



Technical Report

**Statistical Handbook
for Canada's Upstream Petroleum
Industry**

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Statistical Handbook

The Canadian Association of Petroleum Producers' (CAPP) Statistical Handbook was initiated by the Canadian Petroleum Association (CPA) in 1955 as a compilation of key data on major economic sectors of the petroleum industry. All information contained is the latest data available.

The CAPP Statistical Handbook presents a historical summary of the petroleum industry's progress, summarizing detailed statistical information concisely in one publication. Additional data will be developed annually to retain the value of the handbook as an up-to-date reference source.

CAPP appreciates the assistance and cooperation provided by the government, statistical agencies, petroleum publications and CAPP member companies in assembling the data.

The Canadian Association of Petroleum Producers (CAPP) represents 130 companies that explore for, develop and produce natural gas, natural gas liquids, crude oil, oil sands, and elemental sulphur throughout Canada. CAPP member companies produce more than 90 per cent of Canada's natural gas and crude oil. CAPP also has 150 associate members that provide a wide range of services that support the upstream crude oil and natural gas industry. Together, these members and associate members are an important part of a \$120-billion-a-year national industry that affects the livelihoods of more than half a million Canadians.

Disclaimer

The Canadian Association of Petroleum Producers produces its online Statistical Handbook as a convenience to its members. The Statistical Handbook is also made available to organizations and others with an interest in the Canadian upstream sector. The contents of the Statistical Handbook are derived from a number of public and industry sources. Some industry data is obtained by survey.

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Metric Conversion Factors

In accordance with the Canadian petroleum industry's SI (metric) conversion program, the data in the *Statistical Handbook* is reported in SI units. The following conversion factors have been applied to historical data:

See Supplementary Metric Practice Guide

<http://www.capp.ca/library/publications/industryOperations/pages/pubInfo.aspx?DocId=67101>

Imperial Measurement	Metric Equivalent	Metric
1 foot	= 0.304 8 m	metres
1 mile	= 1.609 344 km	kilometres
1 acre	= 0.404 685 6 ha	hectares
1 atmosphere	= 101.325 kPa	kilopascals
1 cubic foot of natural gas at 14.65 psia and 60°F	= 0.028 173 99 m ³ at 101.325 kPa and 15°C	cubic metres kilopascals, Celsius
1 Canadian barrel of oil, condensate or pentanes plus at 60°F	= 0.158 91 m ³ at 15°C	cubic metres Celsius
1 Canadian barrel of propane at 60°F	= 0.158 73 m ³ at 15°C	cubic metres
1 Canadian barrel of butane at 60°F	= 0.158 81 m ³ at 15°C	cubic metres Celsius
1 Canadian barrel of ethane at 60°F	= 0.157 976 m ³ at 15°C	cubic metres Celsius
1 Canadian barrel of natural gas liquids at 60°F	= 0.158 8 m ³ at 15°C	cubic metres Celsius
1 Canadian gallon	= 4.546 09 L	litres
1 long ton (2240 pounds)	= 1.016 047 t	tonnes

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Section 1

Land, Exploration, Drilling

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2019 CROWN LAND SALES
WESTERN CANADA AND CANADA LANDS

	Hectares	Bonus Paid (\$)
ALBERTA:		
Leases	356 739	52 296 904
Exploration Licenses	460 693	66 973 284
Oil Sands	109 657	11 774 327
TOTAL PROVINCIAL SALES	927 089	131 044 515
Indian Lands	0	0
Metis Lands	0	0
TOTAL 2019	927 089	131 044 515
TOTAL 2018	1 385 836	411 378 236
BRITISH COLUMBIA:		
Leases	10 880	5 207 412
Petroleum & Natural Gas Permits	0	0
Drilling Licenses	9 180	9 535 009
TOTAL PROVINCIAL SALES	20 060	14 742 421
Federal Lands	0	0
TOTAL 2019	20 060	14 742 421
TOTAL 2018	69 980	64 128 975
MANITOBA:		
Leases	4 277	606 340
Reservations	0	0
TOTAL PROVINCIAL SALES	4 277	606 340
Indian Lands	0	0
Federal Lands	0	0
TOTAL 2019	4 277	606 340
TOTAL 2018	5 514	828 576
SASKATCHEWAN:		
Leases	40 565	18 311 217
Petroleum & Natural Gas Permits	0	0
Drilling Reservations	9 543	7 045 863
TOTAL PROVINCIAL SALES	50 108	25 357 081
Indian Lands	0	0
Federal Lands	0	0
TOTAL 2019	50 108	25 357 081
TOTAL 2018	89 552	50 711 689
TOTAL:		
TOTAL 2019	1 001 534	171 750 357
TOTAL 2018	1 550 882	527 047 476

CROWN LAND SALES WESTERN CANADA AND CANADA LANDS
1955-2019

Work Bonus Bids																			
British Columbia		Alberta Conventional		Alberta Oil Sands		Saskatchewan		Manitoba		Indian/Federal		Total West. Canada		Terr./Arctic		Off. Nova Scotia		Off. Nfld.	
Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$	Hectares	Thou. \$
1955	502 429	613	1 426 848	63 585		680 051	1 429	40 777	582	67 130	1 137	2 717 235	67 345	111 379	5				
1956	597 398	1 614	1 288 635	74 899		886 928	9 813	259 439	149	124 184	952	3 156 584	87 428	1 678 578	502				
1957	504 530	1 343	2 557 177	69 647		2 663 050	16 484	53 367	102	138 709	980	5 916 833	88 557	946 898	654				
1958	1 152 683	4 510	3 210 574	51 544		1 889 169	7 436	17 686	2	39 220	84	6 309 332	63 576	1 646 117	765				
1959	506 277	10 991	3 725 209	73 430		955 069	3 509	4 850	8	92 766	448	5 284 171	88 387	1 548 689	7 959				
1960	296 794	6 187	3 165 306	55 740		1 058 434	2 080	65	4	17 639	212	4 538 238	64 222	1 692 208	2 447				
1961	278 932	7 642	3 578 026	45 517		1 163 268	1 310	50 699	134	97 484	248	5 168 409	54 851	710 468	829				
1962	317 681	11 365	3 295 154	41 626		2 132 093	3 742	7 721	26	28 861	119	5 781 510	56 878	719 345	704				
1963	204 584	7 092	3 625 860	54 588		1 146 301	5 292	8 675	33	30 055	368	5 015 475	67 373	554 621	717				
1964	370 794	13 049	4 050 062			2 132 680	8 304	14 737	110	99 914	911	6 668 187	22 373	162 090	98				
1965	676 096	18 161	3 287 064	139 428		2 661 848	11 312	96 827	93	346 223	2 668	7 068 058	171 662	574 647	909				
1966	511 480	15 839	3 211 734	113 864		3 251 742	7 108	47 652	87	114 094	815	7 136 702	137 714	1 192 759	5 080				
1967	911 677	14 298	3 609 515	101 664		3 346 684	9 337	52 162	79	168 885	1 090	8 088 923	126 467	453 209	501				
1968	835 427	15 077	3 259 498	106 474		1 548 242	5 148	49 619	54	98 698	499	5 791 484	127 252	1 289 647	3 174				
1969	1 085 092	21 691	3 121 646	119 044		1 942 879	6 011	17 416	82	33 848	370	6 200 881	147 199	592 926	3 715				
1970	805 094	16 340	2 640 081	36 621		1 766 975	3 820			58 472	355	5 270 622	57 136						
1971	958 187	22 186	4 928 307	47 149		1 180 043	2 473	1 230	34	23 222	746	7 090 989	72 589						
1972	1 165 191	20 496	4 445 324	52 524		1 769 100	4 691			158 033	1 203	7 537 648	78 914						
1973	720 424	17 776	3 273 933	76 086		708 648	5 208			15 745	230	4 718 750	99 300						
1974	820 788	22 955	1 797 868	84 107		479 927	3 968			1 020	37	3 099 603	111 068						
1975	478 052	12 749	2 025 379	105 991								2 503 431	118 740						
1976	981 687	43 226	1 832 739	160 154		537 163	9 066			2 703	42	3 354 292	212 488						
1977	945 351	125 468	2 092 194	579 755		170 565	10 751			3 015	547	3 211 125	716 520						
1978	698 737	177 458	1 595 835	603 242		134 283	22 620			98 644	11 462	2 527 499	814 782						
1979	2 456 477	191 042	2 038 527	996 744		150 772	37 156	15 800	939	67 115	30 298	4 728 691	1 256 178						
1980	441 297	181 267	2 473 684	1 004 883		269 265	77 637	28 112	1 878	71 631	26 976	3 283 989	1 292 640						
1981	598 233	60 776	1 581 237	588 497		124 908	37 325	19 161	1 686	827	180	2 324 366	688 465						
1982	166 441	16 724	1 111 783	333 961		123 967	34 122	6 448	1 056	2 674	503	1 411 313	386 366						
1983	141 148	26 014	1 214 041	429 477		240 961	108 350	10 279	1 072	9 536	1 643	1 615 965	566 556						
1984	237 085	61 754	1 870 963	624 164		434 104	123 676	8 776	2 181	12 438	3 931	2 563 366	815 707						
1985	391 139	87 768	2 740 802	796 176		717 404	148 588	15 471	4 215			3 864 816	1 036 747						
1986	217 695	28 641	1 889 779	250 891		165 834	18 195	8 672	912			2 291 980	298 638	1 525 436 (1)					
1987	259 594	44 187	2 274 942	687 389		406 072	59 945	5 813	577	3 513	1 323	2 949 934	793 421	404 686 (1)					
1988	515 537	99 972	2 630 286	521 015		553 585	34 954	5 541	433	13 675	3 047	3 718 624	659 421	113 686 (1)				43 686	44 730
1989	403 807	88 284	2 263 664	359 877		941 973	36 289	2 832	232	8 832	946	3 621 108	485 627	365 648 (1)				265 000	49 710
1990	529 875	130 622	2 410 126	434 975		657 850	32 565	5 616	162	52 720	2 069	3 656 187	600 393	1 884 435 not avail.	24 948	2 600	1 748 695	11 470	
1991	349 392	59 710	2 217 421	307 079		208 544	16 402	1 920	124	1 544	264	2 778 821	383 580	695 860 not avail.				520 772	7 320
1992	245 320	39 613	1 714 929	148 448	50 669	4 162	175 949	13 622	4 960	121		2 191 827	205 966						
1993	514 621	143 450	2 969 132	503 712		595 609	83 676	22 018	884			4 101 380	731 723					55 500	1 000
1994	737 918	208 019	4 671 996	997 134	66 883	7 455	1 557 114	199 742	20 900	1 195		7 054 811	1 413 545	150 267	22 681			77 330	2 850
1995	714 765	130 611	4 269 302	634 734	99 168	22 521	604 230	65 679	23 181	2 545	55 501	2 633	5 766 147	858 722	163 889	4 365	74 206	86 400	31 924
1996	564 624	128 008	4 566 956	725 614	115 812	43 103	1 046 244	122 195	12 131	1 692	100 601	4 072	6 406 368	1 024 684	520 344	29 660	12 996	2 300	909 723
1997	735 979	216 775	4 783 512	969 978	366 329	183 287	933 862	131 002	49 967	5 695			6 869 649	1 506 737	577 018	35 153	1 133 850	94 200	618 621
1998	482 831	96 343	2 838 182	581 964	176 454	14 998	403 055	54 029	4 220	308			3 904 742	747 642				2 401 952	175 330
1999	730 553	176 169	2 796 398	528 977	199 766	64 418	398 240	45 672	4 058	395			4 129 015	815 631	293 451	183 219		61 200	818 472
2000	692 894	248 240	3 663 472	1 002 535	186 992	139 495	283 173	48 334	5 173	473			4 831 704	1 439 077	1 472 718	523 971	1 253 661	191 759	1 605 497
2001	854 201	439 467	3 673 644	1 003 126	234 525	82 684	372 648	56 208	21 631	885			5 156 649	1 582 370	423 972	20 294	1 579 970	527 188	1 196 598
2002	848 917	288 466	2 607 258	476 516	168 576	24 942	653 010	102 915	2 720	212			4 280 481	893 051	47 102	14 300			
2003	733 487	646 679	3 085 727	887 040	64 351	17 771	1 064 439	158 744	4 416	294			4 952 420	1 710 528	79 668	1 108	150 094	14 107	2 124 990
2004	540 427	232 379	2 823 964	1 023 337	299 198	83 453	434 228	80 776	15 349	1 288			4 113 166	1 421 233	291 513	124 883			270 256
2005	579 402	533 986	2 888 212	1 827 239	355 308	433 093	483 605	134 414	68 239	5 773			4 374 766	2 934 505	446 093	58 126			300 044
2006	690 744	629 849	2 692 911	1 471 853	1 542 473	1 963 042	454 711	176 500	12 778	2 190			5 393 617	4 243 434	673 220	122 421			604 647
2007	595 559	1 047 108	1 871 920	710 686	1 134 481	649 728	405 308	250 326	9 530	384			4 016 798	2 658 232	727 541	613 443			991 458
2008	756 752	2 662 394	2																

CROWN LAND SALES WESTERN CANADA AND CANADA LANDS
1955-2019

														<i>Work Bonus Bids</i>					
British Columbia		Alberta Conventional		Alberta Oil Sands		Saskatchewan		Manitoba		Indian/Federal		Total West. Canada		Terr./Arctic		Off. Nova Scotia		Off. Nfld.	
	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares	Hectares		
2016	96 617	15 190	936 776	136 783	44 153	11 780	111 740	53 493	2 981	262		1 192 267	217 509			1 526 482	757 990		
2017	79 238	173 253	1 253 981	504 605	230 086	51 788	200 967	62 832	7 480	1 456		1 771 752	793 934			121 453	15 099		
2018	69 980	64 129	1 360 549	405 027	25 288	6 351	89 552	50 712	5 514	829		1 550 883	527 047			1 098 470	1 386 274		
2019	20 060	14 742	817 432	119 270	109 657	11 774	50 108	25 357	4 277	606		1 001 534	171 750			427 975	38 608		

(1) Work bonus bids - excluded from total.

DRILLING CLASSIFICATIONS - CANADA

The following classifications are used by the Canadian Committee on Statistics of Drilling. These classes were designed to permit a test to be characterized by the general degree of risk assumed by the operator. There are five exploratory classes, of which the class "new field wildcat" represent the highest level of risk. A well classed as "development" is lower in risk than any of the exploratory wells.

New Field Wildcat: A test located on a structural feature or other type of trap which has not previously produced oil or gas. In regions where local geological conditions have little or no control over accumulations, these tests are generally at least three kilometres from the nearest productive area. Distance, however, is not the determining factor. Of greater importance is the degree of risk assumed by the operator and his intention to test a structure or stratigraphic condition not previously proved productive.

New Pool Wildcat: A test located to explore for a new pool on a structural feature or other type of trap already producing oil or gas, but outside the known limits of the presently producing area. In some regions where local geological conditions exert an almost negligible control, exploratory holes of this type may be called "near wildcats". Such wells will usually be less than three kilometres from the nearest productive area.

Deeper Pool Test: An exploratory hole located within the productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest productive pool in order to explore for deeper unknown prospects. All metres drilled are assigned to the exploratory category. This practise was adopted commencing with the 1979 data. Previously, metres drilled were split between the exploratory and development category.

Shallower Pool Test: An exploratory test drilled in search of a new productive reservoir, unknown but possibly suspected from data secured from other wells, and shallower than known productive pools. This test is located within the productive area of a pool or pools previously developed.

Outposts: A test located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive site.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive. If the well is completed for production, it is classified as an oil or gas development well. If the well is not completed for production and is abandoned, it is classified as a dry development hole.

Bitumen Wells: A well drilled within a designated oil sands area or like deposit for the purpose of producing raw bitumen from the deposit. Such wells may be drilled for pilot, experimental or commercial projects.

Stratigraphic Test: A drilling effort, geologically directed, to obtain information pertaining to a specific geological condition that might lead toward the discovery of an accumulation of hydrocarbons. Such tests are customarily drilled without the intention of being completed for hydrocarbon production. This classification also includes tests identified as core tests and all types of expendable holes related to hydrocarbon exploration.

Service Well: A well drilled or completed for the purpose of supporting production in an existing field. Wells of this class are drilled for the following specific purposes: gas injection (natural gas, propane, butane), water injection, air injection, steam injection, salt water disposal, water supply for injection, observation, etc.

Miscellaneous Wells: Includes storage wells (natural gas, propane, butane), salt brine wells and other wells not classified under categories.

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2018 DRILLING ACTIVITY

2018 DRILLING ACTIVITY

	OIL	GAS	TOTAL PRODUCERS		ABANDONED		SUSPENDED		TOTAL	
MANITOBA										
New Field Wildcats	1	1 181		1	1 181	3	1 936		4	3 117
New Pool Wildcats	1	1 496		1	1 496				1	1 496
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests	2	2 677		2	2 677	3	1 936		5	4 613
Stratigraphic Tests										
Development Wells	271	553 784		271	553 784				271	553 784
Bitumen Wells										
Service & Misc Wells									1	1 092
Total Completions	273	556 461		273	556 461	3	1 936		277	559 489
WESTERN CANADA										
New Field Wildcats	2	3 854	4	14 501	6	18 355	4	4 576	10	22 931
New Pool Wildcats	50	139 885	16	68 314	66	208 199	3	7 845	1	218 220
Deeper Pool Tests	80	306 562	44	245 962	124	552 524	6	19 990		572 514
Shallower Pool Tests										
Outposts	34	120 829	37	160 313	71	281 142	3	4 811	1	1 889
Total Exploratory Tests	166	571 130	101	489 090	267	1 060 220	16	37 222	2	4 065
Stratigraphic Tests										661
Development Wells	3 772	9 553 390	977	4 815 774	4 749	14 369 164	24	37 872	275	1 183 466
Bitumen Wells	782	1 243 330			782	1 243 330				5 048
Service & Misc Wells										15 590 502
Total Completions	4 720	11 367 850	1 078	5 304 864	5 798	16 672 714	40	75 094	277	1 187 531
									7 281	19 051 333
ONTARIO										
New Field Wildcats										
New Pool Wildcats										
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests										
Stratigraphic Tests										
Development Wells										
Bitumen Wells										
Service & Misc Wells										
Total Completions										
QUEBEC										
New Field Wildcats										
New Pool Wildcats										
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests										
Stratigraphic Tests										
Development Wells										
Bitumen Wells										
Service & Misc Wells										
Total Completions										

2018 DRILLING ACTIVITY

	OIL	GAS	TOTAL PRODUCERS	ABANDONED	SUSPENDED	TOTAL				
OFFSHORE NOVA SCOTIA										
New Field Wildcats										
New Pool Wildcats										
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests										
Stratigraphic Tests										
Development Wells										
Bitumen Wells										
Service & Misc Wells										
Total Completions										
OFFSHORE NEWFOUNDLAND										
New Field Wildcats										
New Pool Wildcats										
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests										
Stratigraphic Tests										
Development Wells										
Bitumen Wells										
Service & Misc Wells										
Total Completions	4	20 077	4	20 077	3	8 393	1	6 211	8	34 681
	4	20 077	4	20 077	3	8 393	1	6 211	4	20 799
	4	20 077	4	20 077	3	8 393	1	6 211	12	55 480
NEW BRUNSWICK										
New Field Wildcats										
New Pool Wildcats										
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests										
Stratigraphic Tests										
Development Wells										
Bitumen Wells										
Service & Misc Wells										
Total Completions										
NEWFOUNDLAND										
New Field Wildcats										
New Pool Wildcats										
Deeper Pool Tests										
Shallower Pool Tests										
Outposts										
Total Exploratory Tests										
Stratigraphic Tests										
Development Wells										
Bitumen Wells										
Service & Misc Wells										
Total Completions										

2018 DRILLING ACTIVITY

	OIL	GAS	TOTAL PRODUCERS	ABANDONED	SUSPENDED	TOTAL
NOVA SCOTIA/PEI						
New Field Wildcats						
New Pool Wildcats						
Deeper Pool Tests						
Shallower Pool Tests						
Outposts						
Total Exploratory Tests						
Stratigraphic Tests						
Development Wells						
Bitumen Wells						
Service & Misc Wells						
Total Completions						
EASTERN CANADA						
New Field Wildcats						
New Pool Wildcats						
Deeper Pool Tests						
Shallower Pool Tests						
Outposts						
Total Exploratory Tests						
Stratigraphic Tests						
Development Wells						
Bitumen Wells						
Service & Misc Wells						
Total Completions	4	20 077	4	20 077	3	8 393
					1	6 211
					8	34 681
						11
						25 006
	4	20 077	4	20 077	5	9 624
					1	6 211
					21	60 918
CANADA						
New Field Wildcats	2	3 854	4	14 501	6	18 355
New Pool Wildcats	50	139 885	16	68 314	66	208 199
Deeper Pool Tests	80	306 562	44	245 962	124	552 524
Shallower Pool Tests						
Outposts	34	120 829	37	160 313	71	281 142
Total Exploratory Tests	166	571 130	101	489 090	267	1 060 220
Stratigraphic Tests						
Development Wells	3 776	9 573 467	977	4 815 774	4 753	14 389 241
Bitumen Wells	782	1 243 330			782	1 243 330
Service & Misc Wells						
Total Completions	4 724	11 387 927	1 078	5 304 864	5 802	16 692 791
					45	84 718
						278
						1 193 742
					7 302	7 302
						19 112 251

Note: CAPP drilling data is based on rotary rig release date

Junked Holes	Wells	Metres
Alberta	6	19 820
	6	19 820

Table 1.3

WELLS AND METRES DRILLED IN WESTERN CANADA

	1947 - 2018		TOTAL	
	EXPLORATORY	DEVELOPMENT	No.	Metres
	No.	Metres	No.	Metres
Pre to 1947	1 118	900 861	950	1 239 858
1947	129	125 953	202	160 688
1948	179	208 307	281	340 034
1949	275	352 126	580	669 524
1950	311	410 170	859	946 081
1951	487	652 801	933	1 135 229
1952	900	1 084 089	1 282	1 571 582
1953	905	1 157 247	1 334	1 628 611
1954	928	1 216 705	1 365	1 575 051
1955	885	1 212 529	2 050	2 663 245
1956	899	1 342 829	2 383	3 379 146
1957	1 058	1 516 179	1 942	2 753 686
1958	849	1 275 048	1 667	2 502 804
1959	939	1 397 939	1 629	2 476 581
1960	818	1 335 657	1 718	2 854 036
1961	769	1 302 665	1 743	2 888 582
1962	869	1 397 234	1 640	2 563 288
1963	1 011	1 579 464	1 850	2 751 836
1964	1 293	1 833 748	2 007	2 910 220
1965	1 470	2 078 430	2 163	2 894 937
1966	1 447	2 050 160	1 605	2 143 615
1967	1 341	1 913 449	1 537	1 959 486
1968	1 495	2 257 325	1 500	1 886 373
1969	1 624	2 149 223	1 553	1 886 851
1970	1 414	1 884 488	1 522	1 610 239
1971	1 445	1 861 534	1 489	1 579 190
1972	1 649	2 176 651	1 936	1 968 887
1973	2 126	2 403 485	2 271	2 465 742
1974	1 648	1 971 296	2 319	2 237 618
1975	1 565	1 715 655	2 467	2 315 283
1976	2 389	2 301 411	3 104	3 021 340
1977	2 739	2 803 393	3 237	3 238 430
1978	3 065	3 529 465	3 913	3 751 819
1979	2 901	4 111 269	4 554	4 463 970
1980	3 744	5 234 229	5 188	5 138 500
1981	3 074	4 257 685	3 897	3 810 523
1982	2 288	3 161 028	4 093	3 963 678
1983	1 973	2 804 879	4 877	5 153 549
1984	2 863	3 977 174	6 517	6 567 178
1985	3 296	4 611 664	8 794	8 596 464
1986	1 955	2 836 782	3 730	4 347 112
1987	2 322	3 434 838	4 518	4 959 110
1988	2 889	4 025 708	5 652	5 855 401
1989	2 525	3 341 228	3 015	3 132 092
1990	2 696	3 565 913	3 111	3 317 434
1991	2 184	2 974 094	3 082	3 355 748
1992	1 570	2 136 080	2 929	3 391 156
1993	2 781	3 650 170	6 660	7 150 499
1994	3 991	5 334 213	7 972	8 631 276
1995	3 168	4 292 755	7 840	8 400 064
1996	3 250	4 365 570	10 350	10 981 483
1997	3 555	4 768 049	13 229	14 564 127
1998	3 586	5 112 457	6 448	7 469 037
1999	3 491	4 942 057	8 759	8 686 693
2000	4 548	6 271 126	12 775	13 166 367
			17 323	19 437 493

Table 1.3

WELLS AND METRES DRILLED IN WESTERN CANADA

	1947 - 2018					
	EXPLORATORY		DEVELOPMENT		TOTAL	
	No.	Metres	No.	Metres	No.	Metres
2001	4 967	6 549 338	13 194	13 531 519	18 161	20 080 857
2002	4 009	5 376 680	11 578	11 692 748	15 587	17 069 428
2003	5 026	6 218 519	16 295	16 378 375	21 321	22 596 894
2004	5 476	6 940 944	17 243	17 665 203	22 719	24 606 147
2005	5 895	8 207 517	19 173	21 652 922	25 068	29 860 439
2006	5 635	8 443 309	17 579	19 975 570	23 214	28 418 879
2007	3 408	5 378 926	14 565	16 153 124	17 973	21 532 050
2008	2 789	5 049 258	13 340	16 378 690	16 129	21 427 948
2009	1 248	2 495 322	6 889	10 022 508	8 137	12 517 830
2010	1 569	3 302 175	9 042	14 720 170	10 611	18 022 345
2011	1 636	3 663 881	9 479	18 518 881	11 115	22 182 762
2012	1 190	2 707 177	9 328	17 959 674	10 518	20 666 851
2013	1 065	2 762 082	9 085	19 027 153	10 150	21 789 235
2014	1 016	2 761 645	9 374	21 486 866	10 390	24 248 511
2015	484	1 606 138	4 747	12 379 777	5 231	13 985 915
2016	255	859 878	3 489	9 605 744	3 744	10 465 622
2017	289	1 065 767	6 114	16 648 453	6 403	17 714 220
2018	285	1 101 507	5 830	16 833 832	6 115	17 935 339
Pre 1947 to Date Total	150 931	215 096 547	391 365	505 702 562	542 296	720 799 109

Bitumen included with Development on this table

Wells and Metres Drilled in Canada
1955-2018

British Columbia		Alberta		Saskatchewan		Manitoba		NWT		Westcoast Offshore		Eastcoast Offshore		Other Eastern Canada		Canada			
Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres		
1955	36	63 104	1 620	2 569 687	912	986 113	361	257 689	6	3 739				405	156 099	3 340	4 036 431		
1956	57	102 025	1 856	3 017 083	1 108	1 412 709	254	177 352	7	3 806				451	168 621	3 733	4 881 596		
1957	94	161 620	1 450	2 323 610	1 227	1 623 829	225	157 403	4	3 403				444	173 140	3 444	4 443 005		
1958	75	114 865	1 550	2 553 802	790	1 037 625	92	60 437	9	11 123				366	161 197	2 882	3 939 049		
1959	115	182 180	1 594	2 681 422	806	990 812	45	30 676	8	7 718				325	140 453	2 893	4 033 261		
1960	143	229 608	1 692	3 162 547	602	720 449	67	44 790	32	32 299				316	132 226	2 852	4 321 919		
1961	210	316 998	1 603	3 109 372	655	722 572	29	19 647	15	22 658				321	116 827	2 833	4 308 074		
1962	330	476 750	1 557	2 785 203	598	671 823	24	17 687	9	18 546				232	114 536	2 750	4 084 545		
1963	176	273 725	1 698	3 040 176	950	1 011 022	59	42 762	5	14 683				229	130 172	3 117	4 512 540		
1964	141	202 220	1 857	3 154 439	1 195	1 280 235	107	75 262	18	34 461				269	158 078	3 587	4 904 695		
1965	250	329 506	1 974	3 110 808	1 289	1 389 921	64	50 146	18	36 448				209	112 986	3 804	5 029 815		
1966	212	314 729	1 633	2 513 089	1 168	1 302 431	61	43 852	28	37 070				155	81 928	3 257	4 293 099		
1967	186	302 041	1 590	2 359 739	965	1 070 759	87	65 124	40	39 302	2	6 062	1	4 604	150	69 627	3 021	3 917 258	
1968	186	320 305	1 848	2 678 312	923	1 003 637	66	49 780	36	37 547	8	24 635			188	97 698	3 255	4 211 914	
1969	166	258 435	1 843	2 620 067	1 162	1 113 154	82	44 485	56	83 637	4	11 254	1	3 980	223	131 125	3 537	4 266 137	
1970	177	274 299	1 824	2 370 427	933	755 795	19	16 680	70	110 249				14	45 482	173	104 820	3 210	3 677 752
1971	194	298 976	2 025	2 445 944	768	639 988	20	13 840	76	143 039				19	62 291	166	99 133	3 268	3 703 211
1972	213	349 501	2 675	3 068 130	651	567 668	7	5 485	71	174 986				18	58 281	192	115 339	3 827	4 339 390
1973	165	264 542	3 517	3 879 989	661	545 491	16	13 649	97	209 027				30	101 025	131	82 887	4 617	5 096 610
1974	144	231 759	3 499	3 666 357	282	215 229	20	21 964	59	153 384				19	56 495	178	94 803	4 201	4 439 991
1975	80	128 488	3 652	3 659 421	275	207 905	11	8 770	43	113 218				9	26 313	172	101 320	4 242	4 245 435
1976	175	283 091	5 046	4 879 453	257	229 671	16	13 515	27	83 807				10	22 793	159	88 891	5 690	5 601 221
1977	306	491 733	5 120	5 255 020	534	438 369	13	11 584	26	80 767				8	11 766	190	109 967	6 197	6 399 206
1978	390	638 343	5 584	6 111 748	978	724 611	22	18 328	17	51 795				16	32 874	163	134 832	7 170	7 712 531
1979	395	685 170	5 753	6 852 496	1 258	967 805	25	20 537	27	54 936				12	29 399	231	135 951	7 701	8 746 294
1980	386	694 785	7 044	8 397 933	1 458	1 219 392	33	29 113	17	37 110				9	32 644	241	133 007	9 188	10 543 984
1981	209	407 585	5 886	6 865 955	801	694 839	67	66 046	13	38 818				9	39 511	201	102 854	7 186	8 215 608
1982	109	207 712	5 225	5 973 024	811	693 538	195	184 302	41	66 240				7	34 099	174	78 927	6 562	7 237 842
1983	76	130 535	4 619	5 843 692	1 840	1 683 524	253	234 302	67	71 709				22	99 681	218	103 162	7 095	8 166 605
1984	194	231 975	6 043	7 439 831	3 063	2 708 874	246	221 026	96	127 555				22	104 833	199	102 041	9 863	10 936 135
1985	235	312 600	7 937	9 273 034	3 815	3 557 318	269	231 865	75	118 502				27	122 390	206	119 994	12 564	13 735 703
1986	161	267 097	4 412	5 868 530	1 086	1 035 947	138	121 160	55	105 793				16	67 201	123	61 912	5 991	7 527 640
1987	136	241 810	5 121	6 792 382	1 566	1 386 420	109	98 246	41	45 534				8	30 756	97	52 600	7 078	8 647 748
1988	189	355 763	6 378	7 889 646	2 073	1 756 871	72	63 711	18	32 285				9	28 870	147	82 378	8 886	10 209 524
1989	219	395 496	3 891	4 949 873	1 479	1 171 534	55	45 265	7	16 578				2	6 497	151	92 268	5 804	6 677 511
1990	285	454 481	4 189	5 206 175	1 315	1 212 628	83	79 714	14	19 580				1	3 092	133	64 558	6 020	7 040 228
1991	237	419 330	3 973	4 873 164	1 133	1 120 446	57	51 153	8	15 084				7	18 747	124	72 180	5 539	6 570 104
1992	150	251 301	3 627	4 482 493	793	886 103	27	26 121	2	2 560				2	5 732	77	62 659	4 678	5 716 969
1993	324	539 047	7 170	8 516 415	2 189	2 140 071	86	88 248					10	27 084	115	81 147	9 894	11 392 012	
1994	530	838 533	9 370	11 146 535	2 430	2 564 491	80	86 628	2	3 234				2	5 115	102	71 417	12 516	14 715 953
1995	447	712 222	8 780	10 132 327	2 202	2 476 100	52	57 906	3	4 848					90	64 807	11 574	13 448 210	
1996	500	811 465	10 926	12 004 837	3 000	3 268 549	60	60 587	6	11 368				4	13 799	61	50 907	14 557	16 221 512
1997	616	1 012 467	13 225	14 813 927	4 055	4 468 049	109	103 509	13	17 248				4	14 201	82	64 480	18 104	20 493 881
1998	683	1 044 845	8 175	9 875 306	1 744	1 913 306	49	55 218	12	17 465				9	38 230	109	83 528	10 781	13 027 898
1999	678	1 035 160	9 444	10 687 739	2 522	2 408 641	41	46 606	15	32 654				19	89 640	84	62 708	12 803	14 363 148
2000	846	1 351 010	13 543	14 821 473	3 839	3 759 404	76	77 324	16	17 306				22	100 184	138	130 617	18 480	20 257 318
2001	934	1 572 371	14 975	15 435 493	3 571	3 520 662	115	121 102	12	19 041				18	83 696	127	136 956	19 752	20 889 321
2002	580	994 700	12 989	13 543 517	3 401	2 937 711	97	104 871	13	29 037				15	75 813	87	83 163	17 182	17 768 812
2003	1 032	1 880 562	17 873	17 855 802	4 179	3 409 918	106	104 279	36	73 387				34	138 631	105	74 305	23 365	23 536 884
2004	1 117	1 923 003	19 365	19 538 053	4 104	3 576 631	133	133 220	18	40 432				25	110 679	112	77 652	24 874	25 399 670
2005	1 202	2 211 953	21 595	24 211 705	3 781	3 873 079	260	271 244	10	15 078				15	71 532	84	46 876	26 951	30 701 467
2006	1 313	2 349 465	19 800	21 971 316	4 029	4 299 405	487	524 353	5	11 581				20	81 814	157	101 592	25 811	29 339 526
2007	827	1 682 655	16 238	16 079 296	3 689	4 336 664	345	393 982	15	25 028				12	59 659	84	72 039	21 210	22 649 323
2008	805	1 951 670	14 969	15 060 899	4 037	5 327 344	302	415 433	10	15 128				4	21 064	76	88 408	20 203	22 879 946
2009	667	1 778 962	6 894	7 780 524	2 126	3 401 060	237	430 746	9	16 959				10	37 955	44	52 257	9 987	13 498 463

Wells and Metres Drilled in Canada
1955-2018

British Columbia		Alberta		Saskatchewan		Manitoba		NWT		Westcoast Offshore		Eastcoast Offshore		Other Eastern Canada		Canada		
		Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	
2010	554	1 868 013	8 537	11 889 897	2 669	4 308 180	467	842 515	13	17 345	12	61 914	91	85 554	12 343	19 073 418		
2011	568	1 941 488	9 651	15 519 241	3 275	5 273 750	500	909 850	18	32 478	5	21 669	24	6 979	14 041	23 705 455		
2012	363	1 400 055	8 862	14 225 233	3 243	5 237 672	573	1 080 388	13	21 207	8	34 017	18	12 190	13 080	22 010 762		
2013	527	2 046 671	8 656	14 851 676	3 464	5 784 447	537	1 018 108	7	14 489	17	88 388	20	13 532	13 228	23 817 311		
2014	621	2 386 143	8 477	16 473 376	3 638	6 336 265	461	832 133	2	6 062	10	40 611	7	5 517	13 216	26 080 107		
2015	517	2 054 221	3 837	8 763 087	1 780	3 428 342	209	355 376			11	55 916	2	502	6 356	14 657 444		
2016	286	1 190 734	2 579	6 444 605	1 637	3 265 676	87	152 992			9	44 716	5	2 422	4 603	11 101 145		
2017	611	2 639 025	4 097	10 837 541	2 442	4 713 082	247	456 748			15	79 137	2	867	7 414	18 726 400		
2018	405	1 800 128	4 173	11 702 058	2 426	4 989 658	277	559 489			12	55 480	9	5 438	7 302	19 112 251		
Total	24 755	52 681 051	416 609	521 905 951	121 652	141 775 214	9 389	12 016 323	1 506	2 700 371	14	41 951	620	2 500 300	9 964	5 617 056	584 509	739 238 217

Based on rig release date.

Table 1.5

GAS WELLS COMPLETED IN CANADA

1955 - 2018

	NWT*	BC	ALTA	SASK	MAN	WEST. CANADA	ONT	OTHER EAST CANADA	EAST COAST OFFSHORE	EAST CANADA	
1955	1	12	135	20		168		Not available for Eastern		168	
1956		34	134	12		180		Canada from 1955-64		180	
1957		43	135	16		194				194	
1958		15	168	17		200				200	
1959		41	248	13		302				302	
1960	1	34	247	10		292				292	
1961	1	66	314	11		392				392	
1962		61	264	6		331				331	
1963		65	235	38		338				338	
1964	3	35	243	27		308	55			363	
1965	2	41	220	57		320	68			388	
1966		51	257	34		342	44			386	
1967	2	43	283	44		372	59			431	
1968	2	34	395	47		478	61			539	
1969	2	43	437	42		524	49			573	
1970	1	50	617	63		731	63			794	
1971	3	36	691	108		838	47		1	886	
1972	7	61	1 010	86		1 164	34		2	1 200	
1973	11	54	1 518	73		1 656	34		1	1 691	
1974	10	47	1 719	126		1 902	60			1 962	
1975	6	31	1 958	85		2 080	68			2 148	
1976	9	86	3 193	16		3 304	67	2		3 373	
1977	8	148	2 953	83		3 192	93			3 285	
1978	3	186	3 090	40		3 319	70		1	3 390	
1979	2	187	3 216	45		3 450	83		1	3 534	
1980	5	219	3 968	49		4 241	91		1	4 333	
1981	1	95	3 085	25		3 206	76	1	2	3 285	
1982	4	42	2 499	10		2 555	61		2	2 618	
1983	1	19	1 188	166		1 374	59		5	1 438	
1984	3	31	1 397	435		1 866	56		5	1 927	
1985	6	57	2 022	443		2 528	61	3	6	2 598	
1986	4	43	1 029	222		1 298	34		5	1 337	
1987		57	996	546		1 599	17			1 616	
1988	1	78	1 517	700	4	2 300	30	2	1	2 333	
1989	2	105	1 294	912		2 313	28	5		2 346	
1990	5	153	1 593	475		2 226	28			2 254	
1991	3	103	1 133	406		1 645	46			1 691	
1992		63	657	188		908	31			939	
1993		134	2 287	906		3 327	33			3 360	
1994		261	4 236	836		5 333	60			5 393	
1995		238	2 877	210		3 325	27	1		3 353	
1996		240	3 117	307		3 664	3			3 667	
1997	1	293	4 278	248		4 820	21	1		4 842	
1998	2	352	4 033	567	1	4 955	36			4 991	
1999	5	388	5 622	990		7 005	7		6	7 018	
2000		521	7 353	1 160		9 034	36	1	7	9 078	
2001	2	530	8 789	1 372		10 693	56	3	5	10 757	
2002	5	344	6 949	1 713		9 011	45	3	2	9 061	
2003	9	673	9 942	2 287		12 911	34	1	5	12 951	
2004	6	772	12 276	1 987		15 041	84		1	15 126	
2005		1 049	13 268	1 578		15 895	31	2	3	15 931	
2006	2	892	11 603	1 353		13 850	105	9	1	13 965	
2007		597	8 006	1 023		9 626	26	2		9 654	
2008	2	487	6 449	1 166		8 104	15	8		8 127	
2009		488	2 717	182		3 387	6		1	3 394	
2010		368	2 988	69		3 425	6			3 431	
2011		435	2 237	23		2 695				2 695	
2012		297	809	3		1 109	1			1 110	
2013		390	1 224	10		1 624	7			1 631	
2014		561	1 582	2		2 145	2			2 147	
2015		467	1 013			1 480	1			1 481	
2016		244	725			969		1		970	
2017		483	1 058		1	1 542				1 542	
2018		343	735			1 078				1 078	
Total*		143	14 416	172 231	23 688	6	210 484	2 215	45	64	212 808

* Includes Mainland Terr., Mackenzie Delta & Beaufort Sea & the Arctic Islands

Table 1.6

OIL WELLS COMPLETED IN CANADA
1955 - 2018

NWT*	BC	ALBERTA**	BITUMEN	SASK	MAN	CANADA	ONT	WESTERN	OTHER EASTERN	EAST COAST	CANADA	
									CANADA	OFFSHORE		
1955		1	1 137	549	270	1 957		Not available for Eastern Canada from 1955-64			1 957	
1956	4	7	1 347	784	191	2 333					2 333	
1957		8	874	853	117	1 852					1 852	
1958		11	870	498	61	1 440					1 440	
1959		20	868	487	29	1 404					1 404	
1960	1	46	957	425	52	1 481					1 481	
1961		89	810	471	11	1 381					1 381	
1962		161	690	376	15	1 242					1 242	
1963		28	871	552	42	1 493					1 493	
1964		42	912	628	72	1 654	33				1 687	
1965	1	113	877	697	26	1 714	23				1 738	
1966		45	641	540	26	1 252	11				1 263	
1967		50	648	421	43	1 162	6				1 168	
1968	2	46	556	387	28	1 019	9				1 028	
1969		42	464	528	15	1 049	5				1 054	
1970	1	36	304	469	2	812	10				822	
1971	1	46	361	266	2	676	2				678	
1972	1	37	514	316		868	4				872	
1973	1	8	600	392		1 001	11				1 012	
1974	2	6	651	71	5	735	4				739	
1975	3	2	670	105	2	782	4				786	
1976	4	13	550	154	3	724	3				727	
1977		38	705	359	9	1 111	9				1 120	
1978	1	72	946	766	10	1 795	11				1 806	
1979	2	80	1 256	956	16	2 310	6				2 317	
1980	4	31	1 639	1 099	18	2 791	12				2 805	
1981	5	27	1 483	512	47	2 074	6				2 084	
1982	10	25	1 619	686	163	2 503	27				2 531	
1983	32	26	2 457	1 412	223	4 150	36				4 189	
1984	41	106	3 189	2 120	216	5 672	28				5 704	
1985	31	95	3 945	2 794	227	7 092	24				7 121	
1986	16	55	2 059	667	126	2 923	20				2 947	
1987	20	31	2 699	819	89	3 658	16				3 677	
1988	8	42	3 014	1 069	46	4 179	39				4 221	
1989	1	54	1 281	400	45	1 781	22				1 803	
1990	1	28	1 298	641	74	2 042	16				2 058	
1991	1	32	1 485	539	50	2 107	10				2 120	
1992		32	1 702	1	495	20	2 250	11				2 263
1993		88	2 895	174	962	74	4 193	11				4 211
1994		89	2 498	21	1 148	56	3 812	5				3 819
1995	1	66	3 218	17	1 550	32	4 884	5				4 889
1996	3	74	2 976	1 463	2 039	34	6 589	17				6 607
1997	6	106	3 512	1 792	3 059	56	8 531	8				8 543
1998		99	1 095	296	908	32	2 430	27				2 459
1999	2	53	1 386	365	1 298	20	3 124	12				3 146
2000	5	86	2 297	901	2 330	46	5 665	28	5	8	5 706	
2001	3	111	1 895	663	1 954	73	4 699	24				4 732
2002	3	90	1 707	938	1 489	77	4 304	11				4 319
2003	6	91	2 042	980	1 623	83	4 825	5				4 845
2004	1	80	1 847	716	1 753	114	4 511	6				4 526
2005		30	1 949	1 272	1 974	249	5 474	4				5 482
2006		67	2 146	1 220	2 243	436	6 112	16	2	4	6 134	
2007	1	62	1 393	1 361	2 099	280	5 196	4				5 202
2008	2	11	1 260	1 044	2 431	231	4 979	5	1	2	4 987	
2009	3	71	720	794	1 419	200	3 207	6				3 215
2010		17	1 917	1 005	1 894	302	5 135	4				5 141
2011	5	67	3 261	1 398	2 453	197	7 381	1				7 384
2012	4	41	2 884	2 409	2 529	554	8 421	5				8 432
2013		42	2 632	1 941	2 960	513	8 088	4				8 096
2014		33	2 559	1 590	3 229	445	7 856	4				7 863
2015		37	864	870	1 472	114	3 357					3 360
2016		17	720	347	1 534	50	2 668					2 671
2017		38	1 211	895	2 189	238	4 571					4 579
2018		18	1 519	782	2 128	273	4 720					4 724
Total		239	3 215	99 352	25 255	75 970	7 170	211 201	630	9	155	211 995

* Includes Mainland Terr., Mackenzie Delta & Beaufort Sea & the Arctic Islands

** Prior to 1992 includes project (bitumen) wells.

Table 1.7

Canada Rigs Drilling, Available & Utilization Rate
Annual Average

	Alberta	British Columbia	Saskatchewan	Manitoba	NWT	Eastern Canada	Total Active	Total Available	Utilization Rate
1977	176	27	8	1	9	-	221	340	65%
1978	228	36	16	1	7	-	288	373	77%
1979	282	47	20	1	6	-	356	452	79%
1980	339	54	27	1	5	-	426	539	79%
1981	239	26	15	2	4	-	286	497	58%
1982	177	13	12	3	7	-	212	467	45%
1983	154	7	24	4	6	-	195	482	40%
1984	191	10	38	3	7	-	249	494	50%
1985	264	17	55	2	6	-	344	533	65%
1986	167	13	16	1	6	-	203	564	36%
1987	186	10	17	1	2	-	216	539	40%
1988	202	16	22		1	-	241	544	44%
1989	135	17	14		1	-	167	511	33%
1990	144	20	19	1	1	-	185	488	38%
1991	124	20	18	1	1	-	164	469	35%
1992	103	11	16			-	130	436	30%
1993	190	20	37	2		-	249	421	59%
1994	254	34	41	2		-	331	431	77%
1995	218	27	39	1		-	285	461	62%
1996	241	27	50	1	1	-	320	461	69%
1997	310	35	74	2	2	-	423	503	84%
1998	252	41	36	1	2	-	332	613	54%
1999	200	30	29	1	3	-	263	578	46%
2000	294	40	47	1	1	-	383	602	64%
2001	297	51	40	2	1	-	391	638	61%
2002	225	37	34	1	1	-	298	662	45%
2003	308	62	42	1	3	6	422	685	62%
2004	323	66	39	1	3	5	437	711	61%
2005	397	74	51	4	2	6	534	750	71%
2006	376	70	53	6		6	511	813	63%
2007	266	52	47	4	1	5	375	872	43%
2008	265	64	67	6		3	405	863	47%
2009	141	47	42	5		3	238	855	28%
2010	237	57	69	10		3	376	810	46%
2011	307	52	81	12	2	1	455	810	56%
2012	269	38	71	12	2	1	393	796	49%
2013	256	46	62	10	1		375	809	46%
2014	274	51	67	9			401	807	50%
2015	126	35	32	4			197	766	26%
2016	89	18	26	1		1	135	682	20%
2017	148	25	37	4			214	640	33%
2018	112	20	17	3			152	591	26%

Source: Nickle's Daily Oil Bulletin

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Section 2

Reserves

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Glossary of Terms

Reserves Frequently Used Terms

Initial Volume in-Place: The gross volume of Crude Oil, Crude Bitumen or Raw Natural Gas calculated or interpreted to exist in a reservoir before any volume has been produced.

Established Reserves: Those reserves recoverable under current technology and present and anticipated economic conditions, specifically proved by drilling, testing or production, plus that judgement portion of contiguous recoverable reserves that are interpreted to exist, from geological, geophysical or similar information, with reasonable certainty.

Initial Established Reserves: Established Reserves prior to the deduction of any production.

Remaining Established Reserves: Initial Established Reserves less cumulative production.

Ultimate Potential: An estimate of the Initial Established Reserves which will have become developed in an area by the time all exploratory and development activity has ceased, having regard for the geological prospects of that area and anticipated technology and economic conditions. Ultimate Potential includes cumulative production, Remaining Established Reserves and future additions through extensions and revisions to existing pools and the discovery of new pools.

Primary Recovery: The volume of Crude Oil and Natural Gas recoverable by natural depletion processes only.

Secondary Recovery: The incremental volume of Crude Oil and Natural Gas recoverable by conventional water flooding, pressure maintenance or cycling.

Tertiary Recovery: The incremental volume of Crude Oil and Natural Gas recoverable by a process after or in lieu of conventional water flooding, pressure maintenance or cycling. A Tertiary Recovery process may be implemented without a preceding Secondary Recovery scheme.

Enhanced Recovery: A general term for the incremental volume of Crude Oil and Natural Gas recoverable over the volume recoverable by natural depletion processes only. Enhanced Recovery is the sum of Secondary and Tertiary Recovery.

Crude Oil: A mixture, consisting mainly of pentanes and heavier hydrocarbons that may contain sulphur compounds, that is liquid at the conditions under which its volume is measured or estimated, but excluding such liquids obtained from the processing of Natural Gas.

Conventional Crude Oil: Crude Oil recoverable through wells where production can initially be achieved at commercial rates without altering the natural viscous state of the oil. This includes subsequent production from such reservoirs by thermal methods and Crude Oil from certain pools from which production cannot initially be achieved at commercial rates, but which, for other reasons, are designated as Conventional Crude Oil.

Glossary of Terms (cont'd)

Reserves Frequently Used Terms

Non-Conventional Crude Oil: Crude Oil other than Conventional Crude Oil.

Crude Bitumen: A naturally occurring viscous mixture, mainly of hydrocarbons heavier than pentane, that may contain sulphur compounds and other minerals, and that in its natural viscous state is not recoverable at a commercial rate through a well.

Raw Natural Gas: The lighter hydrocarbon and associated non-hydrocarbon substances occurring naturally in an underground reservoir, which under atmospheric conditions is essentially a gas, but which may contain liquids.

Marketable Natural Gas: Natural Gas which is available to a transmission line after removal of certain hydrocarbons and non-hydrocarbon compounds present in the Raw Natural Gas and which meets specifications for use as a domestic, commercial or industrial fuel. Marketable Natural Gas excludes field and plant fuel and losses, excepting those related to downstream reprocessing plants.

Non-Associated Gas: Natural Gas not in contact with Crude Oil in the reservoir or Natural Gas in contact with Crude Oil where the volume of oil is small and where production of such gas does not significantly affect the Crude Oil recovery.

Associated Gas: Natural Gas, commonly known as gas-cap gas, which overlies and is in contact with Crude Oil in the reservoir, except where the volume of oil is small and where production of such gas does not significantly affect the Crude Oil recovery.

Solution Gas: Natural Gas which is in solution with Crude Oil in the reservoir at original reservoir conditions and which is normally produced with the Crude Oil.

Natural Gas Liquids: Natural Gas Liquids are those hydrocarbon components recovered from Raw Natural Gas as liquids by processing through extraction plants or recovered from field separators, scrubbers or other gathering facilities. These liquids include the hydrocarbon components ethane, propane, butanes and pentanes plus, or a combination thereof.

Condensate: A mixture composed mainly of pentanes and heavier hydrocarbons recovered as a liquid from field separators, scrubbers or other gathering facilities before the gas is processed in a plant.

Pentanes Plus: A mixture mainly of pentanes and heavier hydrocarbons which ordinarily may contain some butanes and which is obtained from the processing of Raw Gas, Condensate or Crude Oil, or from Marketable Gas processed in a downstream reprocessing plant.

Liquified Petroleum Gases (LPG): Liquified Petroleum Gases consist primarily of the hydrocarbon components propane or butanes, or a combination thereof.

