34	-0.27	-0.27	0.40	0.37	-0.08	1.77
1973-1981	1.41	-0.80	-0.80	0.88	0.97	-0.28	2.18
1981-1989	0.89	0.39	0.39	0.13	0.42	0.00	1.85
1989-2002	1.58	-0.35	-0.35	0.28	-0.03	-0.01	1.46
1989-1995	1.51	-0.51	-0.51	0.18	-0.58	-0.34	0.24
1995-2002	1.64	-0.20	-0.20	0.36	0.43	0.28	2.53

Sources:

Population: CANSIM II series v466668 as of April 6, 2003, linked to a series from the Historical Statistics of Canada in 1971.

Source: Nominal GDP: CANSIM II series v646937 for 1961-2002, April 10, 2003, linked to series F71 (Gross domestic product at factor cost) from Statistics Canada. Historical Statistics of Canada, Second Edition. Ottawa, 1983. Real GDP: CANSIM II series V3860085 for 1961-2002, April 10, 2003, Real GDP = Nominal GDP / Deflator, using series K172 (Gross national expenditure at market prices implicit price index) from Statistics Canada. Historical Statistics of Canada, Second Edition. Ottawa, 1983.

Hours: from the Labour Force Historical Review 2001(R) CD-ROM, linked to a series from Aggregate Productivity Measures in 1976.

Data for 2002: CANSIM II series v2634366

Employment, Labour Force, Working Age Population, Unemployment: Labour Force Historical Review 2001(R) linked to series from Historical Labour Force Statistics in 1976.

Working age is defined as 15+ from 1966 onwards and 14+ before 1966.

Data for 2002: CANSIM II series v2461119

Table 2: Reconciliation of GDP per Capita and Labour Productivity, 2001 (preliminary estimates)

	GDP per Hour Worked (a)		Effect of Working Hours (a) in % points	Effect of Employment Share in Total Population (in % points)			GDP per Head of Population		
	in 1996			Unemploy- ment (b)	Labour Force to Population (15-64 yrs)	Population to Total Population	Total (c)	in 1996 US\$	
	US\$	as % of US						as % of US	
United States	37.0	100.0	0.0	0.0	0.0	0.0	0.0	33,538 100.0	
Norway	40.6	109.7	-28.9	1.0	3.1	-1.6	2.5	27,940 83.3	
Ireland	36.4	98.4	-8.8	0.6	-9.7	1.0	-8.1	27,318 81.5	
Switzerland	31.7	85.8	-12.8	2.1	5.5	0.6	8.2	27,236 81.2	
Denmark	34.6	93.5	-16.4	0.1	2.4	0.4	2.9	26,857 80.1	
Canada	30.5	82.6	-3.5	-2.1	-1.2	1.5	-1.8	25,923 77.3	
Australia	30.3	82.0	-3.1	-1.7	-1.7	1.5	-1.9	25,818 77.0	
Belgium	41.5	112.4	-18.9	-2.1	-15.4	-0.7	-18.2	25,252 75.3	
Netherlands	37.3	100.9	-28.1	1.5	-1.1	1.3	1.7	24,989 74.5	
Austria	35.5	95.9	-17.9	0.8	-6.3	1.5	-4.0	24,828 74.0	
Japan	26.6	72.1	-2.7	-0.1	1.4	1.7	3.0	24,267 72.4	
Finland	31.9	86.3	-10.7	-3.4	-2.2	0.9	-4.7	23,795 71.0	
Sweden	30.2	81.7	-10.7	-0.3	1.7	-2.0	-0.5	23,636 70.5	
Germany	34.2	92.5	-16.6	-2.5	-5.1	1.0	-6.6	23,247 69.3	
France	37.6	101.8	-17.8	-3.6	-9.6	-1.6	-14.8	23,176 69.1	
Italy	32.5	88.0	-11.0	-4.1	-5.2	0.9	-8.4	22,991 68.6	
United Kingdom	29.4	79.5	-9.2	-0.2	-1.8	-0.6	-2.7	22,696 67.7	
Spain	27.9	75.6	-1.8	-6.6	-12.2	0.9	-18.0	18,723 55.8	
New Zealand	22.5	60.8	-3.6	-0.3	-0.7	-0.8	-1.9	18,560 55.3	
Korea	15.2	41.1	13.6	0.4	-8.4	3.3	-4.7	16,747 49.9	
Portugal	19.3	52.1	-3.1	0.3	-1.1	1.2	0.4	16,548 49.3	
Greece	21.6	58.5	2.4	-3.9	-10.9	0.7	-14.1	15,696 46.8	
Czech Rep.	14.4	39.0	3.2	-1.5	-3.0	2.0	-2.5	13,346 39.8	
Hungary	17.4	47.2	-1.8	-0.5	-10.8	1.0	-10.4	11,730 35.0	
Poland	11.9	32.2	2.7	-4.8	-4.2	1.1	-7.9	9,021 26.9	
Mexico	12.1	32.8	3.0	0.9	-9.6	-2.7	-11.5	8,156 24.3	
Turkey	10.2	27.5	1.1	-0.9	-10.2	0.2	-10.9	5,933 17.7	
European Union	32.3	87.4	-12.1	-2.4	-6.0	0.2	-8.2	22,511 67.1	
OECD excl. US	24.9	67.3	-2.8	-1.5	-7.0	0.1	-8.4	18,818 56.1	

(a) Calculated on basis of actual hours worked per person per year; (b) calculated on basis of standardized unemployment rates from OECD; (c) sum of previous columns plus rounding differences; (d) European Union is weighted average for 14 EU member countries, excluding Luxembourg.

Source: Groningen Growth & Development Center & The Conference Board. See Van Ark (2002). Based on *OECD National Accounts, Economic Outlook, Employment Outlook and Labour Force Statistics*, with GDP converted to US\$ at 1996 EKS PPPs.

Table 3: Aggregate Labour Productivity Levels and Growth Rates in Canada, 1946-2002

Canada							Canada in US Dollars										
	Real GDP (millions of chained 1997 dollars)	GDP (millions of current dollars)	Employ- ment (thousands)	Average Weekly Hours (all jobs)	Total Annual Hours Worked (in millions)	Real GDP (in millions of 1997 chained US)	GDP (millions of current US)	Real GDP per Worker (in 1997 US dollars)	GDP per Worker (in current US dollars)	Real GDP per Hour Worked (in 1997 US dollars)	GDP per Hour Worked (in current US dollars)	Real GDP per Hour L=H/E	GDP per Hour L=H/E				
	A	B	C	D	E=C*D/52	F	G=A*0.84 H=B*F	I=G/C	J=H/C	K=G/E	L=H/E						
1946	\$128,009	\$12,468	4,813	53.18	13,311	1,239	\$107,527	\$15,449	\$22,340	\$3,210	\$8.08	\$1.16					
1947	133,179	14,114	4,985	52.39	13,579	1,261	111,871	17,793	22,443	3,570	8.24	1.31					
1948	137,810	16,395	5,029	52.78	13,802	1,187	115,760	19,466	23,019	3,871	8.39	1.41					
1949	143,687	17,827	5,068	52.71	13,891	1,137	120,697	20,271	23,815	4,000	8.69	1.46					
1950	154,304	19,609	5,133	50.87	13,579	1,122	129,616	22,006	25,251	4,287	9.55	1.62					
1951	161,930	22,906	5,258	50.56	13,824	1,081	136,021	24,755	25,870	4,708	9.84	1.79					
1952	174,261	25,742	5,332	50.02	13,869	1,051	146,379	27,062	27,452	5,075	10.55	1.95					
1953	181,911	26,830	5,400	49.55	13,914	1,067	152,805	28,615	28,296	5,299	10.98	2.06					
1954	180,702	27,071	5,409	48.92	13,757	1,061	151,790	28,710	28,065	5,308	11.03	2.09					
1955	197,830	29,820	5,533	48.05	13,824	1,072	166,177	31,976	30,032	5,779	12.02	2.31					
1956	213,325	33,343	5,761	47.78	14,316	1,070	179,193	35,667	31,103	6,191	12.52	2.49					
1957	219,339	34,995	5,912	46.79	14,383	1,083	184,245	37,883	31,165	6,408	12.81	2.63					
1958	223,514	36,179	5,886	45.24	13,847	1,092	187,752	39,522	31,897	6,714	13.56	2.85					
1959	231,317	38,193	6,055	44.61	14,048	1,083	194,306	41,367	32,088	6,831	13.83	2.94					
1960	237,928	39,781	6,153	43.41	13,891	1,085	199,859	43,152	32,480	7,013	14.39	3.11					
1961	245,230	41,173	6,246	42.43	13,780	1,092	205,993	44,974	32,979	7,200	14.95	3.26					
1962	262,382	44,665	6,422	42.40	14,159	1,092	220,401	48,771	34,322	7,595	15.57	3.44					
1963	276,306	47,961	6,576	41.99	14,360	1,083	232,097	51,933	35,293	7,897	16.16	3.62					
1964	294,196	52,549	6,818	41.70	14,785	1,068	247,125	56,124	36,248	8,232	16.71	3.80					
1965	312,930	57,930	7,079	41.44	15,254	1,050	262,861	60,814	37,134	8,591	17.23	3.99					
1966	333,724	64,818	7,471	41.11	15,968	1,029	280,328	66,705	37,524	8,929	17.56	4.18					
1967	343,454	69,698	7,686	40.46	16,169	1,015	288,501	70,774	37,535	9,208	17.84	4.38					
1968	360,214	76,131	7,833	39.37	16,035	1,017	302,580	77,423	38,630	9,885	18.87	4.83					
1969	378,344	83,825	8,079	38.75	16,281	1,018	317,809	85,312	39,336	10,559	19.52	5.24					
1970	389,809	90,179	8,169	37.85	16,080	1,027	327,440	92,579	40,083	11,333	20.36	5.76					
1971	405,860	98,429	8,360	37.45	16,281	1,029	340,922	101,246	40,781	12,111	20.94	6.22					
1972	427,962	109,913	8,607	36.97	16,549	1,013	359,488	111,295	41,765	12,930	21.72	6.73					
1973	457,766	128,956	9,038	36.88	17,331	0,975	384,523	125,715	42,547	13,910	22.19	7.25					
1974	474,663	154,038	9,413	36.59	17,911	0,922	398,717	142,063	42,358	15,092	22.26	7.93					
1975	483,316	173,621	9,577	35.83	17,844	0,911	405,985	158,149	42,391	16,513	22.75	8.86					
1976	508,445	199,994	9,776	35.32	17,956	0,879	427,094	175,788	43,687	17,981	23.79	9.79					
1977	526,028	220,973	9,915	35.31	18,204	0,876	441,864	193,574	44,567	19,524	24.27	10.63					
1978	546,825	244,877	10,212	35.65	18,933	0,880	459,333	215,542	44,979	21,106	24.26	11.38					
1979	567,631	279,577	10,658	35.67	19,766	0,867	476,810	242,391	44,739	22,743	24.12	12.26					
1980	579,907	314,390	10,970	35.11	20,028	0,860	487,122	270,365	44,405	24,646	24.32	13.50					
1981	600,253	360,471	11,297	34.58	20,312	0,849	504,213	305,958	44,633	27,084	24.82	15.06					
1982	583,089	379,859	10,947	34.43	19,602	0,831	489,795	315,745	44,742	28,843	24.99	16.11					
1983	598,941	411,386	11,027	34.48	19,769	0,820	503,110	337,165	45,625	30,576	25.45	17.06					
1984	633,756	449,582	11,300	34.53	20,291	0,823	532,355	370,027	47,111	32,746	26.24	18.24					
1985	664,059	485,714	11,617	34.75	20,992	0,823	557,810	399,959	48,015	34,428	26.57	19.05					
1986	680,144	512,541	11,979	34.73	21,633	0,817	571,321	418,671	47,694	34,950	26.41	19.35					
1987	709,058	558,949	12,321	34.62	22,178	0,804	595,609	449,580	48,342	36,490	26.86	20.27					
1988	744,333	613,094	12,710	35.20	23,264	0,796	625,240	487,985	49,192	38,393	26.88	20.98					
1989	763,837	657,728	12,986	35.66	24,084	0,790	641,623	519,866	49,407	40,032	26.64	21.59					
1990	765,311	679,921	13,084	35.16	23,923	0,796	642,861	541,143	49,133	41,359	26.87	22.62					
1991	749,294	685,367	12,851	34.47	23,037	0,801	629,407	549,104	48,978	42,729	27.32	23.84					
1992	755,848	700,480	12,760	33.93	22,514	0,81	634,912	567,389	49,758	44,466	28.20	25.20					
1993	773,528	727,184	12,858	34.39	22,996	0,82	649,764	596,291	50,536	46,377	28.26	25.93					
1994	810,695	770,873	13,112	34.83	23,747	0,83	680,984	639,825	51,937	48,798	28.68	26.94					
1995	833,456	810,426	13,357	34.58	24,020	0,83	700,103	672,654	52,415	50,360	29.15	28.00					
1996	846,952	836,864	13,463	34.82	24,374	0,84	711,440	702,966	52,846	52,216	29.19	28.84					
1997	882,733	882,733	13,774	34.85	24,964	0,84	741,496	741,496	53,831	53,831	29.70	29.70					
1998	918,910	914,973	14,140	34.53	25,390	0,86	771,884	786,877	54,587	55,647	30.40	30.99					
1999	968,451	980,524	14,531	34.82	26,312	0,85	813,499	833,445	55,983	57,356	30.92	31.68					
2000	1,012,334	1,064,995	14,910	35.07	27,193	0,84	850,361	894,596	57,034	60,001	31.27	32.90					
2001	1,027,522	1,092,246	15,077	34.39	26,958	0,85	863,118	928,409	57,248	61,579	32.02	34.44					
2002	1,062,143	1,142,123	15,412	34.09	27,321	0,850	892,200	970,969	57,891	63,002	32.66	35.54					
46-02	3.85	8.40	2.10	-0.79	1.29		3.85	7.67	1.71	5.46	2.53	6.30					
46-73	4.83	9.04	2.36	-1.35	0.98		4.83	8.07	2.41	5.58	3.81	7.02					
73-81	2.94	7.81	1.86	-0.27	1.58		2.94	7.30	1.07	5.35	1.34	5.63					
81-89	3.45	13.71	2.83	-0.80	2.00		3.45	11.76	0.60	8.69	1.41	9.56					
89-92	3.06	7.81	1.76	0.39	2.15		3.06	6.85	1.28	5.01	0.89	4.60					
89-95	2.57	4.34	1.33	-0.35	0.97		2.57	4.92	1.23	3.55	1.58	3.91					
95-02	1.46	3.54	0.47	-0.51	-0.04		1.46	4.39	0.99	3.90	1.51	4.43					
	3.52	5.02	2.07	-0.20	1.86		3.52	5.38	1.43	3.25	1.64	3.46					

Sources: Population: CANSIM II series v466668 as of April 6 2003, linked to a series from the Historical Statistics of Canada in 1971.

Source: Nominal GDP: CANSIM II series v646937 for 1961-2002, April 10, 2003, linked to series F71 (Gross domestic product at factor cost) from Statistics Canada.

Historical Statistics of Canada, Second Edition. Ottawa, 1983. Real GDP: CANSIM II series V3860085 for 1961-2002, April 10, 2003, Real GDP =Nominal GDP / Deflator, using series K172 (Gross national expenditure at market prices implicit price index) from Statistics Canada. Historical Statistics of Canada, Second Edition. Ottawa, 1983. Hours: from the Labour Force Historical Review 2001(R) CD-ROM linked to a series from Aggregate Productivity Measures in 1976. Employment, Labour Force, Working Age Population, Unemployment: Labour Force Historical Review 2001(R) linked to series from Historical Labour Force Statistics in 1976. Employment and Hours data for 2002: CANSIM II series v2461119 and v2634366, April 6, 2003. Working age is defined as 15+ from 1966 onwards and 14+ before 1966. The GDP PPPs for 1946-1991 were calculated by multiplying the 1992 PPP estimate by the index value (1992=1.00) of the US GDP deflator as a percentage of the Canadian GDP deflator in each year.

The GDP PPP for 2002 was calculated by multiplying the 2001 PPP estimate by the index value (2001=1.00) of the US GDP deflator as a percentage of the Canadian GDP deflator.

PPPs for 1992-2001 are from Purchasing Power Parities and Real Expenditures, United States and Canada, 1992-2001, Statistics Canada publication 13-604-MIB no. 39, June 2002.

Table 4: Aggregate Labour Productivity Levels and Growth Rates in the United States, 1946-2002

United States											
	Real GDP (billions of 1996 chained dollars)	Real GDP (in billions of 1997 GDP Deflator in 1997)	Real GDP (in billions of 1997 GDP Deflator in 1997)	Average Weekly Hours (based on Employ- ment CES)	Average Weekly Hours (based on Employ- ment CES)	Total Annual		Real GDP per Worker (in thousands)	Real GDP per Hour GDP per Hour Worked (in 1997 current dollars)	Real GDP per Hour GDP per Hour Worked (in 1997 current dollars)	Real GDP per Hour GDP per Hour Worked (in 1997 current dollars)
						Hours Worked (in Millions)	Total Annual (in Millions)				
A	B	C=A*B	D	E	F	G=E*F*52	G=E*F*52	H=C/E	I=C/G	K=D/G	M=D/G'
1946	\$1,506	101.95	\$1,535	\$222	55,250	40.3	n/a	115,782	\$27,780	\$4,024	\$13.26
1947	1,495	101.95	1,524	244	57,038	40.3	n/a	119,529	n/a	26,723	4.285
1948	1,560	101.95	1,590	270	58,343	40.0	n/a	121,353	n/a	27,260	4.621
1949	1,551	101.95	1,581	268	57,651	39.4	n/a	118,115	n/a	27,426	4.643
1950	1,687	101.95	1,719	294	58,918	39.8	n/a	121,937	n/a	29,184	4.995
1951	1,815	101.95	1,850	340	59,961	39.9	n/a	124,407	n/a	30,862	5.662
1952	1,887	101.95	1,924	359	60,250	39.9	n/a	125,007	n/a	31,935	5.952
1953	1,974	101.95	2,012	380	61,179	39.6	n/a	125,980	n/a	32,893	6.210
1954	1,961	101.95	1,999	381	60,109	39.1	n/a	122,214	n/a	33,252	6.340
1955	2,100	101.95	2,140	415	62,170	39.6	n/a	128,020	n/a	34,429	6.678
1956	2,141	101.95	2,183	438	63,799	39.3	n/a	130,380	n/a	34,215	6,865
1957	2,184	101.95	2,226	462	64,071	38.8	n/a	129,270	n/a	34,750	7,203
1958	2,163	101.95	2,205	468	63,036	38.5	n/a	126,198	n/a	34,980	7,423
1959	2,319	101.95	2,364	507	64,630	39.0	n/a	131,070	n/a	36,581	7,851
1960	2,377	101.95	2,423	527	65,778	38.6	n/a	132,030	n/a	36,837	8,018
1961	2,432	101.95	2,479	546	65,746	38.6	n/a	131,965	n/a	37,712	8,300
1962	2,579	101.95	2,629	587	66,702	38.7	n/a	134,231	n/a	39,417	8,793
1963	2,690	101.95	2,743	619	67,762	38.8	n/a	136,717	n/a	40,478	9,130
1964	2,847	101.95	2,902	664	69,305	38.7	n/a	139,469	n/a	41,873	9,587
1965	3,029	101.95	3,088	720	71,088	38.8	n/a	143,427	n/a	43,433	10,130
1966	3,228	101.95	3,290	789	72,895	38.6	n/a	146,315	n/a	45,139	10,828
1967	3,308	101.95	3,373	834	74,372	38.0	n/a	146,959	n/a	45,351	11,215
1968	3,466	101.95	3,534	912	75,920	37.8	n/a	149,228	n/a	46,545	12,006
1969	3,571	101.95	3,641	985	77,902	37.7	n/a	152,719	n/a	46,739	12,648
1970	3,578	101.95	3,648	1,040	78,678	37.1	n/a	151,786	n/a	46,363	13,215
1971	3,698	101.95	3,770	1,129	79,367	36.9	n/a	152,289	n/a	47,498	14,220
1972	3,898	101.95	3,974	1,240	82,153	37.0	n/a	158,062	n/a	48,378	15,099
1973	4,123	101.95	4,204	1,386	85,064	36.9	n/a	163,221	n/a	49,419	16,288
1974	4,099	101.95	4,179	1,501	86,794	36.5	n/a	164,735	n/a	48,148	17,294
1975	4,084	101.95	4,164	1,635	85,846	36.1	n/a	161,150	n/a	48,506	19,048
1976	4,312	101.95	4,396	1,824	88,752	36.1	n/a	166,605	167,804	49,529	20,551
1977	4,512	101.95	4,600	2,031	92,017	36.0	36.5	172,256	174,516	49,988	22,076
1978	4,761	101.95	4,853	2,296	96,048	35.8	36.7	178,803	183,485	50,531	23,904
1979	4,912	101.95	5,008	2,566	98,824	35.7	36.6	183,457	188,276	50,675	25,969
1980	4,901	101.95	4,996	2,796	99,303	35.3	36.2	182,281	187,031	50,315	28,152
1981	5,021	101.95	5,119	3,131	100,397	35.2	35.9	183,767	187,437	50,987	31,189
1982	4,919	101.95	5,015	3,259	99,526	34.8	35.8	180,102	185,378	50,391	32,747
1983	5,132	101.95	5,232	3,535	100,834	35.0	36.2	183,518	189,740	51,891	35,057
1984	5,505	101.95	5,613	3,933	105,005	35.2	36.7	192,201	200,612	53,450	37,453
1985	5,717	101.95	5,829	4,213	107,150	34.9	36.9	194,456	205,560	54,396	39,319
1986	5,912	101.95	6,028	4,453	109,597	34.8	37.1	198,327	211,162	54,999	40,630
1987	6,113	101.95	6,233	4,743	112,440	34.8	37.0	203,471	216,043	55,430	42,178
1988	6,368	101.95	6,493	5,108	114,968	34.7	37.4	207,448	223,600	56,473	44,432
1989	6,592	101.95	6,720	5,489	117,342	34.6	37.5	211,122	228,925	57,271	46,779
1990	6,708	101.95	6,839	5,803	118,793	34.5	37.4	213,115	230,762	57,568	48,851
1991	6,676	101.95	6,807	5,986	117,718	34.3	37.2	209,962	227,899	57,821	50,852
1992	6,880	101.95	7,014	6,319	118,492	34.4	36.9	211,958	227,373	59,195	53,328
1993	7,063	101.95	7,200	6,642	120,259	34.5	37.4	215,745	234,010	59,873	55,233
1994	7,348	101.95	7,491	7,054	123,060	34.7	37.4	222,049	239,392	60,873	57,324
1995	7,544	101.95	7,691	7,401	124,900	34.5	37.5	224,071	243,838	61,576	59,251
1996	7,813	101.95	7,966	7,813	126,708	34.4	37.5	226,655	247,153	62,865	61,663
1997	8,160	101.95	8,319	8,318	129,558	34.6	37.8	233,101	254,702	64,208	64,206
1998	8,509	101.95	8,675	8,782	131,463	34.6	37.6	236,528	257,242	65,987	66,798
1999	8,859	101.95	9,032	9,274	133,488	34.5	38.0	239,477	263,744	67,660	69,477
2000	9,191	101.95	9,371	9,825	135,208	34.5	38.1	242,563	267,530	69,305	72,663
2001	9,215	101.95	9,394	10,082	135,073	34.2	37.6	240,214	264,007	69,549	74,643
2002	9,436	101.95	9,620	10,446	134,269	34.1	37.6	238,086	262,185	71,648	77,799
46-02	3.33	3.33	7.12	1.60	-0.30	n/a	1.30	n/a	1.71	5.43	2.01
46-73	3.80	3.80	7.01	1.61	-0.33	n/a	1.28	n/a	2.16	5.32	2.49
73-02	2.90	2.90	7.21	1.59	-0.27	n/a	1.31	n/a	1.29	5.54	1.57
73-81	2.49	2.49	10.73	2.09	-0.59	n/a	1.49	n/a	0.39	8.46	0.98
81-89	3.46	3.46	7.27	1.97	-0.21	0.55	1.75	2.53	1.46	5.20	1.68
89-02	2.80	2.80	5.07	1.04	-0.11	0.01	0.93	1.05	1.74	3.99	1.85
89-95	2.27	2.27	5.11	1.05	-0.05	0.01	1.00	1.06	1.22	4.02	1.26
95-02	3.25	3.25	5.05	1.04	-0.17	0.00	0.87	1.04	2.19	3.97	2.36

Population: BEA NIPA Table 2.1 for 1959-2001, linked to a series from the 1988 Economic Report of the President in 1959. Real GDP: BEA NIPA tables, April 6, 2003 Nominal GDP from the BEA NIPA tables, April 6, 2003. GDP deflator is real/nominal GDP * 100.

CES Hours: Economic Report of the President 2002, 2003, Table B-42 and 1988. 1946 value assumed equal to 1947 value.

Employment, Labour Force, Working Age Population, Unemployment: Economic Report of the President 2002, Tables B-47 and B-35.

CPS Hours and number of workers at work during reference week, BLS website; www.bls.gov, series LFU12100000 and LFU12300000, April 6, 2003.

CPS Average Hours for all workers in the United States is equal to total hours, which is the product of average hours for persons at work during reference week times number of persons at work during reference week, divided by total employment.