CONVENTIONAL CRUDE - OIL
REMAINING ESTABLISHED RESERVES IN CANADA
2018
Thousand cubic metres

	Remaining Reserves at Previous Year	Remaining Reserves at Current Year	Net Change in Reserves
CRUDE OIL			
British Columbia	16 483	18 171	1 688
Alberta	263 273	270 671	7 399
Saskatchewan	115 001	86 689	- 28 312
Manitoba	9 582	7 257	- 2 325
Ontario	1 035	1 035	
Mainland Territories	8 422	8 422	
Eastcoast Offshore	258 485	388 900	130 415
Total	672 281	781 146	108 865
Frontier Areas			
Mackenzie/Beaufort	53 950	53 950	
Total Frontier Areas	53 950	53 950	
TOTAL CRUDE OIL	726 231	835 096	108 865
PENTANES PLUS			
British Columbia	40 800	39 935	- 865
Alberta	37 700	40 400	2 700
Eastcoast Offshore	4 268	4 268	
TOTAL PENTANES PLUS	82 768	84 603	1 835
TOTAL CRUDE OIL & EQUIV	808 999	919 699	110 700

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.1

CONVENTIONAL CRUDE OIL
REMAINING ESTABLISHED RESERVES IN CANADA
1951 - 2018
Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production**	Remaining at End of Year	Net Change in Reserves during Year
1951	191 106	35 169	7 519	218 756	27 650
1952	218 756	57 749	9 614	266 891	48 135
1953	266 891	39 222	12 857	293 256	26 365
1954	293 256	72 750	15 194	350 812	57 556
1955	350 812	68 240	20 262	398 790	47 978
1956	398 790	80 910	26 907	452 793	54 003
1957	452 793	32 868	28 882	456 779	3 986
1958	456 779	72 701	26 386	503 094	46 315
1959	503 094	81 832	29 198	555 728	52 634
1960	555 728	59 197	30 368	584 557	28 829
1961	584 557	113 788	35 123	663 222	78 665
1962	663 222	87 720	38 914	712 028	48 806
Break in Series					
1963	1 062 733	13 944	40 758	1 035 919	- 26 814
1964	1 035 919	255 384	43 033	1 248 270	212 351
1965	1 248 270	196 556	46 337	1 398 489	150 219
1966	1 398 489	208 887	50 224	1 557 152	158 663
1967	1 557 152	124 587	54 690	1 627 049	69 897
1968	1 627 049	93 668	59 030	1 661 687	34 638
1969	1 661 687	66 636	62 516	1 665 807	4 120
1970	1 665 807	26 894	69 606	1 623 095	- 42 712
1971	1 623 095	37 636	76 297	1 584 434	- 38 661
1972	1 584 434	22 229	82 319	1 524 344	- 60 090
1973	1 524 344	6 537	99 423	1 431 458	- 92 886
1974	1 431 458	- 5 065	95 530	1 330 863	- 100 595
1975	1 330 863	- 6 280	79 897	1 244 686	- 86 177
1976	1 244 686	5 921	69 683	1 180 924	- 63 762
1977	1 180 924	10 227	70 872	1 120 279	- 60 645
1978	1 120 279	37 426	67 647	1 090 058	- 30 221
1979	1 090 058	71 415	79 469	1 082 004	- 8 054
1980	1 082 004	- 56 247	74 529	951 228	- 130 776
1981	951 228	178 220	65 873	1 063 575	112 347
1982	1 063 575	19 314	61 756	1 021 133	- 42 442
1983	1 021 133	66 074	64 488	1 022 719	1 586
1984	1 022 719	- 588	73 108	949 023	- 73 696
1985	949 023	39 837	73 030	915 830	- 33 193
1986	915 830	98 719	70 138	944 411	28 581
1987	944 411	67 943	72 192	940 162	- 4 249
1988	940 162	108 468	73 482	975 148	34 986
1989	975 148	31 677	68 832	937 993	- 37 155
1990	937 993	18 350	68 386	887 957	- 50 036
1991	887 957	22 359	69 014	841 302	- 46 655

Table 2.1

CONVENTIONAL CRUDE OIL
REMAINING ESTABLISHED RESERVES IN CANADA
1951 - 2018
Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production**	Remaining at End of Year	Net Change in Reserves during Year
1992	841 302	39 697	71 265	809 734	- 31 568
1993	809 734	65 439	74 587	800 586	- 9 148
1994	800 586	56 607	78 400	778 793	- 21 793
1995	778 793	78 078	78 844	778 027	- 766
1996	778 027	71 518	80 176	769 369	- 8 658
1997	769 369	97 177	82 607	783 939	14 570
1998	783 939	72 883	81 473	775 349	- 8 590
1999	775 349	48 966	76 468	747 847	- 27 502
2000	747 847	103 550	79 368	772 029	24 182
2001	772 029	48 559	80 492	740 096	- 31 933
2002	740 096	58 867	84 986	713 977	- 26 119
2003	713 977	47 049	84 739	676 287	- 37 690
2004	676 287	97 629	81 975	691 941	15 654
2005	691 941	215 224	79 227	827 938	135 997
2006	827 938	36 292	78 540	785 690	- 42 248
2007	785 690	92 816	81 169	797 337	11 647
2008	797 337	46 565	78 767	765 135	- 32 202
2009	750 277	- 7 786	69 693	636 109	- 114 168
<i>Break in data series</i>					
2010	636 109	-	-	659 114	23 005
2011	659 114	-	-	655 410	- 3 704
2012	655 410	-	-	682 253	26 843
2013	682 253	-	-	680 770	- 1 483
2014	680 770	-	-	656 616	- 27 304
2015	656 616	-	-	692 378	35 762
2016	692 378	-	-	702 539	10 161
2017	702 539	-	-	726 231	23 692
2018	726 231	-	-	835 096	108 865

**Preliminary estimate. Corrections to previous year cumulative production included with gross additions booked in 1986.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

CRUDE OIL IN CANADA BY TYPE
REMAINING ESTABLISHED RESERVES
1984-2018
 Thousand Cubic Metres

Main. Territory	Mac Delta/ Beau Sea			British Columbia		Alberta		Saskatchewan		Manitoba		Ontario	Other East Can.	E. Coast Offshore	Canada	
	Light	Light	Light	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Light	Light	Light	Heavy
1984	30 320	0	0	22 983	614 964	51 395	58 447	57 011	9 938	0	963	2	103 000	840 617	108 406	
1985	29 270	0	51	20 359	597 117	51 609	85 382	37 555	10 479	0	1 006	2	83 000	826 666	89 164	
1986	27 460	64 950	34	18 500	583 397	49 346	72 726	33 570	10 485	37	904	2	83 000	861 458	82 953	
1987	26 358	64 950	99	17 013	579 241	52 074	74 711	31 435	10 443	42	794	2	83 000	856 611	83 551	
1988	24 610	64 950	144	17 934	555 992	55 526	80 421	32 417	8 786	52	1 311	5	133 000	887 153	87 995	
1989	22 734	53 950	101	18 490	524 982	57 549	77 958	33 951	8 246	103	1 324	5	138 600	846 390	91 603	
1990	20 893	53 950	77	17 566	471 392	58 813	81 948	34 948	8 252	99	1 414	5	138 600	794 097	93 860	
1991	21 609	53 950	52	17 662	424 758	65 201	78 434	31 902	7 716	90	1 323	5	138 600	744 109	97 193	
1992	19 748	53 950	74	17 911	387 420	64 723	77 234	42 281	7 060	84	1 224	5	138 020	702 646	107 088	
1993	17 979	53 950	167	17 549	368 970	66 033	87 258	43 955	6 446	88	1 169	5	137 017	690 510	110 076	
1994	16 249	53 950	114	19 431	343 864	65 679	90 029	45 254	6 396	81	2 046	5	135 695	667 779	111 014	
1995	15 932	53 950	152	21 278	327 961	66 435	98 530	49 672	6 320	25	1 938	5	135 829	661 895	116 132	
1996	14 047	53 950	0	20 877	298 009	83 136	105 866	50 942	5 823	25	1 894	5	134 795	635 266	134 103	
1997	12 444	53 950	0	22 266	281 960	80 089	116 576	60 055	5 518	33	1 756	0	149 292	643 762	140 177	
1998	10 782	53 950	0	26 876	271 087	80 859	112 449	68 479	4 535	50	1 933	0	144 349	625 961	149 388	
1999	11 614	53 950	0	27 687	265 944	75 399	95 213	73 900	4 206	67	1 859	0	138 008	598 481	149 366	
2000	11 795	53 950	0	27 638	255 192	75 208	107 392	74 723	4 269	247	1 981	0	159 634	621 851	150 178	
2001	10 363	53 950	0	24 676	225 933	83 455	110 814	74 080	3 736	233	1 853	0	151 003	582 328	157 768	
2002	8 988	53 950	0	22 305	222 533	82 691	102 984	80 885	3 207	222	1 797	0	134 415	550 179	163 798	
2003	7 733	53 950	0	23 568	203 547	75 036	100 794	83 945	4 573	67	1 877	0	121 197	517 239	159 048	
2004	6 788	53 950	0	22 162	201 674	74 958	101 711	86 191	3 861	0	1 947	0	138 699	530 792	161 149	
2005	5 699	53 950	0	21 471	200 081	70 684	104 748	92 903	3 942	0	1 595	0	272 865	664 351	163 587	
2006	4 767	53 950	0	18 665	189 455	74 976	96 284	83 598	7 079	0	1 672	0	255 244	627 116	158 574	
2007	3 749	53 950	0	17 129	185 283	73 262	103 138	87 351	7 046	0	1 620	0	264 809	636 724	160 613	
2008	2 808	53 950	0	16 535	183 689	68 872	103 495	91 719	9 127	0	1 574	0	233 366	604 544	160 591	
2009	1 906	53 950	0	18 005	174 178	63 538	77 517	74 881	8 400	0	1 634	0	213 647	549 237	138 419	
<i>Break in Series</i>																
2010	10 927	53 950	0	18 653	172 200	64 700	67 988	106 848	7 700	0	1 600	0	154 619	487 638	171 548	
2011	10 927	53 950	0	18 161	178 000	67 900	75 683	114 505	7 700	0	1 576	0	126 969	391 462	182 405	
2012	10 171	53 950	0	19 108	204 500	64 700	76 841	132 204	4 909	0	1 600	0	114 270	485 349	196 904	
2013	9 516	53 950	0	19 250	217 200	66 200	74 929	118 985	6 810	0	1 530	0	112 400	495 585	185 185	
2014	8 875	53 950	0	18 059	218 100	70 100	63 379	100 644	7 147	0	1 462	0	114 900	485 872	170 744	
2015	8 297	53 950	0	17 553	212 600	68 100	63 000	151 000	6 800	0	1 405	0	109 600	473 205	219 100	
2016	7 776	53 950	0	16 483	202 331	65 458	38 198	104 925	6 566	0	1 352	0	205 500	532 156	170 383	
2017	8 422	53 950	0	16 483	197 756	65 517	24 065	90 936	9 582	0	1 035	0	258 485	569 777	156 453	
2018	8 422	53 950	0	18 171	203 807	66 864	9 467	77 222	7 257	0	1 035	0	388 900	691 009	144 087	

Note: Alberta Light is light & medium, Saskatchewan Heavy includes some medium.

Note: This is not a credited-back table.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

CRUDE OIL
REMAINING ESTABLISHED RESERVES IN CANADA
AT YEAR END
1962 - 2018
Thousand Cubic Metres

	Mainland Territories (S. 68° N)	Mackenzie Delta/ Beaufort Sea	Arctic Isles	British Columbia	Alberta	Saskatchewan	Manitoba	Ontario	Other Eastern Canada	Eastcoast Offshore	Canada
1962	8 011			37 021	879 352	131 120	5 735	1 494			1 062 733
1963	7 914			40 456	856 204	120 351	8 056	2 938			1 035 919
1964	7 813			42 651	1 046 816	138 294	9 637	3 057	2		1 248 270
1965	7 612			51 892	1 177 618	146 803	11 534	3 029	1		1 398 489
1966	7 489			53 959	1 327 535	153 545	12 449	2 174	1		1 557 152
1967	7 604			61 681	1 386 190	156 680	12 655	1 983	256		1 627 049
1968	7 462			56 506	1 426 719	156 191	12 464	2 091	254		1 661 687
1969	7 326			51 690	1 442 838	148 787	12 835	2 078	253		1 665 807
1970	11 950			53 703	1 394 634	147 395	13 253	1 909	251		1 623 095
1971	11 747			46 389	1 374 947	136 975	12 374	1 753	249		1 584 434
1972	11 590			42 406	1 326 988	129 671	11 317	2 124	248		1 524 344
1973	11 425			39 865	1 245 676	121 747	10 486	2 013	246		1 431 458
1974	11 250			32 223	1 161 155	115 805	8 012	2 173	245		1 330 863
1975	11 091			27 454	1 068 705	127 990	7 317	1 883	246		1 244 686
1976	10 920			25 716	1 012 060	122 888	7 134	1 960	246		1 180 924
1977	10 761			24 351	957 152	119 439	6 474	1 857	245		1 120 279
1978	10 598			22 812	931 603	117 214	6 330	1 491	10		1 090 058
1979	21 148			27 588	908 403	117 723	5 678	1 455	9		1 082 004
1980	21 009			25 898	779 980	117 752	5 195	385	9		950 228
1981	20 860			25 904	718 848	117 045	4 962	948	8	175 000	1 063 575
1982	20 673			24 180	682 518	109 707	8 211	836	8	175 000	1 021 133
1983	30 493			24 265	665 273	114 295	12 534	851	8	175 000	1 022 719
1984	30 320			22 983	666 359	115 458	9 938	963	2	103 000	949 023
1985	29 270	51	20 359	648 726	122 937	10 479	1 006	2	83 000		915 830
1986	27 460	64 950	34	18 500	632 743	106 296	10 522	904	2	83 000	944 411
1987	26 358	64 950	99	17 013	631 315	106 146	10 485	794	2	83 000	940 162
1988	24 610	64 950	144	17 934	611 518	112 838	8 838	1 311	5	133 000	975 148
1989	22 734	53 950	101	18 490	582 531	111 909	8 349	1 324	5	138 600	937 993
1990	20 893	53 950	77	17 566	530 205	116 896	8 351	1 414	5	138 600	887 957
1991	21 609	53 950	52	17 662	489 959	110 336	7 806	1 323	5	138 600	841 302
1992	19 748	53 950	74	17 911	452 143	119 515	7 144	1 224	5	138 020	809 734
1993	17 979	53 950	167	17 549	435 003	131 213	6 534	1 169	5	137 017	800 586
1994	16 249	53 950	114	19 431	409 543	135 283	6 477	2 046	5	135 695	778 793
1995	15 932	53 950	152	21 278	394 396	148 202	6 345	1 938	5	135 829	778 027
1996	14 047	53 950		20 877	381 145	156 808	5 848	1 894	5	134 795	769 369
1997	12 444	53 950		22 266	362 049	176 631	5 551	1 756		149 292	783 939
1998	10 782	53 950		26 876	351 946	180 928	4 585	1 933		144 349	775 349
1999	11 614	53 950		27 687	341 343	169 113	4 273	1 859		138 008	747 847
2000	11 795	53 950		27 638	330 400	182 115	4 516	1 981		159 634	772 029
2001	10 363	53 950		24 676	309 388	184 894	3 969	1 853		151 003	740 096
2002	8 988	53 950		22 305	305 224	183 869	3 429	1 797		134 415	713 977
2003	7 733	53 950		23 568	278 583	184 739	4 640	1 877		121 197	676 287
2004	6 788	53 950		22 162	276 632	187 902	3 861	1 947		138 699	691 941
2005	5 699	53 950		21 471	270 765	197 651	3 942	1 595		272 865	827 938
2006	4 767	53 950		18 665	264 431	179 882	7 079	1 672		255 244	785 690
2007	3 749	53 950		17 129	258 545	190 489	7 046	1 620		264 809	797 337
2008	2 808	53 950		16 535	252 561	195 214	9 127	1 574		233 366	765 135
2009	1 906	53 950		18 005	237 716	152 398	8 400	1 634		213 647	687 656
Break in Data Series											
2010	10 927	53 950	na	18 653	236 900	174 836	7 700	1 576	na	154 619	659 161
2011	10 927	53 950	na	18 161	245 900	190 188	7 700	1 576	na	126 969	648 989
2012	10 171	53 950	na	19 108	269 200	209 045	4 909	1 600	na	114 270	682 253
2013	9 516	53 950	na	19 250	283 400	193 914	6 810	1 530	na	112 400	680 770
2014	8 875	53 950	na	18 059	288 200	164 023	7 147	1 462	na	114 900	656 616
2015	8 297	53 950	na	17 553	280 700	214 000	6 800	1 405	na	109 600	692 305
2016	7 776	53 950	na	16 483	267 789	143 123	6 566	1 352	na	205 500	702 539
2017	8 422	53 950	na	16 483	263 273	115 001	9 582	1 035	na	258 485	726 231
2018	8 422	53 950	na	18 171	270 671	86 689	7 257	1 035	na	388 900	835 096

Note: East Coast Offshore crude oil reserves booked for first time in 1981.

Arctic Islands crude oil reserves booked for first time in 1985.

Mackenzie Delta/Beaufort Sea booked for first time in 1986.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.4

LIQUID HYDROCARBON RESERVES IN CANADA
INITIAL ESTABLISHED & REMAINING
ESTABLISHED RESERVES
AT 2018-12-31
 Thousand Cubic Metres

	Initial Established Reserves	Remaining Established Reserves
Crude Oil		
Conventional Areas		
British Columbia	139 952	18 171
Alberta	3 103 453	270 671
Saskatchewan	817 000	86 689
Manitoba	68 000	7 257
Ontario	16 000	1 035
Mainland Territories (S68°N)	53 000	8 422
East Coast Offshore	528 350	388 900
Total Conventional Areas	4 725 755	781 146
Frontier Areas		
Mackenzie Delta/Beaufort Sea	54 000	53 950
Total Frontier Areas	54 000	53 950
TOTAL CRUDE OIL	4 779 755	835 096

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

CRUDE OIL IN CANADA BY TYPE
INITIAL ESTABLISHED RESERVES
1984-2018

Thousand Cubic Metres

Mainland Territory	Mackenzie Delta/ Beaufort		Arctic Isles	British Columbia		Alberta	Saskatchewan		Manitoba		Ontario	Other Eastern Canada		Eastcoast Offshore		Canada	
	Light	Sea		Light	Light		Light	Heavy	Light	Heavy		Light	Light	Light	Light	Light	Light
	Light	Light		Light	Light		Light	Light	Light	Light		Light	Light	Light	Light	Light	Light
1984	35 000	0	0	83 748	1 958 240	125 042	260 677	163 086	33 132	0	10 100	129	103 000	2 484 026	288 128		
1985	35 000	0	100	83 347	1 990 812	131 656	358 146	83 632	34 498	0	10 257	129	83 000	2 595 289	215 288		
1986	34 600	65 000	100	83 195	2 021 634	136 696	354 738	85 104	35 119	261	10 261	129	83 000	2 687 776	222 061		
1987	35 030	65 000	200	83 845	2 065 908	147 172	364 822	86 263	35 830	275	10 284	129	83 000	2 744 048	233 710		
1988	35 030	65 000	300	86 687	2 090 609	159 089	379 441	92 100	34 914	295	10 998	133	133 000	2 836 112	251 484		
1989	35 030	54 000	300	89 257	2 105 233	170 068	385 586	94 913	35 112	355	11 268	133	138 600	2 854 519	265 336		
1990	35 030	54 000	300	90 303	2 094 906	181 154	397 136	99 048	35 837	357	11 606	133	138 600	2 857 851	280 559		
1991	37 500	54 000	300	92 363	2 087 660	199 584	401 544	100 000	36 079	357	11 742	133	138 600	2 859 921	299 941		
1992	37 500	54 000	350	94 662	2 090 496	212 484	413 356	114 494	36 079	357	11 867	133	138 600	2 877 043	327 335		
1993	37 500	54 000	500	96 273	2 119 501	220 654	429 576	123 441	36 087	367	12 065	133	138 600	2 924 235	344 462		
1994	37 500	54 000	500	100 088	2 137 185	234 258	443 333	130 988	36 673	367	13 200	133	138 600	2 961 212	365 613		
1995	38 881	54 000	575	103 957	2 162 425	249 643	463 806	142 539	37 173	319	13 377	133	139 980	3 014 307	392 501		
1996	38 628	54 000	463	105 600	2 171 818	281 783	484 968	151 890	37 295	324	13 601	133	139 980	3 046 486	433 997		
1997	38 628	54 000	463	109 666	2 192 148	294 895	506 663	170 426	37 671	338	13 683	128	155 250	3 108 300	465 659		
1998	38 628	54 000	463	117 289	2 215 899	311 009	519 182	188 215	37 303	362	14 079	128	155 250	3 152 221	499 586		
1999	40 987	54 000	463	119 891	2 242 056	319 065	515 550	203 036	37 595	389	14 249	128	154 846	3 179 765	522 490		
2000	42 533	54 000	463	123 020	2 259 408	332 877	539 245	215 867	38 155	592	14 602	128	184 866	3 256 420	549 336		
2001	42 533	54 000	463	122 575	2 260 448	355 479	555 973	226 521	38 155	592	14 920	128	184 866	3 274 061	582 592		
2002	42 533	54 000	463	122 309	2 277 425	367 485	562 215	245 407	38 155	592	15 082	128	184 866	3 297 176	613 484		
2003	42 533	54 000	463	126 228	2 285 989	372 919	568 908	262 129	40 489	447	15 162	128	191 197	3 325 097	635 495		
2004	42 853	54 000	463	126 882	2 307 138	384 986	581 627	277 075	40 723	0	15 232	128	226 947	3 395 993	662 061		
2005	42 853	54 000	463	127 797	2 327 449	392 115	596 133	296 686	41 560	0	15 288	128	378 818	3 584 489	688 801		
2006	43 003	54 000	463	126 382	2 337 406	407 461	598 614	300 135	45 788	0	15 490	128	378 818	3 600 092	707 596		
2007	43 003	54 000	463	126 533	2 354 505	415 994	618 350	316 824	47 056	0	15 546	128	409 564	3 669 148	732 818		
2008	43 003	54 000	463	127 439	2 375 260	417 613	632 970	332 344	50 502	0	15 596	128	398 204	3 697 565	749 957		
2009	43 003	54 000	463	130 153	2 384 242	419 724	625 207	326 403	51 171	0	15 656	128	394 013	3 698 036	746 127		
<i>Break in Series</i>																	
2010	53 926	54 000	463	131 840	2 450 300	379 400	456 900	534 674	53 552	0	15 899	128	339 801	3 556 808	914 074		
2011	53 925	54 000	463	132 414	2 474 700	388 500	475 654	556 110	55 426	0	15 924	128	364 296	3 626 930	944 610		
2012	53 778	54 000	463	134 600	2 525 000	396 700	489 414	588 484	55 031	0	15 922	128	352 111	3 680 448	985 184		
2013	53 863	54 000	463	135 883	2 562 900	407 000	500 481	589 933	60 000	0	16 108	128	471 995	3 855 822	996 933		
2014	54 457	54 000	463	135 657	2 589 300	420 700	514 844	606 862	62 630	0	16 094	128	503 745	3 931 318	1 027 562		
2015	53 000	54 000	463	136 691	2 601 200	431 700	361 000	807 000	68 000	0	16 000	128	628 000	3 918 482	1 238 700		
2016	53 000	54 000	463	135 959	2 610 000	436 000	347 834	793 469	68 000	0	16 000	128	615 799	3 901 183	1 229 469		
2017	53 000	54 000	463	139 952	2 623 400	443 000	257 000	560 000	68 000	0	16 000	128	528 350	3 740 293	1 003 000		
2018	53 000	54 000	463	139 952	2 651 729	451 724	257 000	560 000	68 000	0	16 000	128	528 350	3 768 622	1 011 724		

Note: Alberta Light is light & medium, Saskatchewan Heavy includes some medium.

Note: This is not a credited-back table.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

**DEVELOPED NON-CONVENTIONAL OIL
REMAINING ESTABLISHED RESERVES IN CANADA**

2018

Thousand Cubic Metres

	Remaining Reserves at 2017-12-31	Remaining Reserves at 2018-12-31	Net Change In Reserves during 2018
MINING - UPGRADED AND BITUMEN			
Alberta	5 099 000	4 963 046	(135 954)

Developed synthetic crude oil reserves are those recoverable from developed commercial projects

IN-SITU - BITUMEN

Alberta	21 185 000	21 025 837	(159 163)
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Developed bitumen reserves are those recoverable from developed experimental/demonstration and commercial projects

Note: Effective 2010 CAPP Reserves are based on provincial data

Table 2.6

DEVELOPED NON-CONVENTIONAL ESTABLISHED RESERVES

AT YEAR-END IN-SITU BITUMEN

1982 - 2018

Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production*	Remaining at End of Year	Net Change in Reserves during Year
1982	-	8 331	1 281	7 050	7 050
1983	7 050	725	1 455	6 320	- 730
1984	6 320	1 993	1 943	6 370	50
1985	6 370	132 726	2 589	136 507	130 137
1986	136 507	15 948	4 695	147 760	11 253
1987	147 760	10 387	6 731	151 416	3 656
1988	151 416	78 127	7 546	221 997	70 581
1989	221 997	4 480	7 482	218 995	- 3 002
1990	218 995	- 36 548	7 856	174 591	- 44 404
1991	174 591	- 3 154	7 113	164 324	- 10 267
1992	164 324	7 763	7 362	164 725	401
1993	164 725	1 356	7 237	158 844	- 5 881
1994	158 844	18 606	7 810	169 640	10 796
1995	169 640	36 553	8 743	197 450	27 810
1996	197 450	23 190	9 535	211 105	13 655
1997	211 105	32 694	13 962	229 837	18 732
1998	229 837	6 850	16 173	220 514	- 9 323
1999	220 514	41 744	14 200	248 058	27 544
2000	248 058	55 129	16 361	286 826	38 768
2001	286 826	19 355	16 954	289 227	2 401
2002	289 227	49 782	17 264	321 745	32 518
2003	321 745	19 655	18 401	322 999	1 254
2004	322 999	30 406	22 537	330 868	7 869
2005	330 868	87 940	25 555	393 253	62 385
2006	393 253	381 799	27 161	747 891	354 638
2007	747 891	67 929	29 230	786 590	38 699
2008	786 590	302 304	32 030	1 056 864	270 274
2009	1 056 864	33 963	33 033	1 057 794	930
<i>Break in data series</i>					
2010	21 554 000	-	-	21 509 000	- 45 000
2011	21 509 000	-	-	21 461 000	- 48 000
2012	21 461 000	-	-	21 403 000	- 58 000
2013	21 403 000	-	-	21 339 000	- 64 000
2014	21 339 000	-	-	21 265 000	- 74 000
2015	21 265 000	-	-	21 185 000	- 80 000
2016	21 185 000	-	-	21 109 585	- 75 415
2017	21 109 585	-	-	21 185 000	75 415
2018	21 185 000	-	-	21 025 837	- 159 163

Developed bitumen reserves are those recoverable from developed experimental/demonstration and commercial projects.

*Preliminary estimate. Corrections to previous year cumulative production included with gross additions.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.6

DEVELOPED NON-CONVENTIONAL RESERVES
MINING - UPGRADED AND BITUMEN
 1968 - 2018
 Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production*	Remaining at End of Year	Net Change in Reserves during Year
1968	-	1 009 079	859	1 008 220	1 008 220
1969	1 008 220	- 123	1 547	1 006 550	- 1 670
1970	1 006 550	- 56	1 920	1 004 574	- 1 976
1971	1 004 574	-	2 476	1 002 098	- 2 476
1972	1 002 098	7	2 991	999 114	- 2 984
1973	999 114	-	2 931	996 183	- 2 931
1974	996 183	-	2 682	993 501	- 2 682
Break in Series**					
1975	993 501	- 748 466	2 506	242 529	- 750 972
1976	242 529	-	2 809	239 720	- 2 809
1977	239 720	-	2 640	237 080	- 2 640
1978	237 080	-	3 762	233 318	- 3 762
1979	233 318	7 938	5 349	235 907	2 589
1980	235 907	20	7 410	228 517	- 7 390
1981	228 517	-	6 446	222 071	- 6 446
1982	222 071	-	6 959	215 112	- 6 959
1983	215 112	-	9 258	205 854	- 9 258
Break in Series**					
1984	205 854	67 900	7 782	265 972	60 118
1985	265 972	-	9 745	256 227	- 9 745
Break in Series**					
1986	256 227	15 352	10 758	260 821	4 594
1987	260 821	12 860	10 423	263 258	2 437
1988	263 258	41 400	11 691	292 967	29 709
1989	292 967	45 000	11 975	325 992	33 025
1990	325 992	-	12 128	313 864	- 12 128
1991	313 864	20 100	13 227	320 737	6 873
1992	320 737	-	13 906	306 831	- 13 906
1993	306 831	-	14 256	292 575	- 14 256
1994	292 575	32 994	15 236	310 333	17 758
1995	310 333	113 787	16 153	407 967	97 634
1996	407 967	-	16 190	391 777	- 16 190
1997	391 777	-	18 926	372 851	- 18 926
1998	372 851	97 173	17 528	452 496	79 645
1999	452 496	367 646	20 232	799 910	347 414
2000	799 910	14 742	18 393	796 259	- 3 651
2001	796 259	5 574	20 125	781 708	- 14 551
2002	781 708	19 192	25 264	775 636	- 6 072
2003	775 636	82 649	29 844	828 441	52 805
2004	828 441	47 338	34 544	841 235	12 794
2005	841 235	163 633	31 553	973 315	132 080
2006	973 315	474 721	38 389	1 409 647	436 332
2007	1 409 647	1 713	40 344	1 371 016	- 38 631
2008	1 371 016	118 236	38 322	1 450 930	79 914
2009	1 450 930	367 160	44 910	1 773 180	5 439 000
Break in data series					
2010	5 439 000	-	-	5 389 000	- 50 000

Table 2.6

DEVELOPED NON-CONVENTIONAL RESERVES
MINING - UPGRADED AND BITUMEN
1968 - 2018
Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production*	Remaining at End of Year	Net Change in Reserves during Year
2011	5 389 000	-	-	5 337 000	- 52 000
2012	5 337 000	-	-	5 283 000	- 54 000
2013	5 283 000	-	-	5 226 000	- 57 000
2014	5 226 000	-	-	5 166 000	- 60 000
2015	5 166 000	-	-	5 099 000	- 67 000
2016	5 099 000	-	-	5 034 213	- 64 787
2017	5 034 213	-	-	5 099 000	64 787
2018	5 099 000			4 963 046	- 135 954

*Preliminary estimate. Corrections to previous year cumulative production included with gross additions.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

NON-CONVENTIONAL RESERVES IN CANADA
INITIAL VOLUME IN PLACE, INITIAL ESTABLISHED & REMAINING
AT 2018-12-31

	Initial Volume in Place	Initial Established Reserves	Remaining Established Reserves
SURFACE MINING - INTEGRATED SYNTHETIC CRUDE OIL			
Thousand Cubic Metres			
Alberta	20 800 000	6 157 000	5 037 896
Total Canada	20 800 000	6 157 000	5 037 896
SULPHUR			
Thousand Tonnes			
Alberta			93 800
Total Canada			93 800
Developed upgraded bitumen reserves are those recoverable from developed commercial projects			
IN-SITU RAW BITUMEN			
Thousand Cubic Metres			
Alberta	272 300 000	21 935 000	20 942 104
Total Canada	272 300 000	21 935 000	20 942 104

Developed bitumen reserves are those recovered from developed experimental / demonstration and commercial projects

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data

**MARKETABLE NATURAL GAS
REMAINING ESTABLISHED RESERVES IN CANADA**

2018

Million Cubic Metres at 101.325 kPa and 15°C

	Remaining Reserves at Previous Year	Remaining Reserves at Current Year	Net Changes in Reserves
NATURAL GAS			
British Columbia	1 258 977	1 155 989	(102 988)
Alberta	749 045	781 000	31 955
Saskatchewan	40 235	36 293	(3 942)
Ontario	18 898	18 814	(84)
New Brunswick	2 545	2 490	(55)
Mainland Territories	12 554	12 554	-
Eastcoast Offshore	740	740	-
TOTAL MARKETABLE NATURAL GAS	2 082 994	2 007 881	(75 114)

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.8

MARKETABLE NATURAL GAS
REMAINING ESTABLISHED RESERVES IN CANADA
1955 - 2018
Million Cubic Metres at 101.325 kPa and 15°C

	Remaining at Beginning Of Year	Gross Additions	Net Change in Underground Storage	Net Production	Remaining at End of Year	Net Change in Reserves during Year
1955	355 802	60 724	102	4 110	412 518	56 716
1956	412 518	79 089	117	5 426	486 298	73 780
1957	486 298	34 215	79	6 862	513 730	27 432
1958	513 730	72 877	60	9 437	577 230	63 500
1959	577 230	94 059	966	12 347	659 908	82 678
1960	659 908	113 847	153	13 378	760 530	100 622
1961	760 530	91 169	- 8	19 544	832 147	71 617
1962	832 147	70 930	- 11	23 554	879 512	47 365
1963	879 512	74 749	721	25 459	929 523	50 011
Break in Series						
1964	1 054 466	257 146	782	28 436	1 283 958	229 492
1965	1 283 958	62 203	- 218	30 642	1 315 301	31 343
1966	1 315 301	110 766	505	31 704	1 394 868	79 567
1967	1 394 868	86 355	116	34 262	1 447 077	52 209
1968	1 447 077	136 443	- 35	39 300	1 544 185	97 108
1969	1 544 185	137 938	62	43 854	1 638 331	94 146
1970	1 638 331	128 611	569	50 690	1 716 821	78 490
1971	1 716 821	101 860	2	55 027	1 763 656	46 835
1972	1 763 656	21 822	- 157	63 329	1 721 992	- 41 664
1973	1 721 992	70 228	1 975	65 514	1 728 681	6 689
1974	1 728 681	169 925	294	67 434	1 831 466	102 785
1975	1 831 466	261 729	842	66 522	2 027 515	196 049
1976	2 027 515	209 181	- 311	71 595	2 164 790	137 275
1977	2 164 790	134 970	1 316	70 234	2 230 842	66 052
1978	2 230 842	157 213	97	65 939	2 322 213	91 371
1979	2 322 213	247 681	299	74 136	2 496 057	173 844
1980	2 496 057	66 784	- 936	70 041	2 491 864	- 4 193
1981	2 491 864	138 614	264	67 769	2 562 973	71 109
1982	2 562 973	95 498	2 069	69 490	2 591 050	28 077
1983	2 591 050	87 478	- 3 226	62 707	2 612 595	21 545
1984	2 612 595	275 000		79 014	2 808 581	195 986
1985	2 808 581	57 764		82 422	2 783 923	- 24 658
1986	2 783 923	38 554		76 967	2 745 510	- 38 413
1987	2 745 510	27 141		79 868	2 692 783	- 52 727
1988	2 692 783	78 870		101 108	2 670 545	- 22 238
1989	2 670 545	163 947		102 043	2 732 449	61 904
1990	2 732 449	99 637		106 696	2 725 390	- 7 059
1991	2 725 390	96 231		110 752	2 710 869	- 14 521
1992	2 710 869	79 685		119 000	2 671 554	- 39 315
1993	2 671 554	- 297 266		142 032	2 232 256	- 439 298
1994	2 232 256	- 188 609		145 661	1 897 986	- 334 270
1995	1 897 986	181 613		150 705	1 928 894	30 908
1996	1 928 894	70 649		158 380	1 841 163	- 87 731
1997	1 841 163	122 717		155 185	1 808 695	- 32 468
1998	1 808 695	103 675		164 819	1 747 551	- 61 144
1999	1 747 551	140 562		169 215	1 718 898	- 28 653
2000	1 718 898	136 443		172 422	1 682 919	- 35 979

Table 2.8

MARKETABLE NATURAL GAS
REMAINING ESTABLISHED RESERVES IN CANADA
1955 - 2018
Million Cubic Metres at 101.325 kPa and 15°C

	Remaining at Beginning Of Year	Gross Additions	Net Change in Underground Storage	Net Production	Remaining at End of Year	Net Change in Reserves during Year
2001	1 682 919	192 260		181 427	1 693 752	10 833
2002	1 693 752	150 620		180 167	1 664 205	- 29 547
2003	1 664 205	100 765		170 969	1 594 001	- 70 204
2004	1 594 001	173 244		174 203	1 593 042	- 959
2005	1 593 042	214 954		175 436	1 632 560	39 518
2006	1 632 560	183 205		176 053	1 639 712	7 152
2007	1 639 712	168 974		174 862	1 633 824	- 5 888
2008	1 633 824	285 263		164 853	1 754 234	120 410
2009	1 754 234	129 614		156 398	1 727 450	- 26 784
<i>Break in data series</i>						
2010	1 785 889				1 976 977	191 088
2011	1 976 977				1 920 518	- 61 985
2012	1 920 518				1 999 454	102 099
2013	1 999 454				2 027 703	28 249
2014	2 027 703				1 987 249	- 40 454
2015	1 987 249				2 118 080	130 831
2016	2 118 080				2 095 148	- 22 932
2017	2 095 148				2 082 994	- 12 154
2018	2 082 994				2 007 881	- 75 113

*Preliminary estimate. Corrections to previous year cumulative production included with gross additions.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

MARKETABLE NATURAL GAS
REMAINING ESTABLISHED RESERVES IN CANADA
AT YEAR END
1962 - 2018

Million Cubic Metres at 101.325 kPa & 15°C

Mainland Territories (S. 68° N)	Mackenzie Delta/ Beaufort Sea	Arctic Isles	British Columbia	Alberta	Saskatchewan	Ontario	Other Eastern Canada*	Eastcoast Offshore	Canada
1962	2 407		165 684	791 990	22 831	-	5 683		988 595
1963	2 407		174 404	848 856	22 813	-	5 986		1 054 466
1964	2 407		224 655	1 028 177	24 196	4 481	42		1 283 958
1965	5 183		210 655	1 069 137	25 051	5 233	42		1 315 301
1966	7 797		230 813	1 124 191	26 299	5 712	56		1 394 868
1967	8 397		249 938	1 157 618	25 345	5 716	63		1 447 077
1968	8 538		249 700	1 254 752	24 569	6 570	56		1 544 185
1969	39 536		250 057	1 312 279	29 130	7 280	49		1 638 331
1970	39 552		287 025	1 352 610	28 955	8 637	42		1 716 821
1971	49 413		280 562	1 397 192	28 305	8 152	32		1 763 656
1972	49 145		267 060	1 369 171	29 284	7 287	45		1 721 992
1973	32 507		256 380	1 396 794	36 032	6 929	39		1 728 681
1974		161 242	221 436	1 406 558	35 393	6 805	32		1 831 466
1975		328 712	209 206	1 448 744	33 225	7 598	30		2 027 515
1976		473 990	201 553	1 448 836	31 959	8 408	44		2 164 790
1977	22 103	187 064	291 178	209 704	1 478 270	33 141	9 046	336	2 230 842
1978	16 863	185 880	306 617	218 365	1 549 716	35 333	9 106	333	2 322 213
1979	16 211	184 123	397 619	207 363	1 646 392	35 431	8 586	332	2 496 057
1980	15 102	184 123	380 551	208 694	1 661 442	33 651	7 975	326	2 491 864
1981	11 581	184 123	380 551	222 280	1 723 130	32 557	8 434	317	2 562 973
1982	11 412	212 810	380 551	220 588	1 728 364	28 282	8 815	228	2 591 050
1983	11 767	212 810	380 551	222 191	1 744 766	27 650	12 639	221	2 612 595
1984	11 580	245 010	389 390	223 996	1 898 815	26 962	12 698	130	2 808 581
1985	11 372	258 310	406 370	243 548	1 827 058	25 801	11 310	154	2 783 923
1986	11 636	258 310	406 370	240 307	1 749 997	61 305	17 444	141	2 745 510
1987	11 272	258 310	406 370	210 327	1 727 725	60 705	17 949	125	2 692 783
1988	11 205	280 130	406 370	210 094	1 688 054	56 283	18 311	98	2 670 545
1989	10 987	298 730	406 370	218 393	1 705 559	74 791	17 529	90	2 732 449
1990	10 913	298 730	406 370	223 638	1 689 884	78 880	16 903	72	2 725 390
1991	10 029	298 730	406 370	229 215	1 678 553	71 182	16 718	72	2 710 869
1992	9 883	298 730	406 370	247 335	1 621 875	70 409	16 881	71	2 671 554
1993	9 355	298 730	-	246 957	1 578 959	80 927	17 217	111	2 232 256
1994	9 297	-	-	242 227	1 547 635	85 301	13 415	111	1 897 986
1995	8 869	-	-	253 540	1 567 785	86 609	11 982	109	1 928 894
1996	9 583	-	-	253 502	1 483 710	81 805	12 454	109	1 841 163
1997	8 963	-	-	247 432	1 392 709	76 528	12 458	105	70 500 1 808 695
1998	8 523	-	-	238 599	1 346 172	71 471	12 181	105	70 500 1 747 551
1999	17 025	-	-	238 973	1 311 707	68 595	11 993	105	70 500 1 718 898
2000	16 079	-	-	249 479	1 262 949	75 633	11 591	105	67 083 1 682 919
2001	15 026	-	-	251 451	1 272 232	81 730	11 513	105	61 695 1 693 752
2002	12 656	-	-	254 661	1 252 562	76 649	11 419	105	56 153 1 664 205
2003	12 456	-	-	259 905	1 198 748	87 877	11 586	105	23 324 1 594 001
2004	11 872	-	-	289 432	1 175 892	85 007	11 456	105	19 278 1 593 042
2005	11 260	-	-	347 833	1 153 480	91 614	13 021	105	15 247 1 632 560
2006	10 241	-	-	367 653	1 131 234	98 829	20 006	105	11 644 1 639 712
2007	9 995	-	-	375 929	1 124 930	95 060	19 842	105	7 963 1 633 824
2008	10 089	-	-	483 051	1 138 557	88 621	19 637	105	14 174 1 754 234
2009	10 000	-	-	534 208	1 072 114	81 026	19 418	105	10 579 1 727 450
Break in Data Series									
2010	13 006	-	-	782 049	1 092 700	58 315	19 208	3 900	7 800 1 976 977
2011	12 866	-	-	805 764	1 007 000	53 411	18 983	3 806	5 122 1 906 952
2012	12 736	-	-	948 690	972 400	52 105	6 721	3 713	3 089 1 999 454
2013	12 647	-	-	1 001 128	949 000	51 206	6 535	3 443	3 744 2 027 703
2014	12 561	-	-	997 487	913 100	51 602	6 385	3 415	2 573 1 987 123
2015	12 503	-	-	1 216 740	829 126	49 306	6 780	2 883	742 2 118 080
2016	12 560	-	-	1 258 977	758 438	42 885	19 000	2 546	742 2 095 148
2017	12 554	-	-	1 258 977	749 045	40 235	18 898	2 545	740 2 082 994
2018	12 554	-	-	1 155 989	781 000	36 293	18 814	2 490	740 2 007 881

* Note: Effective 2010 New Brunswick included. Prior years was "Other Eastern Canada"

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

NATURAL GAS LIQUIDS
REMAINING ESTABLISHED RESERVES IN CANADA
2018
Thousand Cubic Metres

	Remaining Reserves at Previous Year	Remaining Reserves at Current Year	Net Change in Reserves
ETHANE, PROPANE & BUTANES			
Conventional Areas			
British Columbia	102 200	125 400	23 200
Alberta	177 000	187 000	10 000
TOTAL LIQUIFIED PETROLEUM GASES	279 200	312 400	33 200

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.10

NATURAL GAS LIQUIDS
REMAINING ESTABLISHED RESERVES IN CANADA
1952 - 2018
Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production*	Remaining at End of Year	Net Change in Reserves during Year
1952	1 802	8 677	98	10 381	8 579
1953	10 381	21 279	198	31 462	21 081
1954	31 462	1 851	230	33 083	1 621
1955	33 083	6 535	381	39 237	6 154
1956	39 237	5 639	422	44 454	5 217
1957	44 454	18 698	480	62 672	18 218
1958	62 672	14 997	779	76 890	14 218
1959	76 890	3 911	1 060	79 741	2 851
1960	79 741	7 134	1 358	85 517	5 776
1961	85 517	8 080	2 182	91 415	5 898
1962	91 415	22 744	3 737	110 422	19 007
Break in Series					
1963	130 962	4 160	4 345	130 777	- 185
1964	130 777	33 444	6 532	157 689	26 912
1965	157 689	8 333	7 555	158 467	778
1966	158 467	59 803	7 874	210 396	51 929
1967	210 396	13 331	9 001	214 726	4 330
1968	214 726	40 856	9 730	245 852	31 126
1969	245 852	41 834	10 530	277 156	31 304
1970	277 156	21 639	12 529	286 266	9 110
1971	286 266	- 14 008	13 454	258 804	- 27 462
1972	258 804	7 588	16 458	249 934	- 8 870
1973	249 934	5 648	17 767	237 815	- 12 119
1974	237 815	26 165	17 239	246 741	8 926
1975	246 741	11 850	16 862	241 729	- 5 012
1976	241 729	13 878	16 826	238 781	- 2 948
1977	238 781	6 669	17 940	227 510	- 11 271
1978	227 510	15 216	13 064	229 662	2 152
1979	229 662	- 9 231	13 393	207 038	- 22 624
1980	207 038	9 211	13 103	203 146	- 3 892
1981	203 146	2 816	12 169	193 793	- 9 353
1982	193 793	15 579	11 394	197 978	4 185
1983	197 978	15 252	10 453	202 777	4 799
1984	202 777	64 558	14 422	252 913	50 136
1985	252 913	82 748	14 904	320 757	67 844
1986	320 757	33 018	14 990	338 785	18 028
1987	338 785	23 795	14 465	348 115	9 330
1988	348 115	18 629	18 545	348 199	84
1989	348 199	38 609	19 509	367 299	19 100
1990	367 299	11 450	17 898	360 851	- 6 448
1991	360 851	41 412	19 135	383 128	22 277
1992	383 128	- 20 072	19 689	343 367	- 39 761
1993	343 367	18 166	23 401	338 132	- 5 235
1994	338 132	- 1 630	26 383	310 119	- 28 013
1995	310 119	33 722	27 300	316 541	6 422
1996	316 541	20 077	25 431	311 187	- 5 354
1997	311 187	23 546	33 600	301 133	- 10 054
1998	301 133	17 754	27 998	290 889	- 10 244
1999	290 889	5 739	26 670	269 958	- 20 931
2000	269 958	34 069	28 274	275 753	5 795

June 2019

Table 2.10

NATURAL GAS LIQUIDS
REMAINING ESTABLISHED RESERVES IN CANADA
1952 - 2018
Thousand Cubic Metres

	Remaining at Beginning of Year	Gross Additions	Net Production*	Remaining at End of Year	Net Change in Reserves during Year
2001	275 753	9 761	26 298	259 216	- 16 537
2002	259 216	14 940	26 824	247 332	- 11 884
2003	247 332	- 20 690	26 646	199 996	- 47 336
2004	199 996	24 798	28 425	196 369	- 3 627
2005	196 369	29 474	30 055	195 788	- 581
2006	195 788	36 891	30 096	202 583	6 795
2007	202 583	13 519	29 101	187 001	- 15 582
2008	187 001	40 870	27 609	200 262	13 261
2009	200 262	23 187	27 362	196 087	- 4 175
<i>Break in data series</i>					
2010	246 500			241 500	- 5 000
2011	241 500			236 900	- 3 000
2012	238 500			250 400	11 900
2013	250 400			265 000	14 600
2014	265 000			283 000	18 000
2015	283 000			291 900	8 900
2016	291 900			265 500	- 26 400
2017	265 500			279 200	13 700
2018	279 200			312 400	33 200

*Preliminary estimate. Corrections to previous year cumulative production included with gross additions.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.11

**NGL'S / ETHANE, PROPANE & BUTANE
REMAINING ESTABLISHED RESERVES IN CANADA
AT YEAR END
1962 - 2018
Thousand Cubic Metres**

Main Terr. (S. 68° N)	Mac Delta/ Beau Sea	Arctic Isles	British Columbia	Alberta	Sask.	Manitoba	Canada
1962	-	-	6 265	122 845	1 852	-	130 962
1963	-	-	5 638	124 008	1 131	-	130 777
1964	-	-	7 330	149 071	1 288	-	157 689
1965	-	-	6 266	150 911	1 290	-	158 467
1966	-	-	6 695	201 454	2 247	-	210 396
1967	-	-	6 728	205 764	2 234	-	214 726
1968	-	-	6 068	237 789	1 995	-	245 852
1969	-	-	6 035	269 430	1 691	-	277 156
1970	-	-	6 143	278 197	1 926	-	286 266
1971	-	-	6 069	251 002	1 733	-	258 804
1972	-	-	6 533	241 777	1 624	-	249 934
1973	-	-	6 558	229 740	1 517	-	237 815
1974	6 034	-	6 150	233 132	1 425	-	246 741
1975	6 528	-	5 828	227 790	1 583	-	241 729
1976	8 503	-	6 612	222 162	1 504	-	238 781
1977	8 435	-	5 055	212 281	1 739	-	227 510
1978	8 381	-	4 985	214 676	1 620	-	229 662
1979	-	-	2 480	109 920	1 146	-	113 546
1980	1 960	-	2 455	104 911	1 007	-	110 333
1981	305	-	3 036	98 989	922	-	103 252
1982	305	-	2 861	99 655	875	-	103 696
1983	305	-	3 096	104 953	783	-	109 137
1984	305	-	2 951	131 480	716	13	135 465
1985	305	-	3 821	163 943	673	77	168 819
1986	-	-	3 757	194 078	915	68	198 818
1987	-	-	3 222	204 939	1 767	63	209 991
1988	-	-	3 164	210 092	1 641	58	214 955
1989	-	-	6 841	221 296	1 522	54	229 713
1990	-	-	6 346	220 182	1 473	48	228 049
1991	-	-	6 727	235 758	1 385	43	243 913
1992	-	-	6 418	207 617	1 278	39	215 352
1993	-	-	10 736	196 325	1 542	36	208 639
1994	-	-	11 079	183 902	1 689	33	196 703
1995	-	-	11 031	189 194	1 750	29	202 004
1996	-	-	11 063	186 547	1 703	55	199 368
1997	-	-	11 985	172 979	1 290	-	186 254
1998	-	-	11 597	167 138	1 154	-	179 889
1999	-	-	11 135	157 027	1 019	-	169 181
2000	-	-	12 067	158 974	1 010	-	172 051
2001			11 848	156 786	981	-	169 615
2002			10 819	153 166	1 000	-	164 985
2003			11 122	114 221	1 029	-	126 372
2004			11 658	113 269	888	-	125 815
2005			13 428	110 801	851	-	125 080
2006			17 377	113 171	812	-	131 360
2007			18 222	101 226	725	-	120 173
2008			24 895	107 823	1 130	-	133 848
2009			25 863	105 164	1 104	-	132 131
Break in Series							
2010			28 900	208 000 na			236 900

**NGL'S / ETHANE, PROPANE & BUTANE
REMAINING ESTABLISHED RESERVES IN CANADA
AT YEAR END
1962 - 2018
Thousand Cubic Metres**

Main Terr. (S. 68° N)	Mac Delta/ Beau Sea	Arctic Isles	British Columbia	Alberta	Sask.	Manitoba	Canada
2011			30 500	208 000 na			238 500
2012			44 000	206 400 na			250 400
2013			53 600	211 400 na			265 000
2014			77 800	205 200 na			283 000
2015			93 900	198 000 na			291 900
2016			102 200	171 600 na			273 800
2017			102 200	177 000 na			279 200
2018			125 400	187 000 na			312 400

Note: Prior to 1979, LPG & Pentanes Plus combined into NGL

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.12

PENTANES PLUS
REMAINING ESTABLISHED RESERVES IN CANADA
AT YEAR END
1979 - 2018
Thousand Cubic Metres

Main Terr. (S. 68° N)	Mac Delta/ Beau Sea	Arctic Isles	British Columbia	Alberta	Saskatchewan	Manitoba	E. Coast Offshore	Canada
1979	0	8 302	-	2 416	82 424	350	0	93 492
1980	195	8 302	4 732	2 431	76 848	305	0	92 813
1981	195	8 302	4 732	2 961	74 078	273	0	90 541
1982	195	9 552	4 732	2 918	76 639	246	0	94 282
1983	195	9 552	4 732	3 155	75 761	245	0	93 640
1984	195	10 666	6 647	3 114	96 552	267	0	117 441
1985	195	11 206	6 617	4 448	129 187	252	33	151 938
1986	2 067	11 206	6 617	4 399	115 405	240	33	139 967
1987	752	11 206	6 617	3 891	115 056	572	30	138 124
1988	708	12 203	6 617	3 811	109 343	534	28	133 244
1989	357	11 671	6 617	4 260	114 157	498	26	137 586
1990	327	11 671	6 617	4 024	109 636	503	24	132 802
1991	866	11 671	6 617	4 681	114 881	477	22	139 215
1992	796	11 671	6 617	4 685	103 779	446	21	128 015
1993	725	11 671	0	5 618	110 966	493	20	129 493
1994	2 685	0	0	5 640	104 554	518	19	113 416
1995	2 560	0	0	5 737	105 818	405	17	114 537
1996	5 466	0	0	5 840	100 094	383	36	111 819
1997	5 277	0	0	5 734	92 742	342	0	114 879
1998	5 208	0	0	5 546	89 134	328	0	111 000
1999	3 360	0	0	5 198	81 148	287	0	100 777
2000	2 974	0	0	5 477	84 279	280	0	103 702
2001	2 910	0	0	5 676	70 194	265	0	89 601
2002	2 848	0	0	5 896	62 900	295	0	82 347
2003	2 789	0	0	5 874	56 865	295	0	73 624
2004	2 731	0	0	6 477	53 536	262	0	70 554
2005	2 676	0	0	6 640	53 782	247	0	70 708
2006	2 616	0	0	8 220	52 984	237	0	71 223
2007	2 559	0	0	7 230	49 893	203	0	6 943
2008	2 501	0	0	9 460	48 627	372	0	66 828
2009	2 441	0	0	9 959	46 510	361	0	66 414
								63 956
<i>Break in Data Series</i>								
2010	na	na	na	11 100	48 700	na	na	64 068
2011	na	na	na	11 300	46 500	na	na	62 068
2012	na	na	na	16 200	45 500	na	na	65 968
2013	na	na	na	20 800	44 900	na	na	69 968
2014	na	na	na	29 700	42 700	na	na	76 668
2015	na	na	na	30 900	40 700	na	na	75 868
2016	na	na	na	32 900	35 300	na	na	72 468
2017	na	na	na	40 800	37 700	na	na	82 768
2018	na	na	na	39 935	40 400	na	na	84 603

Note: Prior to 1979, LPG & Pentanes Plus combined into NGL on Table 2.15

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

SULPHUR
REMAINING ESTABLISHED RESERVES IN CANADA
2018
Thousand Tonnes

	Remaining Reserves at Previous Year	Remaining Reserves at Current Year	Net Change in Reserves
RECOVERABLE FROM			
NATURAL GAS RESERVES			
British Columbia	13 900	13 623	- 277
Alberta	18 104	17 900	- 204
Total	32 004	31 523	- 481
RECOVERABLE FROM			
DEVELOPED OIL SANDS MINING			
CRUDE OIL RESERVES			
Alberta	89 600	87 300	-2 300
Total	121 604	118 823	-2 781

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Table 2.13

SULPHUR
REMAINING ESTABLISHED RESERVES IN CANADA
1960 - 2018
Thousand Tonnes

	Remaining at Beginning of Year	Gross Additions	Net Production	Remaining at End of Year	Net Change in Reserves during Year	From Developed Mining Reserves
1959	47 489	4 402	277	51 614	4 125	
1960	51 614	4 842	442	56 014	4 400	
1961	56 014	3 383	517	58 880	2 866	
1962	58 880	-952	1 043	56 885	-1 995	
Break in Series						
1963	62 286	2 767	1 259	63 794	1 508	
1964	63 794	27 077	1 502	89 369	25 575	
1965	89 369	-3 118	1 562	84 689	-4 680	
1966	84 689	21 504	1 701	104 492	19 803	
1967	104 492	7 816	2 128	110 180	5 688	
1968	110 180	19 505	2 978	126 707	16 527	41 470
1969	126 707	17 789	3 592	140 904	14 197	41 422
1970	140 904	31 695	4 195	168 404	27 500	41 374
1971	168 404	5 139	4 376	169 167	763	41 323
1972	169 167	4 116	5 072	168 211	-956	41 232
1973	168 211	-3 260	6 424	158 527	-9 684	41 127
1974	158 527	-16 170	6 775	135 582	-22 945	41 030
1975	135 582	-14 728	6 242	114 612	-20 970	9 448
1976	114 612	5 087	6 381	113 318	-1 294	9 294
1977	113 318	13 051	6 329	120 040	6 722	9 247
1978	120 040	4 696	5 275	119 461	-579	9 129
1979	119 461	-4 223	5 795	109 443	-10 018	8 760
1980	109 443	-727	5 487	103 229	-6 214	8 471
1981	103 229	-1 187	4 987	97 055	-6 174	8 225
1982	97 055	1 243	4 742	93 556	-3 499	7 966
1983	93 556	1 607	3 746	91 417	-2 139	7 635
1984	91 417	3 520	5 257	89 680	-1 737	9 417
1985	89 680	10 136	5 202	94 614	4 934	9 025
1986	94 614	-3 305	5 161	86 148	-8 466	10 601
1987	86 148	21 485	5 269	102 364	16 216	10 665
1988	102 364	8 460	8 021	102 803	439	12 041
1989	102 803	5 055	5 005	102 853	50	13 350
1990	102 853	7 275	5 137	104 991	2 138	12 849
1991	104 991	2 238	5 489	101 740	-3 251	13 499
1992	101 740	6 895	5 771	102 864	1 124	12 920
1993	102 864	-2 906	6 069	93 889	-8 975	12 321
1994	93 889	11 468	6 944	98 413	4 524	13 091
1995	98 413	2 057	6 871	93 599	-4 814	17 124
1996	93 599	2 281	7 463	88 417	-5 182	16 467
1997	88 417	-1 189	7 202	80 026	-8 391	15 782
1998	80 026	4 346	7 787	76 585	-3 441	18 711
1999	76 585	5 261	8 367	73 479	-3 106	37 245
2000	73 479	9 457	7 640	75 296	1 817	37 307
2001	75 296	-1 545	7 145	66 606	-8 690	36 705
2002	66 606	-2 462	6 945	57 199	-9 407	37 580
2003	57 199	5 690	6 431	56 458	-741	38 464
2004	56 458	6 172	6 388	56 242	-216	39 020
2005	56 242	4 940	6 024	55 158	-1 084	38 183
2006	55 158	-290	6 103	48 765	-6 393	44 773
2007	48 765	7 737	5 596	50 906	2 141	43 251
2008	50 906	-2 393	5 014	43 499	-7 407	41 834

Table 2.13

SULPHUR
REMAINING ESTABLISHED RESERVES IN CANADA
1960 - 2018
Thousand Tonnes

	Remaining at Beginning of Year	Gross Additions	Net Production	Remaining at End of Year	Net Change in Reserves during Year	From Developed Mining Reserves
2009	43 499	2 653	4 373	41 779	-1 720	40 952
<i>Break in data series</i>						
2010	40 400	-	-	36 900	-3 500	154 000
2011	36 900	-	-	34 600	-2 300	152 200
2012	34 600	-	-	36 500	1 900	100 100
2013	36 500	-	-	37 100	600	98 000
2014	37 100	-	-	33 100	-4 000	95 900
2015	33 100	-	-	31 676	-1 424	93 800
2016	31 676	-	-	29 800	-1 876	87 300
2017	29 800	-	-	32 004	2 204	89 600
2018	32 004	-	-	31 523	-481	87 300

*Preliminary estimate. Corrections to previous year cumulative production included with gross additions.

Note: Sulphur recoverable from natural gas reserves only.

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

SULPHUR
REMAINING ESTABLISHED RESERVES IN CANADA
AT YEAR END
1962 - 2018
 Thousand Tonnes

	British Columbia	Alberta	Saskatchewan	From Natural Gas Reserves	From Developed Mining Reserves	TOTAL CANADA
1962	2 533	59 737	16	62 286	-	62 286
1963	2 721	61 057	16	63 794	-	63 794
1964	3 226	86 129	14	89 369	-	89 369
1965	2 765	81 911	14	84 690	-	84 690
1966	3 164	101 322	6	104 492	-	104 492
1967	3 018	107 156	6	110 180	-	110 180
1968	3 136	123 564	7	126 707	41 470	168 177
1969	2 770	138 113	21	140 904	41 422	182 326
1970	2 644	165 738	22	168 404	41 374	209 778
1971	2 734	166 410	23	169 167	41 323	210 490
1972	2 393	165 794	24	168 211	41 232	209 443
1973	2 293	156 202	32	158 527	41 127	199 654
1974	2 161	133 402	19	135 582	41 030	176 612
1975	2 151	112 431	30	114 612	9 448	124 060
1976	2 303	110 985	30	113 318	9 294	122 612
1977	11 491	108 521	28	120 040	9 247	129 287
1978	11 973	107 462	26	119 461	9 129	128 590
1979	6 711	102 707	25	109 443	8 760	118 203
1980	6 587	96 617	25	103 229	8 471	111 700
1981	6 191	90 840	24	97 055	8 225	105 280
1982	5 924	87 632	-	93 556	7 966	101 522
1983	8 070	83 347	-	91 417	7 635	99 052
1984	8 433	81 247	-	89 680	9 417	99 097
1985	11 264	83 350	-	94 614	9 025	103 639
1986	10 930	75 218	-	86 148	10 601	96 749
1987	8 399	93 965	-	102 364	10 665	113 029
1988	9 069	93 734	-	102 803	12 041	114 844
1989	8 768	94 085	-	102 853	13 350	116 203
1990	9 143	95 848	-	104 991	12 849	117 840
1991	8 840	92 900	-	101 740	13 499	115 239
1992	14 521	88 343	-	102 864	12 920	115 784
1993	15 496	78 393	-	93 889	12 321	106 210
1994	15 431	82 982	-	98 413	13 091	111 504
1995	14 789	78 810	-	93 599	17 124	110 723
1996	14 994	73 423	-	88 417	16 467	104 884
1997	13 507	66 519	-	80 026	15 782	95 808
1998	13 089	63 496	-	76 585	18 711	95 296
1999	13 498	59 981	-	73 479	37 245	110 724
2000	13 288	62 008	-	75 296	37 307	112 603
2001	13 542	53 064	-	66 606	36 705	103 311
2002	13 735	43 464	-	57 199	37 580	94 779
2003	13 838	42 620	-	56 458	38 464	94 922
2004	13 780	42 462	-	56 242	39 020	95 262
2005	14 033	41 125	-	55 158	38 183	93 341
2006	13 630	35 135	-	48 765	44 773	93 538
2007	14 641	36 265	-	50 906	43 251	94 157
2008	13 805	29 694	-	43 499	41 834	85 333
2009	14 368	27 411	-	41 779	40 952	82 731
Break in Data Series						
2010	14 400	22 500	-	36 900	154 000	190 900
2011	13 700	20 900	-	34 600	152 200	186 800
2012	15 700	20 800	-	36 500	100 100	136 600
2013	17 700	19 400	-	37 100	98 000	135 100
2014	14 800	18 300	-	33 100	95 900	129 000
2015	14 400	17 276	-	31 676	93 800	125 476
2016	13 900	15 900	-	29 800	91 800	121 600
2017	13 100	18 104	-	31 204	89 600	120 804
2018	13 623	17 900	-	31 523	87 300	118 823

Note: New procedure adopted for estimating oil sands reserves commencing with the 1975, 1984 and 1986 report.
Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

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Section 3

Production

Table

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CANADIAN CRUDE OIL PRODUCTION

1947 - 2018

Cubic Metres

	Northwest Territories	British Columbia	Alberta	Saskatchewan	Manitoba	Western Canada	Ontario	New Brunswick	Eastcoast Offshore	Eastern Canada	Canada
Pre 1947	354 677	-	12 044 374	24 376	-	12 423 427	4 920 550	66 262		4 986 812	17 410 239
1947	36 842	-	1 014 174	82 808	-	1 133 824	20 864	3 631		24 495	1 158 319
1948	55 605	-	1 669 338	133 946	-	1 858 889	28 125	3 396		31 521	1 890 410
1949	29 046	-	3 141 308	123 977	-	3 294 331	41 423	3 106		44 529	3 338 860
1950	30 109	-	4 314 306	165 190	-	4 509 605	39 832	2 683		42 515	4 552 120
1951	36 164	-	7 283 821	198 224	1 854	7 520 063	31 332	2 402		33 734	7 553 797
1952	49 932	-	9 349 732	269 662	17 022	9 686 348	30 481	2 335		32 816	9 719 164
1953	50 325	-	12 188 729	443 593	104 192	12 786 839	47 623	2 342		49 965	12 836 804
1954	58 779	-	13 919 414	861 753	341 410	15 181 356	65 546	2 074		67 620	15 248 976
1955	64 393	92	17 933 491	1 798 411	658 802	20 455 189	83 509	1 986		85 495	20 540 684
1956	71 416	23 591	22 832 519	3 349 441	919 730	27 196 697	94 293	3 357		97 650	27 294 347
1957	66 876	54 875	21 733 557	5 857 596	967 721	28 680 625	99 107	3 083		102 190	28 782 815
1958	70 773	81 635	17 872 829	7 091 503	926 322	26 043 062	123 686	2 414		126 100	26 169 162
1959	67 043	137 417	20 467 870	7 538 752	803 461	29 014 543	159 161	2 301		161 462	29 176 005
1960	72 343	137 914	20 753 825	8 248 768	757 054	29 969 904	159 709	2 248		161 957	30 131 861
1961	81 804	161 384	25 050 700	8 876 729	711 972	34 882 589	182 601	1 910		184 511	35 067 100
1962	95 042	1 415 084	26 249 871	10 238 954	623 989	38 622 940	180 289	1 642		181 931	38 804 871
1963	97 025	1 988 780	26 803 561	11 330 902	599 276	40 819 544	191 546	1 173		192 719	41 012 263
1964	91 813	1 831 513	27 868 136	12 935 978	701 923	43 429 363	198 110	745		198 855	43 628 218
1965	102 497	2 140 638	29 199 091	13 950 524	786 050	46 178 800	203 272	652		203 924	46 382 724
1966	115 949	2 643 973	32 179 289	14 813 291	831 248	50 583 750	210 362	1 089		211 451	50 795 201
1967	112 911	3 123 662	36 677 699	14 705 385	887 572	55 507 229	197 096	1 404		198 500	55 705 729
1968	119 753	3 520 072	39 972 539	14 602 120	986 024	59 200 508	182 870	1 215		184 085	59 384 593
1969	127 341	4 021 859	45 553 900	13 889 741	985 981	64 578 822	184 636	1 140		185 776	64 764 598
1970	134 438	4 025 754	52 399 500	14 220 317	939 175	71 719 184	166 612	1 537		168 149	71 887 333
1971	149 240	3 997 242	56 779 900	14 062 694	890 622	75 879 698	152 252	1 525		153 777	76 033 475
1972	141 456	3 787 007	67 508 300	13 767 933	835 380	86 040 076	139 540	1 385		140 925	86 181 001
1973	152 988	3 367 264	83 012 600	13 625 605	807 882	100 966 339	128 565	1 576		130 141	101 096 480
1974	158 806	2 994 500	79 108 300	11 725 945	754 667	94 742 218	116 708	1 262		117 970	94 860 188
1975	159 874	2 268 795	67 511 900	9 379 084	701 459	80 021 112	111 978	1 062		113 040	80 134 152
1976	142 416	2 366 299	60 908 200	8 885 931	633 322	72 936 168	99 812	865		100 677	73 036 845
1977	137 520	2 199 233	60 514 100	9 763 272	630 466	73 244 591	98 372	794		99 166	73 343 757
1978	145 649	2 003 724	60 015 300	9 624 550	598 354	72 387 577	95 144	636		95 780	72 483 357
1979	149 915	2 139 963	68 515 800	9 371 831	583 377	80 760 886	91 984	571		92 555	80 853 441
1980	160 542	2 002 128	63 200 800	9 330 839	563 482	75 257 791	93 882	475		94 357	75 352 148
1981	173 367	2 032 308	56 978 500	7 392 727	542 695	67 119 597	89 983	321		90 304	67 209 901
1982	173 294	2 076 533	54 383 700	8 104 366	582 223	65 320 116	85 638	103		85 741	65 405 857
1983	169 430	2 078 771	55 317 100	9 543 275	736 934	67 845 510	83 600	100		83 700	67 929 210
1984	174 724	2 094 156	59 886 000	10 812 499	793 284	73 760 663	90 500	100		90 600	73 851 263
1985	1 099 000	1 958 194	56 994 700	11 616 186	820 729	72 488 809	112 300	100		112 400	72 601 209
1986	1 527 700	2 019 450	53 081 700	11 690 644	823 322	69 142 816	135 500	100		135 600	69 278 416
1987	1 567 000	2 083 471	55 170 300	12 037 145	781 806	71 639 722	133 000	495		133 495	71 773 217
1988	1 803 000	1 882 038	57 652 600	12 249 366	768 563	74 355 567	190 570	367		190 937	74 546 504
1989	1 876 000	1 888 438	54 604 600	11 626 032	722 820	70 717 890	243 676	-		243 676	70 961 566

CANADIAN CRUDE OIL PRODUCTION

1947 - 2018

Cubic Metres

	Northwest Territories	British Columbia	Alberta	Saskatchewan	Manitoba	Western Canada	Ontario	New Brunswick	Eastcoast Offshore	Eastern Canada	Canada
1990	1 865 037	1 926 023	52 972 800	12 249 177	737 762	69 750 799	247 200	-		247 200	69 997 999
1991	1 926 500	2 012 833	52 089 500	12 420 084	712 792	69 161 709	235 249	-	576 511	235 249	69 396 958
1992	1 899 000	2 033 394	53 172 700	13 369 511	656 415	71 131 020	224 300	-	1 015 676	800 811	71 931 831
1993	1 846 408	1 995 703	54 547 500	14 972 109	634 561	73 996 281	253 400	-	1 313 345	1 269 076	75 265 357
1994	1 783 768	1 966 577	55 197 000	17 184 047	657 870	76 789 262	263 100	-	1 241 125	1 576 445	78 365 707
1995	1 734 561	2 021 484	55 395 000	18 674 847	642 650	78 468 542	284 763	-	1 034 311	1 302 110	81 577 177
1996	1 672 000	2 280 892	54 774 900	20 934 161	613 114	80 275 067	267 799	-	772 904	993 379	82 028 453
1997	1 584 630	2 540 059	52 818 300	23 455 404	636 681	81 035 074	220 475	-	4 738 885	4 957 485	82 777 488
1998	1 561 734	2 699 083	49 774 200	23 150 915	634 071	77 820 003	218 600	-	6 141 128	6 379 428	78 121 236
1999	1 549 052	2 361 149	45 541 700	21 708 701	581 206	71 741 808	238 300	-	8 394 275	8 625 475	81 007 212
2000	1 434 274	2 577 200	43 503 800	24 245 085	621 378	72 381 737	231 200	-	8 631 181	8 878 681	80 012 923
2001	1 432 198	2 573 005	41 735 200	24 750 931	642 908	71 134 242	247 500	-	16 587 721	16 805 721	83 989 753
2002	1 376 500	2 409 095	38 331 800	24 415 887	650 750	67 184 032	218 000	-	19 549 577	19 747 377	84 988 447
2003	1 283 130	2 486 413	36 506 445	24 332 312	632 770	65 241 070	197 800	-	18 248 635	18 401 683	82 006 193
2004	1 235 280	2 254 412	34 893 117	24 584 203	637 498	63 604 510	153 048	-	17 690 412	17 827 994	79 107 068
2005	1 089 849	1 938 700	33 143 639	24 300 749	806 137	61 279 074	137 582	-	17 621 414	17 746 071	77 942 040
2006	1 082 727	1 670 600	31 503 390	24 838 452	1 100 800	60 195 969	124 657	-	2 328	15 529 748	15 620 120
2007	1 016 900	1 529 200	30 424 500	24 822 600	1 289 100	59 082 300	109 400	1 246	21 380 600	21 491 246	80 573 546
2008	941 600	1 345 682	29 254 409	25 488 844	1 371 771	58 402 306	98 400	1 501	19 912 406	20 012 307	78 414 613
2009	901 253	1 273 983	26 738 848	24 512 955	1 520 424	54 947 462	88 044	2 006	9 964 201	10 021 664	73 409 113
2010	872 226	1 264 202	26 698 689	24 420 742	1 873 445	55 129 303	83 779	1 715	12 201 414	12 255 777	68 993 179
2011	608 638	1 180 347	28 512 335	24 980 489	2 396 724	57 678 534	78 987	1 509	12 809 491	12 864 674	70 360 698
2012	756 767	1 217 220	32 385 272	27 318 066	3 057 838	64 735 164	81 000	1 414	13 356 125	13 408 071	73 642 804
2013	653 670	1 145 635	33 791 973	28 198 231	2 949 397	66 738 906	70 187	3 088	13 288 938	13 362 213	80 101 119
2014	641 395	1 245 566	34 200 403	29 817 376	2 852 992	68 757 732	68 212	2 471	12 536 283	12 606 966	81 364 698
2015	578 092	1 232 088	30 722 839	28 175 271	2 679 158	63 387 449	55 457	2 006	9 964 201	10 021 664	73 409 113
2016	521 992	1 351 776	25 832 506	26 697 329	2 333 799	56 737 402	52 648	1 715	11 475 882	11 561 142	76 296 306
2017	16 620	1 233 512	25 876 297	28 121 993	2 247 603	57 496 025	53 674	1 509	12 201 414	12 255 777	68 993 179
2018	-	1 203 765	28 394 702	28 311 700	2 324 567	60 234 734	50 532	1 414	13 241 025	13 408 071	73 642 804
Total	46 120 619	123 517 355	2 838 351 737	1 040 814 035	65 618 346	4 114 422 091	14 788 932	156 597	297 485 497	312 431 025	4 426 853 116

NOTE: Effective 1985, Alberta experimental crude included with the above. Excludes synthetic crude oil.

CANADIAN OIL SANDS PRODUCTION**Upgraded and Non-Upgraded Bitumen from Mined and In Situ Production****1967 - 2018****Thousand Cubic Metres**

	Upgraded Bitumen (SCO)	Non-Upgraded Bitumen	Canada
1967	72	42	114
1968	823	64	887
1969	1 603	69	1 672
1970	1 904	38	1 942
1971	2 451	15	2 466
1972	2 963	71	3 034
1973	2 906	71	2 977
1974	2 654	73	2 727
1975	2 506	199	2 705
1976	2 810	440	3 250
1977	2 641	486	3 127
1978	3 262	453	3 715
1979	5 288	581	5 869
1980	7 451	556	8 007
1981	6 278	753	7 031
1982	6 000	1 281	7 281
1983	8 639	1 455	10 094
1984	7 782	1 943	9 725
1985	9 569	3 030	12 599
1986	10 728	5 410	16 138
1987	10 472	6 731	17 203
1988	11 643	7 546	19 189
1989	11 901	7 474	19 375
1990	12 091	7 856	19 947
1991	13 121	7 113	20 234
1992	13 778	7 362	21 140
1993	14 123	7 685	21 808
1994	15 190	7 810	23 000
1995	16 197	8 621	24 818
1996	16 317	9 505	25 822
1997	16 798	13 806	30 604
1998	17 871	16 364	34 235

CANADIAN OIL SANDS PRODUCTION**Upgraded and Non-Upgraded Bitumen from Mined and In Situ Production****1967 - 2018****Thousand Cubic Metres**

	Upgraded Bitumen (SCO)	Non-Upgraded Bitumen	Canada
1999	18 767	14 171	32 938
2000	18 608	16 781	35 389
2001	20 239	17 954	38 193
2002	25 599	17 560	43 159
2003	26 366	20 261	46 627
2004	37 472	21 706	59 178
2005	31 689	24 341	56 030
2006	38 052	26 697	64 749
2007	39 853	28 963	68 816
2008	38 001	31 767	69 768
2009	44 406	34 128	78 534
2010	46 270	40 425	86 696
2011	49 368	45 616	94 984
2012	53 108	52 964	106 072
2013	54 281	59 709	113 990
2014	54 281	59 709	113 990
2015	56 581	81 585	138 166
2016	54 062	86 409	140 470
2017	59 565	95 620	155 185
2018	61 299	107 724	169 024
Total	1 085 700	1 008 992	2 094 693

Effective 1985, experimental crude production is included with the conventional on Table 3.1

Table 3.3

CANADIAN CONDENSATE PRODUCTION

1950 - 2018

Cubic Metres

	British Columbia	Alberta	Manitoba	Canada
Pre 1950		1 396 562		1 396 562
1951		12 595		12 595
1952		12 558		12 558
1953		18 166		18 166
1954		6 996		6 996
1955		28 908		28 908
1956		36 174		36 174
1957		115 037		115 037
1958		126 743		126 743
1959		184 631		184 631
1960		353 394		353 394
1961	25	476 284		476 309
1962	1 529	1 055 724		1 057 253
1963	2 172	544 488		546 660
1964	4 190	152 503		156 693
1965	5 050	92 734		97 784
1966	6 288	118 817		125 105
1967	6 447	120 613		127 060
1968	8 607	126 969		135 576
1969	12 418	107 400		119 818
1970	17 044	111 600		128 644
1971	17 322	121 500		138 822
1972	16 611	145 200		161 811
1973	20 104	158 700		178 804
1974	16 553	119 400		135 953
1975	16 086	113 800		129 886
1976	18 300	115 200		133 500
1977	24 453	121 900		146 353
1978	25 373	122 300		147 673
1979	32 549	134 200		166 749
1980	36 855	111 300		148 155
1981	28 525	95 100		123 625
1982	20 361	104 400		124 761
1983	17 636	98 000		115 636
1984	14 102	133 900		148 002
1985	12 096	151 900	2 920	166 916
1986	17 480	103 000	730	121 210
1987	25 879	86 800	2 200	114 879
1988	28 538	117 200	607	146 345
1989	27 868	161 700	1 920	191 488

May 2019

Table 3.3

CANADIAN CONDENSATE PRODUCTION

1950 - 2018

Cubic Metres

	British Columbia	Alberta	Manitoba	Canada
1990	24 794	128 100	2 259	155 153
1991	23 858	158 700	1 500	184 058
1992	20 539	194 500	1 400	216 439
1993	40 728	228 300	1 100	270 128
1994	40 134	272 400	1 200	313 734
1995	58 232	292 800	1 200	352 232
1996	77 563	337 900	300	415 763
1997	73 170	382 800		455 970
1998	115 393	393 400		508 793
1999	85 000	418 500		503 500
2000	107 400	451 800		559 200
2001	107 209	464 200		571 409
2002	126 794	449 600		576 394
2003	147 550	480 721		628 271
2004	168 761	500 360		669 121
2005	188 045	563 106		751 150
2006	224 067	639 831		863 898
2007	238 140	762 327		1 000 467
2008	272 835	879 745		1 152 580
2009	277 879	793 311		1 071 190
2010	280 606	700 083		980 689
2011	311 938	696 242		1 008 180
2012	323 853	757 417		1 081 270
2013	349 802	955 377		1 305 179
2014	516 476	1 389 240		1 905 716
2015	673 727	1 194 443		1 868 170
2016	930 158	2 787 290		3 717 448
2017	1 240 194	3 693 193		4 933 387
2018	2 419 444	5 161 470		7 580 914
Total	9 944 751	33 641 550	17 336	43 603 637

Table 3.4

CANADIAN PENTANES PLUS PRODUCTION

1947 - 2018

Cubic Metres

	British Columbia	Alberta	Saskatchewan	Canada
Pre 1947	-	931 648	-	931 648
1947	-	67 890	-	67 890
1948	-	74 474	-	74 474
1949	-	75 871	-	75 871
1950	-	70 935	-	70 935
1951	-	81 843	-	81 843
1952	-	92 148	-	92 148
1953	-	95 786	-	95 786
1954	-	108 437	-	108 437
1955	-	138 000	-	138 000
1956	-	146 030	-	146 030
1957	4 444	157 728	-	162 172
1958	39 895	170 813	2 447	213 155
1959	81 513	265 056	24 152	370 721
1960	119 317	311 277	36 104	466 698
1961	129 284	699 895	35 907	865 086
1962	133 139	1 497 996	42 362	1 673 497
1963	133 761	2 775 033	43 422	2 952 216
1964	146 548	3 702 430	45 389	3 894 367
1965	150 556	4 145 298	40 162	4 336 016
1966	154 868	4 347 806	39 895	4 542 569
1967	161 460	4 539 898	47 034	4 748 392
1968	152 594	4 934 305	51 563	5 138 462
1969	150 029	5 786 244	59 888	5 996 161
1970	159 409	6 657 502	64 750	6 881 661
1971	177 048	7 071 511	62 135	7 310 694
1972	161 772	9 270 495	63 589	9 495 856
1973	179 998	9 427 390	67 570	9 674 958
1974	178 444	9 012 300	56 443	9 247 187
1975	185 182	8 443 500	52 072	8 680 754
1976	167 494	7 420 900	46 777	7 635 171
1977	180 179	7 343 700	23 254	7 547 133
1978	155 427	6 561 100	44 011	6 760 538
1979	184 397	6 472 200	42 974	6 699 571
1980	133 601	5 890 700	37 527	6 061 828
1981	124 946	5 652 200	28 455	5 805 601
1982	135 185	5 529 600	25 842	5 690 627
1983	113 984	5 161 100	17 408	5 292 492
1984	131 441	5 333 000	36 100	5 500 541

Table 3.4

CANADIAN PENTANES PLUS PRODUCTION

1947 - 2018

Cubic Metres

	British Columbia	Alberta	Saskatchewan	Canada
1985	125 059	5 644 600	26 200	5 795 859
1986	141 343	5 717 600	28 300	5 887 243
1987	187 805	6 061 300	27 100	6 276 205
1988	196 231	6 285 300	28 580	6 510 111
1989	235 375	6 440 800	27 450	6 703 625
1990	234 035	6 306 400	26 339	6 566 774
1991	250 672	6 620 100	25 750	6 896 522
1992	301 555	7 277 200	28 083	7 606 838
1993	344 167	8 023 500	28 720	8 396 387
1994	342 991	8 893 500	29 680	9 266 171
1995	357 813	9 343 400	32 596	9 733 809
1996	357 446	9 988 000	33 195	10 378 641
1997	440 796	11 577 400	40 448	12 058 644
1998	573 458	11 623 300	41 939	12 238 697
1999	569 076	11 420 000	79 084	12 068 160
2000	608 400	10 761 200	94 253	11 463 853
2001	597 899	9 649 000	107 027	10 353 926
2002	588 513	9 351 000	87 621	10 027 134
2003	530 709	8 567 496	80 692	9 178 897
2004	527 061	9 636 779	78 256	10 242 096
2005	526 980	9 407 795	77 259	10 012 034
2006	532 100	9 687 909	81 489	10 301 499
2007	470 342	9 721 127	112 024	10 303 492
2008	424 339	9 103 759	128 233	9 656 332
2009	458 591	8 387 391	85 398	8 931 381
2010	517 230	8 118 654	85 801	8 721 686
2011	650 794	7 736 225	81 209	8 468 228
2012	739 745	7 612 379	93 498	8 445 622
2013	899 311	7 945 413	97 385	8 942 109
2014	1 102 532	9 132 786	110 302	10 345 620
2015	762 009	11 514 739	152 478	12 429 226
2016	898 113	12 141 493	173 641	13 213 246
2017	976 763	13 843 286	170 500	14 990 549
2018	1 504 100	15 201 825	167 175	16 873 099
Total	21 899 267	449 206 694	3 704 939	474 810 900

Saskatchewan: 1978 forward Includes condensate

Table 3.5

CANADIAN PROPANE PRODUCTION*

1948 - 2018

Cubic Metres

	British Columbia	Alberta	Saskatchewan	Manitoba	Offshore	Nova Scotia	Canada
1948	-	1 347	-	-	-	-	1 347
1949	-	8 596	-	-	-	-	8 596
1950	-	22 392	-	-	-	-	22 392
1951	-	39 453	-	-	-	-	39 453
1952	-	53 600	-	-	-	-	53 600
1953	-	68 743	-	-	-	-	68 743
1954	-	83 987	-	-	-	-	83 987
1955	-	126 426	-	-	-	-	126 426
1956	-	146 939	-	-	-	-	146 939
1957	-	176 405	-	-	-	-	176 405
1958	10 967	159 735	3 815	-	-	-	174 517
1959	15 385	235 999	44 604	-	-	-	295 988
1960	19 856	299 927	63 129	-	-	-	382 912
1961	25 886	374 499	69 044	-	-	-	469 429
1962	34 444	466 978	82 066	-	-	-	583 488
1963	32 565	540 903	94 759	-	-	-	668 227
1964	38 858	887 079	102 540	-	-	-	1 028 477
1965	56 948	1 443 047	107 252	-	-	-	1 607 247
1966	53 066	1 800 871	119 218	-	-	-	1 973 155
1967	65 565	2 033 180	140 522	-	-	-	2 239 267
1968	63 619	2 303 463	149 656	-	-	-	2 516 738
1969	51 984	2 637 500	135 662	-	-	-	2 825 146
1970	66 718	3 199 800	126 361	-	-	-	3 392 879
1971	74 425	3 671 900	126 566	-	-	-	3 872 891
1972	76 198	4 624 500	121 292	-	-	-	4 821 990
1973	90 026	5 166 500	116 102	-	-	-	5 372 628
1974	89 225	5 083 300	99 238	-	-	-	5 271 763
1975	81 842	5 358 700	88 869	-	-	-	5 529 411
1976	88 052	5 240 400	81 292	-	-	-	5 409 744
1977	91 149	5 342 000	78 893	-	-	-	5 512 042
1978	85 702	5 050 700	80 132	-	-	-	5 216 534
1979	84 864	5 543 400	75 779	-	-	-	5 704 043
1980	75 507	5 294 900	66 926	-	-	-	5 437 333
1981	64 118	5 192 500	34 129	-	-	-	5 290 747
1982	68 783	5 235 400	27 080	-	-	-	5 331 263
1983	62 494	4 945 000	67 100	-	-	-	5 074 594
1984	59 687	5 475 700	79 500	-	-	-	5 614 887
1985	64 802	5 445 600	84 600	4 380	-	-	5 599 382
1986	209 062	5 074 300	56 500	3 650	-	-	5 343 512
1987	230 602	5 602 700	64 900	3 400	-	-	5 901 602
1988	246 789	5 896 400	68 000	3 137	-	-	6 214 326
1989	277 995	6 268 500	65 335	4 400	-	-	6 616 230

Table 3.5

CANADIAN PROPANE PRODUCTION*

1948 - 2018

Cubic Metres

	British Columbia	Alberta	Saskatchewan	Manitoba	Offshore	Nova Scotia	Canada
1990	267 879	6 520 000	62 687	4 605	-	-	6 855 171
1991	274 645	6 569 870	61 290	3 200	-	-	6 909 005
1992	282 005	7 529 742	66 837	3 400	-	-	7 881 984
1993	331 425	7 973 698	68 345	2 400	-	-	8 375 868
1994	309 944	7 989 300	70 640	2 400	-	-	8 372 284
1995	338 026	9 006 000	77 580	2 400	-	-	9 424 006
1996	360 734	9 260 000	79 669	800	-	-	9 701 203
1997	407 504	8 445 900	97 075	-	-	-	8 950 479
1998	519 845	8 661 600	100 654	-	-	-	9 282 099
1999	192 199	8 583 000	135 878	-	-	-	8 911 077
2000	490 000	8 654 900	125 610	-	42 900	-	9 313 410
2001	494 499	7 614 000	113 381	-	191 000	-	8 412 880
2002	404 322	7 419 000	114 106	-	246 400	-	8 183 828
2003	391 830	6 062 523	113 789	-	297 600	-	6 865 742
2004	334 749	7 162 667	121 500	-	185 100	-	7 804 016
2005	360 473	6 977 702	121 059	-	215 700	-	7 674 934
2006	373 724	7 181 421	118 866	-	166 100	-	7 840 111
2007	361 862	6 907 841	128 877	-	154 400	-	7 552 980
2008	335 304	6 642 476	143 631	-	210 200	-	7 331 612
2009	364 565	6 295 794	189 165	-	241 800	-	7 091 324
2010	369 092	6 075 493	202 472	-	261 500	-	6 908 557
2011	466 697	6 116 898	224 646	-	229 100	-	7 037 341
2012	661 764	6 399 313	258 639	-	151 315	-	7 471 031
2013	717 270	6 716 537	269 393	-	109 996	-	7 813 196
2014	895 082	6 665 303	305 124	-	113 810	-	7 979 320
2015	823 126	6 623 542	402 409	-	109 544	-	7 958 622
2016	1 065 028	7 573 465	445 737	-	99 631	-	9 183 860
2017	1 255 025	9 095 509	420 288	-	86 778	-	10 857 601
2018	1 773 187	10 398 511	380 774	-	57 858	-	12 610 330
Total	17 878 989	333 745 273	7 740 984	38 172	3 170 732	362 574 149	

*Gas processing plant production - does not include straddle plants

Table 3.6

CANADIAN BUTANES PRODUCTION*						
	1950 - 2018					
	Cubic Metres					
British Columbia	Alberta	Saskatchewan	Manitoba	Offshore	Nova Scotia	Canada
1950	-	5 385	-	-	-	5 385
1951	-	13 424	-	-	-	13 424
1952	-	22 270	-	-	-	22 270
1953	-	31 508	-	-	-	31 508
1954	-	38 938	-	-	-	38 938
1955	-	78 143	-	-	-	78 143
1956	-	93 958	-	-	-	93 958
1957	-	118 744	-	-	-	118 744
1958	12 960	105 358	2 972	-	-	121 290
1959	32 878	177 650	27 304	-	-	237 832
1960	46 590	202 083	36 345	-	-	285 018
1961	51 090	260 144	38 322	-	-	349 556
1962	61 548	322 591	46 192	-	-	430 331
1963	64 967	396 694	53 393	-	-	515 054
1964	73 332	741 262	58 289	-	-	872 883
1965	75 910	964 212	53 741	-	-	1 093 863
1966	79 560	1 158 462	54 323	-	-	1 292 345
1967	93 399	1 319 233	62 557	-	-	1 475 189
1968	83 780	1 506 777	64 554	-	-	1 655 111
1969	66 310	1 654 800	55 227	-	-	1 776 337
1970	49 019	2 082 700	55 805	-	-	2 187 524
1971	50 532	2 400 500	59 317	-	-	2 510 349
1972	54 139	3 054 800	50 839	-	-	3 159 778
1973	108 933	3 361 200	49 834	-	-	3 519 967
1974	105 307	3 371 700	42 072	-	-	3 519 079
1975	106 308	3 501 900	37 986	-	-	3 646 194
1976	109 658	3 436 000	36 977	-	-	3 582 635
1977	111 233	3 500 400	38 064	-	-	3 649 697
1978	106 461	3 212 000	39 135	-	-	3 357 596
1979	112 683	3 470 800	36 503	-	-	3 619 986
1980	89 556	3 250 200	31 127	-	-	3 370 883
1981	84 635	3 126 100	18 138	-	-	3 228 873
1982	89 443	3 117 400	16 516	-	-	3 223 359
1983	80 291	3 032 400	43 680	-	-	3 156 371
1984	81 972	3 103 100	47 900	-	-	3 232 972
1985	73 932	3 095 400	49 000	1 095	-	3 219 427
1986	114 957	2 847 000	41 400	1 095	-	3 004 452
1987	141 643	3 128 500	45 100	1 100	-	3 316 343
1988	149 123	3 353 100	47 630	1 316	-	3 551 169
1989	162 683	3 246 300	45 750	1 680	-	3 456 413
1990	152 224	3 253 600	43 898	1 824	-	3 451 546
1991	162 349	3 537 655	42 920	1 200	-	3 744 124
1992	183 378	3 727 497	46 805	1 200	-	3 958 880
1993	214 795	4 102 794	47 860	1 200	-	4 366 649
1994	214 640	4 459 200	49 460	1 200	-	4 724 500
1995	223 006	5 014 000	54 327	1 200	-	5 292 533
1996	233 467	4 760 000	55 325	400	-	5 049 192
1997	271 786	4 104 500	67 413	-	-	4 443 699
1998	350 715	4 328 200	69 898	-	-	4 748 813
1999	230 488	4 439 000	64 399	-	-	4 733 887
2000	405 600	5 076 700	54 880	-	40 900	5 578 080
2001	349 081	4 525 000	55 439	-	134 600	5 064 120
2002	324 063	4 264 000	62 221	-	160 000	4 810 284
2003	319 881	4 160 483	62 682	-	193 500	4 736 546

CANADIAN BUTANES PRODUCTION*

1950 - 2018

Cubic Metres

	British Columbia	Alberta	Saskatchewan	Manitoba	Offshore	Canada
					Nova Scotia	
2004	369 148	4 802 904	65 445	-	133 500	5 370 997
2005	317 061	4 778 113	63 010	-	190 800	5 348 984
2006	338 608	4 836 718	61 605	-	163 300	5 400 231
2007	343 020	4 776 804	66 046	-	158 000	5 343 870
2008	308 839	4 783 070	76 523	-	187 900	5 356 332
2009	328 028	4 330 121	97 825	-	169 600	4 925 574
2010	326 652	4 182 094	114 449	-	155 500	4 778 696
2011	376 301	4 190 954	127 289	-	137 100	4 831 644
2012	457 604	4 241 076	146 550	-	85 200	4 930 430
2013	511 957	4 379 967	152 644	-	65 083	5 109 650
2014	654 948	4 521 331	172 890	-	67 340	5 416 508
2015	703 315	4 873 067	205 055	-	64 848	5 846 285
2016	877 701	5 355 507	272 168	-	58 947	6 564 323
2017	1 047 435	5 926 119	267 245		51 343	7 292 142
2018	1 467 185	6 747 061	262 029		34 231.61	8 510 507
Total	14 788 106	204 380 671	4 314 293	14 510	2 251 692	225 749 272

*Gas processing plant production.

CANADIAN LIQUID HYDROCARBON PRODUCTION
1947-2018
Cubic Metres Per Day

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
CRUDE OIL:												
Territories	101	152	80	82	99	136	138	161	176	195	183	194
British Columbia	-	-	-	-	-	-	-	-	-	64	150	224
Alberta	2 778	4 561	8 606	11 820	19 956	25 546	33 394	38 135	49 133	62 384	59 544	48 967
Saskatchewan	227	366	340	452	543	737	1 215	2 361	4 927	9 151	16 048	19 429
Manitoba	-	-	-	-	5	46	285	935	1 805	2 513	2 651	2 538
Ontario	57	77	113	109	86	83	130	180	229	258	272	339
Eastcoast Offshore	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-
Total	3 173	5 165	9 147	12 470	20 695	26 554	35 168	41 778	56 275	74 574	78 856	71 698
SYNTHETIC:												
Mining	-	-	-	-	-	-	-	-	-	-	-	-
In-situ	-	-	-	-	-	-	-	-	-	-	-	-
BITUMEN:												
Mining	-	-	-	-	-	-	-	-	-	-	-	-
In-Situ	-	-	-	-	-	-	-	-	-	-	-	-
CONDENSATE:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	34	34	50	19	79	99	315	347
PENTANES PLUS:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	186	203	208	194	224	252	262	297	378	399	432	468
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	7
Total	186	203	208	194	224	252	262	297	378	399	444	584
PROPANE:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	30
Alberta	-	4	23	61	108	146	188	230	346	401	483	438
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	10
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	4	23	61	108	146	188	230	346	401	483	478
BUTANES:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	36
Alberta	-	-	-	-	15	37	61	86	107	214	257	325
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	289
Manitoba	-	-	-	-	-	-	-	-	-	-	-	8
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	15	37	61	86	107	214	257	325
ETHANE:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL LIQUID HYDROCARBONS:												
Territories	101	152	80	82	99	136	138	161	176	195	183	194
British Columbia	-	-	-	-	-	-	-	-	-	64	162	399
Alberta	2 964	4 768	8 837	12 090	20 359	26 039	33 980	38 788	50 150	63 540	61 099	50 509
Saskatchewan	227	366	340	452	543	737	1 215	2 361	4 927	9 151	16 048	19 454
Manitoba	-	-	-	-	5	46	285	935	1 805	2 513	2 651	2 538
Ontario	57	77	113	109	86	83	130	180	229	258	272	339
Eastcoast Offshore	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	10	9	8	7	6	6	6	6	5	9	8	7
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	3 359	5 372	9 378	12 740	21 098	27 047	35 754	42 431	57 292	75 730	80 423	73 440

CANADIAN LIQUID HYDROCARBON PRODUCTION

1947-2018

Cubic Metres Per Day

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
CRUDE OIL:												
Territories	184	198	224	260	266	251	281	318	309	327	349	368
British Columbia	376	377	442	3 877	5 449	5 004	5 865	7 244	8 558	9 618	11 019	11 029
Alberta	56 076	56 704	68 632	71 917	73 434	76 142	79 998	88 162	100 487	109 214	124 805	143 560
Saskatchewan	20 654	22 538	24 320	28 052	31 044	35 344	38 221	40 584	40 289	39 896	38 054	38 960
Manitoba	2 201	2 068	1 951	1 710	1 642	1 918	2 154	2 277	2 432	2 694	2 701	2 573
Ontario	436	436	500	494	525	541	557	576	540	500	506	456
Eastcoast Offshore	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	6	6	5	4	3	2	2	3	4	3	3	4
Total	79 933	82 327	96 074	106 314	112 363	119 202	127 078	139 164	152 619	162 252	177 437	196 950
SYNTHETIC:									197	2 249	4 392	5 216
Mining	-	-	-	-	-	-	-	-	-	-	-	-
In-situ	-	-	-	-	-	-	-	-	-	-	-	-
BITUMEN:												
Mining	-	-	-	-	-	-	-	-	-	-	-	-
In-Situ	-	-	-	-	-	-	-	-	-	-	-	-
CONDENSATE:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	506	966	1 301	2 892	1 492	417	254	326	330	347	294	306
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-
Total	506	966	1 301	2 896	1 498	428	268	343	348	371	328	353
PENTANES PLUS:												
British Columbia	223	326	354	365	366	400	412	424	442	417	411	437
Alberta	726	850	1 918	4 104	7 603	10 116	11 357	11 912	12 438	13 482	15 853	18 240
Saskatchewan	66	99	98	116	119	124	110	109	129	141	164	177
Total	1 015	1 275	2 370	4 585	8 088	10 640	11 879	12 445	13 009	14 040	16 428	18 854
PROPANE:												
British Columbia	42	54	71	94	89	106	156	145	180	174	142	183
Alberta	646	819	1 026	1 279	1 482	2 424	3 954	4 934	5 570	6 311	7 226	8 767
Saskatchewan	122	172	189	225	260	280	294	327	385	410	372	346
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	810	1 045	1 286	1 598	1 831	2 810	4 404	5 406	6 135	6 895	7 740	9 296
BUTANES:												
British Columbia	90	127	140	169	178	200	208	218	256	229	182	134
Alberta	487	552	713	884	1 087	2 025	2 642	3 174	3 614	4 117	4 534	5 706
Saskatchewan	75	99	105	126	146	159	147	149	171	176	151	153
Total	652	778	958	1 179	1 411	2 384	2 997	3 541	4 041	4 522	4 867	5 993
ETHANE:												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL LIQUID HYDROCARBONS:												
Territories	184	198	224	260	266	251	281	318	309	327	349	368
British Columbia	731	884	1 007	4 509	6 088	5 721	6 655	8 048	9 454	10 462	11 788	11 830
Alberta	58 441	59 891	73 590	81 076	85 098	91 124	98 205	108 508	122 636	135 720	157 104	181 795
Saskatchewan	20 917	22 908	24 712	28 519	31 569	35 907	38 772	41 169	40 974	40 623	38 741	39 636
Manitoba	2 201	2 068	1 951	1 710	1 642	1 918	2 154	2 277	2 432	2 694	2 701	2 573
Ontario	436	436	500	494	525	541	557	576	540	500	506	456
Eastcoast Offshore	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	6	6	5	4	3	2	2	3	4	3	3	4
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	82 916	86 391	101 989	116 572	125 191	135 464	146 626	160 899	176 349	190 329	211 192	236 662

CANADIAN LIQUID HYDROCARBON PRODUCTION

1947-2018

Cubic Metres Per Day

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
CRUDE OIL:												
Territories	409	386	419	435	438	389	377	399	389	439	475	475
British Columbia	10 951	10 347	9 225	8 204	6 216	6 465	6 025	5 490	5 863	5 470	5 568	5 689
Alberta	155 561	184 449	227 432	216 735	184 963	166 416	165 792	164 424	187 715	172 680	156 105	148 996
Saskatchewan	38 528	37 617	37 330	32 126	25 696	24 278	26 749	26 369	25 676	25 494	20 254	22 204
Manitoba	2 440	2 282	2 213	2 068	1 922	1 730	1 727	1 639	1 598	1 540	1 487	1 595
Ontario	417	381	352	320	307	270	269	261	252	256	246	235
Eastcoast Offshore												
New Brunswick												
Total	208 310	235 466	276 975	259 891	219 545	199 550	200 941	198 584	221 495	205 880	184 136	179 195
SYNTHETIC:	6 715	8 096	7 962	7 271	6 866	7 678	7 216	8 937	14 488	20 358	17 200	16 438
Mining												
In-situ												
BITUMEN:			194	200	545	1 202	1 331	1 241	1 592	1 519	2 063	3 510
Mining												
In-Situ												
CONDENSATE:												
British Columbia	47	46	55	45	44	50	67	70	89	101	78	56
Alberta	333	397	435	327	312	315	334	336	368	304	261	286
Manitoba												
Total	380	443	490	372	356	365	401	406	457	405	339	342
PENTANES PLUS:												
British Columbia	485	442	493	489	507	458	494	426	505	365	342	370
Alberta	19 374	25 329	25 828	24 691	23 133	20 276	20 120	17 976	17 732	16 095	15 485	15 150
Saskatchewan	170	174	185	155	143	128	64	120	118	103	78	71
Total	20 029	25 945	26 506	25 335	23 783	20 862	20 678	18 522	18 355	16 563	15 905	15 591
PROPANE:												
British Columbia	204	208	271	244	224	240	250	235	232	206	176	188
Alberta	10 060	12 635	14 155	13 927	14 681	14 318	14 636	13 838	15 187	14 467	14 226	14 344
Saskatchewan	347	331	318	272	243	222	216	219	208	183	94	74
Manitoba												
Offshore Nova Scotia												
Total	10 611	13 174	14 744	14 443	15 148	14 780	15 102	14 292	15 627	14 856	14 496	14 606
BUTANES:												
British Columbia	138	148	298	288	291	300	305	292	309	245	232	245
Alberta	6 577	8 346	9 209	9 237	9 594	9 388	9 590	8 800	9 509	8 880	8 565	8 541
Saskatchewan	162	139	136	115	104	101	104	107	100	85	50	45
Manitoba												
Offshore Nova Scotia												
Total	6 877	8 633	9 643	9 640	9 989	9 789	9 999	9 199	9 918	9 210	8 847	8 831
ETHANE:												
British Columbia												
Alberta					442	528	503	1 015	3 837	9 828	12 174	12 796
Saskatchewan					442	528	503	1 015	3 837	9 828	12 174	11 639
Total	-	-	-	442	528	503	1 015	3 837	9 828	12 174	12 852	11 703
TOTAL LIQUID HYDROCARBONS:												
Territories	409	386	419	435	438	389	377	399	389	439	475	475
British Columbia	11 825	11 191	10 342	9 270	7 282	7 513	7 141	6 513	6 998	6 387	6 396	6 548
Alberta	198 620	239 252	285 215	272 830	240 622	220 096	220 034	219 389	256 419	246 477	226 701	218 904
Saskatchewan	39 207	38 261	37 969	32 668	26 186	24 729	27 133	26 815	26 102	25 865	20 532	22 458
Manitoba	2 440	2 282	2 213	2 068	1 922	1 730	1 727	1 639	1 598	1 540	1 487	1 595
Ontario	417	381	352	320	307	270	269	261	252	256	246	235
Eastcoast Offshore	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	4	4	4	3	3	2	2	2	2	1	1	1
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	252 922	291 757	336 514	317 594	276 760	254 729	256 683	255 018	291 760	280 965	255 838	250 216

CANADIAN LIQUID HYDROCARBON PRODUCTION

1947-2018

Cubic Metres Per Day

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CRUDE OIL:												
Territories	464	477	3 012	4 185	4 293	4 926	5 140	5 110	5 278	5 188	5 059	4 887
British Columbia	5 695	5 722	5 365	5 533	5 708	5 143	5 174	5 277	5 515	5 612	5 468	5 388
Alberta	151 554	163 623	156 150	145 429	151 151	157 521	149 602	145 131	142 711	145 281	149 445	151 225
Saskatchewan	26 146	29 542	31 825	32 029	32 978	33 469	31 852	33 559	34 028	36 528	41 019	47 080
Manitoba	2 019	2 167	2 248	2 256	2 142	2 100	1 980	2 021	1 953	1 793	1 738	1 802
Ontario	229	247	308	371	364	521	668	677	645	613	694	721
Eastcoast Offshore											1 575	2 783
New Brunswick												3 598
Total	186 108	201 778	198 908	189 803	196 637	203 681	194 416	191 775	190 130	196 590	206 206	214 701
SYNTHETIC:												
Mining	23 668	21 262	26 216	29 391	28 690	31 812	32 605	33 126	35 948	37 645	38 693	41 616
In-situ												
BITUMEN:												
Mining	3 986	5 309	8 301	14 822	18 441	20 618	20 477	21 523	19 488	20 115	21 055	21 397
In-Situ												
CONDENSATE:												
British Columbia	48	39	33	48	71	78	76	68	65	56	112	110
Alberta	268	366	416	282	238	321	443	351	435	531	625	746
Manitoba			8	2	6	2	5	6	4	4	3	3
Total	316	405	457	332	315	401	524	425	504	591	740	859
PENTANES PLUS:												
British Columbia	312	359	343	387	515	537	645	641	687	824	943	940
Alberta	14 140	14 571	15 464	15 665	16 606	17 173	17 646	17 278	18 137	19 883	21 982	24 366
Saskatchewan	48	99	72	78	74	77	75	72	71	77	79	81
Total	14 500	15 029	15 879	16 130	17 195	17 787	18 366	17 991	18 895	20 784	23 004	25 387
PROPANE:												
British Columbia	171	163	177	573	632	675	762	734	752	771	908	849
Alberta	13 548	14 961	14 919	13 902	15 350	16 111	17 174	17 863	18 000	20 573	21 846	21 888
Saskatchewan	184	211	193	155	178	186	179	172	168	183	187	194
Manitoba			12	10	9	9	12	13	9	9	7	7
Offshore Nova Scotia												
Total	13 903	15 335	15 301	14 640	16 169	16 981	18 127	18 782	18 929	21 536	22 948	22 938
BUTANES:												
British Columbia	220	224	203	315	388	408	446	417	445	501	588	588
Alberta	8 308	8 478	8 480	7 800	8 571	9 162	8 894	8 914	9 692	10 184	11 240	12 217
Saskatchewan	120	130	118	113	124	128	125	120	118	128	131	136
Manitoba			3	3	3	4	5	5	3	3	3	3
Offshore Nova Scotia												
Total	8 648	8 832	8 804	8 231	9 086	9 702	9 470	9 456	10 258	10 816	11 962	12 944
ETHANE:												
British Columbia												
Alberta	12 764	15 390	14 981	14 101	17 680	17 795	17 879	19 468	20 651	19 965	22 689	24 843
Saskatchewan	123	147	117	121	120	120	118	113	111	124	127	132
Total	12 887	15 537	15 098	14 222	17 800	17 915	17 997	19 581	20 762	20 089	22 816	24 975
TOTAL LIQUID HYDROCARBONS:												
Territories	464	477	3 012	4 185	4 293	4 926	5 140	5 110	5 278	5 188	5 059	4 887
British Columbia	6 446	6 507	6 121	6 856	7 314	6 841	7 103	7 137	7 464	7 764	8 019	7 875
Alberta	228 236	243 960	244 927	241 392	256 727	270 513	264 720	263 654	265 062	274 177	287 575	298 298
Saskatchewan	26 621	30 129	32 325	32 496	33 474	33 980	32 349	34 036	34 496	37 040	41 543	47 623
Manitoba	2 019	2 167	2 271	2 271	2 160	2 115	2 002	2 045	1 969	1 809	1 751	1 815
Ontario	229	247	308	371	364	521	668	677	645	613	694	721
Eastcoast Offshore	-	-	-	-	-	-	-	-	-	1 575	2 783	3 598
New Brunswick	1	-	-	-	1	1	-	-	-	-	-	-
Offshore Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-
Total	264 016	283 487	288 964	287 571	304 333	318 897	311 982	312 659	314 914	328 166	347 424	364 817