Table 5: Average weekly Hours per Worker in Canada and the United States

	Establishment Surveys			Household Surveys			
	Canada (Survey of Employment, Payrolls and Hours)		United States (Current Employment Survey)	Canada (Labour Force Survey)		United States (Current Population Survey)	
	Average Weekly Hours Worked	Average Weekly Hours per Employee	Average Weekly Hours per Production Worker	Average Actual Hours (all jobs)	Hours (worked in reference week)	Average Hours for All Workers	Average Hours at Work During Reference Week*
Average Weekly Hours Worked by Salaried Workers	Average Weekly Hours Worked by Hourly Paid Employees, Including Overtime	Average Weekly Hours per Employee	Average Weekly Hours per Production Worker	Average Actual Hours (all jobs)	Hours (worked in reference week)	Average Hours for All Workers	Average Hours at Work During Reference Week*
1976	n/a	n/a	36.1	35.3	38.0	36.4	38.7
1977	n/a	n/a	36.0	35.3	37.9	36.5	38.8
1978	n/a	n/a	35.8	35.7	38.3	36.7	39.0
1979	n/a	n/a	35.7	35.7	38.5	36.6	38.9
1980	n/a	n/a	35.3	35.1	37.9	36.2	38.5
1981	n/a	n/a	35.2	34.6	37.4	35.9	38.1
1982	n/a	n/a	34.8	34.4	37.1	35.8	38.0
1983	n/a	n/a	35.0	34.5	37.2	36.2	38.3
1984	n/a	n/a	35.2	34.5	37.4	36.7	38.8
1985	n/a	n/a	34.9	34.7	37.5	36.9	39.0
1986	n/a	n/a	34.8	34.7	37.5	37.1	39.1
1987	n/a	n/a	34.8	34.6	37.4	37.0	39.0
1988	n/a	n/a	34.7	35.2	38.0	37.4	39.4
1989	n/a	n/a	34.6	35.7	38.4	37.5	39.6
1990	n/a	n/a	34.5	35.2	38.2	37.4	39.4
1991	36.8	31.0	33.8	34.3	34.5	37.4	39.2
1992	36.7	30.8	33.7	34.4	33.9	36.9	38.9
1993	36.7	30.9	33.7	34.5	34.4	37.2	39.4
1994	36.7	31.2	33.8	34.7	34.8	37.6	39.2
1995	36.5	30.9	33.4	34.5	34.6	37.3	39.3
1996	36.7	30.9	33.5	34.4	34.8	37.6	39.3
1997	36.8	31.5	33.8	34.6	34.9	37.8	39.5
1998	36.8	31.4	33.7	34.6	34.5	37.5	39.3
1999	36.7	31.6	33.7	34.5	34.8	37.7	39.6
2000	37.3	31.6	33.9	34.5	35.1	37.9	39.7
2001	37.8	31.6	34.1	34.2	34.4	37.3	39.2
2002	37.9	31.9	34.3	34.2	34.1	37.1	39.1

Source: Canada: SEPH estimates: CANSIM II Tables 281-0024, 281-0033 and 281-0038, on January 14, 2003.

LFS estimates: Statistics Canada, CANSIM II series v2634367 and v2634368

United States: CES estimates: series EEU00500005(n) from Bureau of Labour Statistics website: www.bls.gov, on January 14, 2003.

CPS estimates: series LFU123000000 from Bureau of Labour Statistics website: www.bls.gov, on January 14, 2003.

Note: The SEPH series for total employees is an average of average weekly hours for salaried employees and employees paid by the hour, weighted according to the respective employment shares.

The SEPH series are for an Industrial aggregate excluding unclassified.

for reasons such as vacation, illness, or industrial dispute.

Average Hours for all workers in the Unites states is equal to total hours, which is the product of average hours for persons at work times number of persons at work, divided by total employment.

**Table 6: End-Year Net Stocks of Non-Residential Fixed Assets for Total Economy,
in millions of 1997 \$US, Canada and the United States, 1955-2002**

	All Components		Machinery and Equipment		Structures	
	Canada, \$US 1997	United States, 1997 \$	Canada, \$US 1997	United States, 1997 \$	Canada, \$US 1997	United States, 1997 \$
1955	263,423	4,062,976	38,571	853,448	238,769	3,299,670
1956	281,204	4,201,836	41,326	883,943	254,680	3,409,939
1957	301,459	4,338,025	43,757	912,832	273,768	3,520,209
1958	317,809	4,447,510	44,633	925,271	290,655	3,625,805
1959	333,060	4,582,364	45,632	954,161	306,160	3,735,140
1960	348,045	4,719,889	46,635	980,643	321,365	3,850,082
1961	362,511	4,861,418	46,803	1,007,526	337,134	3,970,631
1962	377,479	5,022,976	47,452	1,045,645	352,802	4,094,917
1963	393,196	5,188,539	48,604	1,083,362	368,614	4,224,811
1964	412,300	5,379,471	50,983	1,129,104	386,501	4,370,591
1965	434,935	5,611,794	54,533	1,189,692	406,697	4,539,733
1966	461,872	5,878,831	59,343	1,269,941	429,932	4,719,154
1967	486,571	6,131,182	63,261	1,342,967	451,908	4,894,837
1968	508,691	6,379,527	65,545	1,411,179	473,259	5,071,455
1969	530,374	6,627,872	67,913	1,482,199	494,012	5,244,335
1970	552,920	6,842,837	70,247	1,537,972	515,766	5,403,198
1971	575,975	7,028,428	72,609	1,576,893	538,044	5,553,650
1972	598,415	7,243,393	75,332	1,642,697	559,151	5,699,430
1973	623,427	7,490,403	79,973	1,729,366	580,488	5,855,489
1974	650,191	7,725,396	85,705	1,815,634	602,277	6,000,334
1975	678,925	7,902,976	91,311	1,869,802	626,416	6,122,752
1976	705,263	8,083,226	96,403	1,928,384	648,607	6,242,366
1977	731,252	8,292,851	100,433	2,013,448	671,856	6,359,177
1978	756,781	8,559,888	104,245	2,126,599	694,895	6,503,088
1979	787,042	8,860,306	109,876	2,253,793	720,690	6,667,557
1980	822,758	9,135,354	117,165	2,351,296	750,258	6,841,372
1981	866,009	9,411,738	129,052	2,443,582	781,893	7,021,727
1982	897,928	9,629,374	135,011	2,500,960	809,074	7,184,328
1983	921,793	9,829,652	138,143	2,569,975	831,201	7,312,352
1984	945,063	10,124,728	141,131	2,689,546	852,863	7,482,429
1985	971,105	10,454,520	144,484	2,815,135	877,094	7,680,540
1986	994,804	10,742,920	149,237	2,929,089	896,828	7,851,551
1987	1,021,087	11,008,623	155,247	3,022,579	917,706	8,020,693
1988	1,054,685	11,273,137	165,081	3,121,051	941,465	8,183,946
1989	1,089,904	11,544,727	175,336	3,228,151	966,442	8,344,862
1990	1,121,428	11,817,385	182,405	3,321,607	991,674	8,522,319
1991	1,147,859	12,031,026	186,603	3,389,782	1,015,184	8,667,164
1992	1,168,176	12,230,913	190,731	3,463,537	1,032,029	8,791,168
1993	1,186,050	12,458,841	193,492	3,560,965	1,048,034	8,917,695
1994	1,209,845	12,706,663	198,346	3,686,082	1,067,735	9,034,972
1995	1,234,225	13,003,890	204,503	3,836,117	1,086,309	9,177,013
1996	1,259,414	13,352,525	212,235	4,012,717	1,103,632	9,344,751
1997	1,296,959	13,745,890	226,709	4,216,281	1,125,433	9,532,581
1998	1,334,730	14,192,933	242,232	4,465,512	1,146,056	9,732,558
1999	1,377,144	14,660,194	260,943	4,725,380	1,167,472	9,946,048
2000	1,425,418	15,160,673	283,061	5,012,132	1,190,726	10,171,373
2001	1,469,135	15,533,103	300,573	5,184,036	1,215,214	10,378,381
2002	1,506,285	n/a	316,472	n/a	1,234,639	n/a

Sources: Canada: Stocks of Fixed assets, total economy: CANSIM II series v1078498, v1078499, v1078500, v1078501.

PPPs for gross fixed capital formation: CANSIM II series v13930594, v13930595, v13930596. United States: BEA FAT Tables 1.2 and 9.1. All on April 08, 2003.

Notes: All Components fixed assets for Canada have been converted to 1997 \$US by multiplying them by 0.85, the 1997 PPP exchange rate.

Machinery and Equipment fixed assets for Canada have been converted to 1997 \$US by multiplying them by 0.69, the 1997 PPP exchange rate.

Structures fixed assets for Canada have been converted to 1997 \$US by multiplying them by 0.94, the 1997 PPP exchange rate.

Data for the United States prior to 1987 were derived using chained type quantity indexes of end-year net stock in constant prices.

Table 7: Relative Labour Productivity Levels Using Different Average Hours Sources, Canada-United States, 1946-2002

	Canada/United States, % (Hours based on CES)				Canada/United States, % (Hours based on CPS)	
	Worker (in thousands of 1997 dollars)	Worker (in current dollars)	Hour Worked (in 1997 dollars)	Hour Worked (in current dollars)	Hour Worked (in 1997 dollars)	Hour Worked (in current dollars)
1946	80.42	79.77	60.94	60.45	n/a	n/a
1947	83.98	83.31	64.61	64.09	n/a	n/a
1948	84.44	83.77	64.00	63.48	n/a	n/a
1949	86.83	86.14	64.91	64.39	n/a	n/a
1950	86.52	85.83	67.69	67.15	n/a	n/a
1951	83.83	83.15	66.15	65.62	n/a	n/a
1952	85.96	85.27	68.57	68.02	n/a	n/a
1953	86.02	85.33	68.75	68.20	n/a	n/a
1954	84.40	83.72	67.46	66.92	n/a	n/a
1955	87.23	86.53	71.90	71.32	n/a	n/a
1956	90.91	90.18	74.76	74.16	n/a	n/a
1957	89.68	88.96	74.38	73.78	n/a	n/a
1958	91.19	90.46	77.60	76.98	n/a	n/a
1959	87.72	87.02	76.68	76.07	n/a	n/a
1960	88.17	87.47	78.40	77.77	n/a	n/a
1961	87.45	86.75	79.56	78.93	n/a	n/a
1962	87.07	86.38	79.47	78.83	n/a	n/a
1963	87.19	86.49	80.56	79.91	n/a	n/a
1964	86.57	85.87	80.33	79.69	n/a	n/a
1965	85.50	84.81	80.05	79.41	n/a	n/a
1966	83.13	82.46	78.06	77.44	n/a	n/a
1967	82.77	82.10	77.74	77.12	n/a	n/a
1968	83.00	82.33	79.69	79.05	n/a	n/a
1969	84.16	83.49	81.87	81.22	n/a	n/a
1970	86.45	85.76	84.73	84.05	n/a	n/a
1971	85.86	85.17	84.59	83.91	n/a	n/a
1972	86.33	85.64	86.39	85.70	n/a	n/a
1973	86.09	85.40	86.15	85.46	n/a	n/a
1974	87.97	87.27	87.75	87.05	n/a	n/a
1975	87.39	86.69	88.05	87.34	n/a	n/a
1976	88.21	87.50	90.15	89.43	90.80	90.07
1977	89.15	88.44	90.90	90.17	92.09	91.35
1978	89.01	88.30	89.38	88.66	91.72	90.98
1979	88.29	87.58	88.37	87.66	90.69	89.96
1980	88.25	87.54	88.73	88.02	91.04	90.31
1981	87.54	86.84	89.11	88.40	90.89	90.16
1982	88.79	88.08	89.73	89.01	92.36	91.62
1983	87.93	87.22	89.26	88.55	92.29	91.55
1984	88.14	87.43	89.84	89.12	93.78	93.02
1985	88.27	87.56	88.65	87.94	93.71	92.96
1986	86.72	86.02	86.89	86.20	92.52	91.78
1987	87.21	86.51	87.67	86.97	93.09	92.34
1988	87.11	86.41	85.87	85.18	92.56	91.81
1989	86.27	85.58	83.70	83.02	90.75	90.02
1990	85.35	84.66	83.74	83.07	90.68	89.95
1991	84.71	84.03	84.28	83.60	91.48	90.75
1992	84.06	83.38	85.22	84.54	91.42	90.68
1993	84.40	83.97	84.66	84.22	91.83	91.35
1994	85.32	85.13	85.01	84.81	91.64	91.44
1995	85.12	84.99	84.92	84.79	92.41	92.27
1996	84.06	84.68	83.05	83.67	90.57	91.23
1997	83.84	83.84	83.23	83.23	90.95	90.95
1998	82.72	83.31	82.89	83.48	90.15	90.79
1999	82.74	82.55	81.98	81.79	90.29	90.08
2000	82.29	82.57	80.95	81.22	89.28	89.58
2001	82.31	82.50	81.87	82.05	89.98	90.18
2002	80.80	80.98	80.82	81.00	89.00	89.20
46-02	0.01	0.03	0.51	0.52	n/a	n/a
46-73	0.25	0.25	1.29	1.29	n/a	n/a
73-02	-0.22	-0.18	-0.22	-0.18	n/a	n/a
73-81	0.21	0.21	0.42	0.42	n/a	n/a
81-89	-0.18	-0.18	-0.78	-0.78	-0.02	-0.02
89-02	-0.50	-0.42	-0.27	-0.19	-0.15	-0.07
89-95	-0.22	-0.11	0.24	0.35	0.30	0.41
95-02	-0.74	-0.69	-0.70	-0.65	-0.54	-0.48

Table 8: Relative Capital Productivity for All Components in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), All Components		Real GDP, billions of 1997 \$US		Real GDP per 1,000\$ of Capital Stock Canada/ US, %		
	Canada	United States	Canada	United States	Canada	United States	%
1955	263,423	4,062,976	166	2,140	630.8	526.8	119.75
1956	281,204	4,201,836	179	2,183	637.2	519.5	122.66
1957	301,459	4,338,025	184	2,226	611.2	513.2	119.08
1958	317,809	4,447,510	188	2,205	590.8	495.8	119.16
1959	333,060	4,582,364	194	2,364	583.4	515.9	113.07
1960	348,045	4,719,889	200	2,423	574.2	513.4	111.86
1961	362,511	4,861,418	206	2,479	568.2	510.0	111.42
1962	377,479	5,022,976	220	2,629	583.9	523.4	111.55
1963	393,196	5,188,539	232	2,743	590.3	528.6	111.66
1964	412,300	5,379,471	247	2,902	599.4	539.5	111.11
1965	434,935	5,611,794	263	3,088	604.4	550.2	109.85
1966	461,872	5,878,831	280	3,290	606.9	559.7	108.44
1967	486,571	6,131,182	289	3,373	592.9	550.1	107.78
1968	508,691	6,379,527	303	3,534	594.8	553.9	107.39
1969	530,374	6,627,872	318	3,641	599.2	549.4	109.08
1970	552,920	6,842,837	327	3,648	592.2	533.1	111.09
1971	575,975	7,028,428	341	3,770	591.9	536.4	110.35
1972	598,415	7,243,393	359	3,974	600.7	548.7	109.48
1973	623,427	7,490,403	385	4,204	616.8	561.2	109.90
1974	650,191	7,725,396	399	4,179	613.2	540.9	113.37
1975	678,925	7,902,976	406	4,164	598.0	526.9	113.49
1976	705,263	8,083,226	427	4,396	605.6	543.8	111.36
1977	731,252	8,292,851	442	4,600	604.3	554.7	108.94
1978	756,781	8,559,888	459	4,853	607.0	567.0	107.05
1979	787,042	8,860,306	477	5,008	605.8	565.2	107.19
1980	822,758	9,135,354	487	4,996	592.1	546.9	108.25
1981	866,009	9,411,738	504	5,119	582.2	543.9	107.05
1982	897,928	9,629,374	490	5,015	545.5	520.8	104.73
1983	921,793	9,829,652	503	5,232	545.8	532.3	102.53
1984	945,063	10,124,728	532	5,613	563.3	554.3	101.62
1985	971,105	10,454,520	558	5,829	574.4	557.5	103.03
1986	994,804	10,742,920	571	6,028	574.3	561.1	102.36
1987	1,021,087	11,008,623	596	6,233	583.3	566.1	103.03
1988	1,054,685	11,273,137	625	6,493	592.8	575.9	102.93
1989	1,089,904	11,544,727	642	6,720	588.7	582.1	101.13
1990	1,121,428	11,817,385	643	6,839	573.3	578.7	99.06
1991	1,147,859	12,031,026	629	6,807	548.3	565.8	96.92
1992	1,168,176	12,230,913	635	7,014	543.5	573.5	94.77
1993	1,186,050	12,458,841	650	7,200	547.8	577.9	94.79
1994	1,209,845	12,706,663	681	7,491	562.9	589.5	95.48
1995	1,234,225	13,003,890	700	7,691	567.2	591.4	95.91
1996	1,259,414	13,352,525	711	7,966	564.9	596.6	94.69
1997	1,296,959	13,745,890	741	8,319	571.7	605.2	94.47
1998	1,334,730	14,192,933	772	8,675	578.3	611.2	94.62
1999	1,377,144	14,660,194	813	9,032	590.7	616.1	95.88
2000	1,425,418	15,160,673	850	9,371	596.6	618.1	96.52
2001	1,469,135	15,533,103	863	9,394	587.5	604.8	97.14
Average annual growth rates							
55-01	3.81	2.96	3.65	3.27	-0.15	0.30	-0.45
55-73	4.90	3.46	4.77	3.82	-0.13	0.35	-0.48
73-81	4.19	2.90	3.45	2.49	-0.72	-0.39	-0.33
81-89	2.92	2.59	3.06	3.46	0.14	0.85	-0.71
89-01	2.52	2.50	2.50	2.83	-0.02	0.32	-0.33
89-95	2.09	2.00	1.46	2.27	-0.62	0.27	-0.88
95-01	2.95	3.01	3.55	3.39	0.59	0.37	0.21

Sources: Tables 3, 4, 6

**Table 9: Canada TFP Level Relative to the United States
(using CES hours)**

	Canada as % of the United States (US=100)				
	Relative Value Added per Hour				
	Relative Value Added per Hour	Labour Share	Capital Stock	Capital Share	TFP
	A	B	C	D	AB+CD
1955	71.9	0.652	119.7	0.348	88.5
1956	74.8	0.652	122.7	0.348	91.4
1957	74.4	0.652	119.1	0.348	89.9
1958	77.6	0.652	119.2	0.348	92.1
1959	76.7	0.652	113.1	0.348	89.3
1960	78.4	0.652	111.9	0.348	90.0
1961	79.6	0.652	111.4	0.348	90.6
1962	79.5	0.652	111.5	0.348	90.6
1963	80.6	0.652	111.7	0.348	91.4
1964	80.3	0.652	111.1	0.348	91.0
1965	80.1	0.652	109.8	0.348	90.4
1966	78.1	0.652	108.4	0.348	88.6
1967	77.7	0.652	107.8	0.348	88.2
1968	79.7	0.652	107.4	0.348	89.3
1969	81.9	0.652	109.1	0.348	91.3
1970	84.7	0.652	111.1	0.348	93.9
1971	84.6	0.652	110.4	0.348	93.6
1972	86.4	0.652	109.5	0.348	94.4
1973	86.1	0.652	109.9	0.348	94.4
1974	87.8	0.652	113.4	0.348	96.7
1975	88.0	0.652	113.5	0.348	96.9
1976	90.1	0.652	111.4	0.348	97.5
1977	90.9	0.652	108.9	0.348	97.2
1978	89.4	0.652	107.0	0.348	95.5
1979	88.4	0.652	107.2	0.348	94.9
1980	88.7	0.652	108.2	0.348	95.5
1981	89.1	0.652	107.0	0.348	95.4
1982	89.7	0.652	104.7	0.348	95.0
1983	89.3	0.652	102.5	0.348	93.9
1984	89.8	0.652	101.6	0.348	93.9
1985	88.7	0.652	103.0	0.348	93.7
1986	86.9	0.652	102.4	0.348	92.3
1987	87.7	0.652	103.0	0.348	93.0
1988	85.9	0.652	102.9	0.348	91.8
1989	83.7	0.652	101.1	0.348	89.8
1990	83.7	0.652	99.1	0.348	89.1
1991	84.3	0.652	96.9	0.348	88.7
1992	85.2	0.652	94.8	0.348	88.5
1993	84.7	0.652	94.8	0.348	88.2
1994	85.0	0.652	95.5	0.348	88.6
1995	84.9	0.652	95.9	0.348	88.7
1996	83.1	0.652	94.7	0.348	87.1
1997	83.2	0.652	94.5	0.348	87.1
1998	82.9	0.652	94.6	0.348	87.0
1999	82.0	0.652	95.9	0.348	86.8
2000	80.9	0.652	96.5	0.348	86.4
2001	81.9	0.652	97.1	0.348	87.2
Average annual growth rates					
55-01	0.28		-0.45		-0.03
55-73	1.01		-0.48		0.36
73-81	0.42		-0.33		0.12
81-89	-0.78		-0.71		-0.75
89-01	-0.18		-0.33		-0.24
89-95	0.24		-0.88		-0.19
95-01	-0.61		0.21		-0.29

Source: Tables 3, 4, 6. The labour share is an average of total compensation divided by nominal GDP over the 1976-1997 period, both series taken from CANSIM II Table 383-0003, August 22, 2002.

The capital share is 1-labour share.

**Table 10: Canada TFP Level Relative to the United States
(using CPS hours)**

	Canada as % of the United States (US=100)				
	Relative Value Added per Capital				
	Relative Value Added per Hour	Labour Share	Capital Stock	Capital Share	TFP AB+CD
	A	B	C	D	
1976	90.8	0.652	111.4	0.348	98.0
1977	92.1	0.652	108.9	0.348	98.0
1978	91.7	0.652	107.0	0.348	97.1
1979	90.7	0.652	107.2	0.348	96.4
1980	91.0	0.652	108.2	0.348	97.0
1981	90.9	0.652	107.0	0.348	96.5
1982	92.4	0.652	104.7	0.348	96.7
1983	92.3	0.652	102.5	0.348	95.9
1984	93.8	0.652	101.6	0.348	96.5
1985	93.7	0.652	103.0	0.348	97.0
1986	92.5	0.652	102.4	0.348	95.9
1987	93.1	0.652	103.0	0.348	96.5
1988	92.6	0.652	102.9	0.348	96.2
1989	90.8	0.652	101.1	0.348	94.4
1990	90.7	0.652	99.1	0.348	93.6
1991	91.5	0.652	96.9	0.348	93.4
1992	91.4	0.652	94.8	0.348	92.6
1993	91.8	0.652	94.8	0.348	92.9
1994	91.6	0.652	95.5	0.348	93.0
1995	92.4	0.652	95.9	0.348	93.6
1996	90.6	0.652	94.7	0.348	92.0
1997	90.9	0.652	94.5	0.348	92.2
1998	90.2	0.652	94.6	0.348	91.7
1999	90.3	0.652	95.9	0.348	92.2
2000	89.3	0.652	96.5	0.348	91.8
2001	90.0	0.652	97.1	0.348	92.5
Average annual growth rates					
76-01	-0.04		-0.54		-0.23
76-81	0.02		-0.79		-0.30
81-89	-0.02		-0.71		-0.28
89-01	-0.07		-0.33		-0.17
89-95	0.30		-0.88		-0.13
95-01	-0.44		0.21		-0.21

Source: Tables 3, 4, 6. The labour share is an average of total compensation divided by nominal GDP over the 1976-1997 period, both series taken from CANSIM II Table 383-0003, August 22, 2002.

The capital share is 1-labour share.