CANADIAN LIQUID HYDROCARBON PRODUCTION
1947-2018
Cubic Metres Per Day

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
CRUDE OIL:												
Territories	4 752	4 568	4 341	4 279	4 244	3 918	3 924	3 771	3 515	3 375	2 986	2 966
British Columbia	5 585	6 135	6 992	7 572	6 432	6 973	6 837	6 640	6 812	6 160	5 312	4 577
Alberta	151 767	149 658	144 708	136 368	124 772	118 863	114 343	105 018	100 018	95 336	90 804	86 311
Saskatchewan	51 164	57 197	64 261	63 436	59 475	66 243	67 810	66 892	66 664	67 170	66 577	68 051
Manitoba	1 761	1 676	1 744	1 737	1 592	1 698	1 761	1 783	1 734	1 742	2 209	3 016
Ontario	782	732	604	599	669	632	678	597	542	418	377	342
Eastcoast Offshore	3 400	2 826	2 118	12 983	16 825	22 935	23 647	45 446	53 560	49 860	48 467	48 278
New Brunswick									-	-	-	-
Total	219 211	222 792	224 768	226 974	214 009	221 262	219 000	230 147	232 845	224 061	216 732	213 540
SYNTHETIC:												
Mining	44 375	44 582	46 022	48 962	51 416	50 842	55 449	70 134		72 236	102 382	86 818
In-situ												104 251
BITUMEN:												
Mining	23 619	25 970	37 825	44 833	38 825	45 850	49 189	48 110				
In-Situ										55 510	59 305	66 688
												73 143
CONDENSATE:												
British Columbia	114	125	143	154	236	261	293	328	404	461	515	614
Alberta	802	923	1 049	1 078	1 147	1 234	1 272	1 232	1 317	1 367	1 543	1 753
Manitoba	3	1										
Total	919	1 049	1 192	1 232	1 383	1 495	1 565	1 560	1 721	1 828	2 058	2 367
PENTANES PLUS:												
British Columbia	981	984	1 241	1 361	1 305	1 550	1 605	1 490	1 454	1 440	1 444	1 458
Alberta	25 598	27 290	31 719	31 845	31 288	29 402	26 436	25 619	23 473	26 330	25 775	26 542
Saskatchewan	89	91	111	115	217	257	293	240	221	214	212	223
Total	26 668	28 365	33 071	33 321	32 810	31 209	28 334	27 349	25 148	27 984	27 430	28 223
PROPANE:												
British Columbia	926	986	1 116	1 424	527	1 338	1 354	1 108	1 074	915	988	1 024
Alberta	24 670	25 300	23 139	23 730	23 515	23 647	20 860	20 326	16 610	19 570	19 117	19 675
Saskatchewan	213	218	266	276	372	343	312	313	313	332	332	326
Manitoba	6	2										
Offshore Nova Scotia						117	523	675	815	506	591	455
Total	25 815	26 506	24 521	25 430	24 414	25 445	23 049	22 422	18 811	21 322	21 027	21 480
BUTANES:												
British Columbia	611	638	745	961	631	1 108	956	888	876	1 009	869	928
Alberta	13 737	13 005	11 245	11 858	12 162	13 871	12 397	11 682	11 399	13 123	13 091	13 251
Saskatchewan	149	151	185	189	176	150	152	170	172	179	173	169
Manitoba	3	1										
Offshore Nova Scotia						112	369	438	530	365	523	447
Total	14 500	13 795	12 175	13 008	12 969	15 241	13 874	13 178	12 977	14 675	14 655	14 795
ETHANE:												
British Columbia	-	-	-	-	-	2 487	2 663	3 188	3 077	2 676	2 869	3 401
Alberta	27 401	29 211	29 842	29 010	35 580	33 625	33 167	37 670	37 648	40 079	40 056	40 673
Saskatchewan	145	145	177	184	157	175	107	76	145	143	142	115
Total	27 546	29 356	30 019	29 194	35 737	36 287	35 937	40 934	40 871	42 898	43 067	44 189
TOTAL LIQUID HYDROCARBONS:												
Territories	4 752	4 568	4 341	4 279	4 244	3 918	3 924	3 771	3 515	3 375	2 986	2 966
British Columbia	8 216	8 869	10 238	11 472	9 131	13 717	13 708	13 642	13 697	12 660	11 996	12 001
Alberta	311 969	315 939	325 549	327 684	318 705	317 334	313 113	319 791	318 211	357 493	343 892	365 599
Saskatchewan	51 760	57 802	65 000	64 200	60 397	67 168	68 674	67 691	67 514	68 037	67 435	68 884
Manitoba	1 773	1 680	1 744	1 737	1 592	1 698	1 761	1 783	1 734	1 742	2 209	3 016
Ontario	782	732	604	599	669	632	678	597	542	418	377	342
Eastcoast Offshore	3 400	2 826	2 118	12 983	16 825	22 935	23 647	45 446	53 560	49 860	48 467	48 278
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-
Offshore Nova Scotia	-	-	-	-	-	229	892	1 113	1 345	870	1 114	902
Total	382 652	392 416	409 594	422 954	411 563	427 631	426 397	453 834	460 119	494 454	478 475	501 988

CANADIAN LIQUID HYDROCARBON PRODUCTION

1947-2018

Cubic Metres Per Day

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
CRUDE OIL:												
Territories	2 786	2 573	2 469	2 390	1 668	2 068	1 791	1 757	1 584	1 426	46	-
British Columbia	4 190	3 677	3 490	3 464	3 234	3 326	3 139	3 413	3 376	3 693	3 379	3 298
Alberta	83 355	79 930	73 257	73 147	78 116	88 484	92 581	93 700	84 172	70 581	70 894	77 794
Saskatchewan	68 007	69 642	67 159	66 906	68 440	74 640	77 255	81 691	77 193	72 944	77 047	77 566
Manitoba	3 532	3 748	4 166	5 133	6 566	8 355	8 081	7 816	7 340	6 377	6 158	6 369
Ontario	300	269	241	230	216	221	192	187	152	144	147	138
Eastcoast Offshore	58 577	54 405	42 547	43 859	42 369	31 355	36 408	34 346	27 299	33 337	35 095	36 592
New Brunswick	3	4	6	5	14	12	8	7	5	5	4	4
Total	220 749	214 248	193 336	195 133	200 623	208 460	219 455	222 917	201 121	188 506	192 769	201 761
SYNTHETIC:												
Mining	109 186	103 828	120 910	122 814	132 310	138 582	143 225	145 595	150 350	147 954	163 790	173 519
In-situ			751	3 517	4 792	4 737	5 559	6 087	4 812	188	-	-
BITUMEN:												
Mining												
In-Situ	79 350	86 795	93 501	107 121	119 995	139 473	155 458	178 940	194 486	206 616	229 447	242 915
CONDENSATE:												
British Columbia	652	745	761	769	855	885	958	1 415	1 846	2 548	3 398	6 629
Alberta	2 089	2 404	2 173	1 932	1 938	1 987	2 600	3 792	3 272	7 636	10 118	14 141
Total	2 741	3 149	2 935	2 701	2 792	2 871	3 558	5 207	5 118	10 185	13 516	20 770
PENTANES PLUS:												
British Columbia	1 289	1 159	1 256	1 417	1 783	2 021	2 464	3 021	2 088	2 461	2 676	4 121
Alberta	26 633	24 874	22 979	22 243	21 195	20 799	21 768	25 021	31 547	33 264	37 927	41 649
Saskatchewan	307	350	234	235	222	255	267	302	418	476	467	458
Total	28 229	26 383	24 470	23 895	23 201	23 075	24 499	28 344	34 053	36 201	41 070	46 228
PROPANE:												
British Columbia	991	916	999	1 011	1 279	1 808	1 965	2 452	2 255	2 918	3 438	4 858
Alberta	18 926	18 149	17 249	16 645	16 759	17 484	18 401	18 261	18 147	20 749	24 919	28 489
Saskatchewan	353	392	518	555	615	707	738	836	1 102	1 221	1 151	1 043
Manitoba												
Offshore Nova Scotia	423	574	662	716	628	413	301	312	300	272	238	159
Total	20 693	20 032	19 428	18 928	19 280	20 413	21 406	21 861	21 804	25 161	29 747	34 549
BUTANES:												
British Columbia	940	844	899	895	1 031	1 250	1 403	1 794	1 927	2 405	2 870	4 020
Alberta	13 087	13 068	11 863	11 458	11 482	11 588	12 000	12 387	13 351	14 673	16 236	18 485
Saskatchewan	181	209	268	314	349	400	418	474	562	746	732	718
Manitoba												
Offshore Nova Scotia	433	513	465	426	376	233	178	184	178	161	141	94
Total	14 641	14 635	13 495	13 092	13 237	13 471	13 999	14 840	16 017	17 984	19 978	23 316
ETHANE:												
British Columbia	3 164	3 332	3 157	3 263	3 125	2 648	2 836	2 744	2 697	2 832	2 681	2 255
Alberta	39 703	35 321	35 111	34 217	35 206	34 046	35 923	34 908	35 613	38 288	35 651	35 890
Saskatchewan	75	72	72	132	97	111	116	132	96	161	158	155
Total	42 942	38 726	38 340	37 611	38 428	36 806	38 876	37 783	38 407	41 280	38 490	38 300
TOTAL LIQUID HYDROCARBONS:												
Territories	2 786	2 573	2 469	2 390	1 668	2 068	1 791	1 757	1 584	1 426	46	-
British Columbia	11 226	10 674	10 563	10 818	11 306	11 938	12 765	14 839	14 188	16 857	17 593	25 180
Alberta	372 329	364 370	377 794	393 093	421 792	457 180	491 484	531 345	562 416	569 414	617 686	668 280
Saskatchewan	68 923	70 666	68 251	68 142	69 723	76 114	78 795	83 435	79 371	75 547	79 555	79 940
Manitoba	3 532	3 748	4 166	5 133	6 566	8 355	8 081	7 816	7 340	6 377	6 119	6 369
Ontario	300	269	241	230	216	221	192	187	152	144	147	138
Eastcoast Offshore	58 577	54 405	42 547	43 859	42 369	31 355	36 408	34 346	27 299	33 337	35 095	36 592
New Brunswick	3	4	6	5	14	12	8	7	5	5	4	4
Offshore Nova Scotia	856	1 088	1 127	1 142	1 003	646	480	496	478	434	378	252
Total	518 531	507 797	507 165	524 811	554 658	587 888	630 004	674 228	692 833	703 540	756 622	816 756

CANADIAN CRUDE OIL PRODUCTION BY MAJOR FIELDS			
	2018 Production (M3)	Cumulative Production	
	Annual	Daily	Cubic Metres
NORTHWEST TERRITORIES			
Norman Wells	98 415	270	43 421 280
BRITISH COLUMBIA			
Boundary Lake	242 196	664	38 296 908
Peejay	14 938	41	10 937 257
Milligan Creek	5 552	15	7 402 996
Eagle West	18 834	52	7 086 683
Inga	1 792	5	6 919 598
Hay River	189 155	518	5 710 404
Rigel	7 617	21	3 798 878
Weasel	9 688	27	3 756 077
ALBERTA			
Pembina	2 864 900	7 849	330 251 400
Swan Hills	737 100	2 019	148 289 200
Judy Creek	64 558 900	176 874	144 846 300
Redwater	323 300	886	142 249 000
Rainbow	241 500	662	114 730 700
Provost	2 356 300	6 456	109 395 200
Bonnie Glen	1 500	4	82 972 300
Nipisi	206 800	567	78 838 400
Leduc-Woodbend	485 200	1 329	64 504 700
Mitsue	142 100	389	64 339 000
Wizard Lake	1 900	5	54 358 800
Fenn Big Valley	34 900	96	53 908 200
Virginia Hills	124 100	340	36 846 900
Sturgeon Lake South	91 100	250	32 328 400
Willisden Green	579 000	1 586	31 325 500
Golden Spike	-	-	30 982 000
Grand Forks	118 800	325	30 965 300
Suffield	468 600	1 284	30 015 600
Carson Creek North	56 400	155	28 748 400
Lloydminster	349 800	958	27 145 300
Valhalla	919 100	2 518	26 544 600
Turner Valley	101 700	279	25 853 400
Countess	137 600	377	25 372 000
Kaybob	392 700	1 076	24 025 100
Westerose	-	-	23 686 800
Acheson	-	-	23 254 400
SASKATCHEWAN			
Weyburn	1 497 192	4 102	93 502 801
Steelman	481 822	1 320	53 257 907
Midale	528 231	1 447	32 342 874
Viewfield North	2 035 110	5 576	34 414 935
Battrum	336 252	921	20 345 232
Dodsland	1 221 162	3 346	20 794 025
Celtic	598 351	1 639	19 220 428
Dollard	63 330	174	17 427 983
MANITOBA			
Virden	172 148	472	18 159 024
Daly Sinclair*	1 355 724	3 714	18 698 908
Waskada	238 552	654	7 228 567
Pierson	216 246	592	4 035 308
ONTARIO			
All Fields	50 508	138	14 790 163
EASTCOAST OFFSHORE			
Hibernia	6 529 783	17 890	174 190 088
Terra Nova	1 807 469	4 952	65 785 041
White Rose/North Amethyst	1 438 554	3 941	46 745 290
Hebron	3 579 985	9 808	3 703 910
Cohasset/Panuke	-	-	7 062 019
NEW BRUNSWICK			
All Fields	1 414	4	160 046

* In 2009 the Daly and Sinclair fields were amalgamated

CANADIAN RAW NATURAL GAS PRODUCTION*

1947 - 2018

Thousand Cubic Metres at 101.325 kPa and 15°C

	Territories	British Columbia	Alberta	Saskatchewan	Western Canada	Ontario	Quebec	New Brunswick	Eastcoast Offshore	Eastern Canada	Canada
Pre 1947	41 402		47 274 654	41 188	47 357 244	12 145 650		625 315		12 770 965	60 128 209
1947	2 909		1 357 017	7 342	1 367 268	221 008		13 875		234 883	1 602 151
1948	4 427		1 593 682	12 314	1 610 423	241 058		11 908		252 966	1 863 389
1949	1 838		1 783 050	13 295	1 798 183	225 170		10 624		235 794	2 033 977
1950	1 870		2 029 993	22 988	2 054 851	224 756		10 251		235 007	2 289 858
1951	3 034		2 249 024	24 263	2 276 321	236 917		7 410		244 327	2 520 648
1952	3 811		2 574 545	32 093	2 610 449	232 970		5 723		238 693	2 849 142
1953	3 710		3 092 248	45 869	3 141 827	281 057		5 197		286 254	3 428 081
1954	4 057	1 686	3 634 406	135 919	3 776 068	275 996		5 017		281 013	4 057 081
1955	4 963	4 679	4 478 448	318 923	4 807 013	304 545		5 284		309 829	5 116 842
1956	7 719	7 470	5 296 219	554 913	5 866 321	359 510		5 391		364 901	6 231 222
1957	6 032	236 696	6 290 805	945 570	7 479 103	404 108		4 998		409 106	7 888 209
1958	8 052	1 773 816	7 648 174	1 200 730	10 630 772	453 133		3 511		456 644	11 087 416
1959	8 298	1 937 300	9 335 498	1 537 572	12 818 668	472 531		3 328		475 859	13 294 527
1960	9 278	2 392 037	11 569 662	1 496 208	15 467 185	512 305		2 796		515 101	15 982 286
1961	12 984	2 925 109	15 097 990	1 645 773	19 681 856	408 128		2 703		410 831	20 092 687
1962	18 380	3 626 744	22 070 363	1 746 607	27 462 094	437 582		2 687		440 269	27 902 363
1963	21 902	3 768 235	24 529 590	1 700 567	30 020 294	446 737		2 905		449 642	30 469 936
1964	21 640	4 138 738	27 997 982	1 795 408	33 953 768	387 694		2 948		390 642	34 344 410
1965	18 208	4 832 246	30 514 199	1 692 958	37 057 611	356 364		2 956		359 320	37 416 931
1966	19 847	5 618 469	32 291 058	1 866 244	39 795 618	435 993	84	2 733		438 810	40 234 428
1967	17 625	6 731 957	35 368 021	1 750 214	43 867 817	399 277	1 659	2 915		403 851	44 271 668
1968	19 968	7 681 132	40 437 057	1 928 260	50 066 417	338 583	3 860	3 170		345 613	50 412 030
1969	19 276	8 907 974	47 275 000	1 974 387	58 176 637	315 350	3 870	2 989		322 209	58 498 846
1970	25 273	9 560 782	54 441 500	2 271 334	66 298 889	467 205	4 653	3 680		475 538	66 774 427
1971	60 340	9 960 394	59 592 200	2 460 590	72 073 524	458 000	4 775	2 950		465 725	72 539 249
1972	451 427	12 412 936	67 967 400	2 204 520	83 036 283	350 563	5 243	2 725		358 531	83 394 814
1973	1 093 750	13 459 870	73 590 700	2 160 570	90 304 890	269 912	5 538	2 273		277 723	90 582 613
1974	966 334	11 624 793	73 354 200	2 018 796	87 964 123	213 507	5 163	2 469		221 139	88 185 262
1975	934 466	11 276 880	74 468 600	1 960 569	88 640 515	309 780	1 417	2 554		313 751	88 954 266
1976	1 025 769	10 829 493	75 237 500	1 902 526	88 995 288	140 439	249	2 816		143 504	89 138 792
1977	855 604	11 061 437	78 545 400	1 669 055	92 131 496	241 524		2 413		243 937	92 375 433
1978	618 833	9 989 327	77 493 700	1 553 650	89 655 510	352 999		2 408		355 407	90 010 917
1979	626 126	11 384 221	82 314 100	1 559 124	95 883 571	387 931		2 407		390 338	96 273 909
1980	494 183	8 966 949	77 358 300	1 590 646	88 410 078	445 232	354	2 406		447 992	88 858 070
1981	397 515	8 418 623	76 375 600	1 498 408	86 690 146	419 271	4 718	2 027		426 016	87 116 162
1982	261 509	7 878 862	78 522 400	1 620 413	88 283 184	436 451	3 678	1 663		441 792	88 724 976
1983	226 658	7 852 641	75 005 700	1 669 302	84 754 301	460 900	5 454	1 600		467 954	85 222 255
1984	234 616	8 275 865	81 112 100	2 126 406	91 748 987	608 000		1 200		609 200	92 358 187
1985	448 900	8 844 743	87 130 000	2 403 802	98 827 445	521 100		1 200		522 300	99 349 745
1986	393 000	8 489 812	82 272 000	2 747 803	93 902 615	503 800		1 200		505 000	94 407 615
1987	377 300	9 826 219	88 363 600	3 098 074	101 665 193	507 500		3 000		510 500	102 175 693
1988	293 000	10 312 123	100 805 700	4 687 692	116 098 515	503 422		1 700		505 122	116 603 637
1989	225 300	12 816 753	102 283 300	6 155 893	121 481 246	492 500	2 400			494 900	121 976 146
1990	200 000	11 799 958	104 220 200	6 938 944	123 159 102	449 100	2 400			451 500	123 610 602
1991	447 000	15 197 570	109 136 300	7 313 944	132 094 814	440 628	2 400			443 028	132 537 842
1992	722 000	16 228 698	121 277 300	7 472 216	145 700 214	427 100	2 400			429 500	146 129 714
1993	725 000	18 139 353	132 254 700	7 674 313	158 793 366	411 200	2 400			413 600	159 206 966

CANADIAN RAW NATURAL GAS PRODUCTION*

1947 - 2018

Thousand Cubic Metres at 101.325 kPa and 15°C

	Territories	British Columbia	Alberta	Saskatchewan	Western Canada	Ontario	Quebec	New Brunswick	Eastcoast Offshore	Eastern Canada	Canada
1994	665 300	19 847 174	141 417 100	8 521 456	170 451 030	423 800	2 400			426 200	170 877 230
1995	639 000	21 818 492	148 198 600	8 718 458	179 374 550	456 300	2 400			458 700	179 833 250
1996	604 000	22 203 715	154 639 700	8 071 254	185 518 669	307 000				307 000	185 825 669
1997	571 000	23 762 261	156 674 700	7 819 744	188 827 706	269 000				269 000	189 096 706
1998	609 000	24 352 815	161 076 000	7 695 876	193 733 691	275 500				275 500	194 009 191
1999	639 000	24 802 952	165 186 500	7 911 247	198 539 699	421 700				421 700	198 961 399
2000	1 320 600	25 516 575	166 681 000	8 151 622	201 669 797	580 000			3 585 000	4 165 000	205 834 797
2001	1 946 551	29 072 320	163 527 000	8 288 934	202 834 805	354 900			5 375 348	5 730 248	208 565 053
2002	1 567 170	31 446 347	161 111 000	8 282 859	202 407 376	369 600			5 474 988	5 844 588	208 251 964
2003	1 235 500	29 653 157	157 581 733	8 848 279	197 318 669	384 600		11 794	4 557 339	4 953 733	202 272 402
2004	899 600	31 261 428	159 022 565	9 412 894	200 596 487	359 448		18 984	4 327 897	4 706 329	205 302 816
2005	701 363	31 847 342	159 828 625	9 501 465	201 878 795	346 554		18 081	4 221 847	4 586 482	206 465 277
2006	471 561	35 411 141	158 660 221	9 585 244	204 128 167	340 378			17 135	3 794 706	4 152 219
2007	424 858	31 932 619	157 588 344	8 870 336	198 816 156	292 731			157 317	4 403 035	4 853 083
2008	278 873	33 466 515	149 100 238	8 229 509	191 075 135	265 172			275 618	4 636 885	5 177 675
2009	253 198	32 929 762	137 790 020	7 670 082	178 643 061	238 662			238 437	3 582 579	4 059 679
2010	230 135	34 991 762	131 517 685	6 827 222	173 566 804	233 987			183 594	3 298 886	3 716 468
2011	209 467	41 441 414	123 052 814	6 167 443	170 871 138	224 781			162 810	2 829 809	3 217 400
2012	193 259	40 982 111	120 254 099	5 630 916	167 060 385	200 297			124 944	2 147 410	2 472 651
2013	133 483	44 567 314	117 775 308	5 538 343	168 014 448	185 720			111 790	1 921 106	2 218 616
2014	119 607	47 214 273	121 285 300	5 824 006	174 443 187	159 183			96 393	3 591 276	3 846 852
2015	86 272	48 971 333	124 753 971	5 796 902	179 608 478	160 648			56 683	2 157 699	2 375 030
2016	82 633	50 727 677	125 827 541	5 359 418	181 997 269	149 190			77 699	1 910 588	2 137 477
2017	8 894	51 549 034	128 832 480	5 301 281	185 691 688	134 987			33 026	1 382 680	1 550 694
2018	14 551	58 853 568	129 990 256	5 183 674	194 042 049	132 064			55 560	785 485	973 108
Total**	26 290 008	1 187 815 691	6 040 283 984	286 456 657	7 540 846 340	37 200 688	67 515	2 429 190	63 984 564	103 681 957	7 644 528 296

*Raw natural gas production less raw and processed gas injection.

Table 3.10

CANADIAN MARKETED GAS PRODUCTION

1947 - 2018

Million Cubic Metres at 101.325 kPa and 15°C

	Alberta	British Columbia	Saskatchewan	Territories	Eastcoast Offshore	Eastern Canada	Canada	Average Daily
1947	924		7			233	1 164	3
1948	1 062		12			254	1 328	4
1949	1 150		13			237	1 400	4
1950	1 425		23			237	1 685	5
1951	1 607		24			245	1 876	5
1952	1 785		32			240	2 057	6
1953	2 043		44			278	2 365	6
1954	2 453	2	87			287	2 829	8
1955	3 002	5	171			311	3 489	10
1956	3 208	5	242			366	3 821	10
1957	3 781	207	337			411	4 736	13
1958	5 242	1 607	606			458	7 913	22
1959	7 074	1 787	893			480	10 234	28
1960	9 058	2 219	894			519	12 690	35
1961	11 868	2 704	918			415	15 905	44
1962	17 504	3 062	805			444	21 815	60
1963	19 532	2 973	868			452	23 825	65
1964	21 903	3 352	935			392	26 582	73
1965	24 039	3 911	981			360	29 291	80
1966	25 409	4 544	1 121			443	31 517	86
1967	27 400	6 184	1 123			406	35 113	96
1968	31 038	7 194	1 305			346	39 883	109
1969	36 735	8 267	1 605			324	46 931	129
1970	42 874	8 922	1 416			479	53 691	147
1971	47 529	9 434	1 616	25		463	59 067	162
1972	52 189	12 085	1 583	320		358	66 535	182
1973	55 521	13 082	1 566	849		275	71 293	195
1974	56 817	11 280	1 482	755		217	70 551	193
1975	58 142	10 837	1 503	750		309	71 541	196
1976	59 456	10 376	1 456	972		140	72 400	198
1977	62 666	10 619	1 187	630		242	75 344	206
1978	61 660	9 541	1 115	521		350	73 187	201
1979	66 220	9 700	1 178	526		388	78 012	214
1980	62 070	7 801	1 197	376		435	71 879	196
1981	61 950	7 100	1 191	292		415	70 948	194
1982	64 113	6 718	1 272	176		435	72 714	199
1983	60 590	6 625	1 199	163		467	69 044	189
1984	65 819	7 008	1 584	178		609	75 198	205
1985	72 849	7 558	1 891	207		522	83 027	227
1986	64 945	7 175	2 199	171		505	74 995	205
1987	69 940	8 506	2 371	166		511	81 494	223
1988	80 963	9 041	3 806	119		505	94 434	258
1989	83 479	11 428	5 381	109		495	100 892	276
1990	84 578	10 540	6 119	74		451	101 762	279
1991	89 286	13 807	6 444	362		428	110 327	302
1992	98 860	14 677	6 573	581		427	121 118	331
1993	110 658	16 424	6 650	598		411	134 741	369
1994	119 668	17 460	7 292	655		426	145 501	399
1995	124 024	19 282	7 421	639		456	151 822	416
1996	131 743	19 404	6 466	604		459	158 676	434
1997	133 243	20 876	6 190	571		269	161 149	442
1998	136 782	21 279	6 271	609		269	165 210	453
1999	141 034	21 704	6 517	639		421	170 315	467
2000	142 239	22 259	6 682	1 012	3 434	580	176 206	481
2001	139 942	25 660	6 703	1 471	5 085	355	179 216	491
2002	137 483	28 136	6 640	1 200	5 209	369	179 037	491
2003	134 732	26 217	7 085	953	4 329	396	173 712	476
2004	135 824	27 182	7 267	711	4 021	378	175 383	479
2005	136 838	27 966	6 994	421	3 946	364	176 529	484
2006	136 261	29 418	6 871	315	3 603	357	176 825	484

CANADIAN MARKETED GAS PRODUCTION

1947 - 2018

Million Cubic Metres at 101.325 kPa and 15°C

	Alberta	British Columbia	Saskatchewan	Territories	Eastcoast Offshore	Eastern Canada	Canada	Average Daily
2007	135 735	27 985	5 853	285	4 183	450	174 491	478
2008	127 953	28 919	5 786	187	4 405	541	167 790	458
2009	118 374	28 551	5 366	170	3 390	477	156 328	428
2010	112 804	30 578	4 402	154	3 122	418	151 478	415
2011	104 975	36 392	4 749	140	2 678	388	149 322	409
2012	102 521	36 457	4 776	129	2 032	325	146 241	400
2013	100 134	40 242	4 507	89	1 818	298	147 088	403
2014	102 389	42 682	4 492	80	3 399	256	153 297	420
2015	104 734	44 931	4 431	58	2 042	214	156 410	429
2016	105 006	47 130	4 226	55	1 808	225	158 450	433
2017	107 333	47 920	4 149	6	1 309	166	160 883	441
2018	107 904	55 982	4 094	0	743	166	168 889	463
Total	4 972 090	1 062 920	220 253	20 074	60 557	26 997	6 362 891	

Table 3.11

CANADIAN SULPHUR PRODUCTION

1952 - 2018

Tonnes

British Columbia	Alberta	Saskatchewan	Canada	Refinery
1952	8 102		8 102	
1953	16 599		16 599	
1954	20 249		20 249	
1955	26 393		26 393	
1956	30 358		30 358	
1957	3 532	91 358	94 890	
1958	57 430	110 973	168 505	
1959	48 710	216 494	265 886	
1960	54 842	353 730	409 991	
1961	50 489	441 367	493 576	
1962	62 765	987 954	1 052 612	
1963	54 768	1 247 367	1 302 570	
1964	59 725	1 436 932	1 496 657	
1965	51 979	1 563 115	1 615 094	
1966	51 341	1 703 118	1 757 206	
1967	49 405	2 150 122	2 203 446	
1968	50 378	3 037 562	3 091 720	
1969	57 947	3 713 000	3 774 128	
1970	58 512	4 249 000	4 309 942	
1971	67 535	4 558 000	4 628 579	
1972	67 461	6 652 000	6 722 587	
1973	73 975	7 087 000	7 164 212	
1974	59 349	6 842 000	6 904 115	14 000
1975	60 831	6 461 000	6 524 157	14 000
1976	71 164	6 328 000	6 401 141	14 000
1977	148 478	6 396 000	6 545 861	17 000
1978	100 729	6 315 000	6 417 498	16 000
1979	131 147	6 148 000	6 279 261	12 000
1980	167 970	6 014 000	6 181 970	13 000
1981	209 276	5 651 000	5 860 276	11 000
1982	197 136	5 289 000	5 486 136	10 000
1983	258 976	5 467 000	5 725 976	12 000
1984	271 189	5 351 000	5 622 189	10 000
1985	251 986	5 436 000	5 687 986	10 000
1986	265 877	5 329 000	5 594 877	9 000
1987	288 474	5 406 000	5 694 474	12 000
1988	292 058	5 592 000	5 884 058	14 000
1989	412 990	5 234 000	5 646 990	16 000
1990	421 478	5 279 000	5 700 478	17 000
1991	452 356	5 591 163	6 043 519	17 000
1992	534 365	5 784 654	6 319 019	18 335
1993	600 703	6 612 713	7 213 416	19 923
1994	626 525	7 023 599	7 650 124	17 957
1995	835 269	6 736 634	7 571 903	18 516
1996	912 661	7 098 109	8 010 770	23 160
1997	911 633	7 074 819	7 986 452	22 278
1998	941 375	7 161 306	8 102 681	20 884
1999	924 885	7 472 687	8 397 572	22 505
2000	898 502	7 395 625	8 294 127	15 936
2001	903 739	6 931 149	7 834 888	10 449
2002	865 085	6 543 734	7 408 819	9 729
2003	770 080	5 663 186	6 433 266	11 100
2004	791 135	6 780 074	7 571 209	
2005	853 820	6 560 573	7 414 393	
2006	847 066	6 588 894	7 435 960	
2007	807 558	6 286 345	7 093 903	
2008	884 028	5 582 846	6 466 874	
2009	846 726	5 218 146	6 064 872	
2010	797 272	4 941 749	5 739 022	

CANADIAN SULPHUR PRODUCTION

1952 - 2018

Tonnes

	British Columbia	Alberta	Saskatchewan	Canada	Refinery
2011	829 415	4 773 738		5 603 153	
2012	762 399	4 399 296		5 161 695	
2013	727 218	4 474 971		5 202 189	
2014	654 845	4 158 657		4 813 502	
2015	653 999	4 027 960		4 681 959	
2016	405 477	3 741 347		4 146 825	
2017	276 880	3 894 444		4 171 323	
2018	405 450	3 933 539		4 338 989	
Total	25 250 369	300 690 750	42 050	325 983 168	448 772

Note: No production from gas plants prior to 1952.

Alberta excludes refinery production but includes oil sands plants.

Refinery production no longer available

Table 3.12

CANADIAN SULPHUR SALES

1952 - 2018

Tonnes

	British Columbia	Alberta	Saskatchewan	Canada
1952	-	3 832	-	3 832
1953	-	14 580	-	14 580
1954	-	16 932	-	16 932
1955	-	23 565	-	23 565
1956	-	31 555	-	31 555
1957	-	84 665	-	84 665
1958	-	83 037	-	83 037
1959	41 020	87 670	340	129 030
1960	32 797	211 832	656	245 285
1961	48 156	307 606	2 710	358 472
1962	52 423	569 883	1 120	623 426
1963	68 763	1 060 908	47	1 129 718
1964	62 766	1 544 879	153	1 607 798
1965	80 544	1 765 777	958	1 847 279
1966	70 801	1 754 422	1 872	1 827 095
1967	50 657	2 169 259	3 850	2 223 766
1968	48 728	2 244 729	3 061	2 296 518
1969	49 031	2 610 000	2 751	2 661 782
1970	52 254	3 121 000	-	3 173 254
1971	53 680	2 715 000	1 025	2 769 705
1972	51 366	3 155 000	1 717	3 208 083
1973	55 016	4 064 000	2 860	4 121 876
1974	53 770	4 977 000	3 470	5 034 240
1975	38 530	3 835 000	3 638	3 877 168
1976	29 200	3 964 000	3 003	3 996 203
1977	41 749	5 137 000	2 308	5 181 057
1978	99 603	5 650 000	2 368	5 751 971
1979	146 189	6 147 000	2 440	6 295 629
1980	141 733	7 489 000	1 546	7 632 279
1981	244 068	7 709 000	-	7 953 068
1982	277 256	6 570 000	-	6 847 256
1983	258 427	6 228 000	-	6 486 427
1984	270 543	7 956 000	-	8 226 543
1985	263 733	7 831 000	-	8 094 733
1986	266 596	6 622 000	-	6 888 596
1987	298 877	6 936 000	-	7 234 877
1988	300 828	7 801 000	-	8 101 828
1989	433 261	5 786 000	-	6 219 261
1990	420 687	6 279 000	-	6 699 687
1991	453 190	6 265 372	-	6 718 562
1992	536 844	5 383 984	-	5 920 828
1993	597 720	4 257 156	-	4 854 876
1994	626 658	4 852 896	-	5 479 554
1995	835 268	5 952 813	-	6 788 081
1996	912 661	6 127 478	-	7 040 139
1997	910 518	6 618 329	-	7 528 847
1998	942 984	6 098 138	-	7 041 122
1999	924 887	6 852 076	-	7 776 963
2000	898 502	6 711 754	-	7 610 256
2001	901 773	5 640 888	-	6 542 661
2002	810 818	5 525 137	-	6 335 955
2003	740 106	6 168 463	-	6 908 569
2004	777 891	6 691 194	-	7 469 085

Table 3.12

CANADIAN SULPHUR SALES

1952 - 2018

Tonnes

	British Columbia	Alberta	Saskatchewan	Canada
2005	847 561	6 348 445	-	7 196 006
2006	818 394	6 849 462	-	7 667 856
2007	828 444	6 521 690	-	7 350 134
2008	901 213	5 468 163	-	6 369 376
2009	842 980	4 249 327	-	5 092 306
2010	704 384	3 664 084	-	4 368 468
2011	809 880	3 278 682	-	4 088 562
2012	712 274	2 968 617	-	3 680 891
2013	716 621	2 628 367	-	3 344 988
2014	633 805	2 625 809	-	3 259 614
2015	665 483	2 831 112	-	3 496 595
2016	362 263	2 926 808	-	3 289 071
2017	276 332	2 342 058	-	2 618 390
2018	242 890	2 685 906	-	2 928 796
Total	24 635 394	273 091 336	41 893	297 768 623

Table 3.13

CANADIAN SULPHUR INVENTORY

1952 - 2018

Tonnes

	British Columbia	Alberta	Saskatchewan	Canada
1952		2 877		2 877
1953		5 324		5 324
1954		7 388		7 388
1955		10 346		10 346
1956		8 742		8 742
1957	3 532	15 811		19 343
1958	60 325	40 264	102	100 691
1959	67 789	167 501	443	235 733
1960	88 724	305 073	1 145	394 942
1961	91 764	437 022	207	528 993
1962	102 107	852 608	879	955 594
1963	87 531	1 031 031	1 261	1 119 823
1964	84 490	914 270	1 107	999 867
1965	55 916	697 916		753 832
1966	36 361	621 594	865	658 820
1967	35 137	624 205	935	660 277
1968	36 696	1 405 109	1 653	1 443 458
1969	45 829	2 460 000	2 083	2 507 912
1970	52 087	3 591 000	4 513	3 647 600
1971	80 536	5 392 000	6 556	5 479 092
1972	96 631	8 788 000	8 143	8 892 774
1973	115 590	11 808 000	8 572	11 932 162
1974	121 170	13 676 000	7 874	13 805 044
1975	143 478	16 280 000	6 562	16 430 040
1976	185 442	18 639 000	5 539	18 829 981
1977	292 170	19 944 000	4 607	20 240 777
1978	293 296	20 599 000	3 953	20 896 249
1979	278 254	20 577 000	1 546	20 856 800
1980	304 491	18 867 000		19 171 491
1981	269 699	16 967 000		17 236 699
1982	189 579	15 576 000		15 765 579
1983	190 128	14 739 000		14 929 128
1984	190 774	12 063 000		12 253 774
1985	179 027	9 729 000		9 908 027
1986	178 308	8 489 000		8 667 308
1987	167 905	7 080 000		7 247 905
1988	159 135	4 999 000		5 158 135
1989	138 864	4 400 000		4 538 864
1990	138 073	3 287 000		3 425 073
1991	137 239	2 831 192		2 968 431
1992	134 760	3 229 848		3 364 608
1993	137 743	5 561 593		5 699 336
1994	59 106	7 855 265		7 914 371
1995	67 425	8 675 073		8 742 498

Table 3.13

CANADIAN SULPHUR INVENTORY

1952 - 2018

Tonnes

	British Columbia	Alberta	Saskatchewan	Canada
1996	62 122	9 677 885		9 740 007
1997	67 930	10 153 983		10 221 913
1998	66 321	11 233 637		11 299 958
1999	68 869	11 865 680		11 934 549
2000	98 342	12 332 796		12 431 138
2001	130 507	13 829 023		13 959 530
2002	184 773	14 136 978		14 321 751
2003	238 011	13 862 132		14 100 143
2004	251 255	13 357 740		13 608 995
2005	257 514	12 691 492		12 949 006
2006	286 186	12 111 474		12 397 660
2007	265 300	11 816 234		12 081 535
2008	248 116	11 631 654		11 879 770
2009	251 862	12 155 606		12 407 467
2010	344 750	11 737 378		12 082 128
2011	363 730	11 235 170		11 598 900
2012	349 663	10 991 488		11 341 151
2013	360 651	10 931 293		11 291 943
2014	381 691	11 192 635		11 574 325
2015	370 207	11 155 463		11 525 669
2016	413 421	11 247 356		11 660 778
2017	413 969	11 415 357		11 829 327
2018	576 529	11 461 135		12 037 664

Table 3.14

CANADIAN ETHANE PRODUCTION

1974 - 2018

Cubic Metres

	British Columbia	Alberta	Saskatchewan	Canada
1974	-	161 200	-	161 200
1975	-	192 700	-	192 700
1976	-	184 100	-	184 100
1977	-	370 400	-	370 400
1978	-	1 400 600	-	1 400 600
1979	-	3 587 200	-	3 587 200
1980	-	4 455 700	-	4 455 700
1981	-	4 670 700	20 345	4 691 045
1982	-	4 248 100	23 211	4 271 311
1983	-	4 658 700	45 033	4 703 733
1984	-	5 632 800	53 876	5 686 676
1985	-	5 468 200	42 700	5 510 900
1986	-	5 147 000	44 100	5 191 100
1987	-	6 453 100	43 800	6 496 900
1988	-	6 512 900	44 000	6 556 900
1989	-	6 525 700	43 190	6 568 890
1990	-	7 105 900	41 400	7 147 300
1991	-	7 537 530	40 520	7 578 050
1992	-	7 307 294	45 494	7 352 788
1993	-	8 281 487	46 520	8 328 007
1994	-	9 067 600	48 080	9 115 680
1995	-	10 001 500	52 806	10 054 306
1996	-	10 691 300	53 113	10 744 413
1997	-	10 892 300	64 716	10 957 016
1998	-	10 588 600	67 103	10 655 703
1999	-	12 986 700	57 459	13 044 159
2000	910 100	12 306 800	64 108	13 281 008
2001	971 892	12 105 800	39 130	13 116 822
2002	1 163 502	13 749 800	27 742	14 941 044
2003	1 123 142	13 741 680	52 961	14 917 783
2004	979 274	14 669 066	52 175	15 700 515
2005	1 047 298	14 620 410	51 675	15 719 383
2006	1 241 270	14 845 765	42 107	16 129 142
2007	1 154 771	14 491 663	27 315	15 673 749
2008	1 219 658	12 927 652	26 443	14 173 753
2009	1 152 323	12 815 355	26 424	13 994 102
2010	1 190 851	12 489 060	48 229	13 728 140
2011	1 140 623	12 850 297	35 442	14 026 361
2012	969 292	12 481 838	40 805	13 491 934
2013	1 035 313	13 138 086	42 501	14 215 900
2014	1 001 464	12 741 344	48 138	13 790 946
2015	984 447	12 998 816	35 141	14 018 404
2016	1 033 600	13 975 033	58 686	15 067 319
2017	978 591	13 012 584	57 497	14 048 672
2018	823 041	13 099 913	56 557	13 979 510
Total	20 120 448	407 190 272	1 710 542	429 021 263

Gas processing plant production.

Table 3.15

CANADIAN CRUDE OIL & EQUIVALENT PRODUCTIVE CAPACITY**1947 - 2017****Thousand Cubic Metres Per Day****Discontinued**

	Conventional Light & Heavy Crude Oil	Mining/ Upgrading Crude Oil	In-situ Bitumen	Pentanes Plus	Total
1947	4				4
1948	6				6
1949	10				10
1950	15				15
1951	25				25
1952	30				30
1953	50				50
1954	60				60
1955	80				80
1956	122				122
1957	139				139
1958	149			1	150
1959	156			1	157
1960	165			1	166
1961	173			2	175
1962	184			5	189
1963	196			8	204
1964	216			11	227
1965	260			12	272
1966	280			13	293
1967	289			13	302
1968	298	2		14	314
1969	308	4		17	329
1970	316	5		19	340
1971	318	7		20	345
1972	320	8		26	354
1973	323	8		27	358
1974	314	7		25	346
1975	293	7	1	24	325
1976	286	8	1	21	316
1977	271	7	1	21	300
1978	251	9	1	19	280
1979	226	14	2	19	261
1980	218	20	2	17	257
1981	211	17	2	16	246
1982	200	16	4	16	236
1983	199	24	4	15	242
1984	208	21	5	15	249
1985	213	26	8	16	263

Table 3.15

CANADIAN CRUDE OIL & EQUIVALENT PRODUCTIVE CAPACITY
1947 - 2017
Thousand Cubic Metres Per Day

Discontinued

	Conventional Light & Heavy Crude Oil	Mining/ Upgrading Crude Oil	In-situ Bitumen	Pentanes Plus	Total
1986	209	29	15	16	269
1987	204	29	18	17	268
1988	206	31	21	19	277
1989	195	36	20	19	270
1990	195	32	22	19	268
1991	190	36	19	19	264
1992	200	38	20	21	279
1993	207	39	21	23	290
1994	222	42	22	25	311
1995	226	44	24	27	321
1996	230	45	26	28	329
1997	230	46	38	33	347
1998	222	50	45	33	350
1999	215	53	45	33	346
2000	222	51	46	31	350
2001	222	61	49	32	364
2002	239	70	48	29	386
2003	233	82	56	26	397
2004	223	97	61	26	407
2005	217	88	72	28	405
2006	214	104	73	28	419
2007	221	109	79	28	438
2008	214	104	87	26	432
2009	193	121	107	24	446
2010	195	123	112	24	453
2011	200	132	125	23	481
2012	208	139	144	23	514
2013	219	147	161	24	552
2014	222	158	186	28	594
2015	226	151	212	29	619
2016	191	157	223	37	608
2017	180	187	241	47	654

NOTE: Represents annual average capacity.

Table 3.16

CANADIAN CRUDE OIL & EQUIVALENT PRODUCTION BY TYPE

1971 - 2018

Thousand Cubic Metres Per Day

	Light	Pentanes	Synthetic Crude Oil	Heavy	Crude Bitumen	Total
1971	176.2	20.0	6.7	32.1		235.0
1972	202.5	25.8	8.1	33.0		269.4
1973	241.7	26.4	7.9	35.2	0.2	311.4
1974	229.4	25.3	7.3	30.4	0.2	292.6
1975	194.7	23.7	6.8	24.8	0.5	250.5
1976	174.1	20.8	7.6	25.5	1.2	229.2
1977	170.1	20.7	7.2	30.8	1.3	230.1
1978	167.4	18.5	8.9	31.1	1.2	227.1
1979	189.9	18.3	14.5	31.6	1.6	255.9
1980	175.2	16.5	20.4	30.6	1.5	244.2
1981	156.1	15.9	17.2	28.1	2.1	219.4
1982	151.5	15.6	16.4	27.7	3.5	214.7
1983	154.9	14.5	23.7	31.1	4.0	228.2
1984	165.3	15.0	21.3	36.6	5.3	243.5
1985	159.6	15.8	26.2	39.2	8.3	249.1
1986	149.7	16.1	29.4	39.9	14.8	249.9
1987	153.9	17.2	28.7	42.9	18.4	261.1
1988	158.1	18.3	31.9	45.4	20.6	274.3
1989	148.2	18.8	32.6	46.2	20.5	266.3
1990	142.1	18.4	33.1	49.8	21.5	264.9
1991	136.9	19.4	35.9	53.1	19.5	264.8
1992	136.0	21.4	37.6	60.5	20.1	275.6
1993	145.1	23.2	38.7	61.7	21.1	289.8
1994	149.3	24.0	41.6	64.6	21.4	300.9
1995	146.0	24.6	44.7	72.8	23.6	311.7
1996	141.8	27.0	44.6	78.8	26.0	318.2
1997	136.1	29.4	46.0	85.1	37.8	334.4
1998	140.4	29.8	49.0	87.0	44.9	351.1
1999	129.5	30.9	51.4	83.9	38.8	334.5
2000	131.6	30.9	50.8	89.0	45.8	348.2
2001	127.5	29.5	55.5	91.0	49.0	352.6
2002	141.3	25.9	69.8	88.0	47.9	373.0
2003	144.5	25.1	72.2	87.0	55.5	384.4
2004	136.1	28.0	102.4	86.9	59.3	412.7
2005	132.2	27.4	86.8	83.6	66.7	396.7
2006	145.6	22.0	104.4	71.0	74.4	417.4
2007	154.7	21.9	109.2	68.6	80.1	434.5
2008	151.8	20.7	103.8	65.7	87.5	429.5
2009	135.1	19.5	121.7	61.2	90.5	428.0
2010	137.5	18.4	126.8	60.3	110.8	453.7
2011	142.0	18.3	135.3	61.4	125.0	481.9
2012	146.5	18.0	145.1	64.9	144.7	519.3
2013	158.1	19.8	148.7	64.9	163.6	555.1
2014	161.8	23.5	151.5	66.3	194.1	597.2
2015	145.0	29.7	155.0	61.2	223.5	614.5
2016	143.0	32.1	147.7	55.7	236.1	614.6
2017	150.1	38.3	163.2	56.2	262.0	669.7
2018	166.4	43.9	167.9	55.9	295.2	729.4

Table 3.17

PRODUCING OIL WELLS IN WESTERN CANADA
AT YEAR-END
1956 - 2018

	British Columbia	Alberta Conventional	Alberta Bitumen	Saskatchewan	Manitoba	Total
1956	6	6 743		2 047	647	9 443
1957	14	7 136		2 652	739	10 541
1958	32	7 811		2 963	736	11 542
1959	37	8 281		3 447	730	12 495
1960	52	8 633		3 685	755	13 125
1961	114	8 938		3 910	729	13 691
1962	326	9 183		4 248	730	14 487
1963	350	9 217		4 653	683	14 903
1964	332	9 613		4 837	745	15 527
1965	412	8 736		5 384	748	15 280
1966	440	8 886		5 635	737	15 698
1967	464	9 116		5 735	752	16 067
1968	479	9 114		5 787	774	16 154
1969	515	9 381		6 016	754	16 666
1970	529	9 383		6 179	730	16 821
1971	556	9 467		6 276	695	16 994
1972	566	9 689		6 392	745	17 392
1973	542	10 028		6 522	687	17 779
1974	519	10 395		6 271	714	17 899
1975	460	10 708		6 092	686	17 946
1976	522	11 166		5 938	688	18 314
1977	527	11 592		6 777	701	19 597
1978	554	12 151		7 274	703	20 682
1979	597	12 805		8 071	706	22 179
1980	588	13 117	195	8 343	720	22 963
1981	580	13 903	340	7 915	748	23 486
1982	633	14 729	530	9 020	896	25 808
1983	657	16 004	690	10 182	1 041	28 574
1984	683	17 166	1 240	12 071	1 209	32 369
1985	673	18 257	1 700	14 080	1 366	36 076
1986	641	18 335	1 840	13 332	1 367	35 515
1987	678	20 237	2 110	14 371	1 434	38 830
1988	673	20 583	2 310	14 096	1 370	39 032
1989	705	21 820	2 319	13 880	1 353	40 077
1990	704	22 186	2 540	14 377	1 430	41 237
1991	695	22 380	2 296	13 799	1 408	40 578
1992	692	23 027	2 532	14 433	1 387	42 071
1993	746	24 368	2 802	15 158	1 394	44 468
1994	761	24 940	2 844	15 603	1 363	45 511
1995	796	25 996	3 399	16 243	1 354	47 788
1996	820	26 917	4 085	17 168	1 342	50 332
1997	922	28 606	4 537	18 864	1 337	54 266
1998	943	27 508	4 350	17 273	1 247	51 321
1999	925	28 407	4 966	19 015	1 246	54 559
2000	1 008	29 346	6 103	20 366	1 232	58 055
2001	1 027	29 781	5 763	20 493	1 267	58 331
2002	1 045	28 160	6 752	21 401	1 402	58 760
2003	1 085	30 376	7 582	22 030	1 487	62 560
2004	1 110	30 958	7 799	22 715	1 474	64 056
2005	1 092	31 611	8 282	23 173	1 685	65 843
2006	1 122	32 217	8 585	24 127	2 067	68 118
2007	1 078	32 539	8 894	25 005	2 221	69 737

PRODUCING OIL WELLS IN WESTERN CANADA
AT YEAR-END
1956 - 2018

	British Columbia	Alberta Conventional	Alberta Bitumen	Saskatchewan	Manitoba	Total
2008	1 061	33 045	9 514	26 149	2 692	72 461
2009	1 043	31 912	9 405	25 913	2 747	71 020
2010	1 026	32 886	10 229	26 802	2 951	73 894
2011	1 038	32 815	10 196	28 160	3 231	75 440
2012	998	35 212	13 191	29 573	3 742	82 716
2013	924	35 242	14 256	29 931	4 113	84 466
2014	1 335	36 493	15 500	30 600	4 477	88 405
2015	1 129	32 643	11 015	29 222	4 333	78 342
2016	1 009	31 624	10 215	35 860	4 029	82 737
2017	1 016	30 140	10 429	36 561	4 068	82 214
2018	996	30 095	9 966	37 750	3 831	82 638

Wells that were producing at year-end or produced during December.