Table 11: Contribution by Industry to the Canada-United States Labour Productivity Gap (GDP per Worker), 1999

Current Dollar Estimates

	Canada				United States				Canada/United States, %					
	GDP		Employ-		GDP		Employ-		Relative		Absolute	Relative	Relative	
	(millions of dollars)	1999 PPP	GDP US\$ (millions of dollars)	(thousands of workers)	GDP per Worker	(millions of US dollars)	(thousands of workers)	Industry Employment Shares	GDP per Worker	Labour Productivity	GDP per Worker Gap	Industry Employment Shares	Contribution to the Gap	
Agriculture, Forestry and Fisheries	22,473	0.85	19,102	522	36,621	127,719	3,457	0.026	36,945	99.1	0.9	0.036	0.03	0.1
Mining	34,181	0.85	29,054	156	185,883	104,147	1,263	0.009	82,460	225.4	-125.4	0.011	-1.35	-5.9
Construction	47,084	0.85	40,021	775	51,654	425,414	9,433	0.070	45,098	114.5	-14.5	0.053	-0.78	-3.4
Manufacturing	169,313	0.85	143,916	2,217	64,903	1,481,341	19,940	0.147	74,290	87.4	12.6	0.153	1.93	8.4
Transportation & Public Utilities	70,217	0.85	59,685	860	69,377	770,124	9,740	0.072	79,068	87.7	12.3	0.059	0.73	3.2
Wholesale Trade	48,547	0.85	41,265	536	76,973	645,341	5,421	0.040	119,045	64.7	35.3	0.037	1.30	5.7
Retail Trade	48,117	0.85	40,900	1,712	23,889	831,674	22,411	0.166	37,110	64.4	35.6	0.118	4.20	18.3
FIRE*	174,043	0.85	147,937	863	171,441	1,798,768	8,727	0.065	206,115	83.2	16.8	0.059	1.00	4.4
Services	242,069	0.85	205,759	6,111	33,669	1,977,224	48,801	0.361	40,516	83.1	16.9	0.421	7.11	31.0
Public Administration	51,536	0.85	43,805	774	56,581	1,151,330	6,015	0.044	191,410	29.6	70.4	0.053	3.75	16.4
All Industries	907,580	0.85	771,443	14,527	53,104	9,313,082	135,208	1.000	68,880	77.1	22.9	1.000	22.90	100

Constant Dollar Estimates (1997 dollars)

	Canada				United States				Canada/United States, %					
	Real GDP		Employ-		Real GDP		Employ-		Real GDP		Relative	Absolute	Relative	
	Real GDP (millions of 1997 dollars)	1997 PPP	\$US (millions of 1997 dollars)	Employment (thousands of workers)	Real GDP per Worker (1997 dollars)	Real GDP (millions of 1997 dollars)	Employment (thousands of workers)	Industry Employment Shares	Real GDP per Worker (1997 dollars)	Relative Labour Productivity	Real GDP per Worker Gap	Industry Employment Shares	Contribution to the Gap	
Agriculture, Forestry and Fisheries	23,112	0.84	19,414	522	37,221	139,893	3,457	0.026	40,467	92.0	8.0	0.036	0.29	1.2
Mining	34,316	0.84	28,826	156	184,424	116,593	1,263	0.009	92,314	199.8	-99.8	0.011	-1.07	-4.6
Construction	46,527	0.84	39,083	775	50,443	383,150	9,433	0.070	40,618	124.2	-24.2	0.053	-1.29	-5.6
Manufacturing	160,158	0.84	134,533	2,217	60,671	1,505,534	19,940	0.147	75,503	80.4	19.6	0.153	3.00	13.0
Transportation & Public Utilities	70,012	0.84	58,810	860	68,360	753,737	9,740	0.072	77,386	88.3	11.7	0.059	0.69	3.0
Wholesale Trade	50,696	0.84	42,584	536	79,434	687,598	5,421	0.040	126,840	62.6	37.4	0.037	1.38	6.0
Retail Trade	47,813	0.84	40,163	1,712	23,458	840,705	22,411	0.166	37,513	62.5	37.5	0.118	4.42	19.1
FIRE*	174,225	0.84	146,349	863	169,602	1,742,732	8,727	0.065	199,694	84.9	15.1	0.059	0.90	3.9
Services	236,039	0.84	198,273	6,111	32,444	1,832,638	48,801	0.361	37,553	86.4	13.6	0.421	5.72	24.7
Public Administration	51,083	0.84	42,910	774	55,425	1,091,067	6,015	0.044	181,391	30.6	69.4	0.053	3.70	16.0
All Industries	893,982	0.84	750,945	14,527	51,693	9,093,645	135,208	1.000	67,257	76.9	23.1	1.000	23.14	100

Sources: Canada: Unpublished Employment data provided by Statistics Canada Division of Labour Statistics and unpublished Real GDP data provided by Statistics Canada Division of Industry Measure and Analysis. United States: CPS employment data from BLS website, www.bls.gov, January 31, 2003 and GDP data from BEA website, www.bea.gov, January 17, 2003.
Note: Industries are classified under SIC in the United States and under NAICS in Canada. We assume that the US Transportation and Utilities industry under SIC is equivalent to an aggregate of the following Canadian NAICS industries: Utilities; Transportation and Warehousing. We also assume that the US Service industry is equivalent to an aggregate of the following Canadian industries: Information and Cultural Industries; Professional and Scientific Services; Administrative and support, waste management; Educational Services; Health care and social assistance;

*FIRE=Finance, Insurance and Real Estate

Table 12: TFP Levels in Canada Relative to the United States (US=100)

Industry	1961	1973	1988	1995
1. Agric., for. & fisheries	0.84	0.93	0.85	0.83
2. Metal mining	1.32	1.6	1.32	0.9
3. Coal mining	0.61	0.91	1.35	1.16
4. Crude pet. & gas	0.83	1.03	0.63	0.71
5. Non-met. mining	0.85	0.9	0.97	0.96
6. Construction	0.9	0.94	1.1	1.18
7. Food	1.1	1.1	0.98	0.96
8. Tobacco	1.61	1.48	2.03	2.06
9. Textile	0.98	1.08	1.01	0.98
10. Apparel	0.98	1.01	0.96	0.99
11. Lumber & wood	0.79	0.88	0.9	1.01
12. Furniture	0.92	1.07	0.92	0.96
13. Paper	0.87	0.79	0.8	0.83
14. Printing	0.75	0.74	0.91	0.88
15. Chemicals	0.78	0.76	0.89	0.93
16. Petroleum refining	1.37	1.28	1.07	1.15
17. Rubber & plastics	0.77	0.81	0.86	0.85
18. Leather	0.75	0.85	0.9	0.83
19. Stone, clay & glass	0.82	0.94	0.96	0.87
20. Primary metals	0.86	0.89	0.97	0.96
21. Fabricated metals	0.81	0.84	0.85	0.84
22. Non-elec. machinery	1.02	1.15	0.94	0.88
23. Electrical machinery	1.27	1.35	1.14	0.98
24. Motor vehicles	0.73	0.93	1.04	1.07
25. Other trans. equip.	0.88	0.88	0.83	0.98
26. Misc. manufacturing	0.91	0.89	0.87	0.92
27. Trans. & warehouse	0.82	0.9	0.92	0.87
28. Communications	0.42	0.65	0.93	0.99
29. Electric utilities	1.43	1.46	1.59	1.24
30. Gas utilities	0.8	1.24	1.38	1.15
31. Trade	0.84	0.94	1.07	1.02
32. Finance, ins., real estate	1.28	1.15	0.96	1.09
33. Other services	0.94	0.91	0.92	0.93

Source: Lee, Frank C. and Jianmin Tang."Productivity Levels and International Competitiveness Between Canada and the United States" in Someshwar Rao and Andrew Sharpe ed. *Productivity Issues in Canada*. Calgary, University of Calgary Press, 2002, pp 102.

Table 13: Relative Capital Labour Ratio for All Components based on Employment in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), All Components		Employment (thousands)		Capital Labour Ratio		
	Canada	United States	Canada	United States	Canada	United States	Canada/ US,
1955	263,423	4,062,976	5,533	62,170	47,606	65,353	72.85
1956	281,204	4,201,836	5,761	63,799	48,809	65,861	74.11
1957	301,459	4,338,025	5,912	64,071	50,992	67,707	75.31
1958	317,809	4,447,510	5,886	63,036	53,993	70,555	76.53
1959	333,060	4,582,364	6,055	64,630	55,003	70,902	77.58
1960	348,045	4,719,889	6,153	65,778	56,562	71,755	78.83
1961	362,511	4,861,418	6,246	65,746	58,037	73,942	78.49
1962	377,479	5,022,976	6,422	66,702	58,783	75,305	78.06
1963	393,196	5,188,539	6,576	67,762	59,790	76,570	78.09
1964	412,300	5,379,471	6,818	69,305	60,475	77,620	77.91
1965	434,935	5,611,794	7,079	71,088	61,443	78,942	77.83
1966	461,872	5,878,831	7,471	72,895	61,825	80,648	76.66
1967	486,571	6,131,182	7,686	74,372	63,304	82,439	76.79
1968	508,691	6,379,527	7,833	75,920	64,944	84,030	77.29
1969	530,374	6,627,872	8,079	77,902	65,646	85,080	77.16
1970	552,920	6,842,837	8,169	78,678	67,685	86,973	77.82
1971	575,975	7,028,428	8,360	79,367	68,898	88,556	77.80
1972	598,415	7,243,393	8,607	82,153	69,523	88,170	78.85
1973	623,427	7,490,403	9,038	85,064	68,981	88,056	78.34
1974	650,191	7,725,396	9,413	86,794	69,073	89,008	77.60
1975	678,925	7,902,976	9,577	85,846	70,890	92,060	77.00
1976	705,263	8,083,226	9,776	88,752	72,141	91,077	79.21
1977	731,252	8,292,851	9,915	92,017	73,754	90,123	81.84
1978	756,781	8,559,888	10,212	96,048	74,106	89,121	83.15
1979	787,042	8,860,306	10,658	98,824	73,847	89,657	82.37
1980	822,758	9,135,354	10,970	99,303	75,000	91,995	81.53
1981	866,009	9,411,738	11,297	100,397	76,660	93,745	81.77
1982	897,928	9,629,374	10,947	99,526	82,025	96,752	84.78
1983	921,793	9,829,652	11,027	100,834	83,594	97,484	85.75
1984	945,063	10,124,728	11,300	105,005	83,634	96,421	86.74
1985	971,105	10,454,520	11,617	107,150	83,591	97,569	85.67
1986	994,804	10,742,920	11,979	109,597	83,046	98,022	84.72
1987	1,021,087	11,008,623	12,321	112,440	82,876	97,907	84.65
1988	1,054,685	11,273,137	12,710	114,968	82,979	98,055	84.63
1989	1,089,904	11,544,727	12,986	117,342	83,927	98,385	85.30
1990	1,121,428	11,817,385	13,084	118,793	85,710	99,479	86.16
1991	1,147,859	12,031,026	12,851	117,718	89,323	102,202	87.40
1992	1,168,176	12,230,913	12,760	118,492	91,550	103,221	88.69
1993	1,186,050	12,458,841	12,858	120,259	92,246	103,600	89.04
1994	1,209,845	12,706,663	13,112	123,060	92,272	103,256	89.36
1995	1,234,225	13,003,890	13,357	124,900	92,404	104,114	88.75
1996	1,259,414	13,352,525	13,463	126,708	93,549	105,380	88.77
1997	1,296,959	13,745,890	13,774	129,558	94,157	106,098	88.75
1998	1,334,730	14,192,933	14,140	131,463	94,391	107,961	87.43
1999	1,377,144	14,660,194	14,531	133,488	94,772	109,824	86.29
2000	1,425,418	15,160,673	14,910	135,208	95,603	112,129	85.26
2001	1,469,135	15,533,103	15,077	135,073	97,443	114,998	84.73

Average annual growth rates

55-01	3.81	2.96	2.20	1.70	1.57	1.24	0.33
55-73	4.90	3.46	2.76	1.76	2.08	1.67	0.40
73-81	4.19	2.90	2.83	2.09	1.33	0.79	0.54
81-89	2.92	2.59	1.76	1.97	1.14	0.61	0.53
89-01	2.52	2.50	1.25	1.18	1.25	1.31	-0.06
89-95	2.09	2.00	0.47	1.05	1.62	0.95	0.66
95-01	2.95	3.01	2.04	1.31	0.89	1.67	-0.77

Sources: Tables 3, 4, 6

Table 14: Relative Capital Labour Ratio for All Components based on Hours in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), All Components			Hours (millions) United			Capital Labour Ratio (using hours)				
	Canada	United States	Canada	States (CES)	United States		United States (CES)	United States (CPS)	Canada/ US (CES), %	Canada/ US (CPS), %	
					(CPS)	Canada					
1955	263,423	4,062,976	13,824	128,020	n/a	19.05	31.74	n/a	60.04	n/a	
1956	281,204	4,201,836	14,316	130,380	n/a	19.64	32.23	n/a	60.95	n/a	
1957	301,459	4,338,025	14,383	129,270	n/a	20.96	33.56	n/a	62.46	n/a	
1958	317,809	4,447,510	13,847	126,198	n/a	22.95	35.24	n/a	65.13	n/a	
1959	333,060	4,582,364	14,048	131,070	n/a	23.71	34.96	n/a	67.82	n/a	
1960	348,045	4,719,889	13,891	132,030	n/a	25.05	35.75	n/a	70.09	n/a	
1961	362,511	4,861,418	13,780	131,965	n/a	26.31	36.84	n/a	71.41	n/a	
1962	377,479	5,022,976	14,159	134,231	n/a	26.66	37.42	n/a	71.24	n/a	
1963	393,196	5,188,539	14,360	136,717	n/a	27.38	37.95	n/a	72.15	n/a	
1964	412,300	5,379,471	14,785	139,469	n/a	27.89	38.57	n/a	72.30	n/a	
1965	434,935	5,611,794	15,254	143,427	n/a	28.51	39.13	n/a	72.87	n/a	
1966	461,872	5,878,831	15,968	146,315	n/a	28.92	40.18	n/a	71.99	n/a	
1967	486,571	6,131,182	16,169	146,959	n/a	30.09	41.72	n/a	72.13	n/a	
1968	508,691	6,379,527	16,035	149,228	n/a	31.72	42.75	n/a	74.21	n/a	
1969	530,374	6,627,872	16,281	152,719	n/a	32.58	43.40	n/a	75.06	n/a	
1970	552,920	6,842,837	16,080	151,786	n/a	34.39	45.08	n/a	76.27	n/a	
1971	575,975	7,028,428	16,281	152,289	n/a	35.38	46.15	n/a	76.65	n/a	
1972	598,415	7,243,393	16,549	158,062	n/a	36.16	45.83	n/a	78.91	n/a	
1973	623,427	7,490,403	17,331	163,221	n/a	35.97	45.89	n/a	78.39	n/a	
1974	650,191	7,725,396	17,911	164,735	n/a	36.30	46.90	n/a	77.41	n/a	
1975	678,925	7,902,976	17,844	161,150	n/a	38.05	49.04	n/a	77.58	n/a	
1976	705,263	8,083,226	17,956	166,605	167,804	39.28	48.52	48.17	80.95	81.54	
1977	731,252	8,292,851	18,204	172,256	174,516	40.17	48.14	47.52	83.44	84.53	
1978	756,781	8,559,888	18,933	178,803	183,485	39.97	47.87	46.65	83.49	85.68	
1979	787,042	8,860,306	19,766	183,457	188,276	39.82	48.30	47.06	82.44	84.61	
1980	822,758	9,135,354	20,028	182,281	187,031	41.08	50.12	48.84	81.97	84.10	
1981	866,009	9,411,738	20,312	183,767	187,437	42.63	51.22	50.21	83.24	84.91	
1982	897,928	9,629,374	19,602	180,102	185,378	45.81	53.47	51.94	85.68	88.19	
1983	921,793	9,829,652	19,769	183,518	189,740	46.63	53.56	51.81	87.06	90.01	
1984	945,063	10,124,728	20,291	192,201	200,612	46.58	52.68	50.47	88.42	92.28	
1985	971,105	10,454,520	20,992	194,456	205,560	46.26	53.76	50.86	86.04	90.96	
1986	994,804	10,742,920	21,633	198,327	211,162	45.99	54.17	50.88	84.89	90.39	
1987	1,021,087	11,008,623	22,178	203,471	216,043	46.04	54.10	50.96	85.09	90.35	
1988	1,054,685	11,273,137	23,264	207,448	223,600	45.33	54.34	50.42	83.43	89.92	
1989	1,089,904	11,544,727	24,084	211,122	228,925	45.26	54.68	50.43	82.76	89.74	
1990	1,121,428	11,817,385	23,923	213,115	230,762	46.88	55.45	51.21	84.54	91.54	
1991	1,147,859	12,031,026	23,037	209,962	227,899	49.83	57.30	52.79	86.96	94.39	
1992	1,168,176	12,230,913	22,514	211,958	227,373	51.89	57.70	53.79	89.92	96.46	
1993	1,186,050	12,458,841	22,996	215,745	234,010	51.58	57.75	53.24	89.31	96.88	
1994	1,209,845	12,706,663	23,747	222,049	239,392	50.95	57.22	53.08	89.03	95.99	
1995	1,234,225	13,003,890	24,020	224,071	243,838	51.38	58.03	53.33	88.54	96.35	
1996	1,259,414	13,352,525	24,374	226,655	247,153	51.67	58.91	54.03	87.71	95.64	
1997	1,296,959	13,745,890	24,964	233,101	254,702	51.95	58.97	53.97	88.10	96.27	
1998	1,334,730	14,192,933	25,390	236,528	257,242	52.57	60.01	55.17	87.61	95.28	
1999	1,377,144	14,660,194	26,312	239,477	263,744	52.34	61.22	55.58	85.50	94.16	
2000	1,425,418	15,160,673	27,193	242,563	267,530	52.42	62.50	56.67	83.87	92.50	
2001	1,469,135	15,533,103	26,958	240,214	264,007	54.50	64.66	58.84	84.28	92.63	
Average annual growth rates											
55-01	3.81	2.96	1.46	1.38	n/a	2.31	1.56	n/a	0.74	n/a	
55-73	4.90	3.46	1.26	1.36	n/a	3.59	2.07	n/a	1.49	n/a	
73-81	4.19	2.90	2.00	1.49	n/a	2.15	1.38	n/a	0.75	n/a	
81-89	2.92	2.59	2.15	1.75	2.53	0.75	0.82	0.05	-0.07	0.69	
89-91	2.52	2.50	0.94	1.08	1.20	1.56	1.41	1.29	0.15	0.26	
89-95	2.09	2.00	-0.04	1.00	1.06	2.14	1.00	0.94	1.13	1.19	
95-01	2.95	3.01	1.94	1.17	1.33	0.99	1.82	1.65	-0.82	-0.65	

Sources: Tables 3, 4, 6

Table 15: Research and Development Expenditure as a Share of GDP in Canada and the United States

	United States			Canada		
	R&D Expenditure (in millions of current dollars)	Nominal GDP (in millions of current dollars)	R&D Expenditure as a Share of GDP	R&D Expenditure (in millions of current dollars)	Nominal GDP (in millions of current dollars)	R&D Expenditure as a Share of GDP
1953	\$5,160	\$379,900	1.36	n/a	\$26,830	n/a
1954	5,621	381,100	1.47	n/a	27,071	n/a
1955	6,281	415,200	1.51	n/a	29,820	n/a
1956	8,500	438,000	1.94	n/a	33,343	n/a
1957	9,908	461,500	2.15	n/a	34,995	n/a
1958	10,915	467,900	2.33	n/a	36,179	n/a
1959	12,490	507,400	2.46	n/a	38,193	n/a
1960	13,711	527,400	2.60	n/a	39,781	n/a
1961	14,564	545,700	2.67	n/a	41,173	n/a
1962	15,636	586,500	2.67	n/a	44,665	n/a
1963	17,519	618,700	2.83	458	47,961	0.95
1964	19,103	664,400	2.88	555	52,549	1.06
1965	20,252	720,100	2.81	662	57,930	1.14
1966	22,072	789,300	2.80	750	64,818	1.16
1967	23,346	834,100	2.80	853	69,698	1.22
1968	24,666	911,500	2.71	910	76,131	1.20
1969	25,996	985,300	2.64	986	83,825	1.18
1970	26,271	1,039,700	2.53	1,069	90,179	1.19
1971	26,952	1,128,600	2.39	1,124	98,429	1.14
1972	28,740	1,240,400	2.32	1,210	109,913	1.10
1973	30,952	1,385,500	2.23	1,304	128,956	1.01
1974	33,359	1,501,000	2.22	1,497	154,038	0.97
1975	35,671	1,635,200	2.18	1,676	173,621	0.97
1976	39,435	1,823,900	2.16	1,822	199,994	0.91
1977	43,421	2,031,400	2.14	2,040	220,973	0.92
1978	48,774	2,295,900	2.12	2,319	244,877	0.95
1979	55,457	2,566,400	2.16	2,728	279,577	0.98
1980	63,273	2,795,600	2.26	3,216	314,390	1.02
1981	72,267	3,131,300	2.31	4,020	360,471	1.12
1982	80,848	3,259,200	2.48	4,728	379,859	1.24
1983	90,075	3,534,900	2.55	5,023	411,386	1.22
1984	102,344	3,932,700	2.60	5,756	449,582	1.28
1985	114,778	4,213,000	2.72	6,433	485,714	1.32
1986	120,337	4,452,900	2.70	6,964	512,541	1.36
1987	126,299	4,742,500	2.66	7,338	558,949	1.31
1988	133,930	5,108,300	2.62	8,359	613,094	1.36
1989	141,914	5,489,100	2.59	8,802	657,728	1.34
1990	152,051	5,803,200	2.62	9,514	679,921	1.40
1991	160,914	5,986,200	2.69	9,977	685,367	1.46
1992	165,358	6,318,900	2.62	10,585	700,480	1.51
1993	165,714	6,642,300	2.49	11,391	727,184	1.57
1994	169,214	7,054,300	2.40	12,560	770,873	1.63
1995	183,611	7,400,500	2.48	13,021	810,426	1.61
1996	197,330	7,813,200	2.53	13,126	836,864	1.57
1997	212,379	8,318,400	2.55	13,996	882,733	1.59
1998	226,872	8,781,500	2.58	15,131	914,973	1.65
1999	244,143	9,274,300	2.63	16,080	980,524	1.64
2000	264,622	9,824,600	2.69	17,804	1,064,995	1.67
2001	n/a	10,082,200	n/a	19,363	1,092,246	1.77

Source: United States: R&D data: National Science Foundation. *National Patterns of Research and Development Resources, 2000 Data update (NSF 01-309)*, Table D. Available online at www.nsf.gov/sbe/srs/nprdr/start.htm, January 23, 2002.

Nominal GDP data: NIPA Tables, www.bea.gov, January 17, 2003.

Canada: CANSIM II Table 358-0001 for R&D data and 379-0024 for Nominal GDP, January 21, 2003.

Table 16: Investment in Non-Residential Fixed Assets for Total Economy as a Share of Nominal GDP, Canada and the United States, 1955-2002

	All Components		Machinery and Equipment		Structures	
	Canada	United States	Canada	United States	Canada	United States
1955	16.34	13.95	6.56	7.45	9.78	6.50
1956	19.44	14.86	7.83	7.74	11.62	7.12
1957	20.78	15.06	7.93	7.89	12.85	7.18
1958	18.18	14.10	6.63	7.05	11.55	7.04
1959	17.46	14.33	6.71	7.65	10.76	6.68
1960	17.09	14.15	6.65	7.48	10.45	6.67
1961	16.46	14.08	6.11	7.38	10.34	6.70
1962	16.07	14.12	6.20	7.63	9.86	6.49
1963	16.04	13.93	6.40	7.44	9.64	6.49
1964	16.95	14.21	7.10	7.63	9.85	6.58
1965	18.32	14.82	7.76	7.89	10.56	6.93
1966	19.71	15.30	8.47	8.38	11.23	6.92
1967	18.55	15.02	7.99	8.29	10.56	6.73
1968	16.64	14.69	6.92	8.09	9.72	6.59
1969	16.18	14.63	6.90	8.11	9.28	6.53
1970	16.29	14.22	6.79	7.81	9.50	6.41
1971	16.43	13.45	6.66	7.18	9.77	6.27
1972	15.80	13.69	6.69	7.57	9.11	6.12
1973	15.93	14.25	7.10	8.03	8.83	6.22
1974	16.79	14.78	7.53	8.29	9.26	6.48
1975	17.89	14.22	7.81	7.99	10.08	6.23
1976	16.34	13.79	7.38	8.01	8.96	5.78
1977	16.04	14.18	7.07	8.62	8.97	5.56
1978	15.93	15.08	7.17	9.17	8.76	5.90
1979	16.75	15.97	7.68	9.58	9.07	6.38
1980	17.64	16.04	7.86	9.26	9.78	6.77
1981	18.95	16.32	8.83	9.29	10.12	7.03
1982	17.43	15.96	7.74	8.94	9.69	7.02
1983	15.27	14.78	6.99	8.92	8.28	5.86
1984	14.71	15.53	6.91	9.44	7.79	6.09
1985	15.09	15.92	7.10	9.53	7.99	6.39
1986	14.79	15.24	7.54	9.46	7.25	5.79
1987	14.80	14.63	7.70	9.06	7.11	5.58
1988	15.49	14.36	8.14	9.01	7.35	5.36
1989	15.68	14.33	8.22	9.10	7.46	5.23
1990	15.32	14.22	7.71	8.87	7.61	5.35
1991	14.41	13.63	7.17	8.76	7.24	4.86
1992	13.16	13.10	6.95	8.70	6.21	4.40
1993	12.71	13.29	6.71	8.91	6.00	4.38
1994	13.45	13.46	7.07	9.20	6.38	4.26
1995	13.34	14.09	7.20	9.59	6.14	4.50
1996	13.35	14.53	7.29	9.81	6.06	4.72
1997	15.01	14.87	8.48	9.97	6.53	4.89
1998	15.35	15.30	8.94	10.32	6.40	4.97
1999	15.35	15.65	9.08	10.66	6.27	4.99
2000	15.34	15.87	9.13	10.77	6.21	5.10
2001	15.25	14.93	8.87	9.81	6.39	5.12
2002	14.33	n/a	8.53	n/a	5.80	n/a
Period averages						
1955-02	16.18	14.62	7.44	8.63	8.74	5.98
1955-73	17.30	14.36	7.02	7.72	10.28	6.64
1974-81	17.04	15.05	7.67	8.78	9.38	6.27
1982-89	15.41	15.09	7.54	9.18	7.86	5.91
1990-01	14.34	14.41	7.88	9.62	6.45	4.80

Sources: Canada: Current prices investment :CANSIM II series v1070246, v1070247, v1070248, v1070249. April 09, 2003. Nominal GDP: Table 3.

United States: Current price investment: BEA website, www.bea.gov, FAT Table 1.5, April 09, 2003.

Nominal GDP: Table 4.

Note: Structure in Canada is the sum of Building construction and Engineering Construction Investment.

Table 17: Levels of Economic Well-Being in Canada and the United States, 1999

	Canada	US
Total Consumption Flows per capita (1996 US\$)	16,525	23,896
US=100 (A)	69.15	100.00
Total Real per capita Wealth (1996 US\$)	113,157	122,911
US=100 (B)	92.06	100.00
Equality		
Gini Coefficient	0.4030	0.4570
US=100 (C)	88.18	100.00
Poverty Intensity*	0.0397	0.0873
US=100 (D)	45.50	100.00
(E) = (C)*0.25 + (D)*0.75	56.17	100.00
(F) = 200 - (E)	143.83	100.00
Economic Security		
Risk Imposed by Unemployment		
Employment Rate	60.60	64.30
US=100 (G)	94.25	100.00
% of Unemployed Receiving Benefits	43.10	37.79
US=100 (H)	114.06	100.00
Weekly Benefits as % of Weekly Earnings	42.77	46.36
US=100 (I)	92.27	100.00
(J) = (G)*(H)*(I)/10000	99.18	100.00
Risk Imposed by Illness		
Priv. Med. Care as % of Per. Dis. Income	4.42	13.93
US=100 (K)	31.73	100.00
(L) = 200 - (K)	168.27	100.00
Risk Imposed by Single Parent Poverty		
Poverty Intensity for single women with children*	0.13	0.18
US=100 (M)	74.68	100.00
Divorce Rate	0.95	2.05
US=100 (N)	46.37	100.00
(O) = (M)*(N)/100	34.63	100.00
(P) = 200 - (O)	165.37	100.00
Risk of Poverty Imposed by Old Age		
Elderly Poverty Intensity*	0.0086	0.0670
US=100 (Q)	12.80	100.00
(R) = 200 - (Q)	187.20	100.00
Components		
(1): Consumption Flows = (A)	69.15	100.00
(2): Wealth Stocks = (B)	92.06	100.00
(3): Equality Component = (F)	143.83	100.00
(4): Security Component**	150.19	100.00
Overall Well-Being Index		
Equal Weighting	113.81	100.00
Original Weighting	110.37	100.00
= (1)*0.4 + (2)*0.1 + (3)*0.25 + (4)*0.25		
Alternative Weighting	87.02	100.00
= (1)*0.7 + (2)*0.1 + (3)*0.1 + (4)*0.1		

* Poverty intensity measures are for 1997

** weighted average of (J), (L), (P), and (R), according to the weights in 1999 for each country, as discussed in the respective indexes.