Table 3.18

PRODUCING GAS WELLS IN WESTERN CANADA
 AT YEAR-END
 1956 - 2018

	British Columbia	Alberta Conventional	Alberta CBM and Shale	Saskatchewan	Western Canada
1956	1	368		61	430
1957	42	422		70	534
1958	77	575		88	740
1959	81	681		85	847
1960	104	758		98	960
1961	138	894		102	1 134
1962	175	995		95	1 265
1963	213	1 213		102	1 528
1964	226	1 372		149	1 747
1965	248	1 502		195	1 945
1966	245	1 527		217	1 989
1967	255	1 647		251	2 153
1968	270	1 924		294	2 488
1969	286	2 194		323	2 803
1970	282	2 490		364	3 136
1971	305	2 830		409	3 544
1972	321	3 318		439	4 078
1973	325	3 769		455	4 549
1974	340	4 508		503	5 351
1975	346	5 704		558	6 608
1976	395	7 753		605	8 753
1977	457	10 806		642	11 905
1978	572	12 785		576	13 933
1979	616	14 760		698	16 074
1980	604	16 661		724	17 989
1981	487	18 797		767	20 051
1982	591	20 611		795	21 997
1983	616	21 881		930	23 427
1984	621	22 839		1 357	24 817
1985	628	24 424		1 614	26 666
1986	637	24 648		1 915	27 200
1987	671	25 453		2 106	28 230
1988	675	27 167		3 215	31 057
1989	717	27 051		3 914	31 682
1990	733	27 291		4 917	32 941
1991	838	27 998		5 365	34 201
1992	886	30 074		5 531	36 491
1993	933	31 362		6 375	38 670
1994	989	34 126		7 299	42 414
1995	1 103	35 458		7 604	44 165
1996	1 215	36 940		7 488	45 643
1997	1 388	39 687		7 916	48 991
1998	1 601	42 627		8 357	52 585
1999	1 922	47 130		10 483	59 535
2000	2 302	53 263		9 406	64 971
2001	2 697	60 290		12 071	75 058

Table 3.18

PRODUCING GAS WELLS IN WESTERN CANADA
AT YEAR-END
1956 - 2018

	British Columbia	Alberta Conventional	Alberta CBM and Shale	Saskatchewan	Western Canada
2002	3 066	69 429		13 710	86 205
2003	3 569	73 535		15 175	92 279
2004	4 385	85 071		16 611	106 067
2005	5 217	91 927	3 120	17 890	118 154
2006	6 608	101 684	5 971	18 691	132 954
2007	6 607	95 853	9 862	19 538	131 860
2008	7 157	101 073	10 742	20 348	139 320
2009	7 129	98 698	13 513	20 162	139 502
2010	7 307	97 430	15 308	19 740	139 785
2011	7 727	94 987	17 662	19 111	139 487
2012	7 310	101 009	18 747	18 127	145 193
2013	8 051	98 515	19 555	17 753	143 874
2014	9 563	103 879	20 901	16 932	151 275
2015	9 018	93 358	21 294	16 340	140 010
2016	8 550	89 950	21 384	16 898	136 782
2017	8 715	84 860	21 919	16 325	131 819
2018	8 843	83 282	21 780	16 041	129 946

Note: Operated wells are wells that were producing at year-end or produced during December.

Section 4

Expenditures/Revenue

Table #

Net Cash Expenditures of the Petroleum Industry by Province Current Year	4.1
Net Cash Expenditures of the Petroleum Industry (Canada) 1947 – Present	4.2
Net Cash Expenditures of the Petroleum Industry (Alberta) 1947 – Present	4.3
Net Cash Expenditures of the Petroleum Industry (Saskatchewan) 1947 – Present	4.4
Net Cash Expenditures of the Petroleum Industry (British Columbia) 1948 – Present	4.5
Net Cash Expenditures of the Petroleum Industry (Territories & Arctic Islands) 1951 - Present	4.6
Net Cash Expenditures of the Petroleum Industry (Manitoba) 1951 – Present	4.7
Net Cash Expenditures of the Petroleum Industry (Ontario) 1968 - Present	4.8
Net Cash Expenditures of the Petroleum Industry (Quebec) 1969 – Present	4.9
Net Cash Expenditures of the Petroleum Industry (Atlantic Provinces) 1969 - Present	4.10
Net Cash Expenditures of the Petroleum Industry (Eastcoast - Offshore) Discontinued 1967 - 1994.....	4.11
Net Cash Expenditures of the Petroleum Industry (Offshore Newfoundland) 1995-Present	4.12

Net Cash Expenditures of the Petroleum Industry (Offshore Nova Scotia) 1995-Present	4.13
Canada Oil Sands Expenditures 1958 – Present	4.16
Value of Producers' Sales (Territories) 1947 – Present	4.17
Value of Producers' Sales (British Columbia) 1947 – Present	4.18
Value of Producers' Sales (Alberta) 1947 – Present	4.19
Value of Producers' Sales (Saskatchewan) 1947 – Present	4.20
Value of Producers' Sales (Manitoba) 1947 – Present	4.21
Value of Producers' Sales (Western Canada) 1947 – Present	4.22
Value of Producers' Sales (Eastern Canada) 1947 – Present	4.23
Value of Producers Sales (Eastcoast Offshore) 1992 - Present	4.24
Value of Producers' Sales (Canada) 1947 – Present	4.25

2018 NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY

Million Dollars

	Alberta	Saskatchewan	British Columbia	Territories	Manitoba	Ontario	Quebec	Atlantic Provinces	Newfoundland Offshore	Nova Scotia Offshore	CANADA
EXPLORATION											
(a) Geological & geophysical	141	37	17	na	4	na	na	na	265	0	466
(b) Drilling	1 199	174	209	na	4	0	1	na	366	0	1 958
(c) Land acquisitions & rentals	900	509	197	1	7	na	na	0	5	0	1 620
Total	2 240	719	423	na	15	0	na	na	636	0	4 044
DEVELOPMENT											
(a) Drilling	8 805	2 443	1 235	35	332	0	0	na	1 233	0	14 081
(b) Production & Non-production facilities/operating overhead	3 639	1 310	1 893	0	67	0	0	0	814	na	7 724
(c) Enhanced recovery & pressure maintenance	316	48	58	0	na	0	0	0	0	0	453
(d) Natural gas plants	823	17	275	na	na	0	0	0	0	0	1 139
Total	13 582	3 817	3 461	na	432	0	0	na	2 047	na	23 398
TOTAL CAPITAL EXPENDITURES	15 822	4 536	3 884	65	447	0	na	na	2 683	na	27 442
OPERATING											
(a) Field, well & gathering operations	13 221	2 642	3 164	86	141	7	na	na	1 450	90	20 692
(b) Natural gas plants	2 136	191	587	na	0	2	na	na	0	63	3 182
Total	15 358	2 832	3 751	na	141	9	na	na	1 450	153	23 874
ROYALTIES *	2 272	1 018	307	na	207	2	na	na	974	6	4 796
TOTAL EXPENDITURES	33 452	8 386	7 942	249	795	12	3	na	5 107	160	56 112

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions. This survey represents close to 95% of industry based on production.

Oil sands expenditures are published on Table 4.14

*Net of incentives

"na" due to Statistics Canada data suppression

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018

Canada

Geological & Geophysical	EXPLORATION**				DEVELOPMENT**				CAPITAL EXPENDITURES				OPERATING				ROYALTIES*		TOTAL
	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines	Gas Plants	Other	Total	2	2	31		
1947	4	6	8	20	5	1			2	8	28	2			2	2	31		
1948	11	9	12	23	20	6			4	30	63	4			5	2	70		
1949	17	15	34	69	29	9			7	48	117	10	2	1	13	5	135		
1950	29	14	55	102	42	12			4	69	171	13	4	1	17	7	194		
1951	47	34	44	9	135	51	11		2	77	212	18	4	2	23	12	246		
1952	67	44	66	12	188	67	17		2	99	287	24	4	2	29	16	332		
1953	65	43	64	15	187	73	19	1	1	1104	291	31	4	4	39	21	350		
1954	60	50	117	13	240	63	17	1	3	1599	338	36	3	4	43	27	408		
1955	62	62	113	22	258	98	25	2	6	21	151	410	43	3	51	34	494		
1956	57	72	128	23	280	136	38	2	19	219	499	55	4	8	67	46	612		
1957	52	65	134	31	281	119	35	4	32	24	214	495	61	6	11	78	49	622	
1958	54	73	114	33	274	99	27	6	41	9	182	456	70	9	16	95	42	592	
1959	50	68	145	31	294	93	32	5	14	18	161	456	74	12	14	100	46	602	
1960	51	70	114	31	265	116	33	7	21	16	192	457	80	12	22	114	49	620	
1961	52	73	114	20	259	138	34	7	62	10	251	510	84	23	20	127	73	710	
1962	49	72	103	33	256	116	29	11	21	16	194	450	91	31	23	146	91	686	
1963	47	79	109	35	270	119	37	19	37	21	232	503	109	33	27	169	102	773	
1964	51	90	173	21	335	124	48	16	43	18	248	582	109	38	26	173	111	866	
1965	62	104	254		419	136	65	15	35	8	260	680	117	35	35	187	112	978	
1966	88	113	224		424	121	54	17	57	5	254	678	137	40	27	205	130	1 013	
1967	148	116	217	0	481	106	63	17	107	23	316	796	140	52	29	220	147	1 163	
1968	149	128	231	0	507	100	76	18	91	18	304	811	155	57	28	239	165	1 215	
1969	155	163	242	1	561	102	93	20	97	27	340	901	162	61	43	267	176	1 344	
1970	174	173	164	1	512	96	99	16	180	16	408	920	196	73	31	300	195	1 415	
1971	195	220	178		593	75	109	25	251	16	476	1 068	218	91	43	352	236	1 656	
1972	200	331	177		708	100	139	38	129	24	430	1 138	246	113	47	406	272	1 815	
1973	209	403	195		807	141	153	41	70	28	432	1 239	307	122	49	477	481	2 197	
1974	242	454	217		912	168	176	26	138	25	533	1 445	400	145	61	606	1 344	3 395	
1975	235	409	257		901	248	200	22	148	35	652	1 553	517	181	76	774	1 723	4 049	
1976	274	558	344		1 176	333	401	22	171	31	959	2 134	632	218	120	970	2 203	5 307	
1977	353	784	860		1 997	439	339	32	156	46	1 011	3 008	687	259	122	1 068	2 674	6 750	
1978	502	1 238	1 015		2 754	625	472	57	219	77	1 449	4 203	830	296	161	1 286	3 388	8 878	
1979	518	1 840	1 438		3 796	898	576	105	302	117	1 998	5 794	1 110	351	174	1 635	4 027	11 455	
1980	715	2 706	1 499		4 920	1 309	888	178	312	298	2 984	7 904	1 387	405	248	2 040	4 708	14 651	
1981	586	2 872	872		4 330	1 248	954	155	347	109	2 813	7 143	1 715	446	47	2 208	4 906	14 256	
1982	563	2 671	568		3 802	1 194	1 026	209	523		2 952	6 754	2 088	505		2 593	5 645	14 992	
1983	608	3 266	760		4 633	1 172	903	130	196	3	2 403	7 037	2 389	549		2 938	6 179	16 154	
1984	756	3 598	1 049		5 402	1 349	894	262	215	102	2 820	8 223	3 124	695		3 818	6 731	18 773	
1985	780	3 612	1 330		5 721	1 752	1 145	414	338	100	3 749	9 470	3 688	761		4 449	6 634	20 553	
1986	616	2 337	551		3 504	1 222	981	273	217		2 693	6 197	3 665	744		4 409	3 825	14 432	
1987	536	1 507	1 003		3 046	1 118	945	249	189		2 499	5 546	3 467	746		4 212	3 161	12 919	
1988	708	1 740	871		3 319	1 486	1 244	378	255		3 364	6 682	3 851	845		4 696	2 830	14 208	
1989	634	1 386	739		2 759	943	1 303	361	427		3 034	5 792	4 375	867		5 242	2 943	13 977	
1990	688	1 356	842		2 886	1 118	1 506	312	484		3 420	6 305	4 442	972		5 414	3 606	15 325	
1991	607	1 325	614		2 546	1 140	1 906	280	788		4 115	6 661	4 756	1 033		5 789	3 094	15 544	
1992	452	775	458		1 685	969	1 782	235	656		3 642	5 327	4 607	991		5 598	3 155	14 080	
1993	618	1 156	930		2 704	2 082	2 766	244	594		5 685	8 389	4 625	1 147		5 773	3 028	17 189	
1994	876	1 931	1 697		4 504	3 077	4 150	150	1 035		8 411	12 915	5 049	1 048		6 096	3 500	22 511	
1995	791	1 919	1 147		3 856	3 210	4 234	117	644		8 205	12 061	5 096	998		6 094	3 126	21 281	
1996	819	2 074	1 390		4 283	3 664	3 479	143	499		7 786	12 068	5 398	1 056		6 454	4 360	22 882	
1997	1 072	2 509	1 787		5 368	5 974	4 785	149	703		11 610	16 979	5 479	1 029		6 508	4 554	28 041	
1998	886	3 132	1 036		5 054	4 400	5 024	78	439		9 941	14 995	5 540	1 020		6 559	3 376	24 930	
1999	842	2 517	1 028		4 386	4 213	4 232	162	582		9 189	13 575	5 814	1 065		6 878	5 067	25 521	
2000	1 241	3 337	1 993		6 571	6 287	4 865	176	721		12 049	18 619	6 708	1 146		7 854	11 117	37 590	

Canada

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
Million dollars
1947-2018

Geological & Geophysical	EXPLORATION**				DEVELOPMENT**				CAPITAL EXPENDITURES				OPERATING				ROYALTIES*		TOTAL		
	Drilling	Land	Other	Total	Field equipment			EOR	Gas Plants	Other	Total	Wells & flow lines			Gas Plants	Other	Total				
					Drilling	Equipment	Other					Total	lines	Gas Plants							
2001	1 430	4 031	2 026	7 488	7 891	5 535	189	695	14 310	21 798	7 439	1 248	8 687	12 100	42 584						
2002	1 159	3 066	1 280	5 505	6 750	4 801	127	803	12 480	17 986	7 998	1 408	9 406	7 968	35 359						
2003	1 106	3 600	2 208	6 913	9 882	6 165	129	748	16 924	23 838	8 378	1 591	9 969	10 503	44 310						
2004	1 042	4 084	1 668	6 794	11 892	7 105	229	808	20 035	26 828	8 719	1 719	10 437	11 825	49 091						
2005	1 208	5 204	2 806	9 218	16 148	8 333	234	883	25 597	34 815	9 972	1 957	11 929	15 822	62 567						
2006	1 365	6 085	2 665	10 115	17 811	9 369	260	1 019	28 459	38 574	11 351	2 248	13 599	12 975	65 148						
2007	1 065	4 352	2 492	7 909	14 778	7 783	281	900	23 742	31 650	11 734	2 703	14 437	12 389	58 476						
2008	1 214	4 306	5 221	10 741	16 230	8 429	367	561	25 586	36 327	12 725	2 808	15 533	17 525	69 386						
2009	720	2 773	2 183	5 675	10 150	5 699	292	519	16 660	22 335	13 002	2 897	15 899	7 991	46 225						
2010	1 120	4 130	4 564	9 814	16 408	8 403	356	685	25 852	35 666	14 316	2 810	17 127	8 336	61 129						
2011	675	4 556	4 404	9 635	18 982	10 867	252	560	30 661	40 296	14 708	2 520	17 228	10 607	68 131						
2012	609	4 922	1 669	7 199	19 361	11 938	449	786	32 534	39 733	15 836	2 166	18 002	8 468	66 202						
2013	633	5 203	1 284	7 120	20 654	13 821	509	1 062	36 045	43 165	18 230	2 370	20 600	9 744	73 509						
2014	669	4 447	1 397	6 513	22 929	15 525	492	1 413	40 359	46 872	18 788	2 441	21 229	10 644	78 745						
2015	1 095	1 801	599	3 496	13 523	11 945	445	2 202	28 114	31 609	18 834	3 182	22 016	3 691	57 316						
2016	504	1 800	876	3 180	9 987	8 503	452	914	19 856	23 036	18 965	2 123	21 088	3 215	47 338						
2017	426	1 620	1 510	3 555	14 400	9 014	206	1 540	25 159	28 714	18 104	3 858	21 962	4 241	54 917						
2018	466	1 958	1 620	4 044	14 081	7 724	453	1 139	23 398	27 442	20 692	3 182	23 874	4 796	56 112						
Total	36 220	123 631	70 290	343	230 484	315 975	213 414	10 924	29 856	1 362	571 531	802 014	343 815	63 581	1 524	408 920	286 387	1 497 321			

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits. ** Before PIP grants.

Excludes oil sands, see Table 4.14

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018

Alberta

Geological & Geophysical	EXPLORATION**					DEVELOPMENT**					CAPITAL EXPENDITURES					OPERATING			ROYALTIES*			TOTAL
	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Plants	Other	Total	Wells & flow lines etc	Plants	Other	Total	2	2	2	2	29			
1947	4	6	8	2	19	4	1	2	7	26	2			2	2	2	2	29				
1948	11	8	12	2	32	20	6	4	29	61	4			5	2	2	2	67				
1949	16	14	32	3	65	29	9	4	48	112	10	2	1	13	5	5	5	130				
1950	25	11	52	4	92	41	12	4	68	159	12	4	1	17	7	7	182					
1951	40	28	33	8	107	47	11	2	73	180	18	4	2	23	12	214						
1952	54	27	44	10	134	57	14	2	85	219	23	4	2	28	16	262						
1953	52	27	47	11	137	61	15	1	88	224	28	4	3	35	20	279						
1954	45	35	94	10	184	46	13	1	77	261	31	3	4	38	25	323						
1955	46	44	93	16	199	74	18	1	117	316	36	3	4	43	31	389						
1956	41	46	103	15	204	101	28	1	19	172	376	43	4	8	55	41	472					
1957	36	41	105	23	204	78	22	3	15	124	327	43	6	11	59	40	426					
1958	37	54	88	23	202	78	19	5	29	139	341	51	9	13	73	30	443					
1959	32	48	109	20	209	78	23	4	13	134	343	54	12	14	79	34	455					
1960	33	44	91	21	189	99	26	7	21	145	354	60	11	22	92	35	481					
1961	31	52	88	13	183	111	26	4	61	9	210	393	60	21	16	97	55	545				
1962	33	47	84	15	178	84	19	6	20	144	321	64	28	17	109	66	496					
1963	28	50	92	14	184	90	24	8	36	153	357	75	30	19	124	73	553					
1964	32	57	135	15	239	91	31	8	29	14	172	411	74	35	22	131	80	622				
1965	42	70	198		310	99	41	9	32	7	188	498	76	33	29	137	79	714				
1966	68	76	170		314	88	35	10	44	1	179	493	86	36	23	145	91	729				
1967	100	77	167		344	77	46	10	88	19	241	585	90	48	21	159	107	851				
1968	87	88	174		349	74	61	10	87	15	247	596	107	51	22	180	126	901				
1969	86	90	180		356	68	74	16	91	22	271	626	106	54	36	196	136	959				
1970	80	84	117		281	72	71	11	162	11	328	608	132	64	24	220	154	982				
1971	66	81	126		272	56	76	20	214	12	376	648	155	83	38	276	190	1 115				
1972	71	102	124		298	69	107	34	110	14	333	631	182	102	39	324	226	1 181				
1973	71	131	144		346	102	127	37	65	19	351	697	234	111	44	389	423	1 508				
1974	112	147	157		416	136	153	24	126	17	455	872	300	132	57	488	1 107	2 467				
1975	99	149	208		456	212	181	20	124	25	562	1 018	403	166	71	640	1 478	3 136				
1976	146	257	256		658	277	368	21	155	24	846	1 503	511	201	114	826	1 974	4 304				
1977	223	395	680		1 298	351	298	29	144	39	861	2 159	556	241	114	911	2 399	5 469				
1978	350	645	741		1 735	477	385	52	166	49	1 129	2 865	676	279	149	1 103	3 055	7 023				
1979	350	1 028	1 145		2 522	679	476	78	205	100	1 538	4 060	893	314	166	1 373	3 623	9 057				
1980	452	1 622	1 177		3 250	1 063	684	136	241	217	2 341	5 591	1 089	354	236	1 679	4 248	11 518				
1981	352	1 544	721		2 617	1 083	783	143	311	99	2 418	5 036	1 393	409	33	1 835	4 497	11 367				
1982	325	1 076	466		1 867	943	840	132	494		2 408	4 275	1 717	469		2 185	5 098	11 559				
1983	373	1 017	565		1 955	906	654	59	180	2	1 801	3 757	1 939	492		2 432	5 467	11 656				
1984	472	1 130	790		2 393	997	681	193	181	84	2 136	4 529	2 521	616	3 137	5 958	13 624					
1985	481	1 368	1 021		2 870	1 296	903	331	263	87	2 880	5 750	2 966	680		3 646	5 784	15 180				
1986	449	1 021	447		1 918	983	853	229	181		2 247	4 164	3 006	669		3 675	3 362	11 200				
1987	420	1 011	841		2 272	883	768	223	162		2 037	4 309	2 831	663		3 494	2 626	10 429				
1988	521	1 089	677		2 287	1 165	1 005	351	208		2 729	5 016	3 166	753		3 919	2 457	11 392				
1989	429	838	552		1 818	687	1 023	345	364		2 419	4 237	3 630	746		4 375	2 527	11 139				
1990	452	950	614		2 016	831	1 089	286	360		2 567	4 583	3 605	841		4 445	3 085	12 114				
1991	395	852	467		1 715	877	1 112	268	711		2 968	4 682	3 856	898		4 754	2 625	12 061				
1992	330	575	345		1 249	735	842	225	613		2 415	3 665	3 682	843		4 525	2 686	10 876				
1993	434	883	641		1 958	1 574	1 387	222	436		3 620	5 578	3 659	984		4 643	2 505	12 726				
1994	679	1 450	1 218		3 347	2 316	2 162	124	703		5 305	8 651	3 984	890		4 874	2 858	16 383				
1995	560	1 492	857		2 910	2 401	2 408	72	555		5 436	8 345	4 017	835		4 853	2 437	15 635				
1996	574	1 547	1 051		3 172	2 667	2 042	92	395		5 195	8 367	4 144	889		5 033	3 474	16 875				
1997	767	1 766	1 323		3 856	4 357	2 960	93	405		7 814	11 670	4 063	859		4 922	3 610	20 202				
1998	610	2 472	821		3 903	3 167	2 955	58	246		6 426	10 329	3 916	826		4 742	2 731	17 802				
1999	591	1 699	744		3 033	2 826	2 240	58	324		5 448	8 482	4 201	867		5 067	4 040	17 589				
2000	824	2 365	1 557		4 746	4 197	3 218	91	600		8 106	12 852	4 832	919		5 751	8 886	27 489				
2001	840	2 830	1 421		5 090	5 248	3 745	118	458		9 569	14 659	5 307	1 003		6 309	9 795	30 763				
2002	658	1 966	767		3 390	4 770	2 995	67	522		8 353	11 743	5 442	1 099		6 541	6 085	24 368				
2003	639	2 154	1 304		4 097	6 891	3 993	80	441		11 404	15 500	5 643	1 237		6 880	7 758	30 138				
2004	632	2 785	1 212		4 629	8 376	4 846	142	543		13 907	18 535	5 907	1 336		7 244	8 790	34 569				

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018

Alberta

	EXPLORATION**										DEVELOPMENT**										CAPITAL EXPENDITURES										OPERATING				ROYALTIES*				TOTAL		
	Geological & Geophysical				Drilling		Land		Other		Total	Drilling	Field equipment	EOR	Plants	Other	Total	Wells & flow lines etc				Plants	Other	Total	10 098	8 071	39 404	11 001	10 667	43 142											
	2005	782	4 000	1 964		6 746	11 513	5 809	157	692		18 170		24 916		6 729	1 540		8 269	11 796	44 982	2006	822	4 124	1 766		6 712	12 703	6 728	191	830		20 452		27 164		7 532	1 768		9 300	9 198
2005																																									
2006																																									
2007																																									
2008																																									
2009																																									
2010																																									
2011																																									
2012																																									
2013																																									
2014																																									
2015																																									
2016																																									
2017																																									
2018																																									
Total	21 991	74 190	47 237	221	143 639	209 252	128 564	6 922	21 887	1 085	367 710		511 348		242 310	49 942	1 373	293 625	201 487	1 006 461																					

* Net of incentive credits. ** Before PIP grants.

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

Excludes oil sands, see Table 4.14

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018
 Saskatchewan

EXPLORATION	DEVELOPMENT					CAPITAL EXPENDITURES OPERATING					ROYALTIES*		TOTAL			
	Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	
1947	0	1	0	0	1	1	0			1	1	3	0	0	0	3
1948	1	1	0	0	1	1	0			1	2	0	0	0	0	2
1949	1	1	2	1	4	1	0			1	5	0	0	0	0	5
1950	4	2	2	1	8	1	0			1	10	1	1	1	1	10
1951	5	4	3	1	13	3	0			4	17	1	1	0	0	17
1952	9	13	9	1	31	9	3			0	12	43	1	1	0	44
1953	7	11	11	3	31	9	3	0		0	12	43	3	3	0	46
1954	8	10	11	2	30	7	2	0		1	10	40	4	4	1	45
1955	7	11	9	4	30	14	6	0		1	20	50	5	5	2	57
1956	7	16	17	4	44	25	8	1		1	35	78	9	9	3	90
1957	7	10	21	5	43	34	11	1	2	2	49	92	14	14	7	113
1958	8	7	14	5	33	17	7	1	12	1	37	70	15	0	15	94
1959	4	6	11	3	23	11	6	1	1	0	19	42	16	1	17	69
1960	2	3	6	3	13	11	5	1	0	1	17	30	16	1	17	58
1961	2	3	9	3	17	16	6	3	0	1	25	42	18	1	22	79
1962	3	5	0	13	20	14	6	5	1	1	26	46	20	1	24	88
1963	3	8	1	16	28	21	9	9	1	5	44	72	26	1	4	125
1964	2	12	15	2	31	25	12	5	0	2	43	74	27	1	31	130
1965	6	10	27		44	26	19	5	2	1	51	95	34	1	38	159
1966	6	9	18		34	23	13	6	1	3	46	79	41	2	46	154
1967	12	14	19		45	15	8	4	1	2	30	75	39	1	44	146
1968	11	13	19		43	12	8	5	2	1	27	70	37	2	41	138
1969	6	10	16		32	16	12	4	2	1	35	67	40	3	47	138
1970	3	6	12		21	10	15	4	1	1	29	50	45	2	51	127
1971	3	5	12		19	8	16	4	2	1	30	49	42	2	46	121
1972	3	5	13		21	9	9	3	0	0	21	42	41	2	48	117
1973	3	6	14		23	12	10	2	1	1	25	48	49	2	54	136
1974	1	6	14		21	7	12	2	1	3	24	44	68	2	73	296
1975	3	7	10		20	19	8	1	1	1	31	51	74	3	2	315
1976	4	10	20		34	10	9	1	0	1	21	55	79	2	83	308
1977	6	18	26		50	21	13	2	2	1	40	90	86	3	1	397
1978	13	20	53		86	48	22	4	2	2	79	165	106	3	111	272
1979	23	40	65		129	83	40	12	2	4	140	269	143	3	149	750
1980	31	61	91		182	97	64	26	0	8	195	378	184	3	190	937
1981	25	42	45		113	60	66	10	1	2	138	251	199	4	1	323
1982	22	35	43		100	72	56	19	2		149	249	235	7	242	925
1983	41	67	117		225	144	87	19	2	0	252	478	307	10	317	1366
1984	42	100	133		275	242	130	39	7	7	425	699	431	19	450	1764
1985	72	131	156		358	324	165	66	16	8	579	937	494	21	515	651
1986	35	53	27		115	142	77	28	9		256	371	466	16	482	1155
1987	37	51	68		155	114	83	22	4		223	378	437	18	456	1209
1988	38	66	47		171	191	138	21	25		375	546	463	23	486	1277
1989	30	43	55		128	138	126	13	12		288	416	454	25	480	1164
1990	35	57	53		145	155	153	24	14		345	490	510	25	535	1385
1991	27	41	35		102	146	145	9	13		313	414	532	22	554	1281
1992	18	28	25		72	107	110	8	11		236	308	543	28	571	1182
1993	47	78	112		236	335	135	22	20		512	748	548	24	572	1648
1994	60	114	233		407	445	289	13	24		771	1 178	568	19	587	2170
1995	78	113	98		289	531	223	44	9		807	1 096	589	19	608	2183
1996	125	153	167		445	655	354	46	27		1 082	1 526	732	19	751	642
1997	137	320	198		655	1 183	709	52	27		1 971	2 626	815	18	834	650
1998	85	140	74		299	548	354	13	13		927	1 226	826	15	841	3439
1999	60	121	63		244	452	325	15	7		799	1 043	817	14	831	613
2000	73	198	75		346	838	471	55	7		1 371	1 717	945	16	961	1117
2001	60	174	91		324	863	413	36	24		1 337	1 661	1 149	19	1 168	938
2002	35	143	159		336	759	330	16	22		1 127	1 463	1 214	43	1 257	3565
2003	66	289	203		558	871	472	32	31		1 405	1 963	1 349	55	1 404	1122
2004	47	300	91		438	1 010	471	36	28		1 544	1 982	1 377	60	1 437	1222
2005	48	315	149		512	1 235	542	39	29		1 844	2 356	1 593	68	1 660	1 474
2006	66	387	188		641	1 435	680	58	37		2 210	2 851	1 718	76	1 794	1 578
2007	59	408	296		763	1 566	726	57	15		2 364	3 127	1 813	85	1 898	1 434
2008	76	683	1 253		2 012	1 813	762	160	18		2 753	4 765	1 731	107	1 838	2 390
2009	48	339	163		550	1 379	644	153	31		2 207	2 757	1 769	93	1 863	1 468
2010	75	321	626		1 023	2 357	904	180	0		3 441	4 463	1 949	100	2 050	1 827
2011	78	324	360		762	3 059	1 197	123	1		4 380	5 142	2 106	103	2 209	1 933
															9 284	

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018
 Saskatchewan

EXPLORATION				DEVELOPMENT				CAPITAL EXPENDITURES				OPERATING		ROYALTIES*		TOTAL		
	Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total			
2012	26	387	155		569	2 919	1 219	161	3		4 303	4 872	2 219	91	2 309	1 937	9 118	
2013	92	436	117		646	3 271	1 330	304	2		4 908	5 554	2 713	80	2 794	2 129	10 477	
2014	88	416	252		756	3 741	1 818	304	42		5 906	6 661	3 264	164	3 427	2 212	12 301	
2015	40	26	87		153	2 542	1 468	198	48		4 256	4 409	2 597	122	2 719	971	8 099	
2016	46	23	108		177	1 561	934	133	22		2 650	2 827	2 588	62	2 651	766	6 243	
2017	19	69	125		214	2 438	1 468	73	35		4 014	4 228	2 942	313	3 255	1 018	8 501	
2018	37	174	509		719	2 443	1 310	48	17		3 817	4 536	2 642	191	2 832	1 018	8 386	
Total	2 300	7 547	7 320	65	17 231	42 716	21 244	2 753	691	61	67 464	84 696	48 925	2 237	58	51 219	37 746	173 661

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits.

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018

British Columbia													ROYALTIES*			TOTAL		
EXPLORATION				DEVELOPMENT				CAPITAL EXPENDITURES			OPERATING			ROYALTIES*			TOTAL	
	Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total			
1948		1	0		1				-		1			-		1		
1949	0	0	0		1				-		1			-		1		
1950	1	1	1		2				-		2			-		2		
1951	1	2	2	0	5	0			0	0	5			-		5		
1952	3	3	2	0	8	0			0	1	8			-		8		
1953	4	5	3	1	12	1	0		0	1	13			1	1	13		
1954	6	3	2	1	12	1	0		0	1	13			0	0	14		
1955	7	6	4	2	20	0			1	1	20			0	0	20		
1956	8	9	5	3	24	2	0		0	3	27			0	0	27		
1957	7	10	5	3	25	2	1		24	7	34	59		0	0	59		
1958	7	11	9	4	31	2	1		0	3	34	34		3	3	37		
1959	9	12	16	5	42	4	3		0	1	49	1	0	1	1	51		
1960	9	18	13	7	47	5	2		1	7	54	1	0	1	1	56		
1961	10	14	14	4	41	11	3		1	1	15	56	2	1	4	61		
1962	8	15	17	4	43	18	4	1	0	1	24	66	4	2	9	80		
1963	9	14	15	4	42	8	4	2	0	0	14	55	5	2	3	71		
1964	8	11	22	3	43	7	5	3	14	2	30	73	5	2	1	85		
1965	5	10	27		41	11	5	1	1	1	19	61	5	2	3	76		
1966	7	17	26		50	9	5	2	11	1	28	78	7	3	1	97		
1967	18	14	25		57	14	8	2	18	1	43	101	8	3	3	124		
1968	15	15	26		56	11	6	2	2		22	78	7	3	2	101		
1969	13	15	33		61	11	7	1	2	1	21	82	10	4	2	111		
1970	15	13	26		54	14	11	1	8	0	34	88	13	4	1	119		
1971	18	16	32		65	9	12	2	28	1	51	117	14	4	2	153		
1972	17	28	30		75	9	6	2	7	0	24	100	15	5	2	138		
1973	18	36	28		82	8	7	1	1	0	17	99	17	5	2	144		
1974	18	34	37		88	13	8	0	10	1	32	120	21	7	2	201		
1975	9	19	30		58	9	8	0	13	1	32	90	28	9	3	178		
1976	23	34	59		116	30	23	0	7	6	66	182	30	9	3	270		
1977	41	60	142		243	49	16	0	6	1	73	316	29	11	4	403		
1978	65	113	197		375	66	54	0	41	1	163	538	37	9	3	630		
1979	82	172	213		467	107	47	1	74	2	229	697	55	15	3	817		
1980	116	298	212		626	90	75	4	34	18	221	847	82	28	3	1024		
1981	64	188	88		340	61	40	1	21	1	123	464	93	15	2	633		
1982	36	99	48		183	40	29	0	21		89	273	100	17	117	468		
1983	34	57	66		157	26	17	0	8		51	208	95	18	113	417		
1984	35	101	114		250	33	16	0	25	2	75	325	123	32	155	585		
1985	54	120	142		316	61	31	13	52	4	161	477	151	34	185	799		
1986	29	103	68		199	59	34	14	15		123	322	123	31	154	602		
1987	29	60	86		176	73	55	1	18		147	322	116	35	151	593		
1988	62	110	140		312	93	61	4	16		174	486	132	40	171	755		
1989	83	155	127		365	98	108	2	50		258	623	182	52	235	970		
1990	136	188	168		491	108	140	2	55		304	796	211	69	280	1194		
1991	126	263	99		489	87	103	3	61		253	742	237	76	313	124		
1992	77	128	71		277	56	92	1	28		177	454	215	80	296	880		
1993	121	154	172		447	135	121	..	100		356	803	235	100	335	1301		
1994	130	340	240		711	271	272	0	301		844	1555	307	101	408	2166		
1995	113	275	165		553	242	221	1	78		542	1095	302	107	409	1680		
1996	74	313	163		550	292	207	6	75		579	1130	326	119	445	200		
1997	86	338	256		680	333	286	5	269		892	1572	397	120	517	2346		
1998	70	394	137		601	308	296	7	80		690	1292	444	143	587	2121		
1999	51	281	218		550	280	207	5	68		559	1109	449	140	590	2070		
2000	124	360	293		777	544	375	10	83		1012	1789	558	164	722	3515		
2001	149	511	489		1148	1117	665	5	195		1982	3130	607	155	762	1246		
2002	178	389	335		902	783	525	5	205		1518	2420	778	178	956	4281		
2003	200	640	689		1530	1388	662	0	206		2257	3787	784	220	1004	6204		
2004	239	640	290		1170	1702	849	0	177		2728	3897	871	247	1118	5233		
2005	237	542	599		1378	2444	972	3	137		3555	4934	992	275	1267	1967		
2006	280	916	700		1896	2721	1321	10	146		4198	6094	1136	331	1467	1444		
2007	186	957	1109		2252	2012	1113	8	117		3250	5502	1153	351	1504	2621		
2008	181	1133	2728		4042	2403	1315	10	110		3837	7880	1193	375	1568	1370		
2009	123	995	953		2071	1908	1012	-	182		3102	5173	1236	490	1726	5399		
2010	172	1067	904		2143	3037	1546	3	343		4930	7073	1310	577	1887	466		
2011	126	1041	289		1456	3474	1604	16	132		5226	6682	1358	428	1786	444		
2012	34	613	202		849	2695	1398	1	294		4388	5237	1608	326	1934	238		
2013	97	822	289		1209	2377	1600	8	548		4534	5743	1906	339	2245	385		
2014	88	716	456		1260	3531	1898	3	620		6052	7311	2199	364	2563	741		
2015	68	366	81		516	2645	1344	3	437		4428	4944	2024	258	2282	225		
2016	38	253	52		343	1291	757	66	252		2366	2709	2161	461	2622	171		

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1947-2018

British Columbia											Exploration				Development				Capital Expenditures				Operating				Royalties*		Total	
	Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	Gas Plants	Other	Total	2524	234	6 769									
2017	38	157	47		242	2 024	1 300	16	429		3 769	4 011	2 105	419	2 524															
2018	17	209	197		423	1 235	1 893	58	275		3 461	3 884	3 164	587	3 751															
Total	4 559	17 023	14 541	41	36 164	42 505	24 802	316	6 531	52	74 206	110 369	31 777	7 998	51	39 826	19 220	169 415	39 826	19 220	169 415									

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits.

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
Million dollars
1951-2018

Territories	EXPLORATION**										DEVELOPMENT**										EXPENDITURES				OPERATING				ROYALTIES*				TOTAL	
	Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total			
1951					1							1																		1				
1952	1										1																			1				
1953	2										2																			2				
1954	1										2																			2				
1955	1										1																			2				
1956	2										2																			3				
1957	1	2	1	1	4																									5				
1958	3	1	1	1	5																									6				
1959	5	2	8	2	17																									17				
1960	6	5	3	1	15																									16				
1961	9	4	2	1	16																									17				
1962	6	5	1	1	13																									14				
1963	7	7	1	1	15																									17				
1964	9	9	1	1	20																									21				
1965	8	13	2		23																									23				
1966	6	11	8		24																									25				
1967	11	7	5		23																									24				
1968	24	9	6		39	3																								45				
1969	38	33	6		77	6																								87				
1970	58	45	4		107	1	1																							115				
1971	80	81	4		165	1	4																							175				
1972	84	135	6		225	2	5																							248				
1973	92	159	5		256	6	1																							274				
1974	87	192	5		283	9	2																							303				
1975	102	165	4		272	4	1																							291				
1976	82	201	3		286	11																								317				
1977	56	278	4		338	7	8																							369				
1978	42	374	5		421	22	6																							488				
1979	30	374	6		410	15	7	15																						468				
1980	42	407	7		456	38	55	12																						618				
1981	57	683	8		747	16	52	2																						848				
1982	68	788	2		858	104	82	57																						1 121				
1983	75	902			977	50	123	51																						1 220				
1984	99	933	4		1 036	30	49	28																						1 166				
1985	104	770			874	25	32	3																						983				
1986	42	486	2		530	17	5	1	1																					596				
1987	30	165			195	27	28	2																						307				
1988	62	201	1		264	12	21	1																						355				
1989	71	232	1		304	1	4																							394				
1990	42	57	2		101																									216				
1991	23	38	1		62	9	12																							187				
1992	15	8	1		24	7	8																							122				
1993	11	3	1		14	1	6																							77				
1994	1		1		3	8	7	12																						88				
1995	9		11		20	12	6	1																						93				
1996	21	11			32	16	20																							118				
1997	8	24			33	11	22																							108				
1998	7	44	1		51	12	17																							125				
1999	24	108			132	3	21																							212				
2000	52	58	56		165	46	110																							385				
2001	202	106	3		311	18	26																							445				
2002	161	101	3		264	9	25																							412				
2003	37	113	1		150	35	55																							370				
2004	40	139	17		197	34	81																							428				
2005	34	193	26		253	55	194																							594				

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
Million dollars
1951-2018

Territories	EXPLORATION**												DEVELOPMENT**				EXPENDITURES				OPERATING			ROYALTIES*		TOTAL						
	Geological & Geophysical			Drilling			Land		Other		Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines etc	Gas Plants	Other	Total	Gas Plants	Other	Total	Gas Plants	Other						
	2006	75	148				223	36	131		172	395	57	5		62	33	490	2006	75	133	1	208	59	56	1	115	323	56	3	59	34
2007	75	133					208	59	56		115	323	56	3		59																
2008	158	231	22				411	37	15	1	53	463	81			82																
2009	97	81	4				182	42	8	1	51	233	76			76																
2010	53	60	1				114	116	30		147	261	73	2		74																
2011	32	39	7				78	19	27		46	124	72	3		75																
2012	63	6	9				78	6	12		18	96	79	3		82																
2013	66	58	14				138	3	8		11	149	98	3		101																
2014	na	na	na				na	na	na		na	75	na	-		na																
2015	na	na	na				na	na	na		na	79	na	na		na																
2016	na	na	na				na	na	na		na	46	na	na		na																
2017	na	na	na				na	na	na		na	7	na	na		na																
2018	na	na	1				na	35			na	65	86	na		na																
Total																15 640										18 622						

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits. ** Before PIP grants

"na" due to Statistics Canada data suppression

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1951-2018

Manitoba

Geological & Geophysical	EXPLORATION				DEVELOPMENT				CARTERIAL EXPENDITURE S				OPERATING Wells & flow				ROYALTIES*		TOTAL		
	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	lines	Gas Plants	Other	Total	-	-	9				
1951	2	1	5	9	0	2	1	0	0	0	9	9	0	0	0	0	0	17	17		
1952	1	2	11	14	2	3	0	0	0	2	17	0	1	1	1	0	0	10	10		
1953	1	1	4	6	3	0	0	0	0	3	9	1	1	1	1	0	0	25	25		
1954	1	1	10	12	9	2	0	0	0	11	23	1	1	1	1	1	1	21	21		
1955	1	1	6	9	11	2	1	0	0	13	23	3	0	3	3	0	3	22	22		
1956	1	1	3	6	8	2	0	0	0	10	16	3	0	3	3	0	3	21	21		
1957	1	1	3	6	5	1	0	0	0	7	13	4	0	4	4	0	4	19	19		
1958	1	0	2	4	2	1	0	0	0	3	7	4	0	4	4	0	4	13	13		
1959	1	1	2	4	1	0	0	0	0	2	5	4	0	4	4	0	4	10	10		
1960	0	0	2	3	2	0	0	0	0	2	5	3	0	3	3	0	3	1	1	10	
1961	1	0	1	3	0	0	0	0	0	1	3	4	0	4	4	0	4	2	2	9	
1962	0	0	2	2	0	1	0	0	0	1	3	3	0	3	3	0	3	1	1	7	
1963	0	1	2	0	2	1	0	0	0	0	2	4	0	3	3	0	3	1	1	8	
1964	0	0	2	0	2	2	0	0	0	3	5	3	0	3	3	0	3	1	1	9	
1965	0	1	1	2	1	0	0	0	0	1	3	3	0	3	3	0	3	2	2	7	
1966	0	1	2	3	1	0	0	0	0	1	4	3	0	3	3	0	3	2	2	9	
1967	1	1	1	2	1	0	0	0	0	1	3	3	0	3	3	0	3	2	2	8	
1968	1	1	1	3	1	0	0	0	0	1	4	3	0	3	3	0	3	2	2	9	
1969	0	1	2	3	1	0	0	0	0	1	4	3	0	3	3	0	3	2	2	9	
1970	0	0	1	2	0	0	0	0	0	0	2	3	0	3	3	0	3	2	2	7	
1971	0	0	0	1	0	0	0	0	0	1	1	3	0	3	3	0	3	2	2	6	
1972	0	0	0	1	0	0	0	0	0	1	2	3	0	3	3	0	3	2	2	6	
1973	0	0	0	1	0	0	0	0	0	0	1	3	0	3	3	0	3	2	2	6	
1974	0	1	1	1	0	0	0	0	0	1	2	6	0	6	6	0	6	5	13		
1975	0	0	0	1	0	0	0	0	0	1	1	7	0	7	6	0	7	6	14		
1976	0	1	1	1	0	0	0	0	0	1	2	7	0	7	6	0	7	6	15		
1977	1	0	1	2	1	0	0	0	0	1	3	8	0	8	7	0	8	7	19		
1978	3	1	5	9	1	0	0	0	0	2	11	5	0	5	5	0	5	12	28		
1979	3	1	3	7	2	0	0	0	0	2	9	7	0	7	7	0	7	16	31		
1980	3	2	3	8	3	1	0	0	0	4	12	9	0	9	9	0	9	17	38		
1981	4	8	3	14	9	3	0	0	0	12	26	10	0	0	11	19	19	55			
1982	3	13	3	19	15	8	0	0	0	24	43	13	0	13	26	0	13	26	83		
1983	4	12	5	22	24	16	3	0	0	43	65	16	0	16	36	0	16	36	117		
1984	7	8	6	21	27	12	1	1	0	41	62	21	1	22	38	1	22	43	122		
1985	3	14	8	26	25	12	0	0	0	38	63	22	0	22	43	0	22	43	129		
1986	2	8	3	12	13	8	0	0	0	21	33	18	0	18	21	0	18	21	72		
1987	3	8	4	15	12	3	0	0	0	15	30	21	0	21	23	0	21	23	75		
1988	3	4	2	9	9	6	0	0	0	16	25	23	0	23	17	0	23	17	64		
1989	1	1	1	3	7	3	0	0	0	11	14	21	0	21	19	0	21	19	54		
1990	0	2	1	4	14	5	0	0	0	19	23	29	0	29	23	0	29	23	76		
1991	1	0	1	1	11	5	0	0	0	16	17	26	0	26	18	0	26	18	61		
1992	4	2	2	8	5	3	0	0	0	8	16	22	0	22	17	0	22	17	54		
1993	0	4	1	6	17	4	0	0	0	21	27	23	0	23	15	0	23	15	64		
1994	2	3	3	8	20	9	0	0	0	29	37	22	0	22	15	0	22	15	73		
1995	2	4	8	14	9	4	0	0	0	13	27	24	0	24	16	0	24	16	66		
1996	2	5	5	13	9	2	0	0	0	11	24	21	0	21	19	0	21	19	64		
1997	8	6	8	22	14	4	0	0	0	18	40	22	0	22	16	0	22	16	78		
1998	3	3	3	8	11	3	0	0	0	14	22	23	0	23	10	0	23	10	54		
1999	3	3	2	7	8	7	0	0	0	15	22	19	0	19	15	0	19	15	56		
2000	4	4	1	9	15	9	0	0	0	24	33	24	0	24	25	0	24	25	82		
2001	2	5	2	8	31	10	0	0	0	41	48	24	0	24	24	0	24	24	97		
2002	1	8	1	9	41	16	0	0	0	57	66	25	0	25	22	0	25	22	113		
2003	1	16	1	17	38	13	0	0	0	52	69	27	0	27	23	0	27	23	119		
2004	2	14	2	18	49	15	0	0	0	65	82	27	0	27	27	0	27	27	136		
2005	8	27	6	41	106	21	0	0	0	127	168	33	0	33	42	0	33	42	243		
2006	5	51	3	59	186	37	0	0	0	223	282	46	0	46	69	0	46	69	397		
2007	8	25	1	35	158	39	0	0	0	198	232	51	0	51	86	0	51	86	369		
2008	14	36	18	67	161	34	0	0	0	195	263	61	0	61	107	0	61	107	431		
2009	7	24	7	38	209	39	0	0	0	249	287	65	0	65	100	0	65	100	452		
2010	15	94	15	124	529	180	18	0	0	727	851	107	0	107	124	0	107	124	1 082		
2011	8	50	16	75	593	203	11	0	0	806	881	178	0	178	246	0	178	246	1 304		
2012	23	62	15	100	671	238	14	8	0	931	1 031	206	4	210	231	1 473					
2013	11	34	5	50	588	184	13	-	0	786	836	238	-	238	231	0	238	231	1 305		
2014	9	22	5	37	547	199	44	-	0	791	828	271	5	276	210	0	276	210	1 314		
2015	4	18	3	25	209	117	101	0	0	427	452	252	2	254	124	0	254	124	830		
2016	3	7	13	23	98	108	18	(0)	0	224	247	156	2	158	91	0	158	91	496		
2017	4	6	16	26	181	103	25	0	0	309	336	182	2	184	177	0	184	177	697		
2018	4	4	7	15	332	67	na	na	0	399	414	141	-	141	207	0	141	207	795		
Total	208	635	282	1 131	5 058	1 765	250	13	3	7 089	8 221	2 619	17	3	2 639	2 670	3	2 639	2 670	13 562	

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits.

Ontario

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
Million dollars
1968-2018

	EXPLORATION				DEVELOPMENT				CAPITAL EXPENDITURES				OPERATING				ROYALTIES*		TOTAL
	Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines	Gas Plants	Other	Total	Gas Plants	Other	Total	
1968	2	2	2		6	1	1	0	0	0	2	8	2	0	0	2	1	11	
1969	1	3	1		4	1	1	-	2	0	4	8	2	0	0	3	0	11	
1970	1	1	1		3	0	1	-	9	0	11	14	2	3	0	5	1	19	
1971	1	3	1		5	2	2	0	7	0	10	15	2	2	1	5	1	20	
1972	2	4	1		7	1	8	-	8	0	17	24	2	3	0	5	1	30	
1973	2	3	1		5	2	8	-	2	0	12	18	2	3	1	6	1	24	
1974	2	5	2		9	3	1	0	2	0	6	14	2	4	0	6	1	21	
1975	2	4	2		8	3	1	0	9	1	14	22	2	3	-	5	1	28	
1976	3	6	4		12	5	1	-	0	0	6	18	3	2	-	5	1	24	
1977	7	5	4		16	9	3	0	1	2	15	31	4	3	1	8	1	40	
1978	7	10	10		27	10	4	-	5	1	18	46	4	4	1	9	2	56	
1979	5	10	3		18	13	4	-	19	0	36	54	5	17	2	23	3	80	
1980	8	17	5		30	18	8	-	36	0	63	92	5	19	1	25	3	120	
1981	2	10	4		16	19	-	-	14	7	40	56	6	17	0	23	4	83	
1982	1	12	3		16	21	6	-	6	-	33	49	6	12	-	18	6	72	
1983	1	15	5		21	22	2	1	3	0	29	50	13	29	-	42	8	99	
1984	1	21	2		24	21	5	1	2	1	29	53	13	28	-	40	13	106	
1985	2	21	3		26	20	3	0	6	0	30	56	14	26	-	40	11	107	
1986	2	15	2		19	7	5	1	11	-	23	42	14	29	-	43	10	95	
1987	1	9	3		13	9	6	0	4	-	19	33	14	29	-	43	9	84	
1988	5	24	3		31	16	7	-	6	-	29	61	15	29	-	43	8	113	
1989	2	24	3		29	12	3	-	1	-	16	44	13	39	-	53	10	107	
1990	4	17	4		25	11	6	-	42	-	59	84	14	31	-	45	11	140	
1991	4	25	3		32	11	7	-	0	-	18	50	18	31	-	49	8	106	
1992	2	19	5		26	11	4	-	4	-	20	46	16	36	-	52	7	105	
1993	2	23	4		29	21	6	-	38	-	64	93	15	34	-	48	5	146	
1994	0	18	1		19	18	12	-	7	-	37	56	15	33	-	48	6	110	
1995	1	17	1		18	12	11	-	3	-	25	43	15	32	-	47	7	97	
1996	1	9	2		12	15	4	-	3	-	22	33	18	28	-	46	7	86	
1997	1	12	2		14	10	3	-	1	-	14	28	22	29	-	51	10	89	
1998	0	17	1		18	16	1	-	1	-	18	36	23	29	-	52	7	94	
1999	0	17	0		18	16	4	-	1	-	21	39	16	35	-	51	6	95	
2000	2	34	3		39	32	12	-	-	-	44	83	17	34	-	50	15	148	
2001	3	28	3		34	38	8	0	-	-	46	80	15	30	-	45	12	137	
2002	2	12	2		17	26	12	0	-	-	38	55	14	27	-	42	13	110	
2003	2	19	3		23	22	9	-	0	-	31	54	16	28	-	44	20	118	
2004	2	18	3		23	29	10	0	-	-	38	61	15	27	-	42	19	123	
2005	2	9	1		12	13	12	0	-	-	25	37	15	28	-	43	19	99	
2006	2	36	1		39	26	10	-	-	-	36	75	15	27	-	42	16	133	
2007	0	12	2		14	8	3	-	-	-	10	24	15	25	-	40	15	79	
2008	0	4	1		6	6	3	-	6	-	15	21	14	27	-	41	16	78	
2009	0	3	1		4	4	2	-	1	-	6	10	13	27	-	41	8	59	
2010	0	15	1		17	26	2	-	1	-	29	45	14	30	-	44	9	99	
2011	1	15	0		16	22	4	0	-	-	26	42	7	28	-	35	12	88	
2012	0	0	-		0	2	0	0	-	-	3	3	3	28	-	30	9	42	
2013	0	0	-		0	1	0	0	-	-	1	2	3	20	-	23	10	35	
2014	-	0	-		0	5	0	-	-	-	5	5	na	na	-	55	8	68	
2015	-	-	-		-	-	na	-	-	-	na	0	na	na	-	25	6	32	
2016	-	-	-		-	1	na	-	-	-	na	1	na	na	-	10	5	16	
2017	-	-	-		-	-	na	-	-	-	na	1	na	na	-	na	21		
2018	-	-	-		-	-	0	-	-	-	na	0	7	2	-	9	2	12	
Total	90	602	107	-	799	613	5	261	14		1 914	8	1 599	383		3 918			

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits.

"na" due to Statistics Canada data suppression

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
Million dollars
1969-2018

Quebec	EXPLORATION										DEVELOPMENT					CAPITAL EXPENDITURES			OPERATING			ROYALTIES*		TOTAL
	Geophysical	Drilling	Land	Other	Total	Drilling	Equipment	EOR	Gas Plants	Other	Total	3	5	11	11	7	8	9	9	11	7	8	9	11
1969	1	1			3																			3
1970	3	1	1		5																			5
1971	8	3	1		11																			11
1972	4	6	1		11																			11
1973	1	2	1		3																			3
1974		4			4																			4
1975	1	3			4																			4
1976	2	2			4																			4
1977	1	5	2		7																			7
1978	1	6			8																			8
1979	1	8			9																			9
1980	2	6			9																			9
1981	2	6			9																			9
1982	7	4	1		11																			11
1983	1	1			2																			2
1984	1				1																			1
1985		1			1	1											1		2					2
1986	1				1														1					2
1987	1				1														1					1
1988		1			1														1					1
1989	1				1														1					1
1990					1														1					1
1991	3	4			8														8					8
1992	2	7			8														8					8
1993	1	6			7														7					7
1994					1														1					1
1995																								
1996																								
1997	2				2														2					2
1998	5	5			10													10					10	
1999		6			7													7					7	
2000																								
2001																								
2002		3			3														3					3
2003	10	5	1		16													16					16	
2004	1	2			3													3					3	
2005	3	7			10													10					10	
2006	4	11			16	8											8	24					24	
2007	7	14			21	6	5										11	32					32	
2008	16	34	23		73	9	1										10	83					83	
2009	7	33			40	1											1	41					41	
2010	7	24	1		31	8	2										10	41					41	
2011	5	5			10	3											3	13					13	
2012	8	22	1		31													31					31	
2013	3	18	1		23													23					23	
2014	3	na	na	na	na	na											na	22					22	
2015	na	na	na	na	na	na	na										na	9	na	na	na	na	9	
2016	na	na	na	na	na	na	na										na	11	na	na	na	na	11	
2017	na	na	na	na	na	na	na										na	na	na	na	na	na	6	
2018	na	1	na	na	na	na											na	na	na	na	na	na	3	
Total																			1					522

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits.

"na" due to Statistics Canada data suppression

Quebec

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
Million dollars
1969-2017

	EXPLORATION										DEVELOPMENT					CAPITAL EXPENDITURES			OPERATING			TIES*		<u>TOTAL</u>
	Geophysical	Drilling	Land	Other	Total	Drilling	Equipment	EOR	Gas Plants	Other	Total	Lines	Gas Plants	Other	Total									
2011	5	5			10	3		..		3		13									13			
2012	8	22	1		31			..				31									31			
2013	3	18	1		23							23									23			
2014	3	na	na		na		na			na		22									22			
2015	na	na	na		na	na	na			na		9	na	na		na	na				9			
2016	na	na	na		na	na	na			na		11	na	na		na	na				11			
2017	na	na	na		na	na	na			na		na	na	na		na	na				6			
Total												511								1	519			

NOTE: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

* Net of incentive credits.

"na" due to Statistics Canada data suppression

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1969-2018

Atlantic Provinces

	EXPLORATION						DEVELOPMENT			CAPITAL EXPENDITURES			OPERATING			ROYALTIES*		TOTAL
	Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines	Gas Plants	Other	Total	ROYALTIES*		
1969			1		1							2					2	
1970	1	1			2							2					2	
1971					1							1					1	
1972	1	2	1		4							4					4	
1973	1	4			5							5					5	
1974	2				2							2					2	
1975	1	4			6							6					6	
1976					1							1					1	
1977	1		1		2							2		1		1	3	
1978	1		1		2							3					3	
1979	2	4	1		7							7					7	
1980	4		2		6							6					6	
1981	6	3			9							9					9	
1982	6	6			12							12					12	
1983	7	1			9							9					9	
1984	4	2			7							7					7	
1985	1	6			7							7					7	
1986	1	3			4							4					4	
1987					1		1					1		2			2	
1988		1			1							2					2	
1989																		
1990																		
1991																		
1992			1		1							1					1	
1993																		
1994	3	6			9							9					9	
1995	10	18	1		28							29					29	
1996																		
1997																		
1998	1		..		1							1					1	
1999	1	12			13							13					13	
2000		15			15							15					15	
2001	3	33			36		1					37					37	
2002	1	10	..		10							10					10	
2003	2	5	..		7		2		3		4	11					12	
2004	3	8	1		12							12			1		13	
2005	4	15			20	4	17					40			1	1	42	
2006	10	17	2		29	29	45					103	1		1	1	104	
2007	2	35	1		38	58	46					141	4	5	9	6	157	
2008	4	39	1		45	68	8					121	10	14	24	2	147	
2009	6	16			22	19	4					44	13	4	17	3	64	

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1969-2018

Atlantic Provinces

	EXPLORATION				DEVELOPMENT				CAPITAL EXPENDITURES			OPERATING			ROYALTIES*		TOTAL	
	Geological & Geophysical		Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines	Gas Plants	Other	Total	ROYALTIES*	TOTAL
2010	4	39				43	8	5				13	56	9	3	12	1	69
2011	2	14				17	1	2				3	20	10	4	14	1	35
2012	1	2	1			3				1		1	4	7	4	11		15
2013	1	1	1			2	1					2	4	6	4	9	1	14
2014	na	na	na			na	na					na	31	na	na	na	na	68
2015	na	na	na			na	na					na	5	na	na	na	na	12
2016	na	na	na			na	na					na	8	na	na	na	na	16
2017	na	na				na	na					na	na	na	na	na	na	6
2018	na	na				na	na					na	na	na	na	na	na	na
Total						130				4	1							

* Net of incentive credits

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY (Discontinued: see 4.12 and 4.13)

Million dollars
1967-1994

Eastcoast Offshore

	EXPLORATION**												DEVELOPMENT**				OPERATING				ROYALTIES	
	Geological & Geophysical				Drilling				Field equipment				Gas Plants		Other	Total	Wells & flow lines	Gas Plants	Other	Total	*	TOTAL
	Geological	Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Wells & flow lines	Gas Plants	Other	Total	*	TOTAL	*	TOTAL		
1967	6.4	2.5	0.4	0.3	9.6						0.2	0.2				0.0		9.8				
1968	6.8	0.5	0.4	0.3	8.0							0.0				0.0		8.0				
1969	7.3	5.9	2.4	0.7	16.3							0.0				0.0		16.3				
1970	10.6	20.9	2.7	1.2	35.4							0.0				0.0		35.4				
1971	17.9	31.5	2.3		51.7			0.6			0.3	0.9				0.0		52.6				
1972	16.9	48.5	1.5		66.9		9.8	3.5			1.0	14.3				0.0		81.2				
1973	18.5	58.8	1.0		78.3		11.7	0.5			0.1	12.3				0.0		90.6				
1974	17.4	54.3	1.7		73.4							0.0				0.0		73.4				
1975	17.4	56.6	1.4		75.4							0.0				0.0		75.4				
1976	15.1	48.2	1.4		64.7							0.0				0.6	0.6	65.3				
1977	17.0	23.8	1.6		42.4						1.0	1.0				0.2	0.2	43.6				
1978	19.1	69.6	3.4		92.1						2.0	2.0				0.1	0.1	94.2				
1979	21.4	204.2	1.7		227.3			1.9			5.7	7.6	0.4			0.4	0.8	235.7				
1980	57.7	292.7	2.9		353.3			0.5			25.9	26.4	0.2			0.6	0.8	380.5				
1981	74.1	388.3	3.0		465.4			10.1				10.1	0.1				0.1	475.6				
1982	87.4	638.2	2.5		728.1			6.4				6.4					0.0	734.5				
1983	67.6	1 192.7			1 260.3			3.1				3.1					0.0	1 263.4				
1984	91.8	1 301.8			1 393.6						0.6	0.6					0.0	1 394.2				
1985	62.4	1 142.5			1 204.9							0.0					0.0	1 204.9				
1986	47.8	644.7	1.9		694.4							0.0					0.0	694.4				
1987	14.2	202.4	2.0		218.6		0.1					0.1					0.0	218.7				
1988	17.1	224.1	1.6		242.8			6.9				6.9					0.0	249.7				
1989	18.6	93.0			111.6		0.3	36.1				36.4					0.0	148.0				
1990	18.4	83.3	0.5		102.2			98.4				98.4					0.0	200.6				
1991	29.7	100.9	8.4		139.0			521.7				521.7	0.1				0.1	660.8				
1992	4.1	8.1	8.5		20.7		48.1	722.4				770.5	58.0				58.0	2.1	851.3			
1993	1.7	4.4			6.1		(1)	1 106.9				1 106.9	102.9				102.9	3.4	1 219.3			
1994			0.8		0.8		(1)	1 398.8				1 398.8	107.7				107.7	4.1	1 511.4			
Total	784.4	6 942.4	54.0	2.5	7 783.3		70.0	3 917.8	0.0	0.0	36.8	4 024.6	269.4	0.0	1.9	271.3	9.6	12 088.8				

* Net of incentive credits. ** Before PIP grants

Note: Effective 1995, Eastcoast split into Newfoundland & Nova Scotia Offshore. See Tables 12a & 13a.

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1995-2018

Offshore Newfoundland & Labrador										EXPLORATION**				DEVELOPMENT**				EXPENDITURES			OPERATING			ROYALTIES*		TOTAL
	Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Total	Wells & flow lines	Gas Plants	Other	Total	ROYALTIES*	TOTAL								
1995	17	7			23	(1)	1 359				1 359	1 382						1 382								
1996	15	37	1		52	(1)	846				846	898						898								
1997	53	44			97	55	764				819	916	18					934								
1998	54	40			94	107	771				878	972	181					1 157								
1999	44	218			262	256	871	84			1 211	1 473	177					1 662								
2000	62	110			172	383	597	20			1 000	1 172	167					1 384								
2001	54	52	11		117	365	544	31			940	1 057	158					1 246								
2002	58	125	14		196	275	620	39			933	1 129	320					1 514								
2003	62	168	4		234	442	666	17			1 125	1 359	376					1 849								
2004	42	3	11		56	599	531	52			1 182	1 237	351					1 797								
2005	90	59	16		165	614	561	35			1 210	1 375	425					2 209								
2006	100	395	1		495	639	140				779	1 274	719					2 397								
2007	63	149			212	532	140				672	883	565					2 672								
2008	50	61			111	560	503				1 063	1 174	706					4 273								
2009	18	69	12		99	591	424				1 015	1 114	583					3 553								
2010	15	364	4		382	239	256	..			496	878	653					3 723								
2011	30	207	1		238	504	685	30			1 219	1 457	774					5 477								
2012	53	425	2		480	482	1 342	52			1 876	2 356	868					5 664								
2013	41	569	14		623	639	2 577	21			3 237	3 860	874					7 185								
2014	101	126	25		252	1 392	3 554	37			4 983	5 235	938					8 143								
2015	720	638	1		1 359	883	3 145	1			4 029	5 388	736					6 696								
2016	238	690	15		943	790	3 812	68			4 670	5 613	959					7 424								
2017	243	221	12		476	789	1 943	1			2 734	3 210	848					4 957								
2018	265	366	5		636	1 233	814				2 047	2 683	1 450					5 107								
Total	2 485	5 133	154		7 772	12 367	27 466	489			40 322	48 094	12 844					22 365	83 303							

* Net of incentive credits. ** Before PIP grants

Note: Prior to 1995, Newfoundland & Nova Scotia Offshore combined into Eastcoast Offshore on Table 4.11

Note: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

(1) Development drilling & Field Equipment combined.

NET CASH EXPENDITURES OF THE PETROLEUM INDUSTRY
 Million dollars
 1995-2018

Offshore Nova Scotia											Onshore Nova Scotia										
EXPLORATION**				DEVELOPMENT**				EXPENDITURES				OPERATING				ROYALTIES*			TOTAL		
Geological & Geophysical	Drilling	Land	Other	Total	Drilling	Field equipment	EOR	Gas Plants	Other	Total	Total	lines	Gas Plants	Other	Total	107	4	118			
1995	1			1	3	3				6	7	107			102	1	1330				
1996	8			8	10	5				16	24	122			122	4	149				
1997	10			10	11	38				49	59	111			111	2	172				
1998	52	17		69	231	628		100		958	1 027	96			96	3	1 126				
1999	68	51	0	119	373	557		177		1 108	1 227	102			102						
2000	101	193	7	302	231	75		31		336	638	129	5		133	7	778				
2001	118	294	8	419	211	124		18		352	772	142	31		174	11	956				
2002	67	311	1	378	88	278		31		398	776	145	53		198	10	984				
2003	88	192	2	283	195	293		36		525	807	123	43		166	23	996				
2004	34	174	42	250	94	303		32		429	679	112	42		154	27	860				
2005	1	37	44	82	166	205		25		396	478	122	39		161	94	733				
2006	1	1	4	7	37	268		0		305	312	128	40		169	230	711				
2007	6	1	113	119	0	30		1		31	150	166	46		213	264	627				
2008	3	-	3	7	12	64		0		77	83	162	52		214	548	845				
2009	43	-	15	58	213	357		-		570	628	175	62		237	151	1 016				
2010	64	-	22	87	228	230		0		459	546	147	57		204	198	947				
2011	3	-	-	3	-	145		0		145	147	134	53		187	167	500				
2012	-	-	-	-	1	37	0	0		38	38	117	34		151	58	247				
2013	1	-	-	1	-	40	-	-		40	41	183	34		217	41	299				
2014	-	-	-	-	9	16	-	-		25	25	208	98		306	37	368				
2015	-	0	-	0	-	1	-	5		7	7	254	50		304	15	326				
2016	-	-	-	-	-	0	-	-		0	0	111	90		201	10	211				
2017	-	-	-	-	-	0	-	-		0	0	87	87		174	11	185				
2018	-	-	-	-	-	na	-	-		-	-	90	63		153	6	160				
Total	670	1 271	261	-	2 202	2 113	3 697	0	457	-	6 268	8 470	3 271	979	-	4 250	1 921	14 641			

* Net of incentive credits ** Before PIP grants

Note: Prior to 1995, Newfoundland & Nova Scotia Offshore combined into Eastcoast Offshore on Table 4.11a

Note: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

CANADA OIL SANDS EXPENDITURES

1958 - 2018

Million Dollars

	Capital Expenditures			Operating Costs			Royalties		Total			
	In-situ	Mining	Upgraders	In-situ	Mining	Upgraders	In-situ	Mining	Capital	Operating	Royalties	Total
1958									1			1
1959									1			1
1960									1			1
1961									2			2
1962									25			25
1963									41			41
1964									80			80
1965									82			82
1966									132			132
1967									73		0	73
1968									39	10	1	49
1969									17	37	2	56
1970									25	36	1	63
1971									27	47	2	75
1972									14	49	4	66
1973									28	61	8	96
1974									102	77	21	200
1975									443	91	25	558
1976									623	145	32	799
1977									550	251	53	854
1978									400	550	60	1 010
1979									245	540	56	841
1980									431	771	248	1 450
1981									541	756	238	1 535
1982									386	1 052	274	1 711
1983									423	1 048	396	1 867
1984									510	1 064	179	1 754
1985									1 132	1 226	221	2 578
1986									613	1 208	12	1 833
1987									540	1 147	23	1 709
1988									864	1 483	19	2 366
1989									422	1 515	28	1 965
1990									731	1 539	47	2 317
1991									1 091	1 554	27	2 672
1992									639	1 579	46	2 265
1993									341	1 575	83	1 999
1994									273	1 679	185	2 137
1995									572	1 681	298	2 551
1996									1 286	1 888	518	3 693
1997	1 062	847	6	418	1 208	38	63	207	1 915	1 665	270	3 849
1998	642	883	18	434	1 125	96	32	35	1 543	1 654	67	3 264
1999	208	2 019	144	431	1 240	114	179	91	2 372	1 784	269	4 425
2000	645	3 419	159	477	1 654	158	154	662	4 223	2 289	816	7 328
2001	1 096	3 684	1 127	518	2 043	192	16	249	5 907	2 753	265	8 926
2002	1 457	4 170	1 124	423	1 976	158	120	62	6 751	2 557	182	9 490
2003	1 180	3 535	333	517	2 989	288	160	114	5 048	3 794	274	9 117
2004	1 986	4 105	92	715	3 310	316	268	501	6 183	4 341	769	11 293
2005	4 191	6 019	227	1 684	4 005	616	228	591	10 437	6 305	819	17 561
2006	7 569	5 992	776	2 153	5 165	734	624	1 563	14 337	8 051	2 187	24 575

CANADA OIL SANDS EXPENDITURES

1958 - 2018

Million Dollars

	Capital Expenditures			Operating Costs			Royalties			Total		
	In-situ	Mining	Upgraders	In-situ	Mining	Upgraders	In-situ	Mining	Capital	Operating	Royalties	Total
2007	5 372	6 074	6 619	1 673	5 074	1 388	386	2 330	18 065	8 135	2 716	28 916
2008	5 565	7 126	5 423	3 574	5 725	1 807	1 242	2 303	18 113	11 105	3 545	32 763
2009	3 654	5 431	2 143	2 250	7 774	1 758	1 232	878	11 227	11 781	2 110	25 119
2010	5 236	8 751	3 207	3 119	6 980	3 177	2 338	1 409	17 195	13 275	3 747	34 217
2011	11 942	8 343	2 403	5 695	7 137	5 351	2 830	1 637	22 688	18 183	4 467	45 338
2012	13 804	10 984	2 411	6 928	7 561	5 599	2 466	1 217	27 199	20 089	3 683	50 971
2013	19 069	8 618	3 122	8 694	9 147	6 212	2 595	1 834	30 809	24 053	4 429	59 291
2014	19 734	12 968	1 165	8 937	10 065	5 303	3 898	1 945	33 868	24 305	5 843	64 016
2015	8 851	10 391	3 687	7 199	10 256	4 398	994	497	22 929	21 853	1 491	46 274
2016	4 245	8 211	2 969	5 981	10 519	3 607	606	303	15 426	20 108	909	36 443
2017	5 369	6 461	1 973	8 654	7 237	2 660	1 631	816	13 803	18 551	2 447	34 801
2018	5 587	4 948	1 127	7 696	10 337	3 779	1 569	1 145	11 661	21 812	2 714	36 187

Note: Includes the bi-provincial upgrader effective 1990.

Effective 2009, two projects previously included with in situ now combined with mining.

Note: Net Cash Expenditures, except for royalties, do not include inter-industry transactions.

Note: In the 1947-57 period, oil sands expenditures were nominal and are included in the conventional table (Table 4.2 & 3).

Table 4.15

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

Territories

	Crude Oil & Condensate	Natural Gas	Pentanes			Sulphur	Total
1947	500						500
1948	677						677
1949	353						353
1950	335						335
1951	330						330
1952	379						379
1953	257						257
1954	385						385
1955	1 040						1 040
1956	940						940
1957	253						253
1958	839						839
1959	765						765
1960	644						644
1961	713						713
1962	624						624
1963	457						457
1964	565						565
1965	742						742
1966	853						853
1967	533						533
1968	909						909
1969	548						548
1970	1 142						1 142
1971	1 202	113					1 315
1972	1 058	1 443					2 501
1973	2 240	3 653					5 893
1974	3 241	3 796					7 037
1975	4 479	18 408					22 887
1976	3 581	32 178					35 759
1977	4 176	34 613					38 789
1978	6 241	31 085					37 326
1979	7 573	39 200					46 773
1980	10 771	41 955					52 726
1981	8 363	39 359					47 722
1982	11 133	16 901					28 034
1983	20 016	14 758					34 774
1984	16 277	15 430					31 707
1985	180 286	27 300					207 586
1986	106 700	13 100					119 800
1987	147 264	8 545					155 809
1988	122 153	4 592					126 745
1989	169 665	5 333					174 998

Table 4.15

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

Territories

	Crude Oil & Condensate	Natural Gas	Pentanes			Sulphur	Total
			Plus	Propane	Butanes		
1990	247 807	3 972					251 779
1991	202 437	14 180					216 617
1992	189 729	26 900					216 629
1993	164 866	27 095					191 961
1994	171 634	33 281					204 915
1995	193 668	33 548					227 216
1996	243 309	29 596					272 905
1997	228 418	25 122					253 540
1998	163 744	47 867					211 611
1999	218 051	50 654					268 705
2000	361 681	171 372					533 053
2001	317 261	305 256					622 517
2002	329 545	158 652					488 197
2003	336 814	195 365					532 179
2004	366 674	152 801					519 475
2005	424 908	123 079					547 987
2006	450 531	67 371					517 902
2007	452 740	65 479					518 219
2008	564 573	52 306					616 879
2009	338 269	24 744					363 013
2010	410 930	21 249					432 179
2011	349 751	17 508					367 259
2012	378 427	10 685					389 112
2013	361 627	9 672					371 299
2014	360 918	12 462					373 380
2015	190 803	5 467					196 270
2016	160 512	3 849					164 361
2017	6 351	557					6 908
2018	3 245	606					3 851
Total	9 030 425	2 042 457					11 072 882

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

British Columbia

Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Ethane	Total
1947							-
1948							-
1949							-
1950							-
1951							-
1952							-
1953							-
1954	3						3
1955	1 9						10
1956	299 15						314
1957	698 462	66					1 226
1958	1 010 3 442	587	16	29			5 084
1959	1 573 3 922	1 021	31	72	880		7 499
1960	1 531 7 102	1 494	44	103	648		10 922
1961	1 901 8 797	1 619	54	113	960		13 444
1962	15 120 10 219	1 743	76	136	764		28 058
1963	22 809 10 719	2 146	72	143	785		36 674
1964	21 476 12 193	2 038	94	162	682		36 645
1965	26 739 14 493	2 094	138	167	1 100		44 731
1966	34 182 17 340	2 173	129	175	1 501		55 500
1967	42 606 21 667	2 235	160	206	1 517		68 391
1968	48 148 24 516	2 055	154	185	1 657		76 715
1969	56 207 27 890	2 030	130	146	1 106		87 509
1970	58 589 29 768	2 157	161	108	436		91 219
1971	63 696 31 946	3 064	182	111	415		99 414
1972	58 750 43 358	3 020	194	119	278		105 719
1973	65 192 46 689	3 795	435	240	285		116 636
1974	99 563 61 299	3 995	541	232	900		166 530
1975	87 451 77 342	510	365	437	146		166 251
1976	100 329 118 632	594	424	509	170		220 658
1977	123 156 220 888	762	544	653	218		346 221
1978	135 755 232 734	876	626	751	250		370 992
1979	157 739 277 711	934	667	801	267		438 119
1980	187 953 245 263	1 397	1 164	721	838		437 336
1981	238 784 262 558	1 708	1 423	1 537	1 025		507 035
1982	337 230 293 644	1 865	1 554	1 678	1 119		637 090
1983	405 487 299 582	2 044	1 703	1 840	1 226		711 882
1984	437 527 349 980	2 744	2 287	2 470	1 646		796 654
1985	420 939 412 138	5 584	4 654	5 026	3 351		851 692
1986	247 300 323 664	14 700	11 700	10 300	32 800		640 464
1987	306 009 383 425	27 231	9 051	9 879	20 380		755 975
1988	207 412 387 497	21 851	12 007	11 572	18 238		658 577
1989	249 387 554 715	31 843	13 739	10 157	11 209		871 050
1990	296 288 500 755	31 880	14 416	9 663	12 953		865 955
1991	266 623 602 537	26 478	19 548	14 878	13 922		943 986
1992	247 951 603 812	61 166	27 275	23 756	1 444		965 404
1993	240 482 822 021	33 962	29 477	19 194	317		1 145 453
1994	238 839 920 638	45 029	24 005	18 166	921		1 247 598
1995	278 992 778 607	53 972	29 651	19 073	8 132		1 168 427
1996	380 863 856 299	59 668	50 877	26 705	6 853		1 381 265
1997	435 492 1 122 466	70 814	38 823	24 309	1 995		1 693 899
1998	328 321 1 179 921	66 269	26 970	16 961	5 007		1 623 449
1999	376 674 1 660 239	93 511	19 005	26 291	4 787		2 180 507
2000	692 412 3 973 454	166 361	100 969	94 136	2 857	132 583	5 162 772
2001	593 209 4 852 563	134 217	71 915	50 057	379	120 224	5 822 564
2002	576 763 3 529 380	139 086	52 834	56 014	1 986	152 046	4 508 109
2003	668 686 5 526 019	136 912	80 133	72 898	7 756	195 825	6 688 229
2004	748 716 5 876 477	168 696	69 902	85 897	6 006	174 300	7 129 994
2005	848 878 8 003 869	212 879	90 904	85 255	15 188	244 460	9 501 433
2006	803 244 6 576 100	223 687	96 393	101 216	8 650	224 402	8 033 692
2007	757 783 6 429 145	199 311	113 483	128 220	13 976	250 431	7 892 349
2008	954 933 7 977 807	258 726	70 191	135 459	258 191	318 562	9 973 869
2009	572 229 3 978 010	193 481	79 563	115 684	241 432	147 437	5 327 836
2010	709 279 3 957 256	273 720	106 062	141 879	31 729	151 043	5 370 968
2011	842 890 4 427 286	431 692	153 026	207 879	71 508	139 068	6 273 349
2012	945 208 3 109 792	463 770	129 490	218 216	69 346	77 975	5 013 797
2013	847 453 4 226 802	587 080	176 311	250 368	40 968	108 553	6 237 535
2014	1 007 869 6 412 302	703 434	238 826	241 997	39 572	149 829	8 793 829

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

British Columbia

	Crude Oil &	Natural	Pentanes			Sulphur	Ethane	Total
	Condensate	Gas	Plus	Propane	Butanes			
2015	618 835	4 097 474	262 888	29 265	148 395	46 305	90 056	5 293 218
2016	755 328	4 433 502	295 690	61 351	174 780	16 868	97 544	5 835 063
2017	981 369	4 433 558	395 062	233 121	274 732	12 228	89 003	6 419 073
2018	1 674 351	2 944 962	710 493	331 858	424 482	21 831	41 946	6 149 923
Total	22 952 508	108 628 675	6 651 909	2 630 163	3 267 338	1 069 904	2 905 287	148 105 784

Table 4.17

VALUE OF PRODUCERS' SALES 1947 - 2018 Thousand Dollars									
Alberta	Crude Oil & Condensate	Oil Sands	Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Ethane	Total
1947	17 099		2 205	979	10				20 283
1948	33 578		2 448	1 549	62				37 585
1949	57 403		2 559	1 597					61 621
1950	80 568		2 930	1 648	162	46			85 354
1951	115 809		3 494	1 664	284	112			121 363
1952	139 658		5 936	1 663	453	189	85		147 984
1953	193 118		6 724	1 766	516	280	321		202 725
1954	228 012		8 038	1 979	711	348	373		239 461
1955	274 708		9 976	2 463	978	639	520		289 284
1956	355 682		10 960	2 637	1 084	641	666		371 670
1957	358 554		13 735	2 693	1 415	605	2 117		379 119
1958	285 922		20 080	2 887	1 481	644	1 826		312 840
1959	312 295		24 010	3 900	1 747	1 276	1 881		345 109
1960	318 418		31 300	4 579	2 348	1 649	4 182		362 476
1961	379 984		50 908	10 306	3 098	1 875	6 133		452 304
1962	388 483		78 869	23 062	4 067	2 279	8 308		505 068
1963	424 785		96 563	50 972	4 469	3 078	12 108		591 975
1964	450 322		113 193	60 209	5 901	5 938	16 790		652 353
1965	472 311		122 514	67 366	10 771	7 183	24 122		704 267
1966	522 688		135 465	71 084	15 752	9 700	37 225		791 914
1967	588 771	1 157	150 562	73 513	21 032	11 776	64 951		911 762
1968	644 742	15 743	170 961	84 038	21 732	13 284	76 318		1 026 818
1969	712 577	27 790	200 408	97 564	21 305	13 050	58 926		1 131 620
1970	844 066	32 831	243 877	114 373	26 911	14 961	27 435		1 304 454
1971	1 011 793	46 511	266 289	130 785	34 978	19 389	19 284		1 529 029
1972	1 210 465	62 283	307 328	173 285	44 110	26 464	17 738		1 841 673
1973	1 822 517	72 207	367 644	222 885	78 603	40 967	22 841		2 627 664
1974	2 879 934	108 863	594 325	352 459	177 091	108 409	67 492		4 287 563
1975	3 086 745	123 378	1 267 158	395 072	220 495	144 440	86 153		5 323 441
1976	3 262 137	159 874	2 101 022	403 076	233 309	171 107	69 291		6 399 816
1977	3 895 234	180 659	2 862 954	481 050	284 268	211 453	79 256		7 994 874
1978	4 617 278	261 529	3 241 397	513 179	260 123	198 742	99 587		9 191 835
1979	5 693 217	744 614	3 962 726	545 876	345 790	319 658	155 255		11 767 136
1980	6 185 126	1 676 690	5 121 089	586 216	466 298	423 324	433 616		14 892 359
1981	6 744 563	1 464 552	5 401 466	677 698	530 285	478 934	626 140		15 923 638
1982	8 800 431	1 860 031	6 046 401	885 919	492 614	524 191	551 424		19 161 011
1983	11 089 834	2 349 116	6 082 625	1 021 901	575 898	551 133	406 603		22 077 110
1984	12 601 912	2 027 133	6 823 809	1 123 032	661 651	580 872	582 926		24 401 335
1985	12 897 609	2 267 752	7 212 051	1 229 017	613 415	511 839	677 217		25 408 900
1986	6 268 100	1 710 000	5 048 900	709 400	405 400	297 400	683 200	331 400	15 453 800
1987	7 846 817	2 203 506	4 195 309	872 948	316 527	320 418	596 080	309 749	16 661 354
1988	6 087 782	1 696 201	4 373 621	699 994	286 860	260 234	583 102	312 619	14 300 413
1989	6 896 720	2 161 150	4 572 145	860 620	307 219	201 141	396 732	213 064	15 608 791
1990	8 209 930	2 799 416	4 667 014	1 061 809	564 306	332 258	368 108	351 600	18 354 441
1991	6 632 909	2 254 699	4 343 764	926 284	501 281	347 539	329 504	340 772	15 676 752
1992	6 834 737	2 455 312	4 812 505	1 018 284	499 332	332 932	100 361	387 360	16 440 823
1993	6 428 488	2 376 483	6 648 333	1 081 889	710 377	366 626	- 7 749	559 083	18 163 530
1994	6 868 172	2 672 068	8 091 072	6 178 144	614 117	371 599	77 793	491 827	20 364 792
1995	7 579 326	3 257 291	6 199 960	1 423 280	797 842	433 059	149 175	716 707	20 556 640
1996	9 124 475	4 033 080	7 759 663	1 855 870	1 306 123	544 401	76 533	733 510	25 433 655
1997	7 995 076	4 037 333	9 454 923	2 114 612	993 914	486 588	73 912	761 372	25 917 730
1998	5 289 170	3 076 306	9 586 956	1 537 142	606 399	340 326	49 802	608 950	21 095 051
1999	7 062 244	4 886 992	12 506 895	1 986 852	848 687	506 312	84 486	885 953	28 768 421
2000	10 756 814	8 044 464	23 091 079	3 132 047	1 783 429	1 178 251	80 273	1 784 240	49 850 597
2001	8 387 553	6 863 582	27 763 093	2 631 379	1 468 055	876 538	- 19 179	1 371 224	49 342 245
2002	8 455 043	9 258 239	19 176 129	2 412 277	969 515	736 947	50 038	1 796 824	42 855 012
2003	8 598 532	11 158 750	30 263 502	2 479 519	1 237 907	965 565	147 556	2 372 473	57 223 804
2004	9 858 369	14 939 911	31 081 965	3 625 838	1 590 900	1 333 286	193 191	2 604 319	65 227 779
2005	11 884 683	17 742 325	41 197 626	4 413 949	1 902 191	1 566 218	210 287	3 439 598	82 356 877
2006	12 247 584	23 258 822	32 819 824	4 703 480	1 994 999	1 771 641	132 332	2 704 134	79 632 816
2007	12 643 763	24 058 649	31 987 310	4 427 502	2 158 925	1 780 074	195 651	3 165 693	80 417 567
2008	17 481 340	37 770 107	36 321 192	6 418 642	2 439 239	2 578 604	1 566 104	3 376 540	107 951 768
2009	10 441 473	28 187 153	16 911 498	3 652 158	1 373 743	1 526 556	1 217 023	1 657 885	64 967 489
2010	12 302 458	36 689 960	15 564 696	4 535 183	1 842 426	1 914 279	208 223	1 565 847	74 623 072
2011	15 835 009	49 201 573	13 159 874	5 138 780	2 014 244	2 307 861	290 651	1 497 526	89 445 518
2012	16 377 538	48 664 547	8 663 030	4 714 080	1 263 479	1 994 893	400 480	950 473	83 028 520
2013	18 228 304	56 811 903	10 857 892	5 187 427	1 635 707	2 120 780	153 455	1 307 914	96 303 382
2014	19 358 227	69 894 721	15 921 669	5 741 307	1 813 162	1 692 741	167 698	1 823 058	116 412 583
2015	10 040 876	44 073 231	9 876 104	3 865 157	221 362	1 000 856	202 435	1 123 498	70 403 519
2016	8 168 696	40 418 875	7 477 229	3 993 921	260 602	1 063 035	120 463	1 008 619	62 511 440
2017	10 452 514	55 736 739	8 367 681	5 561 263	1 621 456	1 535 220	100 404	1 022 269	84 397 546
2018	13 021 802	62 223 639	5 410 420	7 175 256	1 945 435	1 954 325	241 412	666 340	92 638 629
Total	427 661 872	698 099 730	531 338 872	110 562 234	43 460 377	39 438 978	13 458 646	42 242 440	1 906 263 149

Does not include experimental crude and Alberta ethane until 1986.

Oil Sands does not represent the true value of all synthetic crude oil and includes bitumen.

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

Saskatchewan

	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Total NGLs	Sulphur	Ethane	Total
1947	537	25							562
1948	897	43							940
1949	709	46							755
1950	929	80							1 009
1951	1 460	85							1 545
1952	2 046	119							2 165
1953	3 483	162							3 645
1954	7 637	310							7 947
1955	17 481	561							18 042
1956	34 943	806							35 749
1957	77 600	1 105							78 705
1958	95 678	1 663	34	32	28	94			97 435
1959	97 416	3 101	294	379	258	931	8		101 456
1960	102 665	3 175	449	543	331	1 323	14		107 177
1961	115 037	3 272	453	609	347	1 409	59		119 777
1962	140 957	2 951	591	662	359	1 612	19		145 539
1963	159 284	3 267	648	823	456	1 927	1		164 479
1964	185 544	3 528	679	1 225	653	2 557	2		191 631
1965	199 817	3 963	580	1 703	709	2 992	13		206 785
1966	211 137	5 027	563	1 231	570	2 364	43		218 571
1967	211 032	5 410	689	1 271	621	2 581	89		219 112
1968	206 237	6 127	766	1 448	676	2 890	75		215 329
1969	195 462	6 245	820	1 341	522	2 683	49		204 439
1970	199 046	6 518	867	1 293	488	2 648	-		208 212
1971	216 665	7 438	781	1 307	542	2 630	6		226 739
1972	211 991	7 220	548	1 502	511	2 561	13		221 785
1973	261 823	7 536	688	1 358	822	2 868	21		272 248
1974	394 640	7 730	949	1 343	1 612	3 904	35		406 309
1975	404 183	9 033	1 021	1 741	1 770	4 532	43		417 791
1976	441 940	10 667	1 122	3 592	1 987	6 701	36		459 344
1977	576 697	12 957	1 369	4 290	2 397	8 056	35		597 745
1978	686 027	16 882	1 746	4 506	2 296	8 548	38		711 495
1979	724 904	17 231	1 879	4 680	5 213	11 772	36		753 943
1980	860 544	19 628	1 928	4 536	3 906	10 370	31		890 573
1981	818 716	19 720	1 340	3 368	1 831	6 539		1 198	846 173
1982	1 422 109	24 257				4 549		1 359	1 452 274
1983	1 783 478	50 171				7 613		3 730	1 844 992
1984	2 175 060	88 590				15 481		4 025	2 283 156
1985	2 375 722	112 148				16 285		3 114	2 507 269
1986	1 172 400	118 152				17 600		700	1 308 852
1987	1 511 466	153 167				18 080			1 682 713
1988	1 034 704	192 355				10 187		2 112	1 239 358
1989	1 237 286	265 606				8 022		1 410	1 512 324
1990	1 523 880	331 527				13 044		2 138	1 870 589
1991	1 186 480	342 305				11 676		1 832	1 542 293
1992	1 415 130	348 763				11 586		2 412	1 777 891
1993	1 489 127	350 056				13 270		3 141	1 855 594
1994	1 868 421	485 428				12 828		2 608	2 369 285
1995	2 288 783	382 478				16 096		3 784	2 691 141
1996	3 098 149	344 965				22 194		3 643	3 468 951
1997	2 959 671	387 618				22 937		4 524	3 374 750
1998	1 994 946	395 097				18 088		3 859	2 411 990
1999	3 086 785	644 536				25 050		4 613	3 760 984
2000	5 077 162	1 097 858				47 808		9 458	6 232 286
2001	3 818 710	1 307 269				48 154		8 495	5 182 628
2002	4 680 770	925 815				37 218		9 148	5 652 951
2003	4 950 163	1 523 275				21 208		9 138	6 503 784
2004	5 574 475	1 640 962				24 632		9 228	7 249 297
2005	6 698 478	1 999 514				29 764		12 052	8 739 808
2006	7 580 497	1 556 488				89 453		7 431	9 233 869
2007	8 106 294	1 350 229				104 720		5 936	9 567 179
2008	13 386 296	1 587 236				156 026		6 907	15 136 465
2009	8 976 920	727 089				143 442		3 381	9 850 832
2010	10 312 617	599 030				139 771		6 116	11 057 534
2011	12 334 344	595 217				170 785		4 375	13 104 721
2012	12 981 545	404 050				178 310		3 579	13 567 484

VALUE OF PRODUCERS' SALES 1947 - 2018 Thousand Dollars									
Saskatchewan	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Total NGLs	Sulphur	Ethane	Total
2013	13 810 996	487 124				203 380		4 686	14 506 186
2014	15 382 193	696 222				217 337		7 483	16 303 235
2015	8 058 954	417 643				77 133		3 303	8 557 033
2016	6 757 501	297 691				127 529		4 102	7 186 823
2017	9 048 814	322 709				210 679		4 488	9 586 690
2018	8 061 760	199 282				225 996		2 882	8 489 920
Total	207 087 250	22 945 553	20 804	44 783	28 905	2 612 423	666	172 390	232 818 282

Table 4.19

VALUE OF PRODUCERS' SALES							
1947 - 2018							
Thousand Dollars							
Manitoba	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Total
1947							25
1948							182
1949							1 658
1950							5 566
1951	25						9 517
1952	182						13 417
1953	1 658						15 231
1954	5 566						14 265
1955	9 517						11 615
1956	13 417						10 690
1957	15 231						10 133
1958	14 265						9 500
1959	11 615						9 183
1960	10 690						10 694
1961	10 133						12 270
1962	9 500						13 087
1963	9 183						13 974
1964	10 694						15 561
1965	12 270						15 615
1966	13 087						14 858
1967	13 974						15 445
1968	15 561						14 586
1969	15 615						17 155
1970	14 858						27 182
1971	15 445						31 453
1972	14 586						33 533
1973	17 155						40 457
1974	27 182						45 953
1975	31 453						48 403
1976	33 533						54 958
1977	33 533						64 055
1978	40 457						100 537
1979	45 953						152 350
1980	48 403						169 296
1981	54 958						180 049
1982	64 055						95 800
1983	100 537						109 428
1984	152 350						78 907
1985	169 296						90 662
1986	180 049		300	100			115 564
1987	95 800		173	113			83 963
1988	109 428		151	101			86 810
1989	78 907		216	105			77 942
1990	90 662		398	186			82 671
1991	115 564		244	118			90 745
1992	83 963		227	107			106 760
1993	86 810		214	107			105 116
1994	77 942		190	104			73 958
1995	82 671		180	104			96 572
1996	90 745		113	46			165 411
1997	106 760						138 166
1998	105 116						149 777
1999	73 958						159 826
2000	96 572						195 667
2001	165 411						324 736
2002	138 166						465 105
2003	149 777						
2004	159 826						
2005	195 667						
2006	324 736						

VALUE OF PRODUCERS' SALES							
1947 - 2018							
Thousand Dollars							
Manitoba	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Total
2007	618 712						618 712
2008	830 122						830 122
2009	616 146						616 146
2010	852 535						852 535
2011	1 371 048						1 371 048
2012	1 564 286						1 564 286
2013	1 697 531						1 697 531
2014	1 670 537						1 670 537
2015	939 364						939 364
2016	741 604						741 604
2017	879 442						879 442
2018	1 068 851						1 068 851
Total	16 942 620			2 406	1 191		16 946 217

VALUE OF PRODUCERS' SALES
1947 - 2018
Thousands Dollars

Western Canada*	Crude Oil & Condensate	Natural Gas	Pentanes	Propane	Butanes	Total NGLs	Sulphur	Ethane	Total
		Oil Sands	Plus						
1947	18 136	2 230	979			979			21 345
1948	35 152	2 491	1 549	10		1 559			39 202
1949	58 465	2 605	1 597	62		1 659			62 729
1950	81 832	3 010	1 648	162	46	1 856			86 698
1951	117 624	3 579	1 664	284	112	2 060			123 263
1952	142 265	6 055	1 663	453	189	2 305	85		150 710
1953	198 516	6 886	1 766	516	280	2 562	321		208 285
1954	241 600	8 351	1 979	711	348	3 038	373		253 362
1955	302 747	10 546	2 463	978	639	4 080	520		317 893
1956	405 281	11 781	2 637	1 084	641	4 362	666		422 090
1957	452 336	15 302	2 759	1 415	605	4 779	2 117		474 534
1958	397 714	25 185	3 508	1 529	701	5 738	1 826		430 463
1959	423 664	31 033	5 215	2 157	1 606	8 978	2 769		466 444
1960	433 948	41 577	6 522	2 935	2 083	11 540	4 844		491 909
1961	507 768	62 977	12 378	3 761	2 335	18 474	7 152		596 371
1962	554 684	92 039	25 396	4 805	2 774	32 975	9 091		688 789
1963	616 518	110 549	53 766	5 364	3 677	62 807	12 894		802 768
1964	668 601	128 914	62 926	7 220	6 753	76 899	17 474		891 888
1965	711 879	140 970	70 040	12 612	8 059	90 711	25 235		968 795
1966	781 947	157 832	73 820	17 112	10 445	101 377	38 769		1 079 925
1967	856 916	1 157	177 639	76 437	22 463	12 603	111 503	66 557	1 213 772
1968	915 597	15 743	201 604	86 859	23 334	14 145	124 338	78 050	1 335 332
1969	980 409	27 790	234 543	100 414	22 776	13 718	136 908	60 081	1 439 731
1970	1 117 701	32 831	280 163	117 397	28 365	15 557	161 319	27 871	1 619 885
1971	1 308 801	46 511	305 786	134 630	36 467	20 042	191 139	19 705	1 871 942
1972	1 496 850	62 683	359 349	176 853	45 806	27 094	249 753	18 029	2 186 664
1973	2 168 927	72 207	425 522	227 368	80 396	42 029	349 793	23 147	3 039 596
1974	3 403 560	108 853	667 150	357 403	178 975	110 253	646 631	68 427	4 894 621
1975	3 614 311	123 378	1 371 941	396 603	222 601	146 647	765 851	86 342	5 961 823
1976	3 841 520	159 874	2 262 499	404 792	237 325	173 603	815 720	69 497	7 149 110
1977	4 639 720	180 659	3 131 412	483 181	289 102	214 503	986 786	79 509	9 018 086
1978	5 491 254	261 529	3 522 098	515 801	265 255	201 789	982 845	99 875	10 357 601
1979	6 631 836	744 614	4 296 868	548 689	351 137	325 672	1 225 498	155 558	13 054 374
1980	7 299 342	1 676 690	5 427 935	589 541	471 998	427 951	1 489 490	434 485	16 327 942
1981	7 874 481	1 464 552	5 723 103	680 746	535 076	482 302	1 698 124	627 165	1 198
1982	10 671 440	1 860 031	6 381 203				1 912 370	552 543	21 378 946
1983	13 451 165	2 349 116	6 447 136				2 162 132	407 829	3 730
1984	15 400 072	2 027 133	7 277 809				2 428 028	584 572	4 025
1985	16 054 605	2 267 752	7 763 637				2 378 057	680 568	3 114
1986	7 889 900	1 710 000	5 503 816				1 466 900	716 000	332 100
1987	9 920 698	2 203 506	4 740 446				1 574 420	616 460	309 749
1988	7 530 706	1 696 201	4 958 065				1 302 957	601 340	314 731
1989	8 643 399	2 161 150	5 397 799				1 433 062	407 941	214 474
1990	10 392 985	2 799 416	5 503 268				2 027 960	381 061	353 738
1991	8 372 050	2 254 699	5 302 786				1 848 046	343 426	342 604
1992	8 774 023	2 455 312	5 791 980				1 974 665	101 805	389 772
1993	8 400 584	2 376 483	7 847 505				2 255 116	- 7 432	562 224
1994	9 229 443	2 672 068	9 530 419				2 264 182	78 714	494 435
1995	10 431 230	3 257 291	7 394 593				2 773 257	157 307	720 491
1996	12 953 397	4 033 080	8 990 523				3 865 997	83 386	737 153
1997	11 723 773	4 037 333	10 990 129				3 751 997	75 907	765 896
1998	7 850 139	3 076 306	11 209 841				2 612 155	54 809	612 909
1999	10 840 326	4 886 992	14 862 324				3 505 708	89 273	890 566
2000	17 053 480	8 044 464	28 333 763				6 503 001	83 130	1 926 281
2001	13 254 899	6 863 582	34 228 181				5 280 315	- 18 800	1 499 943
2002	14 191 898	9 258 239	23 789 976				4 403 891	52 024	1 958 018
2003	14 714 021	11 158 750	37 508 161				5 031 761	155 312	2 577 436
2004	16 743 901	14 939 911	38 752 205				6 943 994	199 197	2 787 847
2005	20 181 683	17 742 325	51 324 088				8 355 760	225 475	3 696 110
2006	21 546 961	23 258 822	41 019 783				8 980 869	122 281	2 935 967
2007	22 579 292	24 058 649	39 832 163				8 912 235	209 627	3 422 060
2008	33 217 264	37 770 107	45 938 541				12 056 646	1 824 295	3 703 053
2009	20 945 037	28 187 153	21 641 341				7 078 076	1 458 455	1 810 693
2010	24 587 819	36 689 960	20 142 231				8 980 046	239 952	1 726 654
2011	30 733 042	49 201 573	18 199 885				10 403 102	362 159	1 640 969
2012	32 312 851	48 664 547	12 197 822				8 962 238	338 966	1 032 027
2013	34 945 911	56 811 903	15 593 579				10 161 053	194 423	1 421 153
2014	37 785 091	69 894 721	23 057 609				10 648 804	207 270	1 980 370
2015	19 843 872	44 073 231	14 402 004				5 033 328	248 740	1 216 857
2016	16 583 641	40 418 875	12 217 220				5 976 908	137 331	1 110 265
2017	21 368 490	55 736 739	13 127 356				9 831 533	112 632	1 115 760
2018	23 830 652	61 256 827	8 558 260				12 767 845	263 243	711 168
Total	683 741 642	697 133 318	665 008 971	5 230 989	2 874 246	2 269 201	208 222 850	14 379 655	45 326 899
									2 313 813 335

Note: Effective 1982 NGL represents value of pentanes plus, propane and butanes.

*Does not include experimental crude and Alberta ethane until 1986.

**Does not represent the true value of all synthetic crude oil and includes bitumen.

Ethane represents value of Saskatchewan production only until 1985.

Table 4.21

VALUE OF PRODUCERS' SALES
 1947 - 2018
 Thousand Dollars

Eastern Canada*

	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Total
1947	382	5 615					5 997
1948	638	7 246					7 884
1949	929	8 973					9 902
1950	916	9 105					10 021
1951	700	10 157					10 857
1952	661	10 148					10 809
1953	1 026	11 826					12 852
1954	1 408	11 895					13 303
1955	1 733	12 402					14 135
1956	1 981	14 362					16 343
1957	2 187	16 142					18 329
1958	2 644	17 957					20 601
1959	3 214	16 524					19 738
1960	3 169	6 726					9 895
1961	3 564	5 757					9 321
1962	3 675	5 937					9 612
1963	3 469	6 176					9 645
1964	4 021	5 870					9 891
1965	4 099	4 956					9 055
1966	4 246	6 030					10 276
1967	3 536	5 518					9 054
1968	3 181	4 714					7 895
1969	3 130	4 391					7 521
1970	2 854	6 571					9 425
1971	2 740	6 449					9 189
1972	2 511	4 851					7 362
1973	2 880	3 736					6 616
1974	4 353	3 319					7 672
1975	5 097	6 571					11 668
1976	5 258	4 922					10 180
1977	6 667	10 310					16 977
1978	7 844	19 446					27 290
1979	8 140	25 248					33 388
1980	9 833	33 900					43 733
1981	11 117	34 971					46 088
1982	15 720	41 959					57 679
1983	18 303	55 347					73 650
1984	21 190	71 000					92 190
1985	24 965	73 143					98 108
1986	17 300	65 100					82 400
1988	22 370	55 893					78 263
1989	34 464	51 096					85 560
1990	44 375	46 981					91 356
1991	35 716	46 627					82 343
1992	35 175	40 070					75 245
1993	37 767	37 442					75 209
1994	36 834	38 340					75 174
1995	41 098	42 157					83 255
1996	49 562	46 630					96 192
1997	39 919	37 574					77 493
1998	26 982	38 975					65 957
1999	41 736	37 237					78 973
2000	61 908	94 157					156 065
2001	59 615	78 015					137 630
2002	46 151	51 472					97 623
2003	46 289	86 911					133 200
2004	53 103	105 040					158 143
2005	58 541	134 563					193 104
2006	56 654	104 550					161 204
2007	50 658	83 740					134 398
2008	59 850	75 856					135 706
2009	38 187	28 097					66 284
2010	39 445	32 287					71 732
2011	45 420	28 231					73 651
2012	39 407	26 595					66 002
2013	38 637	32 121					70 758

VALUE OF PRODUCERS' SALES
1947 - 2018
Thousand Dollars

Eastern Canada*

	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Total
2014	38 514	39 223					77 737
2015	18 920	20 459					39 379
2016	16 495	15 415					31 910
2017	20 889	15 354					36 243
2018	21 732	11 113					32 845
Total	1 477 694	2 257 491					3 735 185

*Quebec, New Brunswick & Ontario

Table 4.22

VALUE OF PRODUCERS' SALES

1992 - 2018

Thousand Dollars

Eastcoast Offshore

	Crude Oil & Condensate		Natural Gas	Pentanes Plus	Propane	Butanes	Sulphur	Total
	Nova Scotia	Newfoundland						
1992	96 097							96 097
1993	160 929							160 929
1994	201 244							201 244
1995	196 714							196 714
1996	195 309							195 309
1997	102 712	23 999						126 711
1998	119 482	443 612						563 094
1999	55 590	997 530						1 053 120
2000		2 203 329	778 041					2 981 370
2001		2 037 826	938 030	28 847	20 654			3 025 357
2002		4 079 916	805 363	32 278	34 722			4 952 279
2003		5 030 106	1 120 605	59 086	54 524			6 264 321
2004		5 651 785	1 029 457	40 579	40 898			6 762 719
2005		7 026 278	1 286 593	61 274	70 838			8 444 983
2006		7 426 216	922 872	48 466	68 222			8 465 776
2007		10 231 902	1 000 323	51 293	67 923			11 351 441
2008		12 282 515	1 276 326	76 561	111 462			13 746 864
2009		6 618 585	443 751	55 799	55 750			7 173 885
2010		8 285 891	437 517	75 306	63 257			8 861 971
2011		10 771 879	342 836	76 203	70 291			11 261 209
2012		8 214 449	165 784	30 259	38 488			8 448 980
2013		9 398 736	197 458	29 431	30 393			9 656 018
2014		7 089 538	549 900	33 322	24 000			7 696 760
2015		4 188 361	199 262	3 497	12 885			4 404 005
2016		4 438 305	133 736	5 261	11 559			4 588 861
2017		5 675 501	110 329	15 078	13 221			5 814 129
2018		7 703 296	38	10 828	9 904			7 724 066
Total	1 128 077	129 819 555	11 738 221	733 368	798 991			144 218 212

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

Canada*	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Total NGLs	Sulphur	Ethane	Total
1947	18 518	7 845	979			979			27 342
1948	35 790	9 737	1 549	10		1 559			47 086
1949	59 394	11 578	1 597	62		1 659			72 631
1950	82 748	12 115	1 648	162	46	1 856			96 719
1951	118 324	13 736	1 664	284	112	2 060			134 120
1952	142 926	16 203	1 663	453	189	2 305	85		161 519
1953	199 542	18 712	1 766	516	280	2 562	321		221 137
1954	243 008	20 246	1 979	711	348	3 038	373		266 665
1955	304 480	22 948	2 463	978	639	4 080	520		332 028
1956	407 262	26 143	2 637	1 084	641	4 362	666		438 433
1957	454 523	31 444	2 759	1 415	605	4 779	2 117		492 863
1958	400 358	43 142	3 508	1 529	701	5 738	1 826		451 064
1959	426 878	47 557	5 215	2 157	1 606	8 978	2 769		486 182
1960	437 117	48 303	6 522	2 935	2 083	11 540	4 844		501 804
1961	511 332	68 734	12 378	3 761	2 335	18 474	7 152		605 692
1962	558 359	97 976	25 396	4 805	2 774	32 975	9 091		698 401
1963	619 987	116 725	53 766	5 364	3 677	62 807	12 894		812 413
1964	672 622	134 784	62 926	7 220	6 753	76 899	17 474		901 779
1965	715 978	145 926	70 040	12 612	8 059	90 711	25 235		977 850
1966	786 193	163 862	73 820	17 112	10 445	101 377	38 769		1 090 201
1967	860 452	1 157	183 157	76 437	22 463	12 603	111 503	66 557	1 222 826
1968	918 778	15 743	206 318	86 859	23 334	14 145	124 338	78 050	1 343 227
1969	983 539	27 790	238 934	100 414	22 776	13 718	136 908	60 081	1 447 252
1970	1 120 555	32 831	286 734	117 397	28 365	15 557	161 319	27 871	1 629 310
1971	1 311 541	46 511	312 235	134 630	36 467	20 042	191 139	19 705	1 881 131
1972	1 499 361	62 283	364 200	176 853	45 806	27 094	249 753	18 029	2 193 626
1973	2 171 807	72 207	429 258	227 368	80 396	42 029	349 793	23 147	3 046 212
1974	3 407 913	108 853	670 469	357 403	178 975	110 253	646 631	68 427	4 902 293
1975	3 619 408	123 378	1 378 512	396 603	222 601	146 647	765 851	86 342	5 973 491
1976	3 846 778	159 874	2 267 421	404 792	237 325	173 603	815 720	69 497	7 159 290
1977	4 646 387	180 659	3 141 722	483 181	289 102	214 503	986 786	79 509	9 035 063
1978	5 499 098	261 529	3 541 544	515 801	265 255	201 789	982 845	99 875	10 384 891
1979	6 639 976	744 614	4 322 116	548 689	351 137	325 672	1 225 498	155 558	13 087 762
1980	7 309 175	1 676 690	5 461 835	589 541	471 998	427 951	1 489 490	434 485	16 371 675
1981	7 885 598	1 464 552	5 762 074	680 746	535 076	482 302	1 698 124	627 165	1 198
1982	10 687 160	1 860 031	6 423 162				1 912 370	552 543	1 359
1983	13 469 468	2 349 116	6 502 483				2 162 132	407 829	3 730
1984	15 421 262	2 027 133	7 348 809				2 428 028	584 572	4 025
1985	16 079 570	2 267 752	7 836 780				2 378 057	680 568	3 114
1986	7 907 200	1 710 000	5 568 916				1 466 900	716 000	332 100
1987	9 939 956	2 203 506	4 802 400				1 574 420	616 460	309 749
1988	7 553 076	1 696 201	5 013 958				1 302 957	601 340	314 731
1989	8 677 863	2 161 150	5 448 895				1 433 062	407 941	214 474
1990	10 437 260	2 799 416	5 550 249				2 027 960	381 061	353 738
1991	8 407 766	2 254 699	5 349 413				1 848 046	343 426	342 604
1992	8 905 295	2 455 312	5 832 050				1 974 665	101 805	389 772
1993	8 598 980	2 376 483	7 884 947				2 255 116	- 7 432	562 224
1994	9 467 521	2 672 068	9 568 759				2 264 182	78 714	494 435
1995	10 669 042	3 257 291	7 436 750				2 773 257	157 307	720 491
									25 014 138

VALUE OF PRODUCERS' SALES

1947 - 2018

Thousand Dollars

Canada*	Crude Oil & Condensate	Natural Gas	Pentanes Plus	Propane	Butanes	Total NGLs	Sulphur	Ethane	Total
1996	13 198 268	4 033 080	9 037 153			3 865 997	83 386	737 153	30 955 037
1997	11 890 402	4 037 333	11 027 703			3 751 997	75 907	765 896	31 549 238
1998	8 440 215	3 076 306	11 248 816			2 612 155	54 809	612 809	26 045 110
1999	11 935 182	4 886 992	14 899 561			3 505 708	89 273	890 566	36 207 282
2000	19 318 717	8 044 464	29 205 961			6 503 001	83 130	1 926 281	65 081 554
2001	15 352 240	6 863 582	35 244 226			5 329 816	- 18 800	1 499 943	64 271 007
2002	18 317 965	9 258 239	24 646 811			4 470 891	52 024	1 958 018	58 703 948
2003	19 790 416	11 158 750	38 715 677			5 145 371	155 312	2 577 436	77 542 962
2004	22 448 789	14 939 911	39 886 702			7 025 471	199 197	2 787 847	87 287 917
2005	27 266 502	17 742 325	52 745 244			8 487 872	225 475	3 696 110	110 163 528
2006	29 029 831	23 258 822	42 047 205			9 097 557	140 982	2 935 967	106 510 364
2007	32 861 852	24 058 649	40 916 226			9 037 582	209 627	3 422 060	110 505 996
2008	45 559 629	37 770 107	47 290 723			12 250 365	1 824 295	3 702 009	148 397 128
2009	27 601 809	28 187 153	22 144 333			7 196 176	1 458 455	1 808 703	88 396 629
2010	32 913 155	36 689 960	20 612 035			8 659 490	239 952	1 723 006	100 837 598
2011	41 550 341	49 201 573	18 570 952			10 549 596	362 159	1 640 969	121 875 590
2012	40 566 707	48 664 547	12 379 936			9 030 985	338 966	1 032 027	112 013 168
2013	44 383 284	56 811 903	15 811 069			10 220 877	194 423	1 421 153	128 842 709
2014	44 913 143	69 894 721	23 631 778			10 706 126	207 270	1 980 370	151 333 408
2015	24 051 153	44 073 231	14 616 409			5 049 710	248 740	1 216 857	89 256 100
2016	21 038 441	40 418 875	12 361 422			5 993 728	137 331	1 110 265	81 060 062
2017	27 064 880	55 736 739	13 250 188			9 859 832	112 632	1 115 760	107 140 031
2018	31 555 037	62 223 639	8 566 421			12 788 577	263 243	711 168	116 108 085
Total	784 630 045	635 876 091	670 481 946	5 230 989	2 874 246	2 269 201	196 525 891	14 135 113	44 608 949
									2 346 258 035

Note: Effective 1982 NGL represents value of pentanes plus, propane and butanes.