Note: In order to facilitate comparison with the United States, the Gini coefficient for Canada is based on total money income, and is for 1997, the most recent year for which an estimate is available. Canadian Dollars for consumption and wealth data have been converted to US Dollars using the Statistics Canada GDP PPP exchange rate for 1996 of 0.83 Canadian Dollars per US Dollar.

Source: Centre for the Study of Living Standards

**Appendix Table 1: Real Per Capita GDP and its Determinants in United States,
1946-2002**

	GDP per Hour (1997 chained dollars)	Average Weekly Hours	Average Annual Hours	Working age Population to Total Population, %	Force Participation Rate, %	1-Unemployment Rate, %	GDP per Capita (1997 chained dollars)
	A	B	C=B*52	D	E	F	G=A*C*(D/100)* (E/100)*(F/100)
1946	13.26	40.3	2,096	72.91	57.58	93.09	10,856
1947	12.75	40.3	2,096	71.52	57.58	96.10	10,576
1948	13.11	40.0	2,080	70.30	58.84	96.20	10,846
1949	13.39	39.4	2,049	69.75	58.87	94.10	10,598
1950	14.10	39.8	2,070	69.24	59.24	94.70	11,336
1951	14.87	39.9	2,075	67.82	59.26	96.70	11,994
1952	15.39	39.9	2,075	66.99	59.07	97.00	12,259
1953	15.97	39.6	2,059	67.15	58.81	97.10	12,612
1954	16.35	39.1	2,033	66.69	58.73	94.50	12,308
1955	16.72	39.6	2,059	66.34	59.31	95.60	12,951
1956	16.74	39.3	2,044	65.96	59.96	95.90	12,976
1957	17.22	38.8	2,018	65.51	59.67	95.70	13,000
1958	17.47	38.5	2,002	65.34	59.44	93.20	12,662
1959	18.04	39.0	2,028	65.16	59.26	94.50	13,347
1960	18.35	38.6	2,007	64.87	59.37	94.50	13,405
1961	18.79	38.6	2,007	64.59	59.38	93.30	13,494
1962	19.59	38.7	2,012	64.41	58.73	94.50	14,091
1963	20.06	38.8	2,018	64.61	58.75	94.30	14,490
1964	20.81	38.7	2,012	64.83	58.76	94.80	15,120
1965	21.53	38.8	2,018	65.09	58.85	95.50	15,887
1966	22.49	38.6	2,007	65.16	59.15	96.20	16,737
1967	22.95	38.0	1,976	65.30	59.56	96.20	16,970
1968	23.68	37.8	1,966	65.77	59.65	96.40	17,603
1969	23.84	37.7	1,960	66.25	60.10	96.50	17,960
1970	24.03	37.1	1,929	66.83	60.36	95.10	17,786
1971	24.75	36.9	1,919	67.52	60.15	94.10	18,151
1972	25.14	37.0	1,924	68.66	60.38	94.40	18,933
1973	25.76	36.9	1,919	69.44	60.78	95.10	19,835
1974	25.37	36.5	1,898	70.20	61.23	94.40	19,537
1975	25.84	36.1	1,877	70.85	61.31	91.50	19,280
1976	26.38	36.1	1,877	71.65	61.54	92.30	20,156
1977	26.70	36.0	1,872	72.14	62.33	92.90	20,881
1978	27.14	35.8	1,862	72.75	63.15	93.90	21,801
1979	27.30	35.7	1,856	73.29	63.59	94.20	22,247
1980	27.41	35.3	1,836	73.66	63.72	92.90	21,941

Appendix Table 1: Real Per Capita GDP and its Determinants in United States, 1946-2002 (cont.)

	GDP per Hour (1997 chained dollars)	Average Weekly Hours	Average Annual Hours	Working age Population to Total Population, %	Force Participation Rate, %	1-Unemployment Rate, %	GDP per Capita (1997 chained dollars) G=A*C*(D/100)* (E/100)*(F/100)
	A	B	C=B*52	D	E	F	
1981	27.86	35.2	1,830	73.98	63.85	92.40	22,255
1982	27.85	34.8	1,810	74.15	64.01	90.30	21,597
1983	28.51	35.0	1,820	74.32	64.05	90.40	22,329
1984	29.20	35.2	1,830	74.65	64.32	92.50	23,742
1985	29.97	34.9	1,815	74.75	64.76	92.80	24,438
1986	30.39	34.8	1,810	75.02	65.27	93.00	25,044
1987	30.63	34.8	1,810	75.29	65.57	93.80	25,665
1988	31.30	34.7	1,804	75.30	65.93	94.50	26,494
1989	31.83	34.6	1,799	75.29	66.53	94.70	27,165
1990	32.09	34.5	1,794	75.67	66.53	94.40	27,357
1991	32.42	34.3	1,784	75.34	66.20	93.20	26,877
1992	33.09	34.4	1,789	75.08	66.49	92.50	27,331
1993	33.37	34.5	1,794	74.96	66.27	93.10	27,692
1994	33.74	34.7	1,804	74.81	66.56	93.90	28,462
1995	34.32	34.5	1,794	74.56	66.63	94.40	28,878
1996	35.14	34.4	1,789	74.41	66.81	94.60	29,563
1997	35.69	34.6	1,799	74.47	67.09	95.10	30,506
1998	36.68	34.6	1,799	74.34	67.12	95.50	31,443
1999	37.71	34.5	1,794	74.39	67.12	95.80	32,365
2000	38.63	34.5	1,794	74.30	67.19	96.00	33,214
2001	39.11	34.2	1,778	74.33	67.02	95.20	32,983
2002	40.41	34.1	1,773	74.50	66.56	94.20	33,466
Average Annual Growth Rates							
1946-2002	2.01	-0.30	-0.30	0.04	0.26	0.02	2.03
1946-1973	2.49	-0.33	-0.33	-0.18	0.20	0.08	2.26
1973-2002	1.57	-0.27	-0.27	0.24	0.31	-0.03	1.82
1973-1981	0.98	-0.59	-0.59	0.80	0.62	-0.36	1.45
1981-1989	1.68	-0.21	-0.21	0.22	0.51	0.31	2.52
1989-2002	1.85	-0.11	-0.11	-0.08	0.00	-0.04	1.62
1989-1995	1.26	-0.05	-0.05	-0.16	0.03	-0.05	1.02
1995-2002	2.36	-0.17	-0.17	-0.01	-0.02	-0.03	2.13

Sources:

Employment, Labour Force, Working Age Population, Unemployment: Economic Report of the President 2002-2003, Table B-35.

Real GDP: BEA NIPA tables, April 6, 2003

Nominal GDP from the BEA NIPA tables, April 6, 2003. GDP deflator is real/nominal GDP * 100.

Population: BEA NIPA Table 8.7, www.bea.gov, April 6, 2003.

Hours: Economic Report of the President 2002, 2003, Table B-42 and 1988. 1946 value assumed equal to 1947 value.

Appendix Table 2: Relative Real Per Capita GDP and its Determinants, Canada/United States, 1946-2002

	GDP per Hour (1997 chained dollars)	Average Weekly Hours	Average Annual Hours	Working age Population to Total Population, %	Force Participation Rate, %	1-Unemployment Rate, %	GDP per Capita (1997 chained dollars)
	A	B	C=B*52	D	E	F	G=A*C*(D/100)* (E/100)*(F/100)
1946	60.94	131.96	131.96	98.48	96.17	103.85	79.14
1947	64.61	129.99	129.99	100.87	95.93	101.77	82.77
1948	64.00	131.95	131.95	101.94	93.37	101.61	81.74
1949	64.91	133.78	133.78	99.33	93.27	103.35	83.17
1950	67.69	127.82	127.82	101.81	91.25	101.84	81.89
1951	66.15	126.72	126.72	102.97	91.18	100.95	79.50
1952	68.57	125.36	125.36	103.32	91.13	100.13	81.10
1953	68.75	125.12	125.12	102.50	90.90	99.94	80.15
1954	67.46	125.11	125.11	102.46	90.62	101.07	79.23
1955	71.90	121.33	121.33	102.29	89.86	100.10	80.27
1956	74.76	121.59	121.59	102.43	89.83	100.77	84.33
1957	74.38	120.58	120.58	102.75	91.14	99.72	83.80
1958	77.60	117.50	117.50	102.58	91.27	99.84	85.26
1959	76.68	114.39	114.39	102.41	91.38	99.60	81.77
1960	78.40	112.47	112.47	102.60	91.89	98.56	81.94
1961	79.56	109.91	109.91	102.86	91.73	99.62	82.20
1962	79.47	109.57	109.57	103.14	92.34	99.66	82.66
1963	80.56	108.23	108.23	103.03	92.24	100.25	83.10
1964	80.33	107.76	107.76	103.02	92.68	100.62	83.20
1965	80.05	106.80	106.80	103.22	93.05	100.66	82.72
1966	78.06	106.49	106.49	100.84	97.48	100.51	82.18
1967	77.74	106.46	106.46	101.56	97.39	100.03	81.93
1968	79.69	104.15	104.15	101.93	97.21	99.13	81.55
1969	81.87	102.79	102.79	102.32	96.91	99.11	82.75
1970	84.73	102.03	102.03	102.61	96.38	99.27	84.89
1971	84.59	101.50	101.50	102.67	97.22	99.78	85.52
1972	86.39	99.93	99.93	101.90	97.68	99.44	85.46
1973	86.15	99.94	99.94	101.75	98.96	99.39	86.18
1974	87.75	100.25	100.25	101.80	99.53	100.36	89.48
1975	88.05	99.26	99.26	101.91	100.33	101.83	90.99
1976	90.15	97.84	97.84	101.75	99.94	100.74	90.36
1977	90.90	98.08	98.08	101.86	99.15	99.05	89.19
1978	89.38	99.59	99.59	101.98	99.20	97.64	87.92
1979	88.37	99.90	99.90	102.15	99.99	98.20	88.56
1980	88.73	99.46	99.46	102.35	100.69	99.56	90.56

**Appendix Table 2: Relative Real Per Capita GDP and its Determinants,
Canada/United States, 1946-2002 (cont.)**

	GDP per Hour (1997 chained dollars)	Average Weekly Hours	Average Annual Hours	Working age Population to Total Population, %	Force Participation Rate, %	1-Unemployment Rate, %	GDP per Capita (1997 chained dollars)
	A	B	C=B*52	D	E	F	G=A*C*(D/100)* (E/100)*(F/100)
1981	89.11	98.23	98.23	102.46	101.74	100.03	91.28
1982	89.73	98.95	98.95	102.57	100.56	98.59	90.29
1983	89.26	98.50	98.50	102.67	101.02	97.41	88.82
1984	89.84	98.10	98.10	102.51	101.06	95.89	87.56
1985	88.65	99.57	99.57	102.72	101.18	96.28	88.33
1986	86.89	99.80	99.80	102.62	101.09	97.16	87.40
1987	87.67	99.48	99.48	102.19	101.27	97.21	87.74
1988	85.87	101.44	101.44	102.15	101.38	97.62	88.06
1989	83.70	103.07	103.07	101.74	101.02	97.63	86.56
1990	83.74	101.92	101.92	101.22	100.89	97.33	84.83
1991	84.28	100.51	100.51	102.00	100.49	96.22	83.54
1992	85.22	98.64	98.64	102.64	98.79	96.05	81.86
1993	84.66	99.69	99.69	103.08	98.68	95.21	81.75
1994	85.01	100.37	100.37	103.31	97.93	95.47	82.40
1995	84.92	100.24	100.24	103.84	97.41	95.93	82.59
1996	83.05	101.21	101.21	104.32	96.84	95.51	81.11
1997	83.23	100.73	100.73	104.60	96.69	95.59	81.06
1998	82.89	99.80	99.80	105.27	97.04	96.04	81.16
1999	81.98	100.93	100.93	105.61	97.72	96.48	82.39
2000	80.95	101.66	101.66	106.15	98.06	97.07	83.15
2001	81.87	100.54	100.54	106.46	98.47	97.48	84.12
2002	80.82	99.97	99.97	106.59	100.52	98.03	84.87
Average Annual Growth Rates							
1946-2002	0.51	-0.49	-0.49	0.14	0.08	-0.10	0.12
1946-1973	1.29	-1.02	-1.02	0.12	0.11	-0.16	0.32
1973-2002	-0.22	0.00	0.00	0.16	0.05	-0.05	-0.05
1973-1981	0.42	-0.21	-0.21	0.09	0.35	0.08	0.72
1981-1989	-0.78	0.60	0.60	-0.09	-0.09	-0.30	-0.66
1989-2002	-0.27	-0.23	-0.23	0.36	-0.04	0.03	-0.15
1989-1995	0.24	-0.46	-0.46	0.34	-0.60	-0.29	-0.78
1995-2002	-0.70	-0.04	-0.04	0.37	0.45	0.31	0.39

Sources: Table 1 and Appendix Table 1.

Appendix Table 3: Labour Productivity Levels (in 1990 international dollars) and Growth Rates in Canada and the United States, 1870-1998

	GDP per Person Employed United States/Canada		GDP per Hour Worked United States/Canada			
	United States	Canada	United States, %	United States	Canada	United States, %
1870	\$6,683	\$5,061	75.7	\$2.25	\$1.71	76.0
1913	13,327	11,585	86.9	5.12	4.45	86.9
1950	23,615	20,311	86.0	12.65	10.33	81.7
1973	40,727	35,302	86.7	23.72	19.74	83.2
1990	47,976	39,601	82.5	30.1	23.53	78.2
1998	55,618	43,298	77.8	34.55	26.04	75.4
Average annual growth rates						
1870-1913			1.92	2.25		
1913-1950			2.48	2.30		
1950-1973			2.77	2.86		
1973-1998			1.52	1.11		
1973-1990			1.41	1.04		
1990-1998			1.74	1.27		

Source: Madison, Angus. *The World Economy: a Millennial Perspective*. OECD, 2001: Tables E-5, E-7, E-8.

Appendix Table 4: Groningen and OECD Estimates of Relative Real GDP per Hour Worked, Canada as a Percentage of the United States, 1950-2002

	Real GDP, Millions of 1999 \$US		Average Annual Hours		Average Weekly Hours		Employment (thousands of workers)		Real GDP per hour, 1999 \$US Canada/			OECD Estimates of Real GDP per Hour	
	Canada	United States	United Canada	United States	United Canada	United States	United Canada	United States	United Canada	United States	United States, %	United Canada	United United States, %
									United States	United Canada	United United States, %	United Canada	United United States, %
1950	\$124,875	\$1,748,238	2,111	2,166	40.6	41.7	4,983	61,651	\$11.87	\$13.09	90.70	n/a	
1960	195,421	2,457,673	2,014	1,967	38.7	37.8	6,042	67,150	16.06	18.61	86.31	83.10	
1973	381,573	4,246,713	1,919	1,882	36.9	36.2	8,761	86,838	22.70	25.99	87.34	n/a	
1979	479,828	5,077,684	1,856	1,845	35.7	35.5	10,550	98,824	24.50	27.85	87.98	n/a	
1980	486,248	5,079,979	1,825	1,831	35.1	35.2	10,857	99,303	24.54	27.93	87.85	87.60	
1981	501,344	5,206,761	1,799	1,815	34.6	34.9	11,184	100,397	24.91	28.57	87.21	n/a	
1982	486,073	5,109,172	1,789	1,800	34.4	34.6	10,850	99,526	25.04	28.52	87.81	n/a	
1983	500,222	5,323,223	1,794	1,808	34.5	34.8	10,940	100,834	25.49	29.20	87.27	n/a	
1984	528,903	5,710,870	1,794	1,822	34.5	35.0	11,209	105,005	26.30	29.85	88.12	n/a	
1985	557,500	5,932,324	1,804	1,825	34.7	35.1	11,516	107,150	26.83	30.34	88.43	88.40	
1986	572,104	6,136,574	1,804	1,803	34.7	34.7	11,866	109,597	26.72	31.05	86.05	n/a	
1987	595,429	6,352,293	1,799	1,805	34.6	34.7	12,209	112,440	27.11	31.30	86.61	n/a	
1988	624,369	6,619,726	1,830	1,825	35.2	35.1	12,591	114,968	27.09	31.55	85.88	n/a	
1989	639,480	6,848,687	1,856	1,829	35.7	35.2	12,866	117,342	26.77	31.90	83.92	n/a	
1990	641,066	6,968,379	1,830	1,819	35.2	35.0	12,961	118,793	27.02	32.25	83.79	86.50	
1991	627,398	6,933,754	1,794	1,808	34.5	34.8	12,747	117,718	27.44	32.59	84.19	n/a	
1992	632,881	7,146,209	1,763	1,799	33.9	34.6	12,672	118,492	28.33	33.53	84.50	n/a	
1993	647,722	7,337,184	1,789	1,815	34.4	34.9	12,770	120,259	28.36	33.62	84.33	n/a	
1994	678,879	7,636,309	1,810	1,825	34.8	35.1	13,027	123,060	28.80	33.99	84.71	n/a	
1995	697,773	7,842,459	1,799	1,840	34.6	35.4	13,271	124,900	29.22	34.13	85.63	87.30	
1996	709,007	8,125,234	1,810	1,838	34.8	35.4	13,380	126,708	29.28	34.88	83.95	n/a	
1997	739,103	8,485,364	1,815	1,848	34.9	35.5	13,705	129,558	29.72	35.43	83.87	n/a	
1998	769,266	8,848,718	1,794	1,864	34.5	35.8	14,068	131,463	30.48	36.11	84.40	84.60	
1999	811,294	9,212,800	1,810	1,872	34.8	36.0	14,456	133,488	31.01	36.87	84.12	n/a	
2000	848,277	9,558,475	1,825	1,879	35.1	36.1	14,827	135,208	31.35	37.63	83.31	n/a	
2001	860,585	9,582,498	1,789	1,878	34.4	36.1	14,997	135,073	32.08	37.77	84.94	80.50	
2002	888,984	9,802,895	1,789	1,878	34.4	36.1	15,282	134,398	32.52	38.83	83.75	n/a	
Average annual growth rates													
1950-2002	3.85	3.37	-0.32	-0.27	-0.32	-0.27	2.18	1.51	1.96	2.11	-0.15		
1950-1973	4.98	3.93	-0.41	-0.61	-0.41	-0.61	2.48	1.50	2.86	3.03	-0.16		
1973-1981	3.47	2.58	-0.80	-0.45	-0.80	-0.45	3.10	1.83	1.17	1.19	-0.02		
1981-1989	3.09	3.49	0.39	0.10	0.39	0.10	1.77	1.97	0.90	1.39	-0.48		
1989-2000	2.60	3.08	-0.15	0.24	-0.15	0.24	1.30	1.30	1.44	1.51	-0.07		
2000-2002	2.37	1.27	-1.00	-0.01	-1.00	-0.01	1.52	-0.30	1.86	1.59	0.26		

Source: University of Groningen and the Conference Board, GGDC Total Economy Database, 2003, <http://www.eco.rug.nl/ggdc>. April 08, 2003.

OECD estimates: CATTE, Pietro, Peter Jarrett and David Rae. *LookingForward Hopefully: What Canada can Learn from some Other OECD Countries' Growth Experiences*.

OECD Economics Department, July 24, 2002. Available online at <http://www.td.com/economics/standard/full/OECD.pdf>.

Note: The following description of the Groningen database sources for average hours is taken directly from their website:

Canada: "1950, 60 and 73 from Maddison (1995). And linked to 1979. 1976-2001 from the LFS, 2002 is kept constant."

United States: "1950 and 60 from Maddison (1995) For intermediate years (51-59 and 61-66), interpolated with trned from BLS. 1967-2001 calculated from BLS by dividing total hours worked from BLS productivity database by all persons employment from CPS. 2002 is kept constant."

Appendix Table 5: PPPs Canada/United States, Gross Domestic Product, US dollars per Canadian Dollar

	OECD GDP PPPs Historical Series	Penn World Table Version 6.1	Statistics Canada PPP for GDP, OECD Countries	Statistics Canada, PPP, System of National Accounts	Market Exchange Rates
1950	n/a	0.820	n/a	n/a	n/a
1951	n/a	0.876	n/a	n/a	0.950
1952	n/a	0.948	n/a	n/a	1.021
1953	n/a	0.940	n/a	n/a	1.017
1954	n/a	0.959	n/a	n/a	1.027
1955	n/a	0.940	n/a	n/a	1.014
1956	n/a	0.949	n/a	n/a	1.016
1957	n/a	0.972	n/a	n/a	1.043
1958	n/a	0.951	n/a	n/a	1.030
1959	n/a	0.963	n/a	n/a	1.043
1960	n/a	0.955	n/a	n/a	1.031
1961	n/a	0.919	n/a	n/a	0.987
1962	n/a	0.874	n/a	n/a	0.936
1963	n/a	0.875	n/a	n/a	0.927
1964	n/a	0.882	n/a	n/a	0.927
1965	n/a	0.895	n/a	n/a	0.928
1966	n/a	0.913	n/a	n/a	0.928
1967	n/a	0.933	n/a	n/a	0.927
1968	n/a	0.937	n/a	n/a	0.928
1969	n/a	0.937	n/a	n/a	0.929
1970	0.891	0.968	n/a	n/a	0.958
1971	0.911	0.997	n/a	n/a	0.990
1972	0.898	1.036	n/a	n/a	1.009
1973	0.873	1.050	n/a	n/a	1.000
1974	0.826	1.105	n/a	n/a	1.022
1975	0.818	1.078	n/a	n/a	0.983
1976	0.798	1.148	n/a	n/a	1.014
1977	0.797	1.091	n/a	n/a	0.940
1978	0.806	1.021	n/a	n/a	0.877
1979	0.799	0.985	n/a	n/a	0.854
1980	0.789	0.983	n/a	n/a	0.855
1981	0.784	0.965	0.790	n/a	0.834
1982	0.766	0.971	0.760	n/a	0.811
1983	0.762	0.981	0.760	n/a	0.811
1984	0.770	0.933	0.770	n/a	0.772
1985	0.779	0.883	0.780	n/a	0.732
1986	0.777	0.879	0.780	n/a	0.720
1987	0.766	0.924	0.760	n/a	0.754
1988	0.761	0.994	0.760	n/a	0.813
1989	0.758	1.035	0.760	n/a	0.845
1990	0.767	1.057	0.770	n/a	0.857
1991	0.777	1.080	0.780	n/a	0.873
1992	0.780	1.025	0.780	0.810	0.827
1993	0.792	0.959	0.790	0.820	0.775
1994	0.799	0.899	0.800	0.830	0.732
1995	0.845	0.885	0.840	0.830	0.729
1996	0.844	0.884	0.840	0.840	0.733
1997	0.851	0.860	0.850	0.840	0.722
1998	0.837	0.805	0.840	0.860	0.674
1999	0.840	0.800	0.840	0.850	0.673
2000	0.825	0.793	0.830	0.840	0.673
2001	0.836	n/a	0.830	0.850	0.646
2002	0.837	n/a	n/a	n/a	0.637

Sources: OECD PPPs: OECD website, www.oecd.org/oecd/pages/home/displaygeneral/0,3380,EN-statistics-513-15-no-no-no-513,00.html

Penn World PPPs: Alan Heston, Robert Summers and Bettina Aten, Penn World Table Version 6.1, Center for International Comparisons

at the University of Pennsylvania (CICUP), October 2002. Statistics Canada PPPs: OECD countries: CANSIM II Table 380-0037, series v647898.

System of National Accounts PPPs: CANSIM II Table 380-0057, series v13930600. Market Exchange rates: CANSIM II series v37426. All series as of April 09, 2003.

Note: The market exchange rates are annual averages of monthly data published by Statistics Canada.