*Does not include experimental crude and Alberta ethane until 1986.

Oil Sands does not represent the true value of all synthetic crude oil and includes bitumen

Ethane represents value of Saskatchewan production only until 1985.

Section 5

Prices

Table

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Table 5.1

WESTERN CANADA*
AVERAGE PRICES OF CRUDE OIL & NATURAL GAS
 1947 - 2018

	Crude Oil	Natural Gas	Consumer Price Index Numbers**
	Average Wellhead Price	Average Wellhead/Plant Gate Price	
	Dollars Per Cubic Metre	Dollars Per Thou. Cubic Metres	
1947	16.00	2.40	100.00
1948	18.91	2.32	114.00
1949	17.75	2.24	117.60
1950	18.15	2.08	121.10
1951	15.62	2.19	133.90
1952	14.67	3.33	137.30
1953	15.50	3.30	135.90
1954	15.91	3.28	136.70
1955	14.78	3.32	136.90
1956	14.88	3.41	138.90
1957	15.77	3.54	143.40
1958	15.27	3.38	147.30
1959	14.60	3.18	148.70
1960	14.48	3.42	150.70
1961	14.56	4.06	152.10
1962	13.98	4.31	154.00
1963	14.90	4.73	156.60
1964	15.34	4.92	159.40
1965	15.38	4.87	163.30
1966	15.42	5.08	169.40
1967	15.40	5.12	175.30
1968	15.43	5.10	182.60
1969	15.15	5.03	190.90
1970	15.56	5.26	197.20
1971	17.22	5.22	202.80
1972	17.36	5.43	212.60
1973	21.44	5.99	228.60
1974	35.87	9.49	253.50
1975	45.09	19.26	280.90
1976	52.57	31.31	302.00
1977	63.22	41.70	326.20
1978	75.70	48.36	355.40
1979	81.95	54.99	387.80
1980	97.00	75.48	427.10
1981	117.10	80.61	480.40
1982	163.06	87.80	532.30
1983	197.92	93.23	563.40
1984	208.37	96.79	587.70
1985	220.98	93.57	611.00
1986	113.91	73.47	636.00
1987	138.26	58.55	663.90
1988	101.08	52.78	690.80
1989	121.88	53.77	725.40
1990	148.86	54.32	760.40
1991	120.78	48.28	803.00
1992	123.00	47.99	815.10
1993	113.15	58.38	829.77
1994	119.70	66.08	831.43
1995	132.35	48.85	848.89
1996	160.77	56.74	862.47
1997	143.94	68.44	876.27
1998	100.07	67.70	884.16
1999	150.24	87.41	899.19
2000	233.83	164.61	923.60
2001	186.17	196.87	947.20
2002	209.23	137.15	963.00
2003	223.33	221.96	989.96
2004	260.41	226.64	1 008.58

WESTERN CANADA*
AVERAGE PRICES OF CRUDE OIL & NATURAL GAS
 1947 - 2018

	Crude Oil	Natural Gas	Consumer Price Index Numbers**
	Average Wellhead Price	Average Wellhead/Plant Gate Price	
	Dollars Per Cubic Metre	Dollars Per Thou. Cubic Metres	
2005	324.64	298.56	1 030.74
2006	352.87	237.34	1 050.97
2007	375.88	234.37	1 074.09
2008	557.11	282.10	1 098.80
2009	373.76	141.99	1 102.09
2010	439.60	136.40	1 121.93
2011	524.74	124.43	1 154.47
2012	490.13	84.71	1 171.78
2013	513.80	107.48	1 182.33
2014	534.85	153.98	1 205.98
2015	304.12	93.39	1 218.03
2016	274.31	82.33	1 235.09
2017	342.28	82.33	1 254.85
2018	351.31	50.93	1 283.71

*Includes Alberta, British Columbia, Manitoba, Saskatchewan & Territories.

**Converted for illustrative purposes from base period 1971 = 100.

AVERAGE PRICES OF CRUDE OIL & NATURAL GAS BY PROVINCE
1951 - 2018

	Crude Oil (1)				Natural Gas (2)		
	British Columbia	Alberta	Sask	Manitoba	British Columbia	Alberta	Sask
1951		15.87	7.37	13.48		2.17	3.54
1952		14.92	7.59	10.69		3.32	3.72
1953		15.82	7.85	15.91		3.29	3.68
1954		16.37	8.86	16.30	1.5	3.28	3.56
1955	10.87	15.29	9.72	14.45	1.8	3.32	3.28
1956	12.67	15.55	10.43	14.59	3	3.42	3.33
1957	12.72	16.41	13.25	15.74	2.23	3.63	3.28
1958	12.37	15.88	13.49	15.40	2.14	3.83	2.74
1959	11.47	15.12	12.92	14.46	2.19	3.39	3.47
1960	11.1	15.09	12.45	14.12	3.2	3.46	3.55
1961	11.78	14.89	12.96	14.23	3.25	4.29	3.56
1962	10.67	14.23	13.77	15.22	3.34	4.51	3.67
1963	11.46	15.53	14.06	15.32	3.6	4.94	3.76
1964	11.7	16.07	14.34	15.24	3.64	5.17	3.77
1965	12.46	16.12	14.32	15.61	3.71	5.10	4.04
1966	12.9	16.18	14.25	15.74	3.82	5.33	4.48
1967	13.61	16.00	14.35	15.74	3.5	5.49	4.82
1968	13.64	16.08	14.12	15.78	3.41	5.51	4.70
1969	13.93	15.61	14.07	15.84	3.37	5.46	3.89
1970	14.49	16.07	14.00	15.82	3.34	5.69	4.60
1971	15.87	17.78	15.41	17.34	3.39	5.60	4.60
1972	15.45	17.89	15.40	17.46	3.59	5.89	4.56
1973	19.25	21.91	19.22	21.23	3.57	6.62	4.81
1974	33.06	36.34	33.66	36.02	5.43	10.46	5.22
1975	38.27	45.64	43.09	44.84	7.14	21.79	6.01
1976	42.07	53.46	49.73	52.95	11.43	35.34	7.33
1977	55.38	64.24	59.07	64.17	20.8	45.69	10.92
1978	66.9	76.78	71.28	76.80	24.39	52.57	15.14
1979	72.61	82.93	77.35	82.97	28.63	59.84	14.63
1980	92.18	97.69	92.22	97.52	31.44	82.51	16.40
1981	115.87	118.17	110.75	118.03	36.98	87.19	16.56
1982	160.82	161.51	175.47	172.68	43.71	94.31	19.07
1983	193.42	200.12	186.88	206.73	45.22	100.39	38.18
1984	207.53	209.96	201.16	213.41	49.94	103.68	50.80
1985	213.64	214.33	204.52	219.38	54.53	99.00	57.63
1986	121.41	117.86	100.28	115.77	45.11	77.74	53.73
1987	144.99	142.03	125.17	139.64	45.08	59.98	64.60
1988	108.56	105.38	84.47	102.26	42.86	54.02	50.54
1989	130.14	125.93	106.36	124.66	48.54	54.77	49.36
1990	151.88	154.61	125.31	155.85	47.51	55.18	54.18
1991	130.91	126.95	95.76	117.04	43.64	48.65	53.12
1992	120.72	128.07	105.94	131.46	41.14	48.68	53.06
1993	118.09	117.36	99.63	122.11	50.05	60.08	52.64
1994	119.02	123.82	108.73	124.99	53.87	68.07	66.57
1995	134.15	136.11	122.56	140.50	40.38	49.99	51.54
1996	166.95	165.56	148.29	173.90	44.13	58.90	51.38
1997	162.11	150.28	126.89	165.10	54.27	70.96	62.62
1998	112.06	105.43	86.16	116.64	55.45	69.70	64.39
1999	159.53	153.66	142.25	166.16	76.65	88.68	96.30
2000	257.92	244.72	209.50	266.20	178.51	162.34	165.99
2001	221.33	198.76	157.52	214.91	189.11	198.39	193.24
2002	227.44	217.63	191.71	230.16	125.44	139.48	139.43
2003	252.8	232.44	203.44	252.57	210.78	224.62	215.00
2004	305.54	278.56	226.75	306.93	216.19	228.84	225.81
2005	397.87	352.57	275.65	402.83	286.2	301.75	285.90
2006	423.45	381.03	305.19	422.50	223.54	240.86	226.53
2007	429.29	405.40	326.72	480.18	228.95	235.66	230.69
2008	596.67	580.12	523.26	608.15	275.87	283.86	274.32
2009	375.87	379.19	365.06	414.05	139.33	142.86	136.59
2010	459.14	450.07	422.29	484.67	130.25	137.98	138.44
2011	564.83	543.55	493.76	582.32	121.66	125.36	125.34
2012	548.02	495.23	475.20	533.10	85.30	84.50	84.60
2013	566.69	525.06	489.78	575.55	105.03	108.43	105.03
2014	571.99	544.08	516.18	585.52	150.23	155.50	154.99
2015	327.94	314.29	286.03	350.62	91.19	94.30	94.25
2016	331.00	285.42	253.12	317.77	94.07	71.21	70.44
2017	396.72	353.49	321.77	391.28	92.52	77.96	77.78
2018	462.12	388.06	284.75	459.81	52.61	50.14	48.68

(1) Average Wellhead Price (C\$ per M³)(2) Average Wellhead/Plant Gate Price (C\$ per 10³M³)

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REPRESENTATIVE RETAIL PRICES - REGULAR UNLEADED GASOLINE - SELF SERVICE STATIONS
1990 - 2018
Cents per litre

	St John Newfoundland	Charlotte/ Summerside P.E.I.	Halifax Nova Scotia	Saint John N.B.	Montreal Quebec	Toronto Ontario	Winnipeg Manitoba	Regina Sask.	Edmonton Alberta	Vancouver B.C.
1990	61.5	57.8			62.8	55.7	55.3	54.7	53.6	61.4
1991	63.6	63.3			64.3	53.8	52.8	47.4	49.8	57.8
1992	60.8	60.8			60.2	52.4	49.5	49.4	47.6	53.8
1993	57.0	56.8	50.7	54.7	57.4	51.1	52.1	53.6	45.7	54.8
1994	58.6	55.0	52.0	53.6	55.2	49.8	52.3	55.6	45.4	55.6
1995	62.8	59.3	54.3	56.0	56.8	52.4	54.6	57.5	47.6	58.4
1996	61.4	59.2	54.8	55.1	60.6	56.1	56.9	59.3	49.6	59.2
1997	67.7	60.6	60.6	60.2	61.9	56.1	57.4	60.0	52.1	58.8
1998	64.4	53.6	57.1	55.4	56.3	51.6	53.3	55.6	47.0	50.6
1999	66.2	52.9	60.8	59.2	63.0	57.5	57.3	60.5	51.4	54.3
2000	83.0	70.1	76.1	73.3	77.2	70.8	66.7	71.7	63.5	69.1
2001	79.1	71.9	72.8	70.0	73.8	67.8	65.0	72.2	61.3	68.9
2002	77.0	68.2	73.4	72.5	71.4	67.3	63.2	72.7	63.4	70.4
2003	82.8	74.0	78.0	78.8	76.7	70.9	67.6	76.0	67.4	76.8
2004	91.7	84.1	87.5	88.0	85.8	76.7	76.7	82.5	75.9	86.0
2005	102.1	96.4	97.9	97.9	96.4	89.0	90.0	92.7	85.1	97.1
2006	107.6	103.0	103.7	102.2	100.8	93.4	96.6	99.6	91.0	103.8
2007	111.0	104.2	106.8	101.4	104.3	97.4	102.2	104.7	96.7	108.1
2008	123.6	114.5	118.4	113.7	118.8	110.2	115.8	117.3	109.2	121.3
2009	102.3	93.3	96.2	91.4	97.7	91.6	94.4	97.0	86.5	104.0
2010	110.8	101.2	105.8	99.9	107.8	101.9	97.5	101.9	90.2	115.3
2011	129.2	119.3	125.6	121.6	130.5	124.1	114.6	121.7	107.8	132.4
2012	131.9	124.3	131.3	127.5	136.5	126.7	118.3	122.4	109.6	135.3
2013	128.9	129.5	131.0	126.7	136.9	127.8	120.4	120.0	109.0	137.5
2014	130.6	131.4	131.4	127.7	136.9	128.4	118.0	121.1	110.0	138.0
2015	109.3	105.7	105.7	103.9	116.4	106.4	97.3	100.0	92.8	123.7
2016	113.7	98.8	98.8	98.4	108.3	100.7	92.1	91.3	85.1	118.3
2017	124.2	108.8	108.4	108.8	118.9	113.5	97.4	98.3	97.9	134.4
2018	127.1	121.2	119.0	120.4	131.9	126.6	113.1	114.4	116.8	150.0

Note: Includes all taxes.

Table 5.4

Reference Crude Oil Prices & US Exchange Rates 1986-2019					
	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)
1986 Jan	23.02	33.86			0.711
Feb	15.63	23.44			0.713
Mar	12.56	17.44			0.714
Apr	12.81	16.65			0.721
May	15.38	19.29			0.727
Jun	13.50	18.10 not available			0.720
Jul	11.49	14.83			0.724
Aug	15.20	18.86			0.720
Sep	14.96	20.05			0.721
Oct	14.89	19.35			0.720
Nov	15.17	19.71			0.722
Dec	16.08	20.70			0.725
1987 Jan	18.69	23.81	19.80	4.01	0.735
Feb	17.75	23.08	19.06	4.02	0.750
Mar	18.45	22.37	18.97	3.40	0.758
Apr	18.65	22.90	20.23	2.67	0.758
May	19.40	24.13	21.34	2.79	0.746
Jun	20.05	24.97	22.46	2.51	0.747
Jul	21.30	26.09	23.55	2.54	0.754
Aug	20.20	26.12	23.28	2.84	0.754
Sep	19.50	24.19	20.86	3.33	0.760
Oct	19.85	24.42	21.40	3.02	0.764
Nov	18.85	23.90	20.41	3.49	0.760
Dec	17.30	21.99	17.16	4.83	0.765
1988 Jan	17.11	20.55	15.47	5.08	0.778
Feb	16.75	20.08	14.80	5.28	0.789
Mar	16.20	18.76	13.42	5.34	0.801
Apr	17.85	20.11	16.18	3.93	0.810
May	17.40	20.51	17.49	3.02	0.809
Jun	16.60	19.44	15.18	4.26	0.821
Jul	15.50	17.40	13.64	3.76	0.828
Aug	15.55	17.74	14.27	3.47	0.817
Sep	14.45	16.98	13.23	3.75	0.815
Oct	13.80	15.57	10.76	4.81	0.830
Nov	14.00	15.59	11.14	4.45	0.821
Dec	16.30	17.16	12.74	4.42	0.836
1989 Jan	18.00	20.14	15.28	4.86	0.839
Feb	17.80	19.87	14.97	4.91	0.841
Mar	19.45	21.70	17.01	4.70	0.837
Apr	20.95	23.57	19.06	4.51	0.841
May	20.05	23.29	18.78	4.51	0.838
Jun	20.00	23.12	18.95	4.17	0.835
Jul	19.75	22.92	19.08	3.85	0.841
Aug	18.55	21.02	17.34	3.68	0.851
Sep	19.60	22.08	17.58	4.51	0.846
Oct	20.10	22.75	17.96	4.78	0.851
Nov	19.80	22.41	17.64	4.77	0.855
Dec	21.10	23.33	17.76	5.57	0.861
1990 Jan	22.65	25.36	18.85	6.51	0.854
Feb	22.10	25.92	19.21	6.71	0.836
Mar	20.40	23.68	17.62	6.05	0.848
Apr	18.60	21.10	13.93	7.18	0.859
May	18.45	21.03	13.75	7.28	0.851
Jun	16.85	18.84	12.69	6.15	0.853
Jul	18.65	20.35	15.03	5.31	0.864
Aug	27.15	29.97	24.77	5.20	0.874
Sep	33.70	37.71	31.74	5.98	0.863
Oct	35.90	40.73	33.76	6.96	0.862
Nov	32.30	36.61	27.50	9.12	0.860
Dec	27.15	30.39	20.84	9.55	0.862
1991 Jan	24.70	27.47	16.93	10.54	0.865
Feb	20.55	22.58	10.98	11.60	0.866
Mar	19.90	21.75	12.33	9.42	0.868
Apr	20.80	22.81	12.41	10.40	0.867
May	21.25	23.21	13.82	9.39	0.870
Jun	20.20	21.93	14.20	7.73	0.874
Jul	21.42	23.48	16.63	6.86	0.870
Aug	21.69	23.60	15.90	7.70	0.874
Sep	21.85	23.48	16.58	6.90	0.880
Oct	23.25	24.97	15.89	9.09	0.887
Nov	22.60	24.13	15.51	8.62	0.885
Dec	19.55	21.24	12.51	8.72	0.873

Table 5.4

Reference Crude Oil Prices & US Exchange Rates 1986-2019					
	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)
1992 Jan	18.80	20.36	13.20	7.16	0.865
Feb	19.00	21.01	14.83	6.18	0.846
Mar	18.95	21.03	14.90	6.13	0.839
Apr	20.25	22.58	16.66	5.92	0.842
May	21.00	23.84	17.96	5.88	0.834
Jun	22.35	25.45	19.17	6.28	0.836
Jul	21.75	24.63	18.30	6.33	0.839
Aug	21.30	24.09	17.99	6.10	0.840
Sep	21.90	25.72	19.01	6.71	0.818
Oct	21.70	25.95	18.94	7.01	0.803
Nov	20.35	24.47	17.29	7.18	0.789
Dec	19.40	23.11	15.70	7.41	0.786
1993 Jan	19.05	22.26	14.87	7.39	0.783
Feb	20.05	23.35	16.01	7.34	0.794
Mar	20.35	23.26	16.74	6.52	0.802
Apr	20.30	23.56	17.73	5.83	0.792
May	20.00	23.40	17.65	5.75	0.787
Jun	19.15	22.72	17.02	5.70	0.782
Jul	17.90	20.87	15.59	5.28	0.780
Aug	18.00	21.32	16.16	5.16	0.764
Sep	17.50	21.13	16.03	5.09	0.757
Oct	18.15	22.19	17.60	4.59	0.754
Nov	16.75	20.07	15.49	4.58	0.759
Dec	14.55	17.27	12.55	4.72	0.751
1994 Jan	15.00	17.50	13.06	4.44	0.759
Feb	14.75	17.63	12.99	4.64	0.745
Mar	14.65	18.20	13.79	4.41	0.733
Apr	16.30	20.94	16.99	3.95	0.723
May	17.85	23.16	19.38	3.78	0.724
Jun	19.05	24.97	21.19	3.78	0.723
Jul	19.65	25.73	21.82	3.90	0.723
Aug	18.35	23.96	19.94	4.02	0.726
Sep	17.45	22.24	18.01	4.23	0.739
Oct	17.65	22.47	18.55	3.92	0.741
Nov	18.10	23.30	19.64	3.66	0.733
Dec	17.15	22.33	19.16	3.17	0.720
1995 Jan	17.95	23.98	20.93	3.05	0.708
Feb	18.55	24.59	21.54	3.05	0.714
Mar	18.55	24.78	21.99	2.78	0.711
Apr	19.95	26.05	23.59	2.46	0.727
May	19.75	25.52	22.25	3.27	0.735
Jun	18.40	24.09	21.42	2.67	0.726
Jul	17.25	22.37	19.65	2.72	0.735
Aug	17.80	23.09	20.41	2.68	0.738
Sep	18.20	23.64	19.82	3.82	0.740
Oct	17.40	22.36	18.04	4.32	0.744
Nov	18.00	23.22	18.14	5.08	0.739
Dec	19.04	24.90	19.75	5.15	0.731
1996 Jan	18.70	24.42	19.48	4.94	0.732
Feb	18.78	24.85	20.11	4.74	0.727
Mar	21.18	28.00	23.95	4.05	0.733
Apr	23.24	31.04	27.30	3.74	0.736
May	21.09	28.26	24.94	3.32	0.731
Jun	20.43	27.14	24.14	3.00	0.732
Jul	21.31	28.34	25.13	3.21	0.730
Aug	21.90	29.39	25.93	3.46	0.729
Sep	23.88	32.06	28.45	3.61	0.730
Oct	24.90	32.99	28.34	4.65	0.740
Nov	23.55	30.78	25.26	5.52	0.747
Dec	25.12	33.45	27.31	6.14	0.734
1997 Jan	25.18	33.25	27.18	6.07	0.742
Feb	22.17	29.38	23.42	5.96	0.738
Mar	20.97	28.05	21.93	6.12	0.729
Apr	19.73	26.74	20.29	6.45	0.717
May	20.87	28.06	21.25	6.81	0.724
Jun	19.22	25.73	19.33	6.40	0.723
Jul	19.66	26.12	20.21	5.91	0.726
Aug	19.95	26.75	21.27	5.48	0.719
Sep	19.78	26.44	20.79	5.65	0.721
Oct	21.28	28.52	21.95	6.57	0.721
Nov	20.22	27.54	20.70	6.84	0.708
Dec	18.32	25.09	16.30	8.79	0.701

Table 5.4

Reference Crude Oil Prices & US Exchange Rates 1986-2019					
	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)
1998 Jan	16.73	23.06	14.64	8.42	0.695
Feb	16.08	22.02	13.82	8.20	0.696
Mar	15.03	20.21	13.01	7.20	0.706
Apr	15.47	20.94	13.70	7.24	0.699
May	14.93	20.33	12.96	7.37	0.692
Jun	13.67	18.74	12.45	6.29	0.682
Jul	14.09	19.45	14.93	4.52	0.672
Aug	13.38	19.16	15.82	3.34	0.651
Sep	14.97	21.41	18.23	3.18	0.657
Oct	14.42	20.93	17.71	3.22	0.647
Nov	12.99	18.76	15.37	3.39	0.650
Dec	11.31	15.98	12.87	3.11	0.648
1999 Jan	12.49	17.61	14.88	2.73	0.658
Feb	12.02	16.75	15.27	1.48	0.668
Mar	14.68	20.91	19.41	1.50	0.659
Apr	17.30	24.39	20.17	4.22	0.672
May	17.77	24.57	20.32	4.25	0.684
Jun	17.92	24.73	20.59	4.15	0.681
Jul	20.10	28.40	24.41	3.99	0.672
Aug	21.28	30.33	27.00	3.33	0.670
Sep	23.79	34.01	31.45	2.56	0.677
Oct	22.67	32.54	27.60	4.94	0.677
Nov	24.77	35.68	28.42	7.26	0.681
Dec	26.10	38.31	30.64	7.67	0.679
2000 Jan	27.01	38.87	32.05	6.82	0.690
Feb	29.30	41.85	36.28	5.57	0.689
Mar	29.89	43.36	36.94	6.42	0.685
Apr	25.54	36.32	30.61	5.71	0.681
May	28.81	42.23	36.37	5.86	0.669
Jun	31.53	45.76	39.54	6.22	0.677
Jul	29.72	43.14	36.31	6.83	0.677
Aug	31.14	45.62	38.54	7.08	0.675
Sep	33.87	50.12	41.12	9.00	0.673
Oct	32.93	49.58	31.65	17.93	0.661
Nov	34.26	52.35	30.99	21.36	0.648
Dec	28.40	42.74	21.83	20.91	0.657
2001 Jan	29.26	43.55	25.45	18.10	0.665
Feb	29.64	44.28	26.52	17.76	0.657
Mar	27.27	41.03	25.55	15.48	0.642
Apr	27.62	41.60	26.12	15.48	0.642
May	28.66	42.74	26.68	16.06	0.649
Jun	27.58	42.21	26.20	16.01	0.656
Jul	26.43	40.47	29.28	11.19	0.653
Aug	27.31	41.39	35.52	5.87	0.649
Sep	25.69	39.49	25.08	14.41	0.638
Oct	22.21	33.87	18.65	15.22	0.636
Nov	19.67	30.16	17.53	12.63	0.628
Dec	19.40	29.32	18.24	11.08	0.634
2002 Jan	19.73	30.54	21.39	9.15	0.625
Feb	20.76	32.27	25.20	7.07	0.627
Mar	24.44	38.03	32.21	5.82	0.630
Apr	26.26	40.54	34.34	6.20	0.632
May	26.95	41.01	32.51	8.50	0.645
Jun	25.55	38.80	30.38	8.42	0.653
Jul	26.93	41.33	35.52	5.81	0.647
Aug	28.20	43.11	36.52	6.59	0.638
Sep	29.67	45.19	35.37	9.82	0.635
Oct	28.86	43.93	32.05	11.88	0.634
Nov	26.19	39.75	29.22	10.53	0.636
Dec	29.38	44.76	35.37	9.39	0.641
2003 Jan	32.70	49.87	40.95	8.92	0.649
Feb	35.73	53.71	41.84	11.87	0.661
Mar	33.16	49.26	36.57	12.69	0.678
Apr	28.14	41.59	29.69	11.90	0.686
May	28.07	39.61	31.10	8.51	0.722
Jun	30.52	42.16	33.45	8.71	0.739
Jul	30.70	42.10	31.24	10.86	0.724
Aug	31.60	43.24	33.13	10.11	0.716
Sep	28.31	37.44	27.55	9.89	0.734
Oct	30.35	38.47	27.96	10.51	0.757
Nov	31.06	39.38	27.10	12.28	0.762
Dec	32.14	40.82	30.54	10.28	0.762

Table 5.4

Reference Crude Oil Prices & US Exchange Rates 1986-2019						
	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)	
2004 Jan	34.22	43.17	34.05	9.12	0.772	
Feb	34.48	44.93	34.73	10.20	0.752	
Mar	36.72	48.71	36.02	12.69	0.753	
Apr	36.60	48.86	34.36	14.50	0.745	
May	40.28	52.50	39.71	12.79	0.726	
Jun	38.05	50.46	38.12	12.34	0.737	
Jul	40.81	52.23	41.57	10.66	0.756	
Aug	44.88	57.78	43.97	13.81	0.762	
Sep	45.94	58.74	40.34	18.40	0.777	
Oct	53.09	64.52	47.57	16.95	0.802	
Nov	48.48	57.61	34.46	23.16	0.836	
Dec	43.26	50.99	26.27	24.72	0.820	
2005 Jan	46.85	56.62	36.05	19.42	0.816	
Feb	48.05	60.09	35.26	23.70	0.807	
Mar	54.63	67.65	44.39	24.33	0.822	
Apr	53.22	66.25	38.34	26.90	0.809	
May	49.87	61.60	34.48	25.53	0.796	
Jun	56.42	69.43	47.33	20.09	0.806	
Jul	59.03	72.13	54.75	15.82	0.818	
Aug	64.99	78.73	58.14	19.99	0.831	
Sep	65.55	78.66	49.61	26.56	0.849	
Oct	62.27	75.24	48.89	24.95	0.849	
Nov	58.34	70.83	40.56	30.31	0.847	
Dec	59.45	67.45	38.06	29.18	0.861	
2006 Jan	65.54	71.81	45.16	26.65	0.864	
Feb	61.93	67.31	33.16	34.15	0.870	
Mar	62.97	67.77	42.86	24.90	0.864	
Apr	70.16	74.88	58.90	15.98	0.874	
May	70.96	80.91	63.67	17.24	0.901	
Jun	70.97	79.85	57.68	22.17	0.898	
Jul	74.46	85.62	65.36	20.27	0.886	
Aug	73.08	80.41	62.51	17.91	0.894	
Sep	63.90	71.21	46.35	24.85	0.896	
Oct	59.14	62.54	41.73	20.81	0.886	
Nov	59.40	62.97	44.33	18.64	0.880	
Dec	62.09	67.95	50.51	17.44	0.867	
2007 Jan	54.35	64.19	44.83	19.36	0.850	
Feb	59.39	68.50	51.79	16.70	0.854	
Mar	60.74	68.58	52.96	15.62	0.856	
Apr	64.04	71.52	49.83	21.69	0.882	
May	63.53	70.70	50.68	20.02	0.913	
Jun	67.53	73.57	50.15	23.43	0.939	
Jul	74.15	81.06	56.00	25.06	0.952	
Aug	72.36	78.91	56.06	22.85	0.945	
Sep	79.63	79.89	54.72	25.17	0.975	
Oct	85.66	80.47	53.06	27.41	1.025	
Nov	94.63	89.15	63.90	25.25	1.034	
Dec	91.74	89.63	50.04	39.59	0.997	
2008 Jan	92.93	94.48	69.35	23.66	0.989	
Feb	95.35	93.09	71.54	20.08	1.001	
Mar	105.42	104.94	89.22	14.65	0.998	
Apr	112.46	116.73	95.79	19.53	0.986	
May	125.46	125.04	104.07	19.60	1.001	
Jun	134.02	136.45	110.11	25.17	0.984	
Jul	133.48	138.04	116.26	20.26	0.987	
Aug	116.69	121.00	106.58	12.91	0.948	
Sep	103.76	106.50	88.76	16.12	0.945	
Oct	76.72	85.52	68.81	14.94	0.844	
Nov	57.44	63.19	45.73	15.74	0.821	
Dec	42.04	40.93	28.62	12.32	0.810	
2009 Jan	41.92	42.93	36.77	4.35	0.815	
Feb	39.26	45.56	39.50	4.34	0.803	
Mar	48.06	60.47	51.36	7.06	0.791	
Apr	49.95	59.95	53.49	4.60	0.817	
May	59.31	64.33	59.71	3.20	0.869	
Jun	69.70	73.42	68.92	2.83	0.888	
Jul	64.29	68.20	60.98	5.54	0.891	
Aug	71.14	73.80	65.83	6.48	0.919	
Sep	69.47	72.50	64.44	6.62	0.924	
Oct	75.82	76.93	68.88	6.50	0.948	
Nov	78.14	78.30	68.94	7.91	0.944	
Dec	74.60	74.46	65.14	7.94	0.948	

Table 5.4

Reference Crude Oil Prices & US Exchange Rates 1986-2019						
	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)	
2010 Jan	78.40	78.66	72.27	6.40	0.959	
Feb	76.45	80.13	71.80	8.33	0.946	
Mar	81.29	81.42	73.55	7.87	0.978	
Apr	84.58	82.41	72.40	10.01	0.995	
May	74.12	70.72	59.76	10.96	0.962	
Jun	75.40	72.41	64.71	7.70	0.963	
Jul	76.38	74.52	67.01	7.50	0.959	
Aug	76.67	75.92	64.46	11.46	0.960	
Sep	75.55	72.84	57.25	15.59	0.968	
Oct	81.93	74.77	57.71	17.06	0.982	
Nov	84.31	80.64	70.42	10.21	0.987	
Dec	89.23	85.57	75.44	10.13	0.992	
2011 Jan	89.58	83.44	70.73	12.72	1.006	
Feb	89.53	83.55	62.60	20.94	1.013	
Mar	102.98	96.93	77.25	19.68	1.024	
Apr	110.04	110.72	85.87	24.86	1.044	
May	101.36	100.89	82.87	18.03	1.033	
Jun	96.29	97.60	77.54	20.06	1.024	
Jul	97.31	95.22	74.79	20.43	1.047	
Aug	86.34	88.15	65.34	22.81	1.017	
Sep	85.61	91.85	71.76	20.09	0.997	
Oct	86.43	93.11	78.02	15.09	0.981	
Nov	97.16	101.13	89.54	11.59	0.975	
Dec	98.58	97.81	88.89	8.93	0.977	
2012 Jan	100.32	96.63	87.58	9.05	0.987	
Feb	102.26	94.47	82.72	11.75	1.003	
Mar	106.21	85.59	74.52	11.07	1.006	
Apr	103.35	83.94	69.86	14.08	1.007	
May	94.72	87.21	75.81	11.40	0.990	
Jun	82.41	80.69	68.20	12.49	0.973	
Jul	87.93	75.81	65.08	10.73	0.986	
Aug	94.16	86.58	68.46	18.12	1.008	
Sep	94.56	90.60	76.44	14.16	1.022	
Oct	89.57	91.95	78.81	13.13	1.013	
Nov	86.73	85.79	72.22	13.57	1.003	
Dec	88.25	74.23	57.25	16.98	1.011	
2013 Jan	94.83	87.40	61.60	25.80	1.008	
Feb	95.32	88.00	58.95	29.05	0.990	
Mar	92.96	89.09	68.35	20.75	0.976	
Apr	92.07	90.76	70.12	20.63	0.982	
May	94.80	95.16	82.56	12.60	0.981	
Jun	95.80	91.73	79.28	12.45	0.969	
Jul	104.70	105.53	95.46	10.07	0.961	
Aug	106.54	105.71	95.70	10.01	0.961	
Sep	106.24	102.82	88.29	14.53	0.967	
Oct	100.55	94.14	74.01	20.12	0.965	
Nov	93.93	81.31	64.35	16.96	0.953	
Dec	97.89	83.38	64.40	18.97	0.940	
2014 Jan	94.86	89.28	71.88	17.40	0.914	
Feb	100.68	105.73	88.29	17.44	0.905	
Mar	100.51	104.19	86.87	17.33	0.900	
Apr	102.03	102.91	85.81	17.10	0.910	
May	101.79	104.05	83.01	21.04	0.918	
Jun	105.15	106.56	89.62	16.94	0.923	
Jul	102.39	101.83	84.98	16.84	0.931	
Aug	96.04	93.34	77.00	16.34	0.915	
Sep	93.03	93.15	81.87	11.27	0.908	
Oct	84.34	87.37	79.16	8.21	0.892	
Nov	75.81	76.57	71.19	5.38	0.883	
Dec	59.29	55.54	49.72	5.83	0.867	
2015 Jan	47.33	44.95	36.89	8.06	0.825	
Feb	50.72	51.92	45.57	6.36	0.800	
Mar	47.85	52.36	43.90	8.46	0.792	
Apr	54.63	61.89	49.67	12.22	0.811	
May	59.37	71.82	57.87	13.95	0.821	
Jun	59.83	76.48	63.31	13.18	0.809	
Jul	50.93	65.57	55.73	9.84	0.777	
Aug	42.89	52.75	36.34	16.41	0.761	
Sep	45.47	54.09	37.70	16.39	0.754	
Oct	46.29	58.67	42.78	15.89	0.765	
Nov	42.92	55.03	36.93	18.10	0.753	
Dec	37.33	47.64	31.12	16.52	0.730	

Table 5.4

**Reference Crude Oil Prices & US Exchange Rates
1986-2019**

	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)
2016 Jan	31.78	39.74	25.58	14.16	0.703
Feb	30.62	37.30	22.82	14.49	0.725
Mar	37.96	48.01	32.79	15.22	0.756
Apr	41.12	50.02	35.76	14.26	0.780
May	46.80	57.22	41.61	15.61	0.773
Jun	48.85	62.12	47.62	14.50	0.775
Jul	44.80	56.48	42.65	13.83	0.766
Aug	44.80	53.17	40.79	12.38	0.770
Sep	45.21	57.74	40.46	17.28	0.763
Oct	49.94	63.53	47.60	15.93	0.755
Nov	45.76	57.53	42.65	14.88	0.744
Dec	52.17	64.53	49.23	15.30	0.750
2017 Jan	52.61	64.12	49.05	15.07	0.758
Feb	53.46	65.77	51.53	14.24	0.763
Mar	49.67	62.51	47.61	14.90	0.747
Apr	51.12	64.34	50.44	13.90	0.744
May	48.54	63.94	52.13	11.81	0.735
Jun	45.20	57.18	47.06	10.12	0.752
Jul	46.68	55.16	46.31	8.85	0.788
Aug	48.06	60.47	48.70	11.77	0.793
Sep	49.88	57.34	49.48	7.86	0.814
Oct	51.69	64.55	51.58	12.97	0.793
Nov	56.54	71.62	58.32	13.30	0.783
Dec	57.95	72.28	55.92	16.36	0.783
2018 Jan	63.66	66.64	51.02	15.63	0.805
Feb	62.18	70.66	49.56	21.10	0.795
Mar	62.87	73.15	50.56	22.59	0.773
Apr	66.33	79.62	51.55	28.08	0.785
May	69.98	80.78	69.60	11.18	0.777
Jun	67.32	78.75	69.80	8.95	0.762
Jul	70.58	81.20	69.22	11.98	0.762
Aug	67.85	77.23	65.30	11.93	0.767
Sep	70.07	69.67	53.01	16.66	0.767
Oct	70.76	64.75	49.58	15.17	0.769
Nov	56.60	29.23	12.95	16.28	0.758
Dec	48.68	16.29	7.59	8.70	0.744
2019 Jan	51.55	51.04	48.62	2.41	0.752
Feb	54.98	65.32	60.64	4.67	0.757
Mar	58.17	71.22	64.03	7.19	0.7481
Apr	63.87	78.03	71.27	6.76	0.7475

Table 5.4

**Reference Crude Oil Prices & US Exchange Rates
1986-2019**

	West Texas Intermediate on NYMEX - Cushing (\$US/Bbl) 825/0.5%*	Canadian Par at Edmonton (\$Cdn/Bbl) 825/0.5%**	WCS @ Hardisty (\$Cdn/Bbl)**	Canadian Light/Heavy Differential	Exchange Rate (\$US/\$Cdn)
1986	15.06	20.19			0.720
1987	19.17	24.00	20.71	3.29	0.754
1988	15.96	18.32	14.02	4.30	0.812
1989	19.60	22.18	17.62	4.56	0.845
1990	24.49	27.64	20.81	6.83	0.857
1991	21.48	23.39	14.47	8.92	0.873
1992	20.56	23.52	16.99	6.53	0.827
1993	18.48	21.78	16.12	5.66	0.775
1994	17.16	21.87	17.88	3.99	0.732
1995	18.40	24.05	20.63	3.42	0.729
1996	22.00	29.23	25.03	4.20	0.733
1997	20.61	27.64	21.22	6.42	0.722
1998	14.39	20.08	14.63	5.45	0.675
1999	19.24	27.35	23.35	4.00	0.671
2000	30.20	44.33	34.35	9.98	0.679
2001	25.90	39.13	25.07	14.06	0.646
2002	26.08	39.91	31.67	8.24	0.637
2003	31.04	43.14	32.68	10.46	0.716
2004	41.40	52.54	37.60	14.94	0.770
2005	56.56	68.72	43.82	23.90	0.83
2006	66.22	72.77	51.02	21.75	0.88
2007	72.31	76.35	52.84	23.51	0.94
2008	99.65	102.16	82.90	17.92	0.94
2009	61.80	65.90	58.66	5.61	0.88
2010	79.53	77.50	67.23	10.27	0.97
2011	95.10	95.03	77.10	17.94	1.01
2012	94.21	86.12	73.08	13.05	1.00
2013	97.97	92.92	75.26	17.66	0.97
2014	92.99	93.38	79.12	14.26	0.906
2015	48.80	57.76	44.82	12.95	0.783
2016	43.32	53.95	39.13	14.82	0.755
2017	50.95	63.27	50.68	12.60	0.771
2018	64.74	65.66	49.98	15.69	0.772
2019 YTD	57.14	66.40	61.14	5.26	0.751

* Calendar average of NYMEX near-month futures price (US\$/bbl)

** Prior to 2014 was Bow River calendar average of refiners postings

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
1990 Jan				1.71
Feb				1.73
Mar				1.68
Apr				1.61
May				1.62
Jun	1.560	1.045		1.58
Jul	1.525	1.030		1.58
Aug	1.440	1.038		1.56
Sep	1.426	1.048		1.56
Oct	1.758	1.064		1.60
Nov	1.897	1.117		1.67
Dec	2.447	1.123		1.73
1991 Jan	1.962	1.131		1.73
Feb	1.498	1.122		1.68
Mar	1.361	0.973		1.57
Apr	1.388	0.906		1.50
May	1.369	0.854		1.46
Jun	1.335	0.875		1.37
Jul	1.192	0.954		1.32
Aug	1.221	0.951		1.25
Sep	1.342	0.972		1.25
Oct	1.737	0.969		1.29
Nov	2.017	0.976		1.40
Dec	1.995	1.033		1.43
1992 Jan	1.723	0.998		1.43
Feb	1.201	0.888		1.33
Mar	1.178	0.828		1.29
Apr	1.256	0.767		1.31
May	1.443	0.769		1.33
Jun	1.741	0.776		1.33
Jul	1.584	0.802		1.28
Aug	1.744	0.815		1.35
Sep	1.846	0.910		1.35
Oct	2.337	1.209		1.53
Nov	2.542	1.275		1.53
Dec	2.287	1.504		1.52
1993 Jan	2.069	2.329		1.54
Feb	1.650	1.440		1.50
Mar	1.860	1.868		1.55
Apr	2.090	1.809		1.61
May	2.710	2.618		1.68
Jun	2.250	1.373	1.476	1.65
Jul	2.070	1.497	1.160	1.57
Aug	2.100	1.271	1.402	1.58
Sep	2.430	1.526	1.157	1.64
Oct	2.150	1.430	1.360	1.61
Nov	2.130	1.780	2.033	1.92
Dec	2.340	2.323	1.736	2.17

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
1994 Jan	2.065	1.872	1.881	2.04
	Feb	2.342	1.716	2.15
	Mar	2.383	1.916	2.18
	Apr	2.055	1.596	1.92
	May	2.116	1.536	1.90
	Jun	1.904	1.408	1.75
	Jul	2.023	1.372	1.83
	Aug	1.843	1.328	1.75
	Sep	1.543	1.205	1.58
	Oct	1.448	1.098	1.42
	Nov	1.612	1.327	1.61
	Dec	1.655	1.356	1.65
1995 Jan	1.601	0.984	0.704	1.47
	Feb	1.410	0.725	1.32
	Mar	1.415	0.682	1.27
	Apr	1.560	0.761	1.26
	May	1.694	0.891	1.32
	Jun	1.742	0.954	1.34
	Jul	1.554	0.834	1.16
	Aug	1.429	0.753	1.13
	Sep	1.570	0.805	1.27
	Oct	1.618	0.850	1.32
	Nov	1.763	0.941	1.36
	Dec	2.141	0.954	1.47
1996 Jan	3.129	1.046	1.191	1.71
	Feb	2.426	1.150	1.70
	Mar	2.605	1.098	1.69
	Apr	2.794	1.011	1.59
	May	2.350	0.920	1.49
	Jun	2.342	0.826	1.44
	Jul	2.634	0.840	1.46
	Aug	2.357	0.899	1.46
	Sep	1.911	0.880	1.27
	Oct	1.889	0.903	1.35
	Nov	2.571	1.109	1.89
	Dec	3.611	1.594	2.49
1997 Jan	4.254	1.673	2.230	2.92
	Feb	2.868	2.113	2.40
	Mar	1.879	1.306	1.47
	Apr	1.846	1.110	1.52
	May	2.099	1.331	1.66
	Jun	2.331	1.271	1.74
	Jul	2.219	1.180	1.68
	Aug	2.163	1.116	1.66
	Sep	2.506	1.123	1.82
	Oct	3.189	1.318	2.18
	Nov	3.501	1.489	2.50
	Dec	2.682	1.274	2.06

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
1998 Jan	2.240	1.027	1.074	1.90
	Feb	2.036	1.070	1.82
	Mar	2.282	1.223	1.80
	Apr	2.334	1.328	1.94
	May	2.263	1.576	1.94
	Jun	2.065	1.319	1.80
	Jul	2.353	1.291	1.93
	Aug	1.953	1.366	1.88
	Sep	1.740	1.109	1.65
	Oct	2.130	1.487	1.96
	Nov	2.126	1.802	2.31
	Dec	2.136	1.907	2.34
1999 Jan	1.811	1.675	1.598	2.15
	Feb	1.746	1.605	2.00
	Mar	1.693	1.581	1.90
	Apr	1.847	1.575	2.00
	May	2.326	1.851	2.33
	Jun	2.201	1.953	2.34
	Jul	2.272	2.018	2.46
	Aug	2.572	1.971	2.74
	Sep	2.963	2.347	3.02
	Oct	2.607	2.312	2.87
	Nov	3.013	2.691	3.23
	Dec	2.169	2.270	2.68
2000 Jan	2.338	2.132	2.065	2.64
	Feb	2.563	2.121	2.76
	Mar	2.561	2.263	2.87
	Apr	2.926	2.600	3.27
	May	3.112	2.748	3.53
	Jun	4.238	3.230	4.57
	Jul	4.538	3.731	4.66
	Aug	3.748	3.306	4.15
	Sep	4.644	3.606	4.91
	Oct	5.304	4.613	5.83
	Nov	4.621	4.655	6.11
	Dec	6.320	5.350	8.73
2001 Jan	9.853	9.048	7.409	11.82
	Feb	6.940	7.326	8.49
	Mar	5.090	5.247	6.83
	Apr	5.442	5.128	6.95
	May	5.000	4.803	6.05
	Jun	3.922	3.729	4.68
	Jul	3.342	2.938	3.96
	Aug	3.190	2.451	3.72
	Sep	2.458	2.282	2.91
	Oct	1.888	1.675	2.53
	Nov	3.106	2.240	3.51
	Dec	2.539	2.347	3.37

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
2002 Jan	2.787	2.341	1.925	3.34
Feb	1.984	1.886	2.005	2.86
Mar	2.381	2.053	3.067	3.41
Apr	3.386	2.812	2.868	4.12
May	3.344	2.935	2.716	4.12
Jun	3.377	2.743	1.987	3.73
Jul	3.276	2.235	1.897	3.34
Aug	2.938	1.749	2.007	3.09
Sep	3.463	2.303	2.695	3.70
Oct	3.641	2.915	3.443	4.50
Nov	4.145	3.618	3.443	5.11
Dec	4.220	3.485	3.917	5.21
2003 Jan	5.043	4.098	4.536	6.21
Feb	5.500	4.692	6.159	7.20
Mar	8.701	6.775	5.887	9.43
Apr	5.107	4.821	4.655	6.20
May	5.358	4.708	4.986	6.04
Jun	5.988	5.079	4.988	6.25
Jul	5.621	5.051	4.234	5.88
Aug	4.700	4.207	4.369	5.36
Sep	5.016	4.417	4.177	5.47
Oct	4.520	4.223	4.171	5.19
Nov	4.486	4.178	4.028	4.85
Dec	4.725	4.237	4.936	5.39
2004 Jan	6.224	5.189	5.357	6.43
Feb	5.739	5.184	4.587	6.15
Mar	5.118	4.617	4.658	5.79
Apr	5.365	4.752	4.924	5.95
May	5.858	4.934	5.362	6.62
Jun	6.683	5.410	5.163	6.82
Jul	6.326	5.179	5.155	6.51
Aug	5.998	5.164	4.744	6.32
Sep	5.190	4.675	4.341	5.49
Oct	5.459	4.455	5.340	5.58
Nov	7.973	6.530	5.231	6.94
Dec	7.167	6.385	5.574	7.07
2005 Jan	6.567	5.651	5.373	6.35
Feb	6.360	5.263	5.327	6.26
Mar	6.239	5.345	6.153	6.64
Apr	7.149	6.143	6.295	7.16
May	7.007	6.175	5.579	6.87
Jun	6.326	5.515	5.912	6.69
Jul	7.158	6.012	6.138	7.25
Aug	7.452	6.171	7.832	7.86
Sep	10.136	7.984	9.497	9.98
Oct	13.001	9.819	10.605	12.00
Nov	14.070	10.875	7.768	11.40
Dec	11.471	9.204	10.865	11.12