Appendix Table 6: Relative Capital Productivity for Structures in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), Structures		Real GDP, billions of 1997 \$US		Real GDP per 1,000\$ of Capital Stock Canada/ US,		
	Canada	United States	Canada	United States	Canada	United States	%
1955	238,769	3,299,670	166	2,140	696.0	648.7	107.29
1956	254,680	3,409,939	179	2,183	703.6	640.1	109.91
1957	273,768	3,520,209	184	2,226	673.0	632.5	106.40
1958	290,655	3,625,805	188	2,205	646.0	608.1	106.22
1959	306,160	3,735,140	194	2,364	634.7	633.0	100.27
1960	321,365	3,850,082	200	2,423	621.9	629.3	98.82
1961	337,134	3,970,631	206	2,479	611.0	624.4	97.85
1962	352,802	4,094,917	220	2,629	624.7	642.1	97.30
1963	368,614	4,224,811	232	2,743	629.6	649.2	96.98
1964	386,501	4,370,591	247	2,902	639.4	664.0	96.30
1965	406,697	4,539,733	263	3,088	646.3	680.1	95.03
1966	429,932	4,719,154	280	3,290	652.0	697.3	93.51
1967	451,908	4,894,837	289	3,373	638.4	689.1	92.65
1968	473,259	5,071,455	303	3,534	639.4	696.8	91.76
1969	494,012	5,244,335	318	3,641	643.3	694.3	92.66
1970	515,766	5,403,198	327	3,648	634.9	675.1	94.04
1971	538,044	5,553,650	341	3,770	633.6	678.8	93.35
1972	559,151	5,699,430	359	3,974	642.9	697.3	92.20
1973	580,488	5,855,489	385	4,204	662.4	717.9	92.27
1974	602,277	6,000,334	399	4,179	662.0	696.4	95.06
1975	626,416	6,122,752	406	4,164	648.1	680.1	95.30
1976	648,607	6,242,366	427	4,396	658.5	704.2	93.51
1977	671,856	6,359,177	442	4,600	657.7	723.3	90.92
1978	694,895	6,503,088	459	4,853	661.0	746.3	88.57
1979	720,690	6,667,557	477	5,008	661.6	751.1	88.09
1980	750,258	6,841,372	487	4,996	649.3	730.3	88.90
1981	781,893	7,021,727	504	5,119	644.9	729.0	88.46
1982	809,074	7,184,328	490	5,015	605.4	698.1	86.72
1983	831,201	7,312,352	503	5,232	605.3	715.6	84.59
1984	852,863	7,482,429	532	5,613	624.2	750.1	83.22
1985	877,094	7,680,540	558	5,829	636.0	758.9	83.80
1986	896,828	7,851,551	571	6,028	637.0	767.7	82.98
1987	917,706	8,020,693	596	6,233	649.0	777.1	83.52
1988	941,465	8,183,946	625	6,493	664.1	793.3	83.71
1989	966,442	8,344,862	642	6,720	663.9	805.3	82.44
1990	991,674	8,522,319	643	6,839	648.3	802.4	80.79
1991	1,015,184	8,667,164	629	6,807	620.0	785.3	78.95
1992	1,032,029	8,791,168	635	7,014	615.2	797.9	77.11
1993	1,048,034	8,917,695	650	7,200	620.0	807.4	76.79
1994	1,067,735	9,034,972	681	7,491	637.8	829.1	76.92
1995	1,086,309	9,177,013	700	7,691	644.5	838.1	76.90
1996	1,103,632	9,344,751	711	7,966	644.6	852.4	75.63
1997	1,125,433	9,532,581	741	8,319	658.9	872.7	75.50
1998	1,146,056	9,732,558	772	8,675	673.5	891.3	75.56
1999	1,167,472	9,946,048	813	9,032	696.8	908.1	76.73
2000	1,190,726	10,171,373	850	9,371	714.2	921.3	77.52
2001	1,215,214	10,378,381	863	9,394	710.3	905.2	78.47
Average annual growth rates							
55-01	3.60	2.52	3.65	3.27	0.04	0.73	-0.68
55-73	5.06	3.24	4.77	3.82	-0.27	0.57	-0.83
73-81	3.79	2.30	3.45	2.49	-0.34	0.19	-0.53
81-89	2.68	2.18	3.06	3.46	0.36	1.25	-0.88
89-01	1.93	1.83	2.50	2.83	0.56	0.98	-0.41
89-95	1.97	1.60	1.46	2.27	-0.49	0.67	-1.15
95-01	1.89	2.07	3.55	3.39	1.63	1.29	0.34

Sources: Tables 3, 4, 6

**Appendix Table 7: Relative Capital Productivity for Machinery and Equipment
in Canada and the United States (US=100) 1955-2000**

	Capital Stock (In millions of 1997 US \$), Machinery and Equipment		Real GDP, billions of 1997 \$US		Real GDP per 1,000\$ of Capital Stock Canada/ US,		
	Canada	United States	Canada	United States	Canada	United States	%
1955	38,571	853,448	166	2,140	4,308	2,508	171.78
1956	41,326	883,943	179	2,183	4,336	2,469	175.59
1957	43,757	912,832	184	2,226	4,211	2,439	172.63
1958	44,633	925,271	188	2,205	4,207	2,383	176.52
1959	45,632	954,161	194	2,364	4,258	2,478	171.85
1960	46,635	980,643	200	2,423	4,286	2,471	173.45
1961	46,803	1,007,526	206	2,479	4,401	2,461	178.85
1962	47,452	1,045,645	220	2,629	4,645	2,514	184.72
1963	48,604	1,083,362	232	2,743	4,775	2,532	188.61
1964	50,983	1,129,104	247	2,902	4,847	2,570	188.59
1965	54,533	1,189,692	263	3,088	4,820	2,595	185.73
1966	59,343	1,269,941	280	3,290	4,724	2,591	182.32
1967	63,261	1,342,967	289	3,373	4,561	2,511	181.59
1968	65,545	1,411,179	303	3,534	4,616	2,504	184.35
1969	67,913	1,482,199	318	3,641	4,680	2,457	190.50
1970	70,247	1,537,972	327	3,648	4,661	2,372	196.53
1971	72,609	1,576,893	341	3,770	4,695	2,391	196.40
1972	75,332	1,642,697	359	3,974	4,772	2,419	197.24
1973	79,973	1,729,366	385	4,204	4,808	2,431	197.80
1974	85,705	1,815,634	399	4,179	4,652	2,302	202.13
1975	91,311	1,869,802	406	4,164	4,446	2,227	199.65
1976	96,403	1,928,384	427	4,396	4,430	2,280	194.35
1977	100,433	2,013,448	442	4,600	4,400	2,285	192.58
1978	104,245	2,126,599	459	4,853	4,406	2,282	193.07
1979	109,876	2,253,793	477	5,008	4,340	2,222	195.30
1980	117,165	2,351,296	487	4,996	4,158	2,125	195.65
1981	129,052	2,443,582	504	5,119	3,907	2,095	186.51
1982	135,011	2,500,960	490	5,015	3,628	2,005	180.91
1983	138,143	2,569,975	503	5,232	3,642	2,036	178.88
1984	141,131	2,689,546	532	5,613	3,772	2,087	180.76
1985	144,484	2,815,135	558	5,829	3,861	2,070	186.47
1986	149,237	2,929,089	571	6,028	3,828	2,058	186.03
1987	155,247	3,022,579	596	6,233	3,837	2,062	186.06
1988	165,081	3,121,051	625	6,493	3,787	2,080	182.07
1989	175,336	3,228,151	642	6,720	3,659	2,082	175.78
1990	182,405	3,321,607	643	6,839	3,524	2,059	171.18
1991	186,603	3,389,782	629	6,807	3,373	2,008	167.98
1992	190,731	3,463,537	635	7,014	3,329	2,025	164.38
1993	193,492	3,560,965	650	7,200	3,358	2,022	166.08
1994	198,346	3,686,082	681	7,491	3,433	2,032	168.94
1995	204,503	3,836,117	700	7,691	3,423	2,005	170.76
1996	212,235	4,012,717	711	7,966	3,352	1,985	168.87
1997	226,709	4,216,281	741	8,319	3,271	1,973	165.77
1998	242,232	4,465,512	772	8,675	3,187	1,943	164.03
1999	260,943	4,725,380	813	9,032	3,118	1,911	163.11
2000	283,061	5,012,132	850	9,371	3,004	1,870	160.69
2001	300,573	5,184,036	863	9,394	2,872	1,812	158.46
Average annual growth rates							
55-01	4.56	4.00	3.65	3.27	-0.88	-0.70	-0.18
55-73	4.13	4.00	4.77	3.82	0.61	-0.17	0.79
73-81	6.16	4.42	3.45	2.49	-2.56	-1.84	-0.73
81-89	3.91	3.54	3.06	3.46	-0.82	-0.08	-0.74
89-01	4.59	4.03	2.50	2.83	-2.00	-1.15	-0.86
89-95	2.60	2.92	1.46	2.27	-1.10	-0.63	-0.48
95-01	6.63	5.15	3.55	3.39	-2.89	-1.67	-1.24

Sources: Tables 3, 4, 6

Appendix Table 8: Relative Capital Labour Ratio for Structures based on Employment in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), Structures		Employment (thousands)		Capital Labour Ratio Canada/ US,		
	Canada	United States	Canada	United States	Canada	United States	%
1955	238,769	3,299,670	5,533	62,170	43,151	53,075	81.30
1956	254,680	3,409,939	5,761	63,799	44,205	53,448	82.71
1957	273,768	3,520,209	5,912	64,071	46,308	54,942	84.28
1958	290,655	3,625,805	5,886	63,036	49,380	57,520	85.85
1959	306,160	3,735,140	6,055	64,630	50,560	57,793	87.49
1960	321,365	3,850,082	6,153	65,778	52,226	58,531	89.23
1961	337,134	3,970,631	6,246	65,746	53,975	60,393	89.37
1962	352,802	4,094,917	6,422	66,702	54,941	61,391	89.49
1963	368,614	4,224,811	6,576	67,762	56,052	62,348	89.90
1964	386,501	4,370,591	6,818	69,305	56,691	63,063	89.90
1965	406,697	4,539,733	7,079	71,088	57,454	63,861	89.97
1966	429,932	4,719,154	7,471	72,895	57,550	64,739	88.89
1967	451,908	4,894,837	7,686	74,372	58,794	65,816	89.33
1968	473,259	5,071,455	7,833	75,920	60,421	66,800	90.45
1969	494,012	5,244,335	8,079	77,902	61,146	67,320	90.83
1970	515,766	5,403,198	8,169	78,678	63,137	68,675	91.94
1971	538,044	5,553,650	8,360	79,367	64,360	69,974	91.98
1972	559,151	5,699,430	8,607	82,153	64,961	69,376	93.64
1973	580,488	5,855,489	9,038	85,064	64,230	68,836	93.31
1974	602,277	6,000,334	9,413	86,794	63,983	69,133	92.55
1975	626,416	6,122,752	9,577	85,846	65,408	71,323	91.71
1976	648,607	6,242,366	9,776	88,752	66,345	70,335	94.33
1977	671,856	6,359,177	9,915	92,017	67,764	69,109	98.05
1978	694,895	6,503,088	10,212	96,048	68,046	67,707	100.50
1979	720,690	6,667,557	10,658	98,824	67,621	67,469	100.23
1980	750,258	6,841,372	10,970	99,303	68,391	68,894	99.27
1981	781,893	7,021,727	11,297	100,397	69,214	69,940	98.96
1982	809,074	7,184,328	10,947	99,526	73,908	72,185	102.39
1983	831,201	7,312,352	11,027	100,834	75,379	72,519	103.94
1984	852,863	7,482,429	11,300	105,005	75,475	71,258	105.92
1985	877,094	7,680,540	11,617	107,150	75,499	71,680	105.33
1986	896,828	7,851,551	11,979	109,597	74,867	71,640	104.50
1987	917,706	8,020,693	12,321	112,440	74,485	71,333	104.42
1988	941,465	8,183,946	12,710	114,968	74,071	71,185	104.05
1989	966,442	8,344,862	12,986	117,342	74,420	71,116	104.65
1990	991,674	8,522,319	13,084	118,793	75,793	71,741	105.65
1991	1,015,184	8,667,164	12,851	117,718	78,998	73,626	107.30
1992	1,032,029	8,791,168	12,760	118,492	80,880	74,192	109.01
1993	1,048,034	8,917,695	12,858	120,259	81,511	74,154	109.92
1994	1,067,735	9,034,972	13,112	123,060	81,434	73,419	110.92
1995	1,086,309	9,177,013	13,357	124,900	81,329	73,475	110.69
1996	1,103,632	9,344,751	13,463	126,708	81,978	73,750	111.16
1997	1,125,433	9,532,581	13,774	129,558	81,705	73,578	111.05
1998	1,146,056	9,732,558	14,140	131,463	81,048	74,033	109.48
1999	1,167,472	9,946,048	14,531	133,488	80,342	74,509	107.83
2000	1,190,726	10,171,373	14,910	135,208	79,863	75,228	106.16
2001	1,215,214	10,378,381	15,077	135,073	80,602	76,835	104.90
Average annual growth rates							
55-01	3.60	2.52	2.20	1.70	1.37	0.81	0.56
55-73	5.06	3.24	2.76	1.76	2.23	1.46	0.77
73-81	3.79	2.30	2.83	2.09	0.94	0.20	0.74
81-89	2.68	2.18	1.76	1.97	0.91	0.21	0.70
89-01	1.93	1.83	1.25	1.18	0.67	0.65	0.02
89-95	1.97	1.60	0.47	1.05	1.49	0.55	0.94
95-01	1.89	2.07	2.04	1.31	-0.15	0.75	-0.89

Sources: Tables 3, 4, 6

**Appendix Table 9: Relative Capital Labour Ratio for Machinery and
(US=100) 1955-2000**

Capital Stock (In millions of
1997 US \$), Machinery and

Equipment

Employment (thousands)

Capital Labour Ratio

Canada/ US,

	Canada	United States	Canada	United States	Canada	United States	%
1955	38,571	853,448	5,533	62,170	6,971	13,728	50.78
1956	41,326	883,943	5,761	63,799	7,173	13,855	51.77
1957	43,757	912,832	5,912	64,071	7,401	14,247	51.95
1958	44,633	925,271	5,886	63,036	7,583	14,678	51.66
1959	45,632	954,161	6,055	64,630	7,536	14,763	51.04
1960	46,635	980,643	6,153	65,778	7,579	14,908	50.84
1961	46,803	1,007,526	6,246	65,746	7,493	15,325	48.90
1962	47,452	1,045,645	6,422	66,702	7,390	15,676	47.14
1963	48,604	1,083,362	6,576	67,762	7,391	15,988	46.23
1964	50,983	1,129,104	6,818	69,305	7,478	16,292	45.90
1965	54,533	1,189,692	7,079	71,088	7,704	16,735	46.03
1966	59,343	1,269,941	7,471	72,895	7,944	17,422	45.60
1967	63,261	1,342,967	7,686	74,372	8,230	18,057	45.58
1968	65,545	1,411,179	7,833	75,920	8,368	18,588	45.02
1969	67,913	1,482,199	8,079	77,902	8,406	19,026	44.18
1970	70,247	1,537,972	8,169	78,678	8,599	19,548	43.99
1971	72,609	1,576,893	8,360	79,367	8,685	19,868	43.71
1972	75,332	1,642,697	8,607	82,153	8,752	19,996	43.77
1973	79,973	1,729,366	9,038	85,064	8,849	20,330	43.53
1974	85,705	1,815,634	9,413	86,794	9,105	20,919	43.52
1975	91,311	1,869,802	9,577	85,846	9,534	21,781	43.77
1976	96,403	1,928,384	9,776	88,752	9,861	21,728	45.38
1977	100,433	2,013,448	9,915	92,017	10,130	21,881	46.29
1978	104,245	2,126,599	10,212	96,048	10,208	22,141	46.10
1979	109,876	2,253,793	10,658	98,824	10,310	22,806	45.21
1980	117,165	2,351,296	10,970	99,303	10,680	23,678	45.11
1981	129,052	2,443,582	11,297	100,397	11,424	24,339	46.94
1982	135,011	2,500,960	10,947	99,526	12,333	25,129	49.08
1983	138,143	2,569,975	11,027	100,834	12,528	25,487	49.15
1984	141,131	2,689,546	11,300	105,005	12,489	25,613	48.76
1985	144,484	2,815,135	11,617	107,150	12,437	26,273	47.34
1986	149,237	2,929,089	11,979	109,597	12,458	26,726	46.61
1987	155,247	3,022,579	12,321	112,440	12,600	26,882	46.87
1988	165,081	3,121,051	12,710	114,968	12,988	27,147	47.84
1989	175,336	3,228,151	12,986	117,342	13,501	27,511	49.08
1990	182,405	3,321,607	13,084	118,793	13,941	27,961	49.86
1991	186,603	3,389,782	12,851	117,718	14,521	28,796	50.43
1992	190,731	3,463,537	12,760	118,492	14,948	29,230	51.14
1993	193,492	3,560,965	12,858	120,259	15,049	29,611	50.82
1994	198,346	3,686,082	13,112	123,060	15,127	29,954	50.50
1995	204,503	3,836,117	13,357	124,900	15,311	30,714	49.85
1996	212,235	4,012,717	13,463	126,708	15,765	31,669	49.78
1997	226,709	4,216,281	13,774	129,558	16,459	32,544	50.57
1998	242,232	4,465,512	14,140	131,463	17,131	33,968	50.43
1999	260,943	4,725,380	14,531	133,488	17,957	35,399	50.73
2000	283,061	5,012,132	14,910	135,208	18,985	37,070	51.21
2001	300,573	5,184,036	15,077	135,073	19,936	38,380	51.94

Average annual growth rates

55-01	4.56	4.00	2.20	1.70	2.31	2.26	0.05
55-73	4.13	4.00	2.76	1.76	1.33	2.21	-0.85
73-81	6.16	4.42	2.83	2.09	3.24	2.28	0.95
81-89	3.91	3.54	1.76	1.97	2.11	1.54	0.56
89-01	4.59	4.03	1.25	1.18	3.30	2.81	0.47
89-95	2.60	2.92	0.47	1.05	2.12	1.85	0.26
95-01	6.63	5.15	2.04	1.31	4.50	3.78	0.69

Appendix Table 10: Relative Capital Labour Ratio for Structures based on Hours in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), Structures			Hours (millions)			Capital Labour Ratio				
							United States		United States		Canada/ US (CES), %
	Canada	United States	Canada	United States (CES)	United States (CPS)	Canada	United States (CES)	United States (CPS)	Canada/ US (CES), %	Canada/ US (CPS), %	
1955	238,769	3,299,670	13,824	128,020	n/a	17.27	25.77	n/a	67.01	n/a	
1956	254,680	3,409,939	14,316	130,380	n/a	17.79	26.15	n/a	68.02	n/a	
1957	273,768	3,520,209	14,383	129,270	n/a	19.03	27.23	n/a	69.90	n/a	
1958	290,655	3,625,805	13,847	126,198	n/a	20.99	28.73	n/a	73.06	n/a	
1959	306,160	3,735,140	14,048	131,070	n/a	21.79	28.50	n/a	76.48	n/a	
1960	321,365	3,850,082	13,891	132,030	n/a	23.13	29.16	n/a	79.33	n/a	
1961	337,134	3,970,631	13,780	131,965	n/a	24.47	30.09	n/a	81.31	n/a	
1962	352,802	4,094,917	14,159	134,231	n/a	24.92	30.51	n/a	81.68	n/a	
1963	368,614	4,224,811	14,360	136,717	n/a	25.67	30.90	n/a	83.07	n/a	
1964	386,501	4,370,591	14,785	139,469	n/a	26.14	31.34	n/a	83.42	n/a	
1965	406,697	4,539,733	15,254	143,427	n/a	26.66	31.65	n/a	84.24	n/a	
1966	429,932	4,719,154	15,968	146,315	n/a	26.92	32.25	n/a	83.48	n/a	
1967	451,908	4,894,837	16,169	146,959	n/a	27.95	33.31	n/a	83.91	n/a	
1968	473,259	5,071,455	16,035	149,228	n/a	29.51	33.98	n/a	86.84	n/a	
1969	494,012	5,244,335	16,281	152,719	n/a	30.34	34.34	n/a	88.36	n/a	
1970	515,766	5,403,198	16,080	151,786	n/a	32.07	35.60	n/a	90.10	n/a	
1971	538,044	5,553,650	16,281	152,289	n/a	33.05	36.47	n/a	90.62	n/a	
1972	559,151	5,699,430	16,549	158,062	n/a	33.79	36.06	n/a	93.70	n/a	
1973	580,488	5,855,489	17,331	163,221	n/a	33.49	35.87	n/a	93.37	n/a	
1974	602,277	6,000,334	17,911	164,735	n/a	33.63	36.42	n/a	92.32	n/a	
1975	626,416	6,122,752	17,844	161,150	n/a	35.10	37.99	n/a	92.39	n/a	
1976	648,607	6,242,366	17,956	166,605	167,804	36.12	37.47	37.20	96.41	97.10	
1977	671,856	6,359,177	18,204	172,256	174,516	36.91	36.92	36.44	99.97	101.28	
1978	694,895	6,503,088	18,933	178,803	183,485	36.70	36.37	35.44	100.91	103.56	
1979	720,690	6,667,557	19,766	183,457	188,276	36.46	36.34	35.41	100.32	102.96	
1980	750,258	6,841,372	20,028	182,281	187,031	37.46	37.53	36.58	99.81	102.41	
1981	781,893	7,021,727	20,312	183,767	187,437	38.49	38.21	37.46	100.74	102.75	
1982	809,074	7,184,328	19,602	180,102	185,378	41.28	39.89	38.75	103.47	106.51	
1983	831,201	7,312,352	19,769	183,518	189,740	42.05	39.85	38.54	105.52	109.10	
1984	852,863	7,482,429	20,291	192,201	200,612	42.03	38.93	37.30	107.97	112.69	
1985	877,094	7,680,540	20,992	194,456	205,560	41.78	39.50	37.36	105.78	111.82	
1986	896,828	7,851,551	21,633	198,327	211,162	41.46	39.59	37.18	104.72	111.49	
1987	917,706	8,020,693	22,178	203,471	216,043	41.38	39.42	37.13	104.97	111.45	
1988	941,465	8,183,946	23,264	207,448	223,600	40.47	39.45	36.60	102.58	110.57	
1989	966,442	8,344,862	24,084	211,122	228,925	40.13	39.53	36.45	101.52	110.09	
1990	991,674	8,522,319	23,923	213,115	230,762	41.45	39.99	36.93	103.66	112.24	
1991	1,015,184	8,667,164	23,037	209,962	227,899	44.07	41.28	38.03	106.75	115.88	
1992	1,032,029	8,791,168	22,514	211,958	227,373	45.84	41.48	38.66	110.52	118.56	
1993	1,048,034	8,917,695	22,996	215,745	234,010	45.58	41.33	38.11	110.26	119.59	
1994	1,067,735	9,034,972	23,747	222,049	239,392	44.96	40.69	37.74	110.51	119.14	
1995	1,086,309	9,177,013	24,020	224,071	243,838	45.23	40.96	37.64	110.42	120.17	
1996	1,103,632	9,344,751	24,374	226,655	247,153	45.28	41.23	37.81	109.82	119.76	
1997	1,125,433	9,532,581	24,964	233,101	254,702	45.08	40.89	37.43	110.24	120.46	
1998	1,146,056	9,732,558	25,390	236,528	257,242	45.14	41.15	37.83	109.70	119.31	
1999	1,167,472	9,946,048	26,312	239,477	263,744	44.37	41.53	37.71	106.83	117.66	
2000	1,190,726	10,171,373	27,193	242,563	267,530	43.79	41.93	38.02	104.42	115.17	
2001	1,215,214	10,378,381	26,958	240,214	264,007	45.08	43.20	39.31	104.34	114.67	
Average annual growth rates											
55-01	3.60	2.52	1.46	1.38	n/a	2.11	1.13	n/a	0.97	n/a	
55-73	5.06	3.24	1.26	1.36	n/a	3.75	1.85	n/a	1.86	n/a	
73-81	3.79	2.30	2.00	1.49	n/a	1.75	0.79	n/a	0.95	n/a	
81-89	2.68	2.18	2.15	1.75	2.53	0.52	0.42	-0.34	0.10	0.87	
89-91	1.93	1.83	0.94	1.08	1.20	0.97	0.74	0.63	0.23	0.34	
89-95	1.97	1.60	-0.04	1.00	1.06	2.01	0.59	0.53	1.41	1.47	
95-01	1.89	2.07	1.94	1.17	1.33	-0.05	0.89	0.73	-0.94	-0.78	

Sources: Tables 3, 4, 6

Appendix Table 11: Relative Capital Labour Ratio for Machinery and Equipment based on Hours in Canada and the United States (US=100) 1955-2000

	Capital Stock (In millions of 1997 US \$), Machinery and Equipment									
	Hours (millions) United States			Capital Labour Ratio						
	Canada	United States	Canada	United States (CES)	United States (CPS)	Canada	United States (CES)	United States (CPS)	Canada/ US (CES), %	Canada/ US (CPS), %
1955	38,571	853,448	13,824	128,020	n/a	2.79	6.67	n/a	41.85	n/a
1956	41,326	883,943	14,316	130,380	n/a	2.89	6.78	n/a	42.58	n/a
1957	43,757	912,832	14,383	129,270	n/a	3.04	7.06	n/a	43.08	n/a
1958	44,633	925,271	13,847	126,198	n/a	3.22	7.33	n/a	43.96	n/a
1959	45,632	954,161	14,048	131,070	n/a	3.25	7.28	n/a	44.62	n/a
1960	46,635	980,643	13,891	132,030	n/a	3.36	7.43	n/a	45.20	n/a
1961	46,803	1,007,526	13,780	131,965	n/a	3.40	7.63	n/a	44.49	n/a
1962	47,452	1,045,645	14,159	134,231	n/a	3.35	7.79	n/a	43.02	n/a
1963	48,604	1,083,362	14,360	136,717	n/a	3.38	7.92	n/a	42.71	n/a
1964	50,983	1,129,104	14,785	139,469	n/a	3.45	8.10	n/a	42.59	n/a
1965	54,533	1,189,692	15,254	143,427	n/a	3.58	8.29	n/a	43.10	n/a
1966	59,343	1,269,941	15,968	146,315	n/a	3.72	8.68	n/a	42.82	n/a
1967	63,261	1,342,967	16,169	146,959	n/a	3.91	9.14	n/a	42.81	n/a
1968	65,545	1,411,179	16,035	149,228	n/a	4.09	9.46	n/a	43.22	n/a
1969	67,913	1,482,199	16,281	152,719	n/a	4.17	9.71	n/a	42.98	n/a
1970	70,247	1,537,972	16,080	151,786	n/a	4.37	10.13	n/a	43.11	n/a
1971	72,609	1,576,893	16,281	152,289	n/a	4.46	10.35	n/a	43.07	n/a
1972	75,332	1,642,697	16,549	158,062	n/a	4.55	10.39	n/a	43.80	n/a
1973	79,973	1,729,366	17,331	163,221	n/a	4.61	10.60	n/a	43.55	n/a
1974	85,705	1,815,634	17,911	164,735	n/a	4.78	11.02	n/a	43.41	n/a
1975	91,311	1,869,802	17,844	161,150	n/a	5.12	11.60	n/a	44.10	n/a
1976	96,403	1,928,384	17,956	166,605	167,804	5.37	11.57	11.49	46.38	46.72
1977	100,433	2,013,448	18,204	172,256	174,516	5.52	11.69	11.54	47.20	47.82
1978	104,245	2,126,599	18,933	178,803	183,485	5.51	11.89	11.59	46.29	47.51
1979	109,876	2,253,793	19,766	183,457	188,276	5.56	12.29	11.97	45.25	46.44
1980	117,165	2,351,296	20,028	182,281	187,031	5.85	12.90	12.57	45.35	46.53
1981	129,052	2,443,582	20,312	183,767	187,437	6.35	13.30	13.04	47.78	48.73
1982	135,011	2,500,960	19,602	180,102	185,378	6.89	13.89	13.49	49.60	51.05
1983	138,143	2,569,975	19,769	183,518	189,740	6.99	14.00	13.54	49.90	51.59
1984	141,131	2,689,546	20,291	192,201	200,612	6.96	13.99	13.41	49.70	51.88
1985	144,484	2,815,135	20,992	194,456	205,560	6.88	14.48	13.69	47.54	50.26
1986	149,237	2,929,089	21,633	198,327	211,162	6.90	14.77	13.87	46.71	49.73
1987	155,247	3,022,579	22,178	203,471	216,043	7.00	14.86	13.99	47.12	50.03
1988	165,081	3,121,051	23,264	207,448	223,600	7.10	15.04	13.96	47.16	50.84
1989	175,336	3,228,151	24,084	211,122	228,925	7.28	15.29	14.10	47.61	51.63
1990	182,405	3,321,607	23,923	213,115	230,762	7.62	15.59	14.39	48.92	52.97
1991	186,603	3,389,782	23,037	209,962	227,899	8.10	16.14	14.87	50.17	54.46
1992	190,731	3,463,537	22,514	211,958	227,373	8.47	16.34	15.23	51.84	55.62
1993	193,492	3,560,965	22,996	215,745	234,010	8.41	16.51	15.22	50.98	55.29
1994	198,346	3,686,082	23,747	222,049	239,392	8.35	16.60	15.40	50.32	54.25
1995	204,503	3,836,117	24,020	224,071	243,838	8.51	17.12	15.73	49.73	54.12
1996	212,235	4,012,717	24,374	226,655	247,153	8.71	17.70	16.24	49.18	53.63
1997	226,709	4,216,281	24,964	233,101	254,702	9.08	18.09	16.55	50.21	54.86
1998	242,232	4,465,512	25,390	236,528	257,242	9.54	18.88	17.36	50.53	54.96
1999	260,943	4,725,380	26,312	239,477	263,744	9.92	19.73	17.92	50.26	55.35
2000	283,061	5,012,132	27,193	242,563	267,530	10.41	20.66	18.73	50.38	55.56
2001	300,573	5,184,036	26,958	240,214	264,007	11.15	21.58	19.64	51.66	56.78
Average annual growth rates										
55-01	4.56	4.00	1.46	1.38	n/a	3.06	2.59	n/a	0.46	n/a
55-73	4.13	4.00	1.26	1.36	n/a	2.83	2.61	n/a	0.22	n/a
73-81	6.16	4.42	2.00	1.49	n/a	4.08	2.88	n/a	1.16	n/a
81-89	3.91	3.54	2.15	1.75	2.53	1.72	1.76	0.99	-0.04	0.72
89-01	4.59	4.03	0.94	1.08	1.20	3.62	2.91	2.80	0.68	0.80
89-95	2.60	2.92	-0.04	1.00	1.06	2.64	1.90	1.84	0.73	0.79
95-01	6.63	5.15	1.94	1.17	1.33	4.60	3.93	3.76	0.64	0.80

Sources: Tables 3, 4, 6

Appendix Table 12: Tax Revenue as a Share of Nominal GDP in Canada and the United States, all Levels of Government, 1961-2002

	Government Revenue as a Share of Nominal GDP, %							
	Tax Revenue, billions of current dollars		Nominal GDP, billions of current dollars		Tax Revenue as a Share of Nominal GDP, %		a Share of Nominal GDP, %	
	Canada	United States	Canada	United States	Canada	United States	Canada	United States
1961	\$9.1	\$112.1	\$41.2	\$545.7	22.22	20.54	27.83	25.71
1962	10.1	120.9	\$44.7	586.5	22.62	20.61	27.98	25.92
1963	10.7	128.7	\$48.0	618.7	22.39	20.80	27.91	26.44
1964	12.2	131.6	\$52.5	664.4	23.27	19.81	28.93	25.38
1965	13.6	143.3	\$57.9	720.1	23.54	19.90	29.51	25.36
1966	15.3	156.6	\$64.8	789.3	23.61	19.84	30.63	26.33
1967	17.2	166.7	\$69.7	834.1	24.62	19.99	31.98	26.83
1968	19.5	195.6	\$76.1	911.5	25.56	21.46	33.28	28.30
1969	22.5	220.5	\$83.8	985.3	26.81	22.38	35.06	29.51
1970	24.4	220.6	\$90.2	1,039.7	27.10	21.22	35.59	28.75
1971	27.2	230.9	\$98.4	1,128.6	27.60	20.46	36.21	28.27
1972	30.6	263.5	\$109.9	1,240.4	27.84	21.24	36.49	29.81
1973	35.8	288.3	\$129.0	1,385.5	27.79	20.81	36.53	29.96
1974	45.1	316.1	\$154.0	1,501.0	29.30	21.06	38.62	30.37
1975	48.2	321.5	\$173.6	1,635.2	27.78	19.66	37.51	29.09
1976	54.4	369.3	\$200.0	1,823.9	27.20	20.25	37.36	29.79
1977	59.4	415.7	\$221.0	2,031.4	26.90	20.46	37.27	30.00
1978	63.1	467.7	\$244.9	2,295.9	25.75	20.37	36.75	30.12
1979	70.9	518.5	\$279.6	2,566.4	25.36	20.20	36.53	29.97
1980	81.8	563.2	\$314.4	2,795.6	26.00	20.15	37.39	30.03
1981	100.3	637.7	\$360.5	3,131.3	27.84	20.37	39.64	30.34
1982	106.4	633	\$379.9	3,259.2	28.00	19.42	40.23	29.45
1983	111.8	666.3	\$411.4	3,534.9	27.18	18.85	39.72	28.74
1984	122.1	731.1	\$449.6	3,932.7	27.15	18.59	39.76	28.59
1985	131.1	789.1	\$485.7	4,213.0	27.00	18.73	39.45	28.88
1986	145.4	834.5	\$512.5	4,452.9	28.36	18.74	40.36	29.07
1987	162.1	928.1	\$558.9	4,742.5	29.00	19.57	40.64	29.66
1988	179.4	977	\$613.1	5,108.3	29.26	19.13	41.02	29.41
1989	194.3	1067.7	\$657.7	5,489.1	29.54	19.45	41.24	29.68
1990	209.4	1114	\$679.9	5,803.2	30.80	19.20	42.91	29.62
1991	214.4	1131.9	\$685.4	5,986.2	31.28	18.91	43.72	29.87
1992	218.1	1186.6	\$700.5	6,318.9	31.13	18.78	44.03	29.97
1993	221.9	1270.1	\$727.2	6,642.3	30.51	19.12	43.32	30.42
1994	232.0	1367.7	\$770.9	7,054.3	30.10	19.39	42.88	30.73
1995	244.2	1463.8	\$810.4	7,400.5	30.14	19.78	42.94	31.10
1996	259.6	1581.3	\$836.9	7,813.2	31.02	20.24	43.51	31.48
1997	279.2	1715.7	\$882.7	8,318.4	31.63	20.63	43.97	31.70
1998	289.8	1843.3	\$915.0	8,781.5	31.67	20.99	44.02	32.16
1999	309.7	1964.7	\$980.5	9,274.3	31.59	21.18	43.60	32.47
2000	331.3	2127.3	\$1,065.0	9,824.6	31.11	21.65	43.73	33.06
2001	331.2	2083.8	\$1,092.2	10,082.2	30.32	20.67	42.94	32.43
2002	333.5	1942.8	\$1,142.1	10,446.0	29.20	18.60	41.39	30.45

Source: Canada: Tax Revenue: CANSIM II series v647168, v647173, v647167 (direct taxes, indirect taxes, government income) April 09, 2003. Nominal GDP: Table 3. United States: Tax Revenue and government current receipts: BEA website, www.bea.gov, NIPA Table 3.3. April 09, 2003. Nominal GDP: Table 4.

Note: In Canada, tax revenue is the sum of direct and indirect taxes for all levels of government. In the United States, Tax revenue is the sum of income taxes, corporate profits tax accruals, sales taxes, and property taxes for state and local government, and of income taxes, corporate profits tax accruals, excise taxes and customs duties for federal government.

Appendix Table 13: Union Coverage as a Percentage of all Employees, Canada and the United States, 1976-2002

	Canada		United States		Union Density	
	Total Employees	Union Coverage	Total Employees	Union Coverage	Canada	United States
1976	8,547	2,738	n/a	n/a	32.04	n/a
1977	8,635	2,878	n/a	n/a	33.33	n/a
1978	8,976	2,875	n/a	n/a	32.03	n/a
1979	9,331	2,993	n/a	n/a	32.08	n/a
1980	9,553	3,055	n/a	n/a	31.98	n/a
1981	9,618	3,115	n/a	n/a	32.39	n/a
1982	9,121	3,003	n/a	n/a	32.92	n/a
1983	9,475	3,331	88,290	20,532	35.16	23.26
1984	9,679	3,380	92,194	19,932	34.92	21.62
1985	10,009	3,434	94,521	19,358	34.30	20.48
1986	10,283	3,551	96,903	19,278	34.54	19.89
1987	10,710	3,617	99,303	19,051	33.77	19.18
1988	10,940	3,720	101,407	19,241	34.01	18.97
1989	11,137	3,826	103,480	19,198	34.35	18.55
1990	10,950	3,841	104,876	19,105	35.07	18.22
1991	10,778	3,829	103,723	18,790	35.53	18.12
1992	10,718	3,803	104,668	18,578	35.48	17.75
1993	10,757	3,757	106,101	18,682	34.93	17.61
1994	11,150	3,814	107,989	18,850	34.20	17.46
1995	11,149	3,858	110,038	18,346	34.60	16.67
1996	n/a	n/a	111,960	18,158	n/a	16.22
1997	11,421	3,844	114,533	17,923	33.66	15.65
1998	11,715	3,848	116,730	17,918	32.84	15.35
1999	12,068	3,882	118,963	18,182	32.17	15.28
2000	12,488	4,025	120,786	17,944	32.23	14.86
2001	12,768	4,109	122,482	18,114	32.18	14.79
2002	13,066	4,201	122,007	17,771	32.15	14.57
Averages						
1983-2002					34.01	17.72
1976-1982					32.39	n/a
1983-1989					34.44	20.28
1990-2002					33.75	16.35

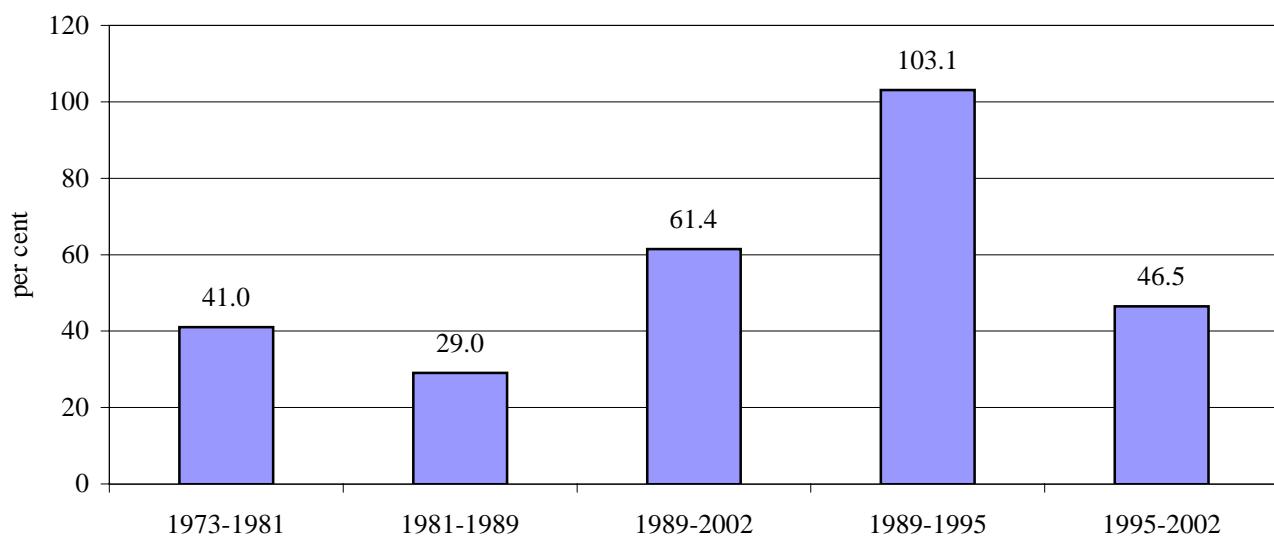
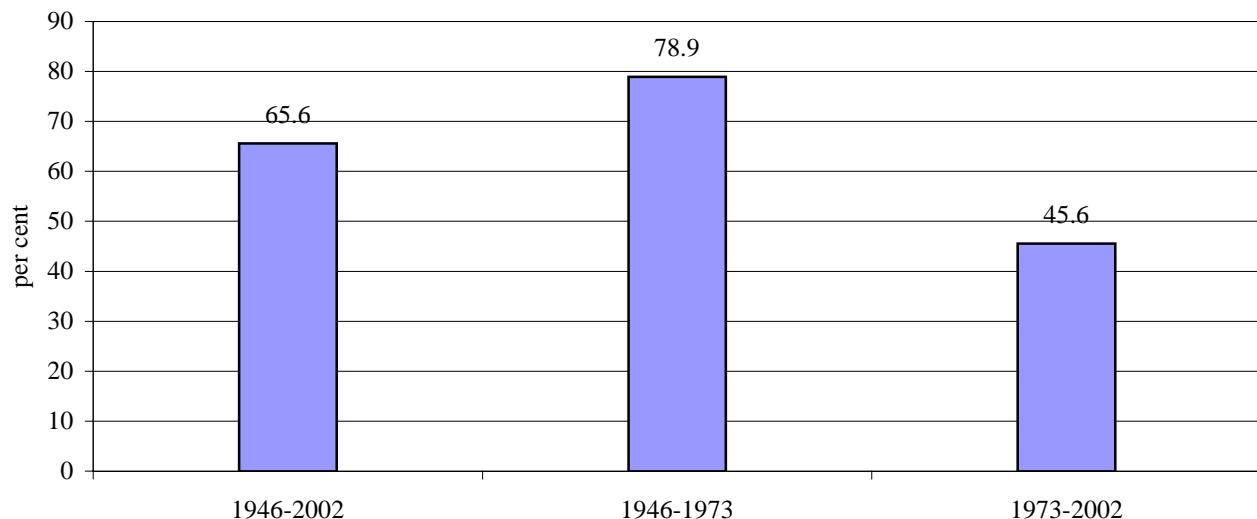
Source: Canada: Employees: CANSIM II series v2113867 for 1997-2002 and v812257 for 1976-1995.

Union coverage: CANSIM II series v2113868 for 1997-2002 and v811960 for 1976-1995.

United States: Unpublished CPS union affiliation data provided by the BLS.

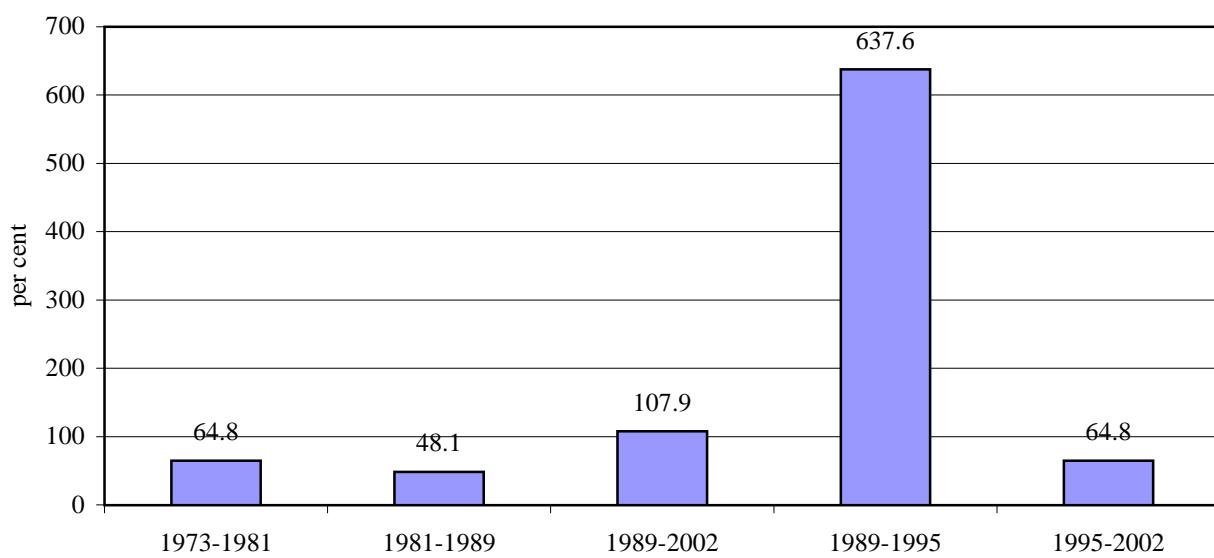
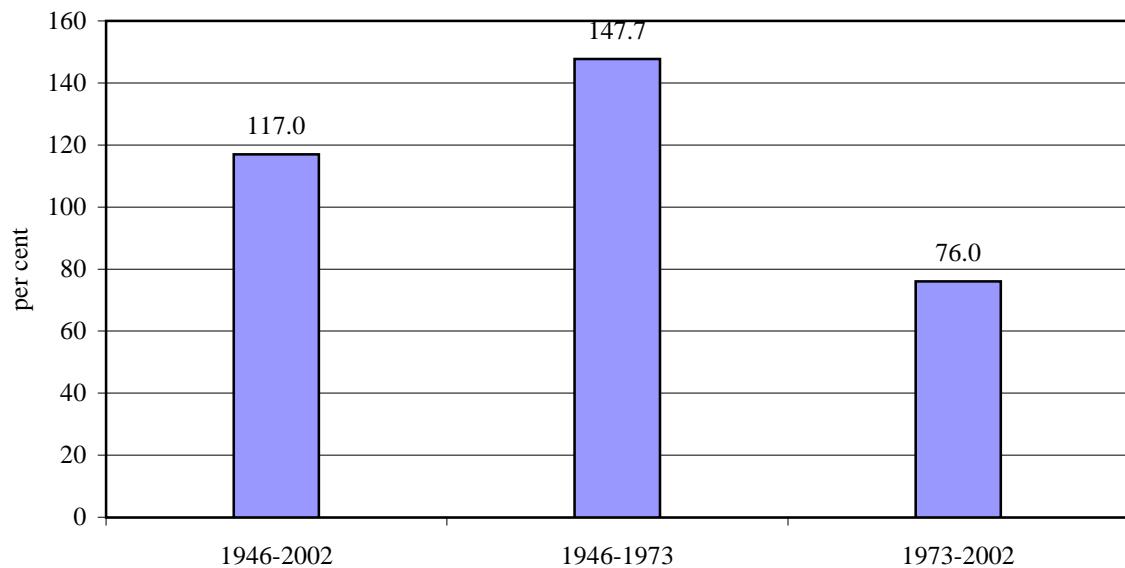
Notes: Data in the US refers to union coverage. Data in Canada for 1976-1995 refers to unionized workers, for 1997-2002, it refers to union coverage. Canadian data is based on CALURA for 1976-2002, and on LFS for 1997-2002.

**Chart 1: Contribution of GDP per Hour Worked Growth to Economic Growth in Canada, 1946-2002, Selected Periods
(productivity growth as a proportion of GDP growth)**



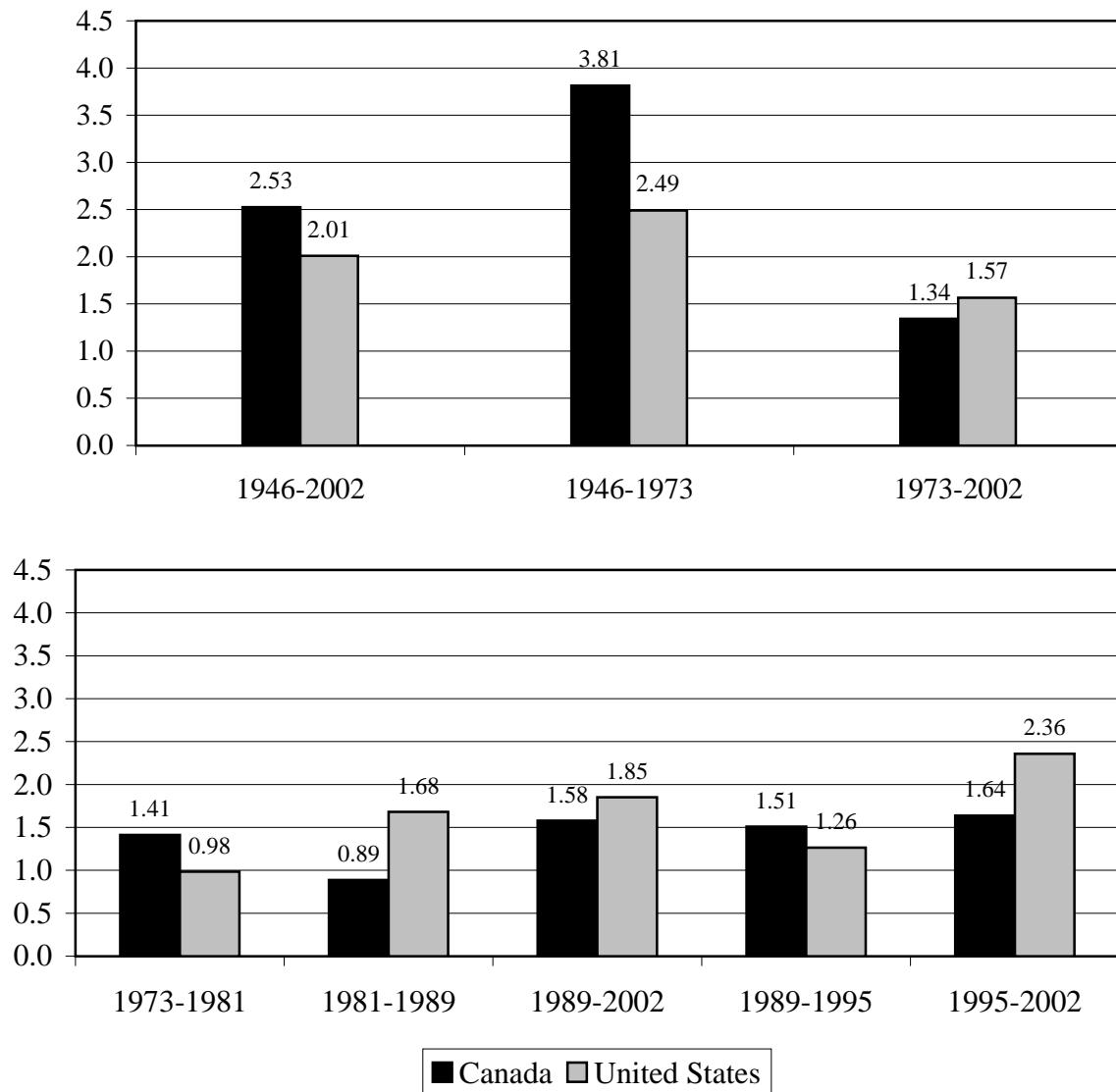
Source: Tables 1 and 3

**Chart 2: Contribution of GDP per Hour Growth to Growth in
GDP per Capita in Canada, 1946-2002, Selected Periods
(productivity growth as a proportion of GDP per capita growth)**