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
2006 Jan	11.579	10.413	7.384	10.040
	Feb	8.363	7.372	7.783
	Mar	7.296	6.298	6.823
	Apr	7.246	5.690	6.518
	May	7.337	5.778	6.022
	Jun	5.955	5.032	5.579
	Jul	5.988	5.164	5.505
	Aug	6.779	5.425	6.159
	Sep	6.815	5.537	5.400
	Oct	4.401	3.988	4.640
	Nov	7.448	5.982	6.866
	Dec	8.011	7.003	7.435
2007 Jan	6.195	6.308	5.894	6.612
	Feb	6.999	6.139	7.192
	Mar	7.676	6.761	7.298
	Apr	7.438	6.391	7.108
	May	7.598	6.677	6.971
	Jun	7.525	6.694	6.549
	Jul	6.915	6.103	5.727
	Aug	5.993	5.075	5.073
	Sep	5.468	4.746	4.661
	Oct	6.384	5.244	5.231
	Nov	7.225	5.903	5.843
	Dec	7.494	6.542	6.169
2008 Jan	7.090	6.336	7.348	6.528
	Feb	7.960	7.209	7.087
	Mar	9.179	7.575	7.931
	Apr	9.440	8.381	8.553
	May	10.845	9.258	9.407
	Jun	11.785	10.195	10.346
	Jul	12.989	11.239	10.377
	Aug	9.155	8.702	7.751
	Sep	8.166	7.087	6.623
	Oct	7.625	6.026	6.612
	Nov	6.259	5.467	6.591
	Dec	6.585	5.785	6.707
2009 Jan	5.900	5.360	4.775	6.085
	Feb	4.490	4.600	4.915
	Mar	4.130	3.777	4.229
	Apr	3.959	3.271	3.596
	May	3.290	2.821	3.301
	Jun	3.530	3.147	3.132
	Jul	3.851	2.861	3.101
	Aug	3.506	2.820	2.869
	Sep	2.878	2.473	2.615
	Oct	3.890	2.830	3.586
	Nov	4.453	4.584	3.976
	Dec	4.461	4.500	4.510

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
2010 Jan	5.847	5.196	5.356	5.147
	Feb	5.459	5.312	4.936
	Mar	4.844	4.865	4.271
	Apr	3.898	3.952	3.438
	May	4.275	3.705	3.554
	Jun	4.074	3.561	3.681
	Jul	4.781	3.890	3.607
	Aug	4.687	3.611	3.427
	Sep	3.862	3.151	3.311
	Oct	3.916	3.471	3.079
	Nov	3.321	3.308	3.206
	Dec	4.331	3.742	3.522
2011 Jan	4.160	3.825	4.016	3.681
	Feb	4.427	3.916	3.586
	Mar	3.856	3.588	3.364
	Apr	4.347	3.711	3.480
	May	4.384	3.913	3.575
	Jun	4.350	3.941	3.702
	Jul	4.281	4.000	3.607
	Aug	4.375	3.849	3.501
	Sep	3.906	3.684	3.417
	Oct	3.803	3.585	3.343
	Nov	3.671	3.347	3.153
	Dec	3.455	3.477	3.079
2012 Jan	3.103	3.083	2.475	2.700
	Feb	2.671	2.456	2.246
	Mar	2.591	2.104	1.930
	Apr	2.239	1.797	1.719
	May	2.056	1.667	1.666
	Jun	2.548	1.998	1.846
	Jul	2.745	1.945	2.025
	Aug	3.062	2.379	2.162
	Sep	2.656	2.197	2.046
	Oct	2.928	2.509	2.489
	Nov	3.435	3.277	3.058
	Dec	3.732	3.447	3.143
2013 Jan	3.502	3.139	3.085	2.911
	Feb	3.320	3.017	2.837
	Mar	3.377	3.000	3.006
	Apr	3.923	3.376	3.311
	May	4.162	3.579	3.417
	Jun	4.115	3.505	3.343
	Jul	3.698	3.077	2.932
	Aug	3.553	2.658	2.499
	Sep	3.538	2.365	2.257
	Oct	3.494	2.504	2.626
	Nov	3.591	3.342	3.227
	Dec	3.792	3.203	3.396

Table 5.5

Reference Natural Gas Prices
1990-2019
(\$/MMBtu)

	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
2014 Jan	4.419	3.613	3.911	3.807
	Feb	5.146	3.998	5.484
	Mar	5.132	5.359	5.168
	Apr	4.466	4.235	4.440
	May	4.716	4.288	4.440
	Jun	4.510	4.214	4.398
	Jul	4.496	4.297	4.197
	Aug	3.779	3.691	3.828
	Sep	3.935	3.697	3.839
	Oct	3.970	3.665	3.765
	Nov	3.646	3.376	3.660
	Dec	4.233	3.689	3.575
2015 Jan	3.075	2.885	2.289	2.985
	Feb	2.943	2.205	2.647
	Mar	2.892	2.185	2.668
	Apr	2.662	2.119	2.426
	May	2.513	2.109	2.457
	Jun	2.841	2.235	2.489
	Jul	2.794	2.093	2.510
	Aug	2.832	2.204	2.700
	Sep	2.672	2.213	2.689
	Oct	2.573	2.132	2.531
	Nov	2.062	1.946	2.331
	Dec	2.185	1.891	2.236
2016 Jan	2.210	1.672	1.668	2.225
	Feb	2.176	1.662	1.919
	Mar	1.782	1.216	1.434
	Apr	1.878	0.981	1.171
	May	2.030	0.869	0.991
	Jun	1.978	1.035	1.297
	Jul	2.765	1.494	1.919
	Aug	2.710	1.753	1.919
	Sep	2.857	1.799	2.236
	Oct	2.982	1.976	2.542
	Nov	2.756	2.239	2.615
	Dec	3.114	2.134	2.900

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
2017 Jan	3.370	2.612	2.206	3.016
	2.830	2.180	1.938	2.521
	2.700	1.846	1.965	2.320
	3.080	1.942	2.10	2.468
	3.130	2.022	2.20	2.594
	2.920	2.195	1.90	2.521
	2.940	1.869	1.28	1.930
	2.890	1.710	1.38	1.814
	2.950	1.245	0.80	1.266
	2.900	1.253	0.586	1.171
	2.940	1.671	1.810	2.025
	2.760	1.691	1.591	1.919
2018 Jan	3.710	1.543	1.708	1.835
	2.650	1.649	1.643	1.856
	2.650	1.248	1.576	1.624
	2.770	1.175	1.123	1.329
	2.790	0.607	0.854	0.823
	2.920	0.606	0.775	0.791
	2.810	1.165	1.009	1.202
	2.940	1.069	0.682	0.991
	2.970	0.852	1.049	1.086
	3.220	1.116	1.029	1.276
	3.900	1.527	1.310	1.677
	4.200	1.717	1.201	1.782
2019 Jan	3.070	1.249	1.430	1.635
	2.660	1.493	2.456	2.215
	2.980	1.642	2.042	
	2.590	1.087	0.633	
		0.857		

Table 5.5

Reference Natural Gas Prices 1990-2019 (\$/MMBtu)				
	Henry Hub (\$US)*	AECO-C (\$US)**	AECO-C Cash (\$US)***	ADOE Reference Price(\$Cdn)
1991	1.535	0.976		1.438
1992	1.740	0.962		1.382
1993	2.154	1.772	1.475	1.668
1994	1.916	1.478	1.440	1.815
1995	1.625	0.845	0.865	1.308
1996	2.552	1.023	1.078	1.628
1997	2.628	1.359	1.301	1.968
1998	2.138	1.375	1.393	1.939
1999	2.268	1.987	1.968	2.477
2000	3.909	3.363	3.751	4.503
2001	4.398	4.101	3.526	5.402
2002	3.245	2.590	2.664	3.878
2003	5.397	4.707	4.760	6.123
2004	6.092	5.206	5.036	6.306
2005	8.578	7.013	7.279	8.297
2006	7.268	6.140	5.759	6.564
2007	6.909	6.049	5.990	6.203
2008	8.923	7.772	7.759	7.876
2009	4.028	3.587	3.469	3.826
2010	4.441	3.980	3.888	3.765
2011	4.085	3.736	3.678	3.457
2012	2.814	2.405	2.393	2.252
2013	3.672	3.064	3.082	2.980
2014	4.383	4.039	4.204	4.275
2015	2.670	2.185	2.109	2.556
2016	2.437	1.569	1.626	1.931
2017	2.951	1.853	1.647	2.130
2018	3.128	1.190	1.163	1.356
2019 YTD	2.825	1.266	1.640	1.925

*Effective Jan 1/17 Monthly Weighted Average (was average of last 3 days of near month contract)

**Weighted average of all deals completed in previous month for next month delivery

***Daily spot price averages

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Section 6

Demand/Consumption

Table

Canadian Consumption of Crude Oil & Products 1947 – Present	6.1
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Canadian Demand for Motor Gasoline, Diesel & Heavy Fuel Oil 1972 - Present	6.4
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Sources of Canadian Energy Consumption 1950 - Present	6.6

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Table 6.1

CANADIAN CONSUMPTION OF CRUDE OIL & PRODUCTS

1947 - 2018

Cubic Metres Per Day

	Refinery Crude Runs*	Product Imports	Product Exports	Apparent Consumption of Crude Oil & Products
1947	33 656	7 087	508	40 235
1948	37 948	9 646	922	46 672
1949	41 890	7 580	350	49 120
1950	47 518	8 804	16	56 306
1951	55 395	11 902		67 297
1952	60 228	10 100	563	69 765
1953	67 181	9 466		76 647
1954	73 798	8 253	186	81 865
1955	84 815	16 528	421	100 922
1956	98 572	15 790	1 093	113 269
1957	103 871	15 024	1 333	117 562
1958	104 679	12 757	533	116 903
1959	116 011	16 741	923	131 829
1960	121 696	15 646	1 385	135 957
1961	129 085	12 919	839	141 165
1962	134 809	13 085	1 898	145 996
1963	144 242	14 224	2 398	156 068
1964	148 534	19 011	3 783	163 762
1965	154 508	25 670	1 167	179 011
1966	165 492	25 973	1 156	190 309
1967	169 848	29 694	1 318	198 224
1968	180 353	32 313	2 021	210 645
1969	188 653	32 532	1 873	219 312
1970	202 986	31 269	2 554	231 701
1971	221 641	24 265	5 834	240 072
1972	243 450	22 280	14 822	250 908
1973	266 075	19 241	18 086	267 230
1974	281 215	13 181	17 212	277 184
1975	270 681	6 461	13 748	263 394
1976	271 173	5 767	9 282	267 658
1977	286 909	7 210	12 264	281 855
1978	288 666	7 943	20 642	275 967
1979	309 629	5 087	18 120	296 596
1980	300 960	6 888	20 118	287 730
1981	279 690	6 882	19 362	267 210
1982	239 402	7 273	14 402	232 273
1983	228 534	8 908	20 103	217 339
1984	229 468	14 442	22 113	221 797

Table 6.1

CANADIAN CONSUMPTION OF CRUDE OIL & PRODUCTS

1947 - 2018

Cubic Metres Per Day

	Refinery Crude Runs*	Product Imports	Product Exports	Apparent Consumption of Crude Oil & Products
1985	223 599	13 700	25 619	211 680
1986	218 613	18 703	23 424	213 892
1987	229 649	22 067	26 993	224 723
1988	241 175	24 453	36 902	228 726
1989	246 070	28 077	33 950	240 197
1990	251 785	24 085	38 288	237 582
1991	238 154	23 654	43 199	218 609
1992	231 792	23 614	37 896	217 510
1993	244 761	21 919	40 108	226 572
1994	251 207	20 108	37 454	233 861
1995	249 516	22 476	39 763	232 229
1996	261 370	22 964	46 665	237 670
1997	269 306	27 810	49 398	247 718
1998	271 778	28 588	46 083	254 284
1999	272 493	26 889	47 717	251 665
2000	280 674	25 282	48 220	257 736
2001	288 015	31 606	62 637	256 983
2002	295 982	27 440	67 346	256 075
2003	298 839	35 237	68 649	265 428
2004	311 202	38 774	71 014	278 962
2005	299 294	44 475	70 495	273 275
2006	291 773	46 125	67 107	270 792
2007	321 307	41 992	69 796	293 502
2008	308 673	50 183	70 081	288 775
2009	299 090	37 772	66 611	270 251
2010	305 349	35 524	66 638	274 236
2011	289 961	48 634	61 937	276 658
2012	297 920	34 046	74 496	257 470
2013	292 490	33 933	80 336	246 087
2014	283 014	34 253	73 125	244 143
2015	290 788	47 352	73 468	264 673
2016	294 713	52 388	68 960	278 141
2017	305 496	45 620	78 602	272 515
2018	298 391	47 752	70 847	275 295

*Includes condensate and pentanes plus and propane/butane/mixes

Note: Export/Import numbers above do not reflect total foreign trade transactions

Table 6.2

SALES OF NATURAL GAS IN CANADA

1947 - 2018

Million Cubic Metres Per Day

	Residential	Commercial	Industrial	Direct*	Total
1947	1.5	0.7	0.9		3.1
1948	1.6	0.8	0.9		3.3
1949	1.7	0.8	1.1		3.6
1950	2.1	1.0	1.4		4.5
1951	2.2	1.1	1.7		5.0
1952	2.2	1.2	1.8		5.2
1953	2.4	1.2	2.1		5.7
1954	2.9	1.5	2.9		7.3
1955	3.6	1.8	3.9		9.3
1956	4.0	2.0	5.1		11.1
1957	4.6	2.3	5.5		12.4
1958	5.7	2.8	7.2		15.7
1959	7.4	3.3	10.8		21.5
1960	8.4	3.9	12.6		24.9
1961	9.3	4.4	15.1		28.8
1962	10.5	4.9	16.6		32.0
1963	11.3	5.4	18.3		35.0
1964	12.7	6.5	19.9		39.1
1965	14.5	7.8	22.1		44.4
1966	15.2	9.0	25.2		49.4
1967	15.8	10.2	27.9		53.9
1968	16.6	11.1	31.5		59.2
1969	18.0	13.1	34.5		65.6
1970	18.8	14.4	38.0		71.2
1971	19.5	16.1	42.2		77.8
1972	21.7	18.7	48.2		88.6
1973	21.1	19.1	55.2		95.4
1974	22.7	21.4	57.9		102.0
1975	23.2	22.2	57.4		102.8
1976	24.2	22.8	59.1		106.1
1977	24.4	23.1	63.6	2.9	114.0
1978	25.5	24.7	64.1	2.7	117.0
1979	26.3	25.4	67.5	2.8	122.0
1980	26.3	27.6	64.3	5.0	123.2
1981	26.8	27.7	62.9	0.7	118.1
1982	33.6	27.3	59.3	0.9	121.1
1983	31.2	26.0	62.9	0.6	120.7
1984	33.1	27.5	69.3	0.4	130.3
1985	35.0	29.2	73.1	0.1	137.4
1986	33.4	28.4	69.9	2.1	133.8
1987	31.4	26.7	67.9	5.0	131.0
1988	34.9	29.3	69.7	10.0	143.9
1989	38.0	31.5	74.8	11.5	155.8
1990	37.0	30.7	70.6	10.9	149.2
1991	37.4	30.8	68.4	13.2	149.8
1992	38.9	31.3	67.2	17.9	155.3
1993	40.7	31.6	68.7	22.2	163.2
1994	42.6	31.6	67.5	25.4	167.1
1995	43.3	31.7	67.3	31.9	174.2
1996	47.7	34.3	67.0	34.3	183.3
1997	45.2	31.9	66.7	40.8	184.6
1998	38.7	26.6	59.4	50.7	175.4
1999	39.2	28.1	56.1	58.1	181.5
2000	47.3	35.3	60.4	55.8	198.8

Table 6.2

SALES OF NATURAL GAS IN CANADA

1947 - 2018

Million Cubic Metres Per Day

	Residential	Commercial	Industrial	Direct*	Total
2001	43.3	33.8	51.6	54.4	183.1
2002	46.6	35.9	48.2	61.7	192.4
2003	48.5	36.9	53.4	61.0	199.8
2004	47.0	34.9	53.5	61.6	196.9
2005	46.7	34.3	51.7	59.1	191.8
2006	44.6	32.8	54.4	58.4	190.1
2007	37.4	22.9	58.8	82.7	201.9
2008	38.2	26.1	62.8	66.8	193.9
2009	39.3	26.8	66.5	73.8	206.3
2010	37.6	25.0	68.5	73.5	204.6
2011	40.8	26.6	74.0	76.3	217.7
2012	39.9	26.0	83.7	75.0	224.6
2013	43.8	28.5	87.2	73.7	233.3
2014	51.4	37.5	80.2	72.0	241.2
2015	48.1	35.7	84.4	72.4	240.6
2016	43.0	35.9	161.7	na	240.6
2017	45.3	37.9	173.7	na	256.8
2018	48.4	40.1	192.0	na	280.5

*Direct sales volumes not available prior to 1977 and no longer available after 2015. Included in Industrial.

NATURAL GAS SALES IN CANADA BY PROVINCE

1960 - 2018

Million Cubic Metres at 101.325 kPa and 15°C

	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	NWT	Canada
1960		2	345	2 942	327	862	3 876	731		9 085
1961		2	686	3 545	467	1 004	3 988	810		10 502
1962		2	655	4 223	525	1 077	4 275	915		11 672
1963		2	769	4 748	643	1 186	4 439	1 005		12 792
1964		2	940	5 503	787	1 298	4 556	1 207		14 293
1965		2	885	6 209	935	1 620	4 936	1 646		16 233
1966		2	921	6 801	1 066	1 842	5 236	2 135		18 003
1967		2	1 000	7 909	1 182	1 942	5 530	2 127		19 692
1968		2	1 251	8 728	1 282	2 295	5 692	2 450		21 700
1969		2	1 439	9 956	1 343	2 233	6 425	2 531		23 929
1970		2	1 436	11 501	1 460	2 257	6 592	2 742		25 990
1971		2	1 569	13 018	1 555	2 326	7 037	2 859		28 366
1972		2	1 649	15 654	1 697	2 493	7 615	3 348		32 458
1973		1	1 819	16 405	1 767	2 632	7 962	4 240		34 826
1974		2	2 272	18 447	1 810	2 623	8 425	3 652		37 231
1975		2	2 334	18 059	1 708	2 609	8 712	4 102		37 526
1976		2	2 277	19 178	1 725	2 671	9 079	3 903		38 835
1977		2	2 309	18 823	1 719	2 884	11 000	3 810		40 547
1978		2	2 460	18 674	1 818	2 791	12 062	3 938		41 745
1979		2	2 765	18 915	1 928	2 830	12 868	4 186		43 494
1980		2	2 921	18 641	1 783	2 762	12 819	4 327		43 255
1981		2	3 191	18 489	1 697	2 618	12 767	4 121		42 885
1982		2	2 970	17 800	1 817	2 786	14 061	4 453		43 889
1983		2	3 589	17 778	1 721	2 623	13 178	4 402		43 293
1984		1	4 206	18 991	1 776	2 798	15 066	4 720		47 558
1985		1	4 872	19 599	1 852	2 838	15 964	4 996		50 122
1986		1	4 939	19 245	1 769	2 553	15 030	4 515		48 052
1987		1	5 008	19 478	1 551	2 381	14 516	4 855		47 790
1988			5 195	21 149	1 827	2 793	16 288	5 429		52 681
1989			5 372	22 398	1 879	2 761	17 795	6 663		56 868
1990			5 588	20 689	1 948	2 792	17 420	6 034		54 471
1991			5 452	21 064	1 847	3 146	17 146	6 016		54 671
1992			5 693	22 203	1 779	3 664	17 185	6 342		56 866
1993			5 745	22 685	1 824	4 225	17 776	7 304		59 559
1994			5 656	23 340	1 799	4 377	18 465	7 362		60 999
1995			5 996	24 150	1 896	4 470	19 365	7 724		63 601
1996			6 292	25 253	2 028	4 753	21 004	7 764		67 094
1997			6 408	25 878	1 900	4 697	20 786	7 646		67 315
1998			6 032	23 486	1 797	4 786	20 302	7 577		63 980
1999			6 165	25 304	2 016	4 793	20 297	7 686		66 261
2000			6 372	27 450	2 161	5 218	22 887	8 466		72 554
2001	3	42	5 258	25 488	2 045	4 923	20 633	8 406		66 798
2002	544	464	5 829	26 837	2 223	5 143	21 806	7 376		70 222
2003	55	576	5 600	27 854	2 155	5 708	24 044	6 960		72 952
2004	44	624	5 740	26 844	2 177	5 639	24 188	7 096		72 352
2005	74	665	5 368	26 710	2 075	5 490	22 739	7 013		70 134
2006	137	797	5 658	25 254	1 970	5 428	23 534	6 722		69 500
2007	333	736	6 472	26 720	2 117	5 495	27 336	7 495		76 704
2008	428	778	5 423	25 811	2 196	5 647	28 857	7 192		76 332
2009	550	946	5 339	24 610	2 124	5 568	29 251	6 906		75 294
2010	755	1 023	5 362	24 265	1 886	5 606	29 596	6 169		74 661
2011	841	1 102	5 526	25 921	2 017	5 775	31 924	6 361		79 467
2012	763	1 065	5 500	25 087	1 903	6 166	35 175	6 308		81 967
2013	546	1 122	5 772	26 561	2 205	6 515	36 264	6 155		85 140
2014	613	1 193	5 988	27 310	2 170	6 738	38 060	5 958		88 029
2015	640	1 151	5 930	26 053	1 953	7 514	38 884	5 705		87 832
2016	622	1 150	5 987	24 177	2 025	5 144	41 340	7 263	121	87 829
2017	703	958	6 109	22 165	2 168	7 436	46 407	7 777	11	93 735
2018	682	901	6 250	24 470	2 154	7 716	53 023	7 159	34	102 389

* NOTE: Direct sales not included prior to 1987.

CANADIAN DEMAND FOR MOTOR GASOLINE, DIESEL HEAVY FUEL OIL
1972 - 2018
Cubic Metres per Day

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
MOTOR GASOLINE:																
Atlantic	6 688	7 676	7 787	8 131	8 077	8 264	8 575	8 934	8 912	8 463	7 899	7 512	7 509	7 458	7 417	7 594
Quebec	19 348	21 526	21 645	23 031	23 255	23 354	23 755	24 033	23 800	22 369	19 416	18 589	18 516	18 447	18 679	18 803
Ontario	29 412	32 267	32 988	33 816	34 547	34 458	35 430	36 470	36 484	35 273	32 829	32 164	32 297	32 429	32 888	33 547
Manitoba	3 764	4 145	4 233	4 041	4 230	4 381	4 531	4 578	4 399	4 226	4 110	4 032	4 043	4 017	3 966	3 937
Alberta	7 828	8 564	9 230	9 983	10 644	11 333	12 245	13 364	13 781	13 922	13 138	12 737	12 124	12 084	11 848	12 120
British Columbia	8 272	9 123	9 763	9 833	9 960	10 412	11 059	11 522	12 048	12 003	11 054	10 409	10 187	9 861	9 863	9 684
Saskatchewan	4 593	4 886	5 041	5 538	5 623	5 658	5 610	5 737	5 626	5 480	5 219	5 227	5 119	5 105	5 116	5 042
NWT/Yukon/Nunavut	219	234	245	265	246	251	260	254	238	260	250	251	276	271	268	298
Canada	80 124	88 421	90 932	94 639	96 582	98 111	101 465	104 891	105 288	101 996	93 916	90 922	90 071	89 673	90 045	91 025
DIESEL FUEL:																
Atlantic	3 311	3 421	3 749	3 701	3 900	3 760	3 605	4 009	3 971	3 951	3 741	3 901	4 120	4 077	3 995	4 270
Quebec	4 139	5 404	5 781	5 526	6 151	6 771	6 966	7 807	7 311	7 315	5 834	5 813	6 559	6 566	6 911	7 363
Ontario	5 296	6 108	6 811	6 960	7 311	7 912	8 373	9 241	9 147	9 262	8 869	9 773	10 487	10 580	10 835	11 462
Manitoba	1 662	1 768	1 898	1 808	1 893	1 833	2 003	2 083	2 099	2 098	1 989	2 193	2 178	2 306	2 275	2 413
Alberta	3 077	3 248	3 699	4 430	4 884	5 444	6 049	7 119	8 041	7 701	7 196	7 029	7 277	7 795	7 397	7 483
British Columbia	4 126	4 641	4 992	4 443	4 840	5 182	5 668	6 392	6 954	6 674	5 983	5 927	5 998	6 368	5 988	6 533
Saskatchewan	1 891	1 977	2 156	2 387	2 368	2 529	2 730	2 955	2 964	2 878	2 846	3 079	3 076	3 232	3 162	3 219
NWT/Yukon/Nunavut	624	611	628	644	564	586	551	595	602	628	636	526	785	751	609	493
Canada	23 502	26 567	29 086	29 255	31 346	33 431	35 393	39 606	40 487	39 878	36 458	37 716	39 696	40 924	40 562	42 743
HEAVY FUEL OIL:																
Atlantic	12 812	12 770	11 087	11 573	12 049	12 635	13 237	13 687	13 380	9 598	8 728	5 986	6 371	6 112	6 488	8 414
Quebec	19 031	19 574	18 678	16 912	16 980	15 859	14 705	16 035	16 039	14 112	11 813	9 102	7 579	5 386	5 177	4 444
Ontario	11 576	11 900	11 631	9 624	10 924	12 345	11 084	9 644	7 742	7 037	3 917	3 935	3 517	2 314	3 186	3 341
Manitoba	377	397	571	585	484	434	408	360	348	348	481	380	227	219	200	180
Alberta	284	345	304	504	65	53	44	59	38	55	75	103	83	68	105	92
British Columbia	3 741	4 061	4 550	3 602	3 970	3 857	3 156	3 698	3 708	4 331	3 664	2 352	1 843	1 822	2 051	2 227
Saskatchewan	270	233	118	94	52	29	26	40	55	44	47	57	99	96	90	92
NWT/Yukon/Nunavut	61	71	65	75	68	54	55	62	59	52	57	70	56	59	52	44
Canada	48 152	49 352	47 003	42 968	44 591	45 264	42 715	43 585	41 370	35 577	28 782	21 984	19 776	16 077	17 349	18 834

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CANADIAN DEMAND FOR MOTOR GASOLINE, DIESEL HEAVY FUEL OIL
1972 - 2018
Cubic Metres per Day

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MOTOR GASOLINE:																	
Atlantic	7 899	7 845	7 946	7 589	7 669	7 832	7 978	7 933	7 956	7 951	8 116	8 407	8 284	8 281	8 480	8 608	8 654
Quebec	19 500	20 303	19 857	18 822	19 433	20 081	20 636	20 737	21 087	21 114	21 642	22 031	21 876	22 111	22 828	23 484	23 711
Ontario	34 798	35 536	34 271	33 485	33 545	34 195	34 970	34 996	35 312	36 592	37 658	39 308	39 873	40 319	41 459	42 210	43 217
Manitoba	3 844	3 836	3 715	3 827	3 820	3 786	3 830	3 918	3 824	3 765	3 819	3 922	3 895	3 871	3 922	3 990	4 101
Alberta	12 606	12 642	12 611	11 515	11 634	11 649	12 132	12 055	12 269	12 885	13 443	13 618	13 535	14 492	14 528	14 213	14 538
British Columbia	9 859	10 205	9 773	9 934	10 201	10 799	11 258	11 476	11 681	12 313	12 850	12 789	12 635	12 425	12 430	12 650	13 367
Saskatchewan	4 671	4 721	4 550	4 497	4 515	4 564	4 759	4 647	4 725	4 531	4 583	4 643	4 567	4 572	4 615	4 821	4 776
NWT/Yukon/Nunavut	274	257	271	258	262	305	292	274	284	285	260	254	253	261	230	240	221
Canada	93 452	95 346	92 994	89 928	91 079	93 210	95 855	96 035	97 138	99 435	102 371	104 971	104 918	106 333	108 492	110 216	112 584
DIESEL FUEL:																	
Atlantic	4 576	4 711	4 874	4 683	4 665	4 772	4 975	5 028	5 129	5 414	5 689	6 290	6 754	6 582	6 609	6 710	7 111
Quebec	8 211	8 760	8 136	7 691	7 798	8 208	9 061	9 350	9 053	9 732	10 238	10 487	10 427	9 568	9 715	10 551	11 171
Ontario	12 236	12 292	12 000	11 094	11 237	11 829	12 676	13 368	14 076	15 074	15 545	16 807	18 084	17 246	17 531	17 771	19 081
Manitoba	2 393	2 370	2 455	2 129	2 095	2 177	2 326	2 514	2 578	2 437	2 292	2 241	2 313	2 275	2 218	2 425	2 655
Alberta	7 355	7 698	7 673	7 095	6 848	7 574	8 768	9 239	9 969	11 486	11 711	11 832	12 799	13 162	12 188	13 495	14 365
British Columbia	7 036	7 282	7 024	6 936	7 046	7 171	7 669	8 299	8 577	8 756	8 446	8 586	8 606	8 634	8 796	8 991	9 490
Saskatchewan	3 303	3 359	3 297	3 315	3 268	3 490	4 032	4 113	4 375	4 646	4 069	4 116	4 260	3 740	3 886	4 199	4 384
NWT/Yukon/Nunavut	511	633	642	510	434	475	543	599	820	757	811	355	718	956	819	822	863
Canada	45 111	46 472	45 458	42 943	42 958	45 221	50 050	52 510	54 577	58 302	58 800	60 713	63 961	62 164	61 761	64 963	69 121
HEAVY FUEL OIL:																	
Atlantic	9 503	12 032	10 452	9 681	10 994	9 525	7 531	8 138	6 949	9 175	10 476	9 585	9 817	8 694	5 878	8 514	7 449
Quebec	5 969	7 594	7 345	5 810	5 242	4 854	4 660	3 923	4 578	5 068	7 207	6 002	6 333	7 631	7 035	9 011	9 180
Ontario	3 857	4 147	5 027	2 877	3 356	3 396	3 515	3 122	3 156	2 503	3 429	2 546	2 396	2 986	2 129	2 725	2 933
Manitoba	176	168	177	201	185	218	211	115	142	248	265	217	209	251	225	183	186
Alberta	94	104	196	147	183	93	157	425	319	170	134	150	90	85	83	158	209
British Columbia	2 518	2 797	3 108	3 081	2 311	2 105	1 981	1 660	1 414	1 513	1 645	1 807	1 833	2 461	2 400	2 982	3 072
Saskatchewan	88	106	114	81	76	45	100	103	121	166	185	200	202	240	361	507	374
NWT/Yukon/Nunavut	21	1	20	28	100	1	1	1	1	1	0.4000	0.1315	-	-	-	-	-
Canada	22 227	26 949	26 439	21 906	22 446	20 238	18 156	17 489	16 680	18 845	23 340	20 506	20 879	22 348	18 112	24 080	23 402

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CANADIAN DEMAND FOR MOTOR GASOLINE, DIESEL HEAVY FUEL OIL
1972 - 2018
Cubic Metres per Day

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
MOTOR GASOLINE:														
Atlantic	8 563	8 551	8 698	9 054	8 286	8 650	9 851	10 119	8 909	8 521	9 762	10 680	10 183	10 763
Quebec	23 557	23 311	24 620	23 637	24 108	24 247	25 221	24 291	23 495	23 809	24 336	26 323	26 490	26 294
Ontario	43 443	42 890	43 512	43 193	44 805	47 918	45 805	42 538	44 737	44 691	45 210	45 224	45 163	43 475
Manitoba	3 853	4 099	4 262	4 006	4 069	4 484	4 459	5 053	5 387	5 116	4 899	4 847	5 289	5 682
Alberta	14 748	15 324	15 876	15 631	15 179	15 711	17 228	15 897	17 463	20 753	17 565	18 572	18 605	18 914
British Columbia	12 707	12 552	12 685	12 376	12 702	12 865	12 436	12 308	12 846	13 481	13 621	14 960	15 215	15 316
Saskatchewan	4 810	5 246	5 781	6 227	6 629	7 015	6 868	7 287	7 595	7 791	7 607	7 833	7 755	6 303
NWT/Yukon/Nunavut	207	170	171	175	164	167	200	171	na	na	104	108	116	101
Canada	111 889	112 144	115 604	114 300	115 943	121 057	122 068	117 665	120 571	124 261	123 105	128 547	128 817	126 848
DIESEL FUEL:														
Atlantic	7 065	6 618	6 617	5 788	5 861	6 669	7 718	5 812	5 273	2 810	na	na	na	na
Quebec	11 160	11 592	12 002	13 052	12 766	12 783	14 462	13 720	12 819	12 802	13 788	13 500	14 088	na
Ontario	20 032	18 935	19 019	19 101	17 822	19 818	19 572	19 181	20 017	20 399	19 468	19 993	20 930	na
Manitoba	2 935	2 741	2 956	3 135	2 907	2 958	3 526	3 632	3 470	3 628	3 604	3 758	4 140	4 148
Alberta	15 356	17 036	18 900	19 161	17 264	19 756	20 219	17 987	20 015	20 959	16 080	15 715	18 846	na
British Columbia	9 454	9 304	9 393	10 198	7 935	8 882	8 892	9 135	10 551	10 942	9 312	10 584	11 974	na
Saskatchewan	5 022	5 271	5 891	5 915	6 116	6 705	7 206	6 906	7 943	9 841	na	na	na	na
NWT/Yukon/Nunavut	1 001	793	1 203	920	565	554	678	620	637	776	774	442	674	na
Canada	72 025	72 289	75 981	77 270	71 235	78 127	82 273	76 992	80 724	82 156	80 293	79 161	85 480	90 663
HEAVY FUEL OIL:														
Atlantic	7 618	4 732	4 956	4 104	2 371	4 127	5 414	4 113	3 180	na	na	na	na	na
Quebec	8 285	6 426	5 552	7 869	6 405	4 935	3 573	3 996	4 254	3 997	3 248	2 801	2 906	na
Ontario	2 616	2 069	2 392	1 916	1 119	1 378	1 408	1 602	1 056	1 790	1 388	1 154	1 252	na
Manitoba	210	209	225	195	176	98	43	37	4	11	24	38	12	na
Alberta	144	191	169	130	229	764	853	575	635	894	178	240	290	na
British Columbia	3 002	2 832	3 016	2 760	2 379	2 647	1 379	1 494	902	1 197	498	662	995	na
Saskatchewan	316	449	381	529	419	485	680	660	702	na	na	na	na	na
NWT/Yukon/Nunavut	-	-	0.0055	0.1945	-	-	1.2192	-	-	-	-	-	-	-
Canada	22 191	16 908	16 691	17 503	13 097	14 434	13 351	12 477	10 732	10 738	7 505	7 164	8 258	10 450

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CANADIAN DEMAND FOR TOTAL REFINED PETROLEUM PRODUCTS
2000-2018
Cubic Metres Per Day

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Newfoundland and Labrador	6 010	7 010	6 943	7 189	6 809	6 735	5 570	6 561	6 424	5 586	6 306
Prince Edward Island	1 504	1 427	1 454	1 496	1 517	1 458	1 375	1 442	1 360	1 326	1 357
Nova Scotia	11 712	10 797	10 416	12 528	12 855	12 033	10 808	10 164	9 663	8 986	9 092
New Brunswick	13 528	11 948	9 956	10 788	10 488	10 777	9 255	9 083	8 698	7 719	11 105
Atlantic provinces	32 754	31 183	28 769	32 000	31 669	31 004	27 008	27 250	26 145	23 616	27 860
Atlantic provinces and Other											
Quebec	52 467	53 256	55 989	60 156	60 650	60 200	58 961	60 488	60 279	56 787	55 468
Ontario	86 895	84 933	86 614	88 049	93 839	90 550	89 680	90 866	89 585	83 759	94 860
Manitoba	7 471	7 406	7 396	7 592	7 895	7 946	7 990	8 447	8 350	8 261	9 065
Saskatchewan	10 361	9 782	10 236	10 780	10 657	11 405	12 334	13 396	14 113	14 752	15 852
Alberta	37 205	38 775	36 789	39 044	41 719	43 237	45 466	49 036	49 393	46 301	50 935
British Columbia	30 257	29 813	30 397	30 998	32 983	31 959	31 288	31 572	32 233	29 018	30 821
Yukon	363	365	367	389	376	348	355	352	306	274	252
Northwest Territories	794	1 023	961	1 022	1 072	1 173	1 026	1 470	1 164	781	774
Nunavut	336	459	263	194	169	159	4	0	1	0	-
Canada	258 904	256 995	257 783	270 225	280 092	277 983	274 113	282 878	281 570	263 549	285 886

na=Statistics Canada data suppression

* estimates

CANADIAN DEMAND FOR TOTAL REFINED PETROLEUM PRODUCTS
2000-2018
Cubic Metres Per Day

	2011	2012	2013	2014	2015	2016	2017	2018
Newfoundland and Labrador	6 681	6 667	6 575	na	na	na	na	na
Prince Edward Island	1 591	1 370	1 251	na	na	na	na	na
Nova Scotia	10 817	9 995	9 906	na	na	na	na	na
New Brunswick	14 938	11 910	7 429	na	na	na	na	na
Atlantic provinces	34 027	29 941	25 161	na	na	na	na	na
Atlantic provinces and Other				26 969	26 640	26 643	24 647	25 440
Quebec	61 116	57 514	55 838	55 268	55 326	56 410	58 730	58 094
Ontario	91 504	90 952	92 352	94 115	94 015	96 789	89 365	88 734
Manitoba	9 380	9 877	10 118	9 890	9 712	9 919	10 810	11 568
Saskatchewan	16 685	16 585	18 506	18 917	19 317	18 918	20 325	21 082
Alberta	53 139	56 176	56 031	57 396	49 406	48 268	51 317	58 954
British Columbia	29 072	27 793	30 128	30 540	30 123	31 462	34 022	36 936
Yukon	313	289	286	302	na	na	na	na
Northwest Territories	901	850	853	989	1 139	761	982	na
Nunavut	354	-	129	na	164	-	-	-
Canada	296 492	289 978	289 402	294 388	285 841	289 170	290 197	300 808

na=Statistics Canada data suppression

* estimates

Table 6.6

SOURCES OF CANADIAN PRIMARY & SECONDARY ENERGY CONSUMPTION

1950 - 2018

Percent

	Petroleum(1)	Natural Gas	Coal	Electricity	Total Petajoules
			Hydro & Nuclear	Other(2)	
1950	32.6	3.1	49.2	7.2	2 546
1955	49.2	5.8	31.5	8.5	3 058
1960	54.4	13.2	16.9	10.8	3 350
1965	57.4	15.2	15.1	9.8	4 369
1970	54.2	18.1	11.6	9.2	6 097
1971	53.6	18.8	10.7	9.1	6 379
1972	54.0	20.4	9.7	9.5	6 717
1973	53.7	20.6	9.5	9.9	7 030
1974	53.3	20.9	9.2	10.5	7 272
1975	53.5	21.6	9.3	10.5	7 084
1976	53.0	21.4	9.8	10.8	7 310
1977	52.2	21.8	10.4	10.9	7 537
1978	52.4	25.1	0.9	17.5	5 910
1979	51.8	25.2	0.8	17.2	6 171
1980	51.5	24.7	0.8	18.0	6 157
1981	49.7	25.4	0.8	19.2	5 949
1982	46.8	27.2	0.8	20.0	5 683
1983	45.0	27.4	0.8	21.5	5 515
1984	42.8	28.6	0.8	22.3	5 736
1985	40.9	30.2	0.9	22.4	5 847
1986	41.2	29.2	0.8	23.8	5 867
1987	41.1	28.7	0.8	24.5	5 918
1988	40.6	29.8	0.8	24.2	6 309
1989	40.6	30.1	0.8	24.0	6 499
1990	40.1	30.3	0.8	24.7	6 299
1991	38.4	31.1	0.6	25.4	6 209
1992	37.9	31.8	0.6	25.2	6 328
1993	37.9	32.4	0.6	25.2	6 447
1994	38.3	32.4	0.6	24.8	6 655
1995	37.7	32.6	0.6	24.6	6 785
1996	37.6	33.6	0.6	24.2	7 040
1997	38.3	32.8	0.7	24.1	7 095
1998	39.8	31.1	0.7	24.5	6 956
1999	39.8	31.3	0.7	24.3	7 133
2000	39.2	31.8	0.7	24.4	7 376
2001	40.2	30.1	0.7	24.8	7 175
2002	39.1	31.5	0.7	24.8	7 385
2003	39.8	31.2	0.7	24.6	7 586
2004	40.6	30.4	0.7	24.4	7 682
2005	40.7	29.8	0.7	25.1	7 641
2006	40.8	29.2	0.8	25.1	7 513
2007	40.3	30.2	0.7	24.8	7 915
2008	39.8	30.4	0.7	25.1	7 886
2009	41.0	31.6	0.6	23.4	7 373
2010	41.7	31.0	0.7	23.1	7 555
2011	40.6	32.2	0.7	22.7	7 820
2012	40.8	31.8	0.7	22.7	7 788

Table 6.6

SOURCES OF CANADIAN PRIMARY & SECONDARY ENERGY CONSUMPTION**1950 - 2018****Percent**

	Petroleum(1)	Natural Gas		Electricity		Total
			Coal	Hydro & Nuclear	Other(2)	Petajoules
2013	40.5	33.1	0.6	22.5	3.3	7 975
2014	38.8	35.4	0.6	22.0	3.3	8 230
2015	39.0	35.2	0.6	22.1	3.0	8 197
2016	39.2	33.8	0.5	23.3	3.2	8 124
2017	39.1	34.3	0.5	22.9	3.2	8 417
2018	38.6	35.4	0.4	22.4	3.2	8 874

(1) Includes LPG

(2) Waste wood and spent pulping liquor and other unspecified fuels. Primary steam is included 1973 onwards.

Section 7

Refining

Table

Refinery Run to Stills - Canada 1947 – Present	7.1
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REFINERY RUN TO STILLS* - CANADA

1947 - 2018

Cubic Metres Per Day

Atlantic Provinces	Quebec	Ontario	BC, SK, MB & NWT	Alberta	Canada
1947					33 656
1948					37 948
1949					41 890
1950					47 518
1951	25 734	11 708	10 467	7 486	55 395
1952	26 634	13 493	11 399	8 702	60 228
1953	27 987	16 452	13 237	9 505	67 181
1954	28 655	19 284	16 901	8 958	73 798
1955	33 359	22 092	19 714	9 650	84 815
1956	41 766	24 980	20 120	11 706	98 572
1957	44 897	25 305	22 414	11 255	103 871
1958	43 970	28 309	21 386	11 014	104 679
1959	48 352	33 098	22 982	11 579	116 011
1960	52 708	32 854	23 886	12 248	121 696
1961	56 353	36 222	24 130	12 380	129 085
1962	13 767	44 823	37 030	26 257	134 809
1963	15 287	47 743	41 725	25 923	13 564
1964	16 791	45 392	45 066	27 979	13 306
1965	16 683	46 143	48 097	28 771	14 814
1966	17 342	51 002	49 989	31 920	15 239
1967	17 354	53 574	49 906	33 103	15 911
1968	17 222	59 858	52 161	34 611	16 501
1969	19 848	62 713	54 397	34 097	17 598
1970	21 442	68 207	58 962	36 466	17 909
1971	31 692	73 762	60 087	36 276	19 824
1972	41 344	83 112	59 257	35 735	24 002
1973	46 886	89 308	65 355	38 062	26 464
1974	56 138	85 070	71 925	39 382	28 700
1975	49 909	80 947	70 589	36 088	33 148
1976	41 619	86 099	71 960	33 881	37 614
1977	45 048	88 588	80 052	33 340	39 881
1978	44 893	83 396	85 871	33 910	40 596
1979	50 206	80 707	95 550	37 772	45 394
1980	43 588	79 412	94 116	38 543	45 301
1981	34 247	75 390	87 929	37 676	44 448
1982	22 203	65 883	76 073	33 442	39 831
1983	22 259	54 405	77 323	27 860	43 935
1984	22 238	49 468	80 759	24 171	49 213
1985	23 085	44 641	77 741	23 955	49 464
1986	29 510	39 565	73 690	23 426	48 416
1987	34 242	40 366	75 063	22 382	50 992
1988	45 500	41 473	75 261	20 459	53 127
1989	45 468	41 339	79 714	17 981	55 762
1990	47 492	46 593	76 275	25 814	55 612
1991	44 896	43 634	69 952	26 707	51 922
1992	40 257	42 787	71 034	29 623	48 726
1993	51 039	46 088	70 292	24 822	52 534
1994	47 097	51 772	70 508	23 687	58 142
1995	47 491	51 389	69 970	20 461	60 206
1996	51 570	53 567	72 713	18 384	65 298
1997	52 793	54 353	76 210	17 772	68 178
1998	50 594	57 735	78 532	19 124	65 793
1999	53 453	56 411	75 205	18 781	68 642
2000	52 711	60 274	78 408	19 690	70 359
2001	62 407	59 338	79 207	19 489	67 576
2002	65 397	63 160	78 478	19 029	69 999
2003	67 871	66 277	77 141	21 528	298 840

REFINERY RUN TO STILLS* - CANADA

1947 - 2018

Cubic Metres Per Day

	Atlantic Provinces	Quebec	Ontario	BC, SK, MB & NWT	Alberta	Canada
2004	68 141	65 613	81 206	23 514	73 516	311 991
2005	68 584	68 507	66 484	22 781	72 937	299 294
2006	64 781	67 435	63 465	24 819	71 273	291 773
2007	68 520	68 488	66 404	25 216	74 792	303 419
2008	69 096	68 195	64 626	23 423	66 985	292 325
2009	67 613	65 595	57 776	25 840	65 116	281 940
2010	69 277	61 901	64 177	24 191	71 692	291 237
2011	66 255	53 485	62 269	24 291	69 400	275 699
2012	73 254	57 025	70 629	26 351	69 848	297 106
2013	76 766	52 660	72 097	17 529	71 455	290 507
2014	na	46 003	na	na	73 854	283 014
2015	53 693	45 531	53 742	na	64 242	290 788
2016	na	44 587	50 584	na	44 334	293 202
2017	na	61 566	64 144	na	81 795	305 496
2018	na	60 395	67 630	na	85 023	298 391

* includes condensate, pentanes lus and propane/butanes mix

Note: 1951-1961 Quebec included Atlantic Provinces

OIL IMPORTS & REFINERY RECEIPTS* - CANADA
 1947 - 2018
 Cubic Metres Per Day
 Received From

	Middle East										Total Imported	Canada	TOTAL					
	Iran	Iran/ Iraq	Iraq	Kuwait	Saudi Arabi	Libya	Algeria	Nigeria	Venezuela	Norway	U.K.	U.S.	Mexico	Other**	Total Imported	Canada	TOTAL	
1947									12 494			17 038		869	30 401	3 110	33 511	
1948				1 792					17 253			14 451		81	33 577	5 193	38 770	
1949				4 022					15 539			12 910		377	32 848	8 938	41 786	
1950				7 773					13 910			13 603		324	35 610	11 465	47 075	
1951				5 842					19 665			9 176		1 512	36 195	20 543	56 738	
1952				3 638					22 047			8 708		1 412	35 805	25 571	61 376	
1953				3 007					25 179			6 233		1 022	35 441	30 191	65 632	
1954				2 847					25 874			3 428		1 275	33 424	40 350	73 774	
1955				3 667					29 790			3 103		1 208	37 768	45 736	83 504	
1956	476		2 716	5 157					33 869			2 389		1 548	46 155	54 530	100 685	
1957	36		3 424	2 801					38 347			3 516		596	48 720	55 254	103 974	
1958	164		7 966	5 762					31 271			746		870	46 779	58 563	105 342	
1959	2 636		6 754	7 246					32 464			90		1 461	50 651	65 962	116 613	
1960	6 445		6 197	9 251					31 836			75		1 260	55 064	64 806	119 870	
1961	5 598		5 198	10 135					35 720					1 351	58 002	68 432	126 434	
1962	7 996		2 533	9 205					37 431					1 769	58 934	75 583	134 517	
1963	10 135		1 535	9 258					39 530					3 361	63 819	81 047	144 866	
1964	7 969		3 607	3 204					44 790					2 929	62 499	86 600	149 099	
1965	9 510		3 265	9 876				203	37 515					2 324	62 693	90 810	153 503	
1966	14 513		1 581	7 521	2 346			5 678	34 413					2 975	69 027	95 867	164 894	
1967	7 520	1 627	539	5 927	2 351			4 017	45 347			1 242		2 432	71 002	97 698	168 700	
1968	9 784	104	1 313	8 238				1 514	52 930					3 571	77 454	102 425	179 879	
1969	7 096	2 249	1 958	5 300	1 730			3 510	55 008			90		5 988	82 929	105 375	188 304	
1970	8 812	3 730	2 157	4 672				7 742	57 944					5 649	90 706	112 746	203 452	
1971	14 181	3 977	6 420	197				8 992	64 347					8 214	106 328	114 606	220 934	
1972	15 605	2 610	406	11 711	5 360			9 272	61 841					18 565	125 370	118 634	244 004	
1973	21 055	3 372	11 477	5 462				8 200	63 095					24 068	136 729	130 665	267 394	
1974	30 953	1 511	5 047	16 908	1 313			1 991	55 739					16 836	130 298	150 769	281 067	
1975	33 098	5 995	4 881	26 046	2 017			3 724	40 869					13 919	130 549	139 533	270 082	
1976	24 985	4 631	374	17 357	3 235			4 481	42 918					16 710	114 691	154 595	269 286	
1977	19 285	2 976	638	24 951				723	41 052			268		16 460	106 353	179 233	285 586	
1978	17 536	3 897	21 172						33 168					7 410	97 784	186 451	284 235	
1979	7 262	1 346	2 788	30 877	1 232			33 591			323	14 033		5 587	97 039	211 648	308 687	
1980	205	3 088	1 902	34 660	878			415	26 313			823	15 810		3 966	88 060	211 945	300 005
1981		1 743	26 120	1 403				594	21 895			5 045	9 786	8 341	6 022	80 949	195 152	276 101
1982	1 502	45	8 545	217				675	18 226			3 713	9 177	8 610	3 160	53 870	182 291	236 161
1983	6 897	452	982	836				2 321	8 861			2 771	2 635	9 014	4 553	39 322	184 272	223 594
1984	1 342			827				3 713	11 913			5 614	2 465	7 107	5 820	38 801	187 009	225 810
1985	1 717			908				2 803	10 050			14 449	3 605	5 074	6 421	45 027	173 625	218 652
1986	4 817		3 914					6 442	6 494	2 847	24 016	3 783	2 887	1 176	56 376	157 985	214 361	
1987	3 641	1 599	2 375					6 427	5 637	2 098	32 359	2 627	2 771	4 775	64 309	159 891	224 200	
1988	1 733	236	5 214					6 643	4 679	3 842	40 177	2 172	1 686	4 748	71 130	163 767	234 897	
1989	2 762	2 130	6 052					9 715	5 208	11 675	31 684	4 150	1 791	2 221	77 388	163 135	240 523	
1990	1 723	9 914						7 807	4 590	18 822	33 505	2 829	1 973	4 074	85 237	161 760	246 997	
1991	256		11 571					8 349	5 689	23 912	30 345	651	2 379	3 265	86 417	144 707	231 124	
1992	1 264		12 066					8 312	4 886	23 593	23 774	825	4 920	1 903	81 543	140 928	222 471	
1993	4 541	61	11 110					13 112	4 864	17 393	28 388	284	4 681	9 754	94 188	142 238	236 426	
1994	1 667	1 443	12 648					11 158	8 232	23 516	29 731	980	3 137	6 366	98 878	146 438	245 316	
1995	1 962		9 263					9 196	11 310	24 662	24 823	151	1 825	10 683	93 875	146 301	240 176	
1996	6 044		11 675					4 818	8 304	28 780	27 335	3 945	3 242	14 709	108 852	144 688	253 540	
1997	5 190	2 225	11 830					3 668	14 855	32 820	23 531	10 375	5 038	11 537	121 069	143 125	264 194	
1998	2 157	70	13 343					3 680	16 478	31 980	19 177	14 550	5 082	15 915	122 432	139 031	261 463	
1999	4 363		9 826					4 110	16 271	41 303	26 804	8 643	3 803	15 514	130 637	134 942	265 579	
2000	7 502		9 229					4 634	14 484	42 145	42 553	3 718	4 236	16 805	145 306	129 855	275 161	
2001	12 292		9 061					2 606	12 840	38 969	45 039	4 983	3 823	17 008	146 621	135 777	282 398	
2002	14 043	8 732		19 211				10 045	39 952	34 640	2 075	3 734	9 222	144 484	144 929	289 413		
2003	12 093	9 500	24 834	5 034	4 206	41 934	27 455	2 174	4 309	17 174	148 713	147 535	296 248					
2004	11 290	10 910	27 163	4 200	7 537	42 450	26 017	4 994	3 768	11 008	149 337	154 580	303 917					
2005	9 594	12 018	27 587	3 906	8 319	37 835	25 884	6 176	6 414	17 946	155 681	146 943	302 624					
2006	10 883	10 826	28 840	5 211	4 843	29 218	23 210	6 004	5 777	18 936	143 748	148 336	292 084					
2007	9 999	10 893	29 416	3 514	5 546	28 096	25 022	6 253	3 688	21 854	144 280	158 210	302 490					
2008	9 586	10 443	31 489	4 019	4 612	24 089	20 611	10 076	4 137	24 088	143 149	148 575	291 724					
2009	8 539	10 010	23 890	2 880	5 959	19 497	14 390	12 616	2 870	40 077	140 728	146 335	287 063					
2010	10 283	11 039	19 155	8 576	3 590	11 843	15 946	7 486	4 028	38 345	130 292	159 418	289 709					

OIL IMPORTS & REFINERY RECEIPTS* - CANADA

1947 - 2018
Cubic Metres Per Day
Received From

Middle East														Total