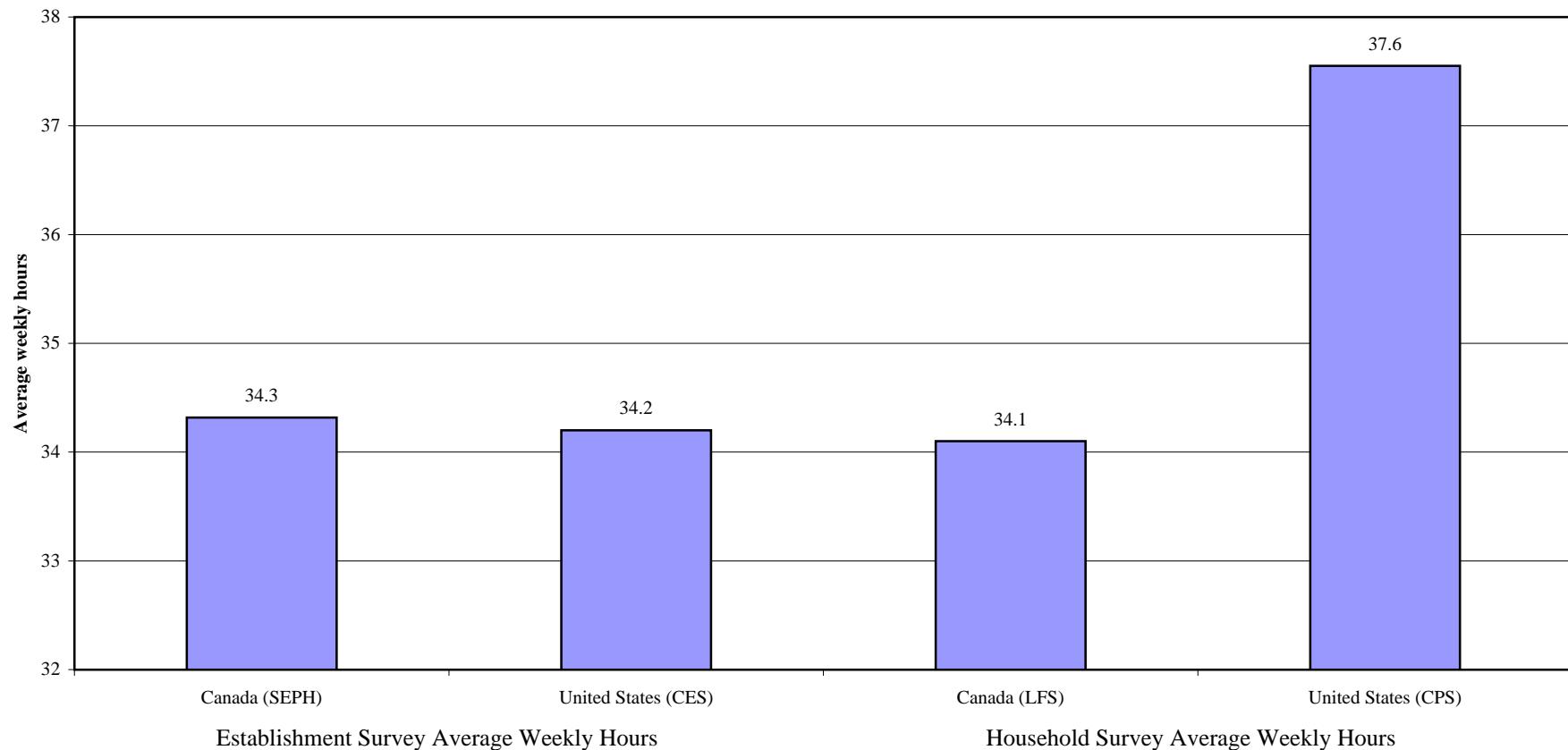
Source: Tables 1 and 3

Chart 3: Real GDP per Hour Worked in Canada and the United States
(Average annual rate of change)



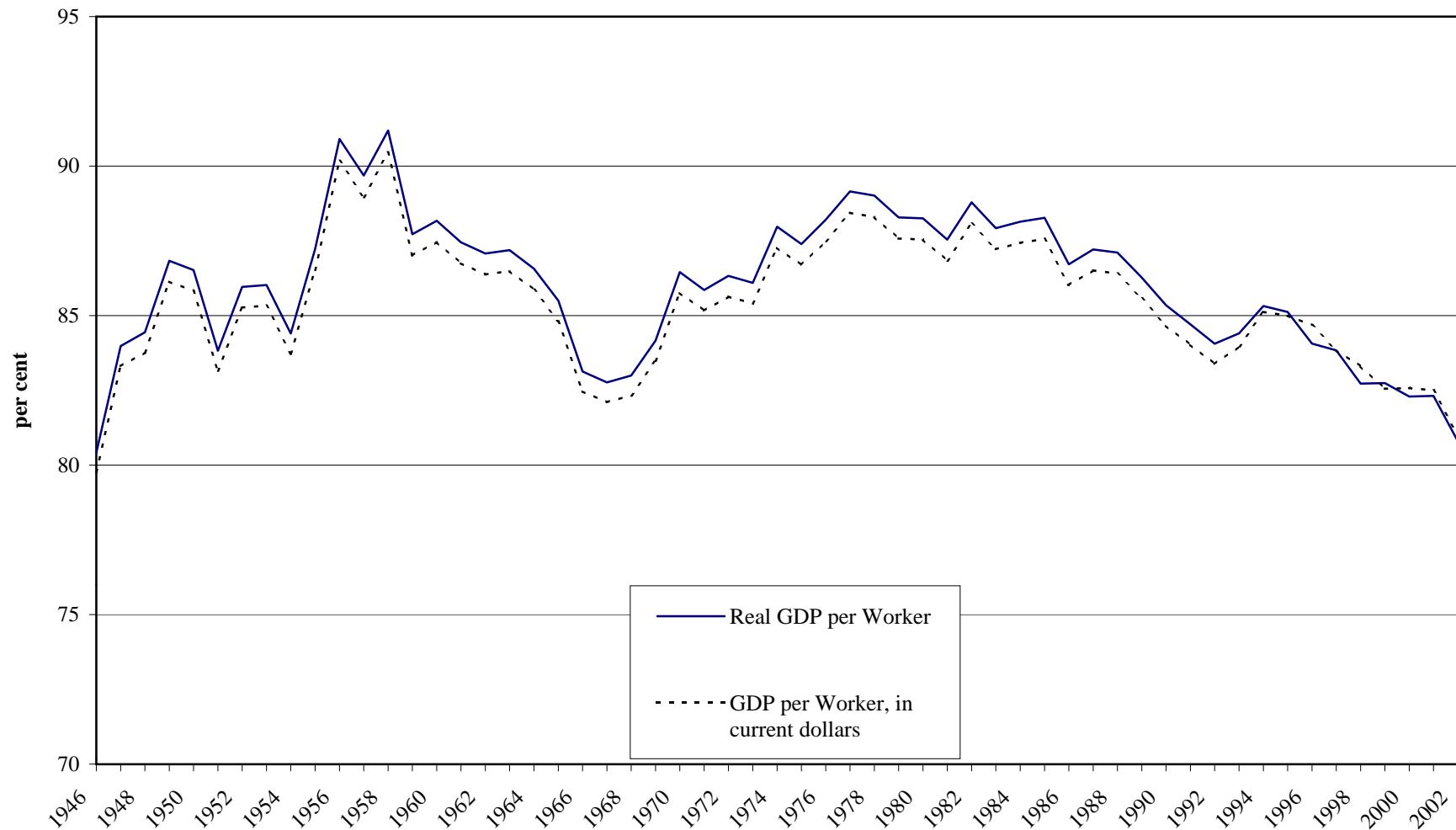
Source: Tables 3 and 4

**Chart 4: Average Weekly Hours in Canada and the United States,
Establishment and Household Surveys, 2002**



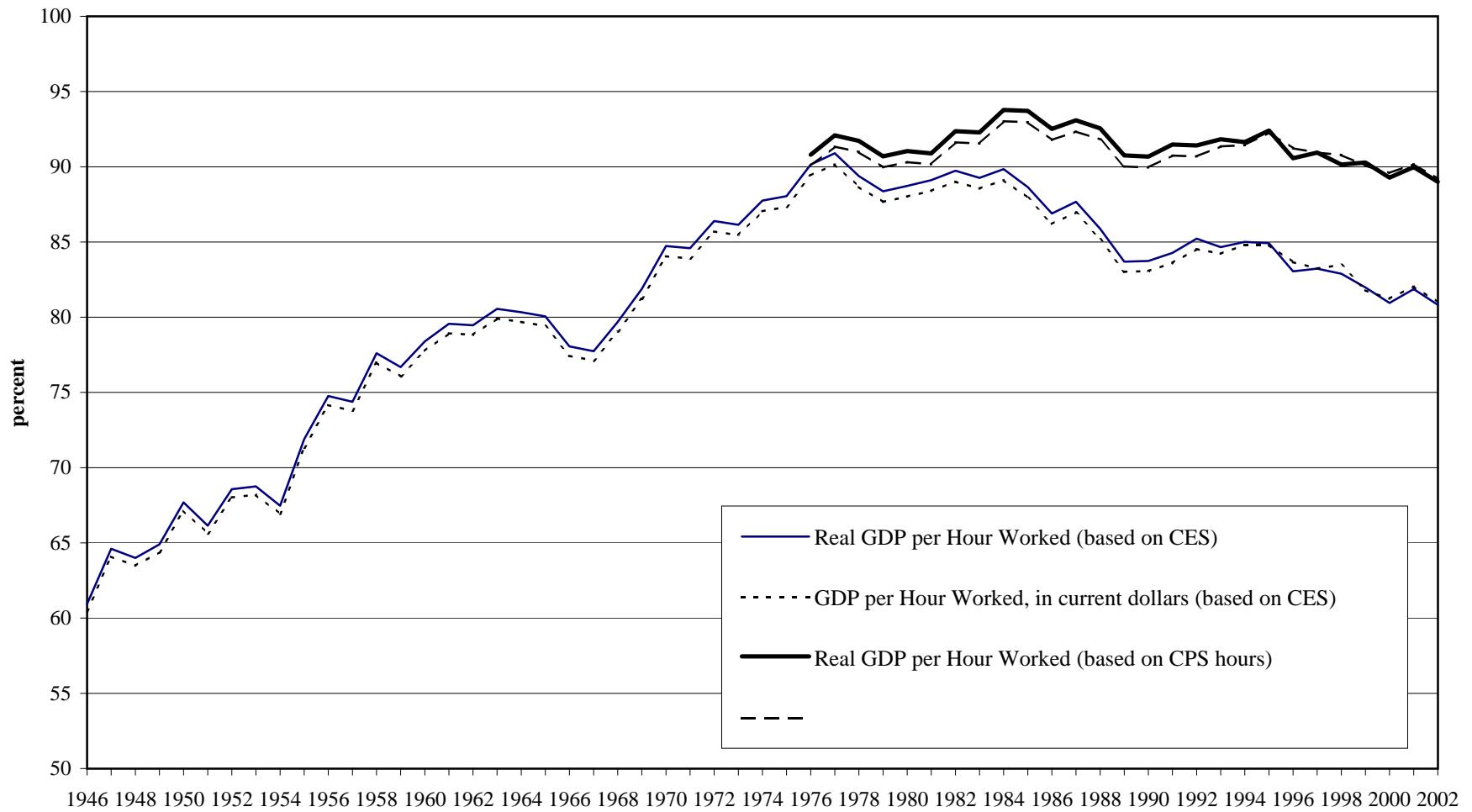
Source: Canada: SEPH estimates: CANSIM II Tables 281-0024, 281-0033 and 281-0038, on January 14, 2003. LFS estimates: Statistics Canada, CANSIM II series v2634367. United States: CES estimates: series EEU00500005(n) from Bureau of Labour Statistics website: www.bls.gov, on January 14, 2003. CPS estimates: series LFU123000000 from Bureau of Labour Statistics website: www.bls.gov, on January 14, 2003. Notes: The SEPH series is an average of average weekly hours for salaried employees and employees paid by the hour, weighted according to the respective employment.

Chart 5: GDP per Worker Levels, Canada as a Percent of the United States, 1946-2002



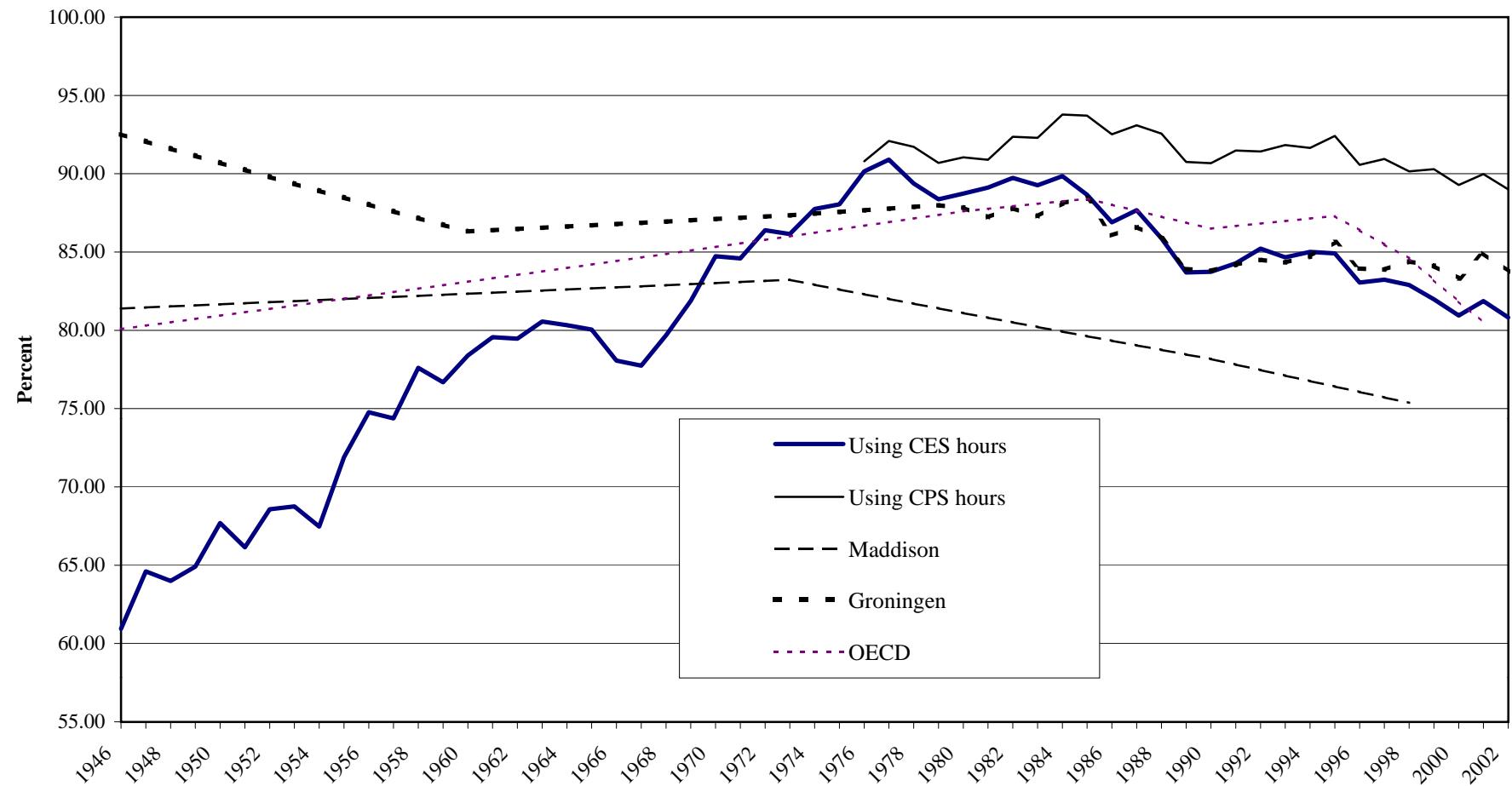
Source: Table 7

Chart 6: GDP per Hour Worked Levels, Canada as a Percent of the United States, 1946-2002



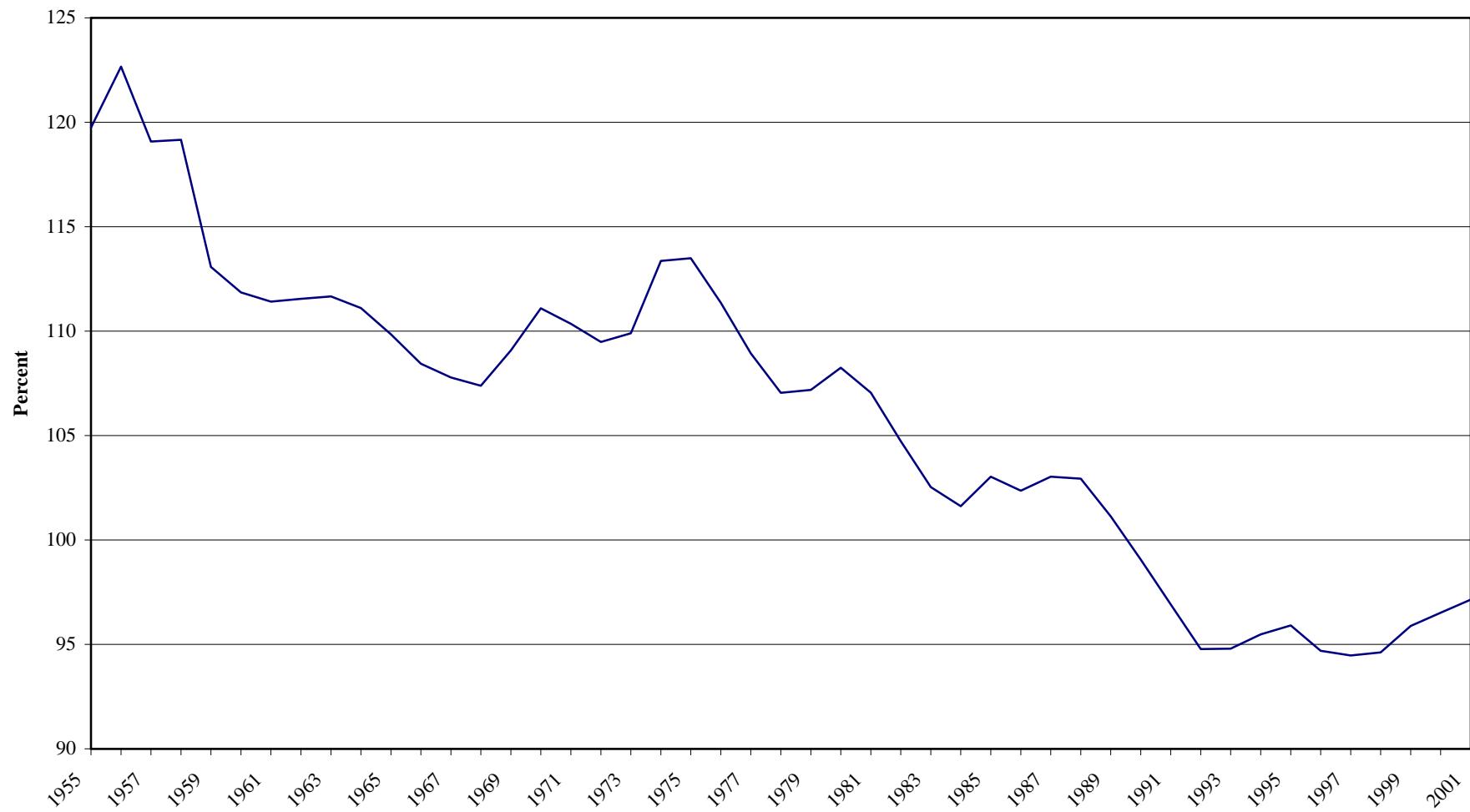
Source: Table 7

**Chart 7: Trends in Real GDP per Hour, Canada as a Percentage of the United States, Various Sources,
1946-2002**



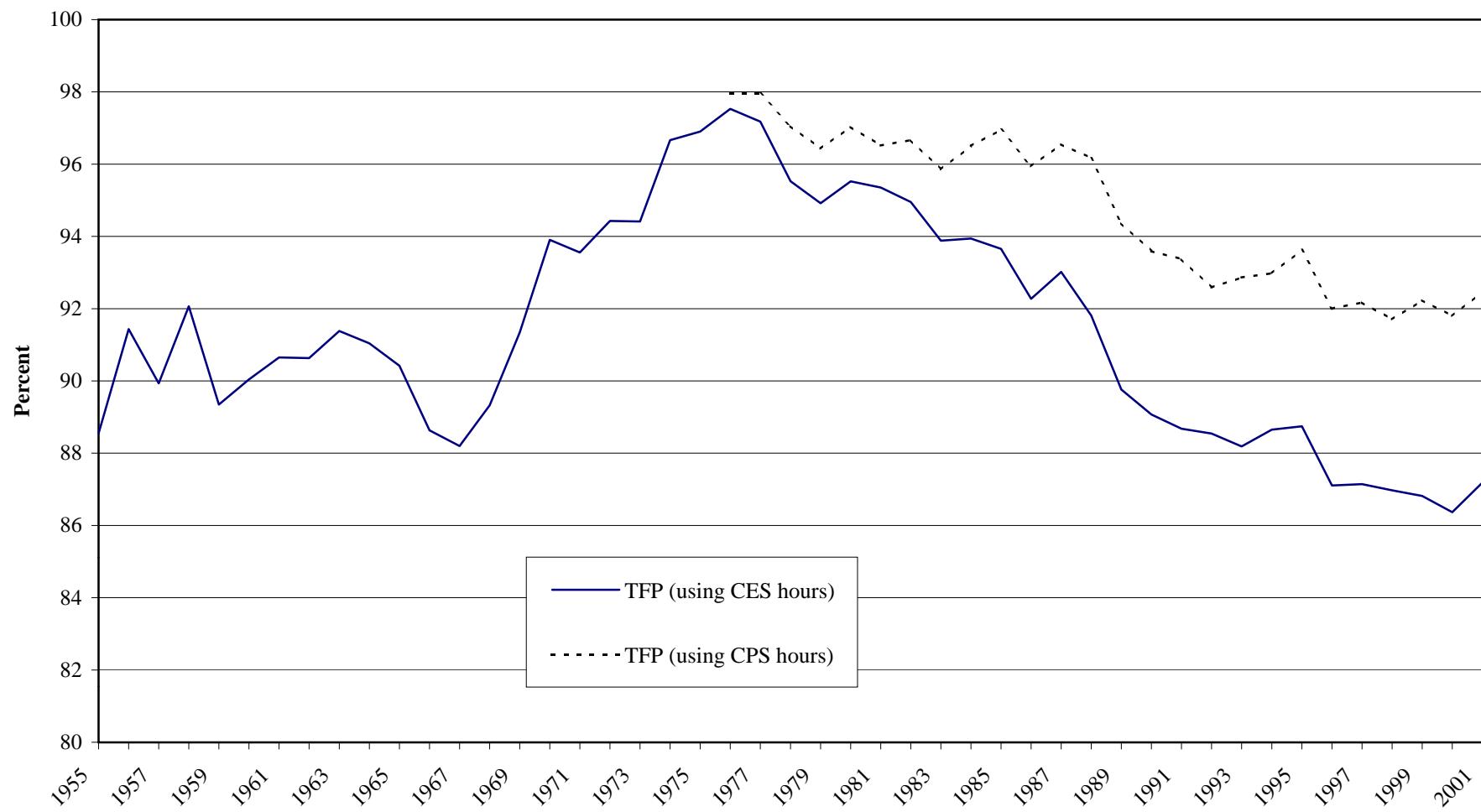
Sources: Table 7, Appendix Tables 3 and 4. Note: Trends for the Maddison, Groningen and OECD series were obtained by linear interpolation.

**Chart 8: Relative Capital Productivity Levels, Canada as a Percentage of the United States,
1955-2001**



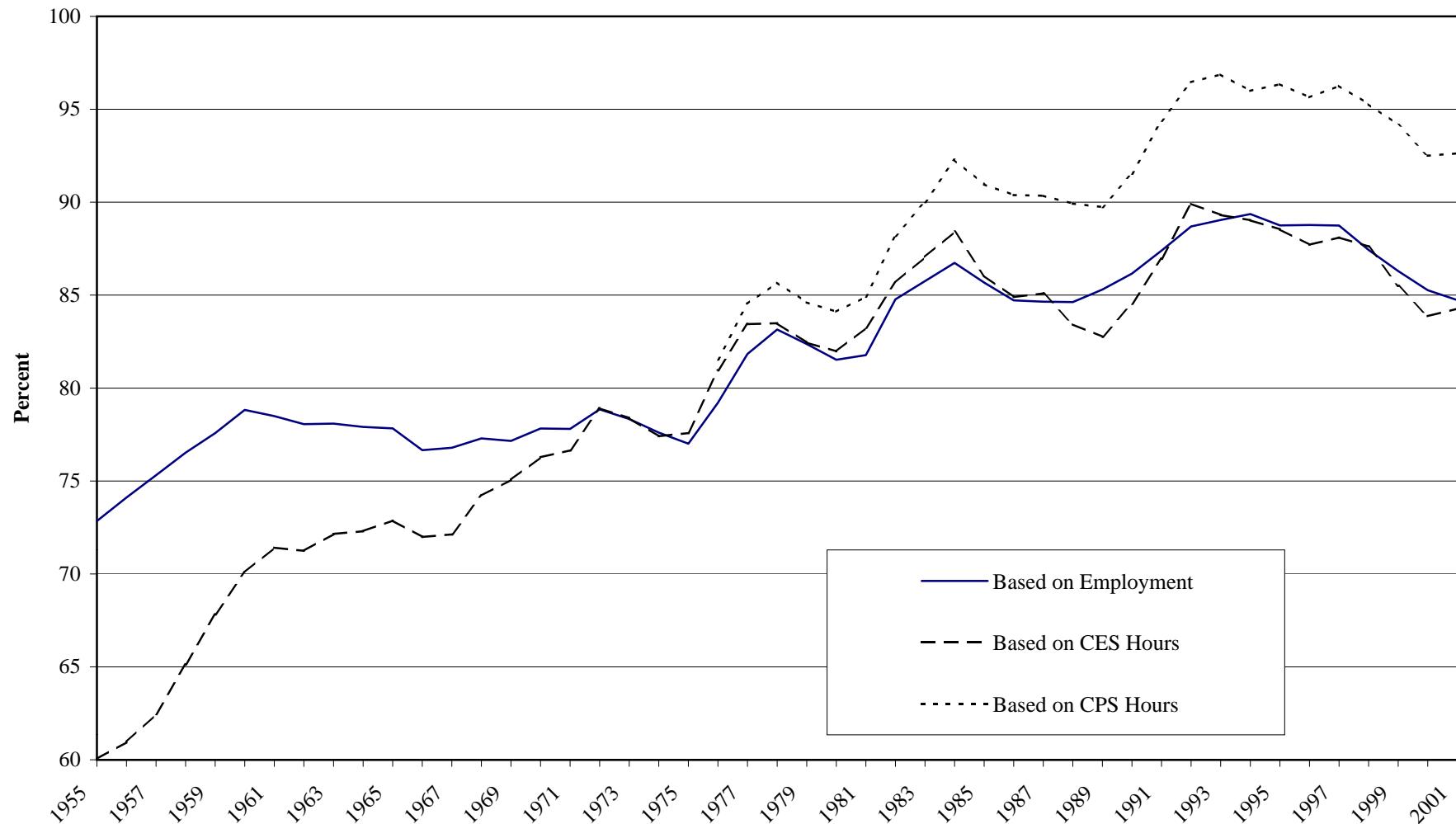
Source: Table 8

**Chart 9: Relative Total Factor Productivity Levels, Canada as a Percentage of the United States,
1955-2001**



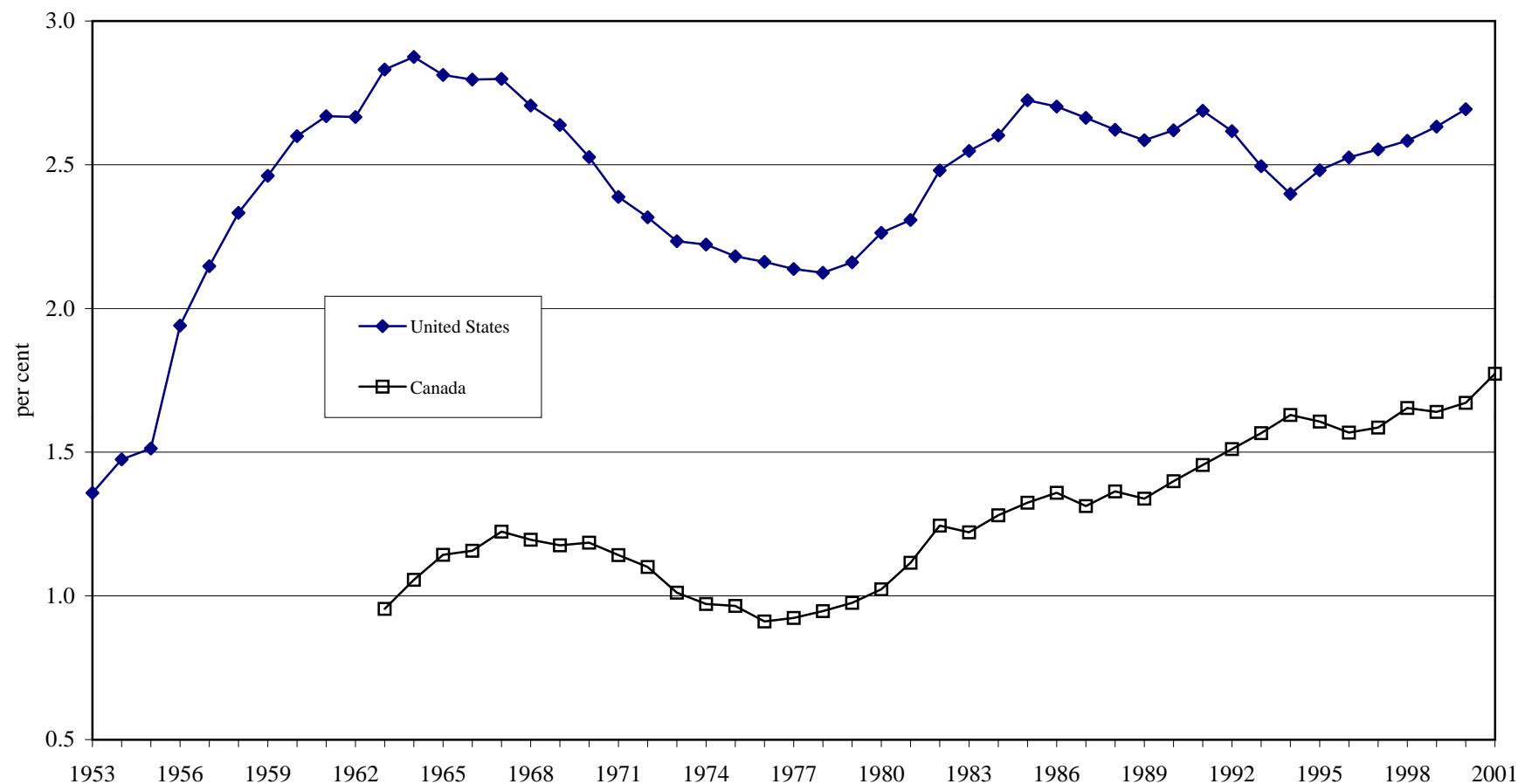
Source: Table 9 and 10

**Chart 10: Relative Capital Labour Ratio Levels, Canada as a Percentage of the United States,
1955-2001**



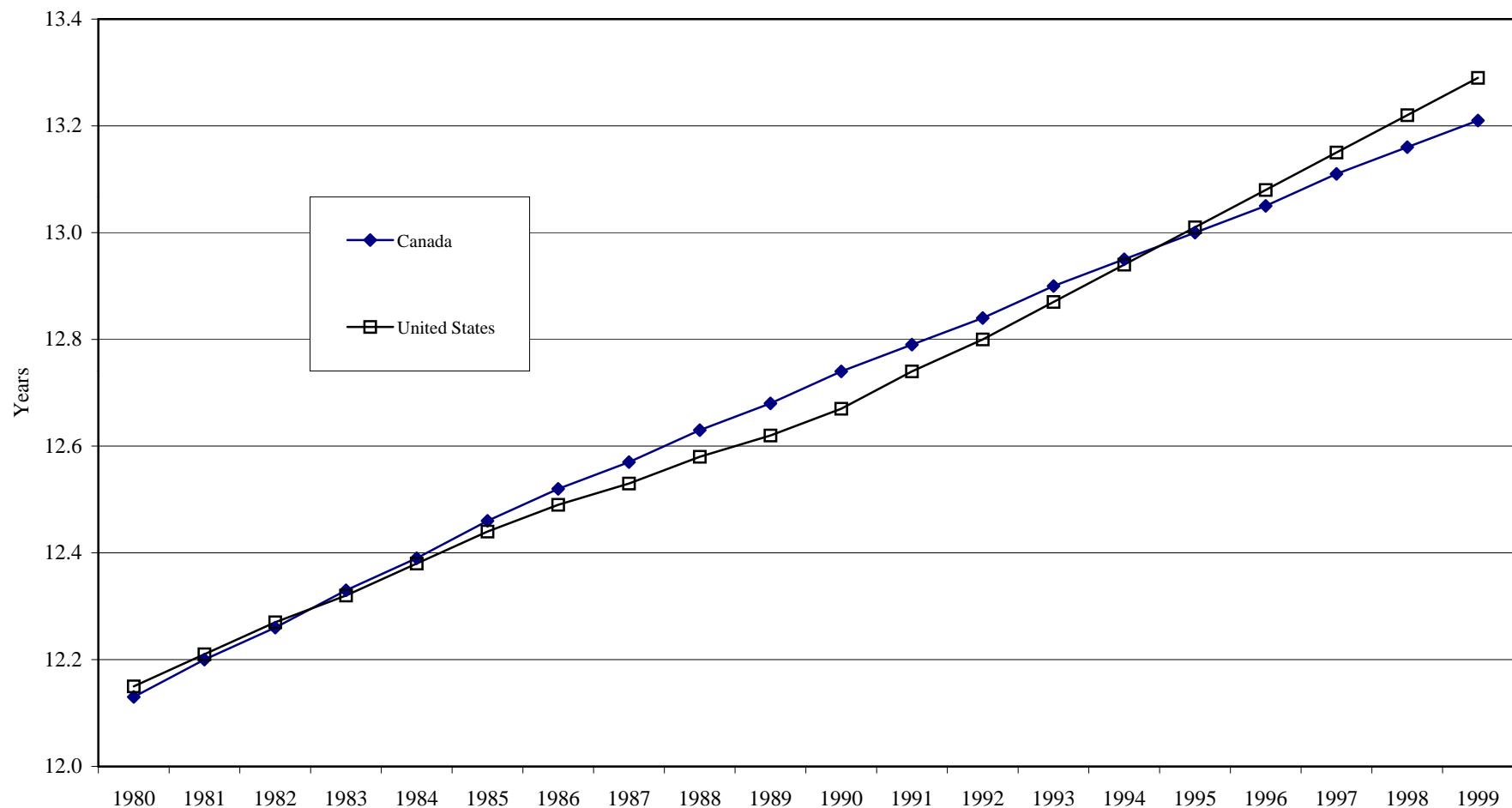
Source: Table 13 and 14

Chart 11: Research and Development Expenditure as a Share of GDP in Canada and the United States, 1993-2000



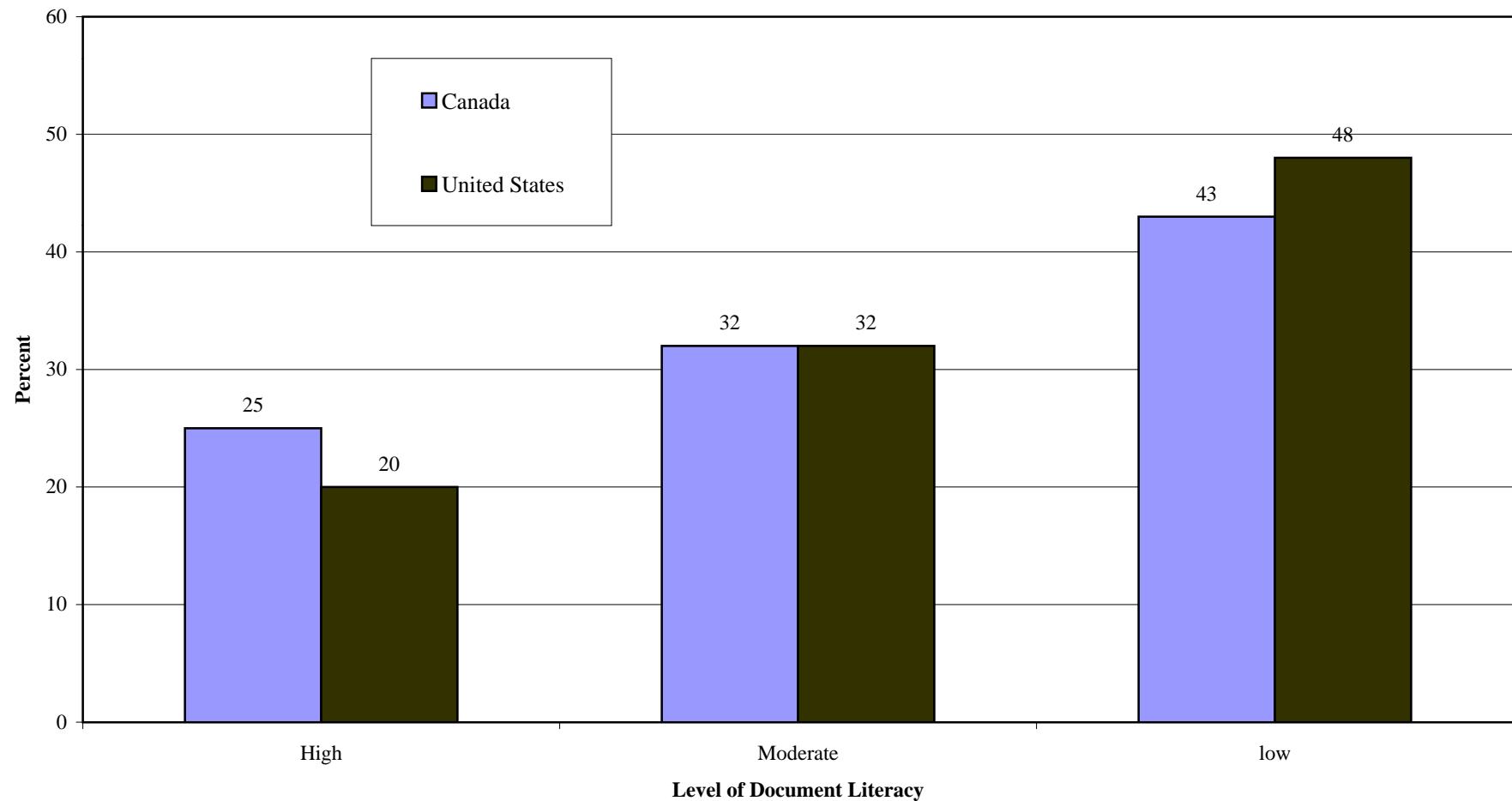
Source: United States: R&D data: National Science Foundation. *National Patterns of Research and Development Resources, 2000 Data update (NSF 01-309)*, Table D. Available online at www.nsf.gov/sbe/srs/nprdr/start.htm, January 23, 2002. Nominal GDP data: NIPA Tables, Canada: CANSIM II Table 358-0001 for R&D data and 379-0024 for Nominal GDP, January 21, 2003. www.bea.gov, January 17, 2003.

**Chart 12: Human Capital in Canada and the United States, Average Years of Schooling
in the Population, 1980-1999**



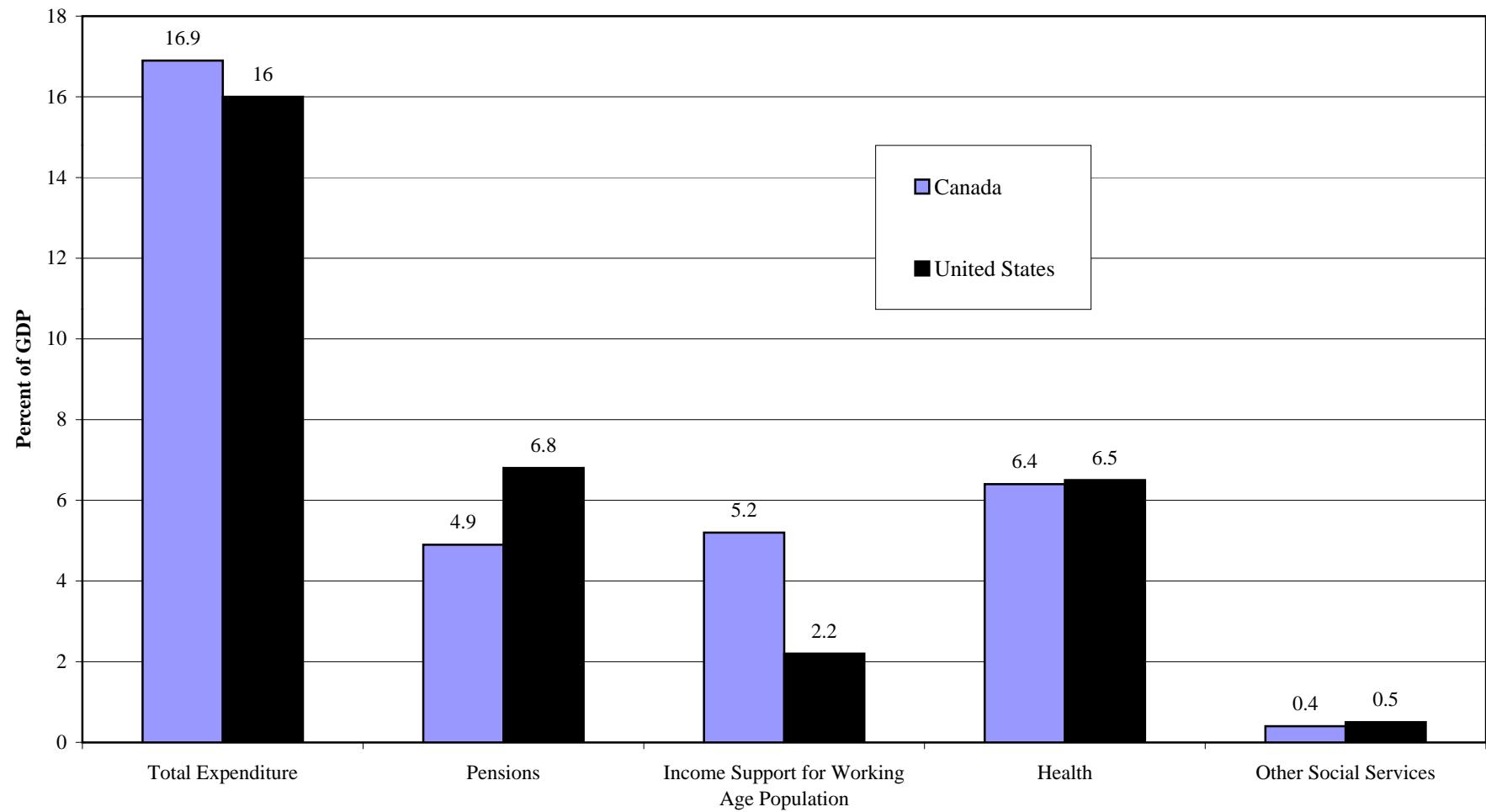
Source: Average years of schooling for 1980, 1985, 1990 and 1995 from De la Fuente, A. and R. Domenech, "Attainment Levels in OECD Countries" v. 2.0, January 2001. Available at [http://www.oecd-ilibrary.org](#)

Chart 13: Adult Population by Level of Document Literacy, Canada and United States, 1998



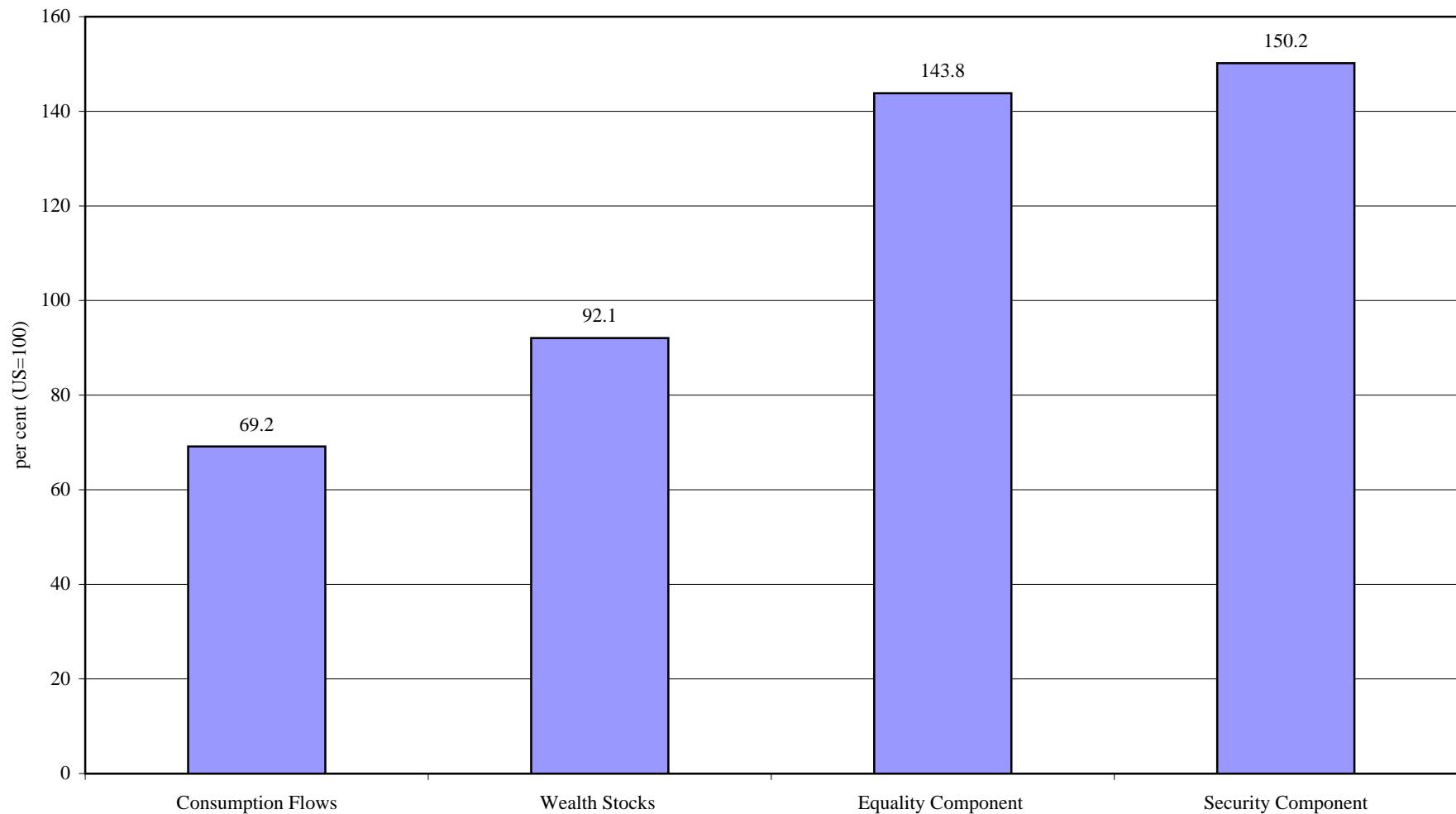
Source: OECD. *Society at a Glance, OECD Social Indicators 2001*. OECD, 2001, pp 57. Data is based on Industrial Adult Literacy Survey.

Chart 14: Public Social Expenditure by Broad Social Policy Area, Canada and United States, 1997



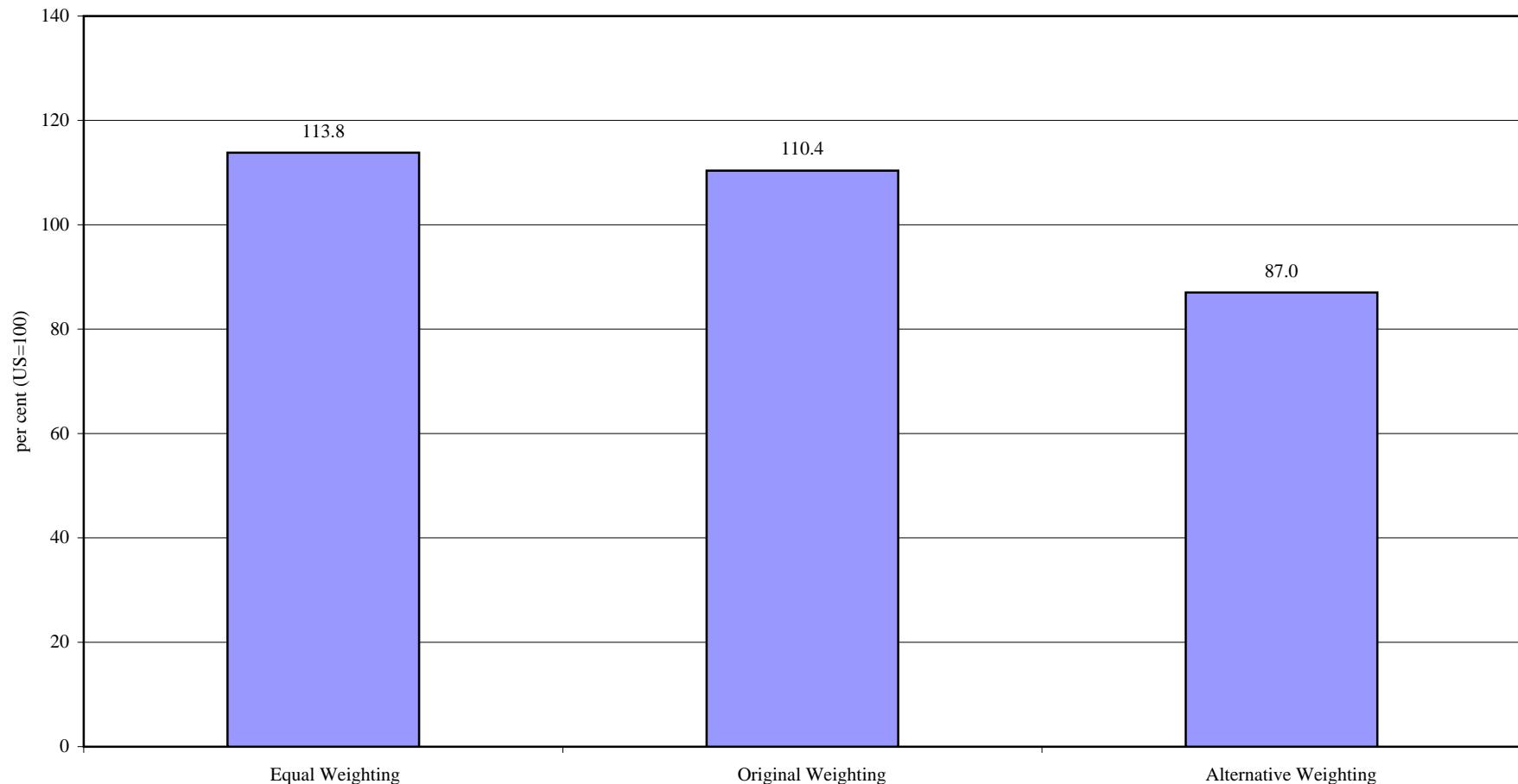
Source: OECD. Society at a Glance, OECD Social Indicators 2001. OECD, 2001, pp 73

**Chart 15: Levels of Economic Well-Being in Canada as a Percentage of the United States
(US=100), 1999**



Source: Osberg, Lars and Andrew Sharpe. The Index of Economic Well being. *Indicators, The Journal of Social Health*, Spring 2002, vol.1, no. 2, pp. 24-62

Chart 16: Overall Well-Being Indexes, Canada as a Percentage of the United States (US=100), 1999



Source: Osberg, Lars and Andrew Sharpe. The Index of Economic Well being. *Indicators, The Journal of Social Health*, Spring 2002, vol.1, no. 2, pp. 24-62.

Note; Equal weighting means that each component of the index has a 0.25 weight. Original weighting means that the Consumption Flows component has a 0.4 weight, the Wealth Stocks component has a 0.1 weight, the Equality component has a 0.25 weight, and the Security component has a 0.25 weight. Alternative weighting means that the Consumption flows component has a 0.7 weight, the Wealth Stocks component has a 0.1 weight, the Equality component has a 0.1 weight, and the Security component has a 0.1 weight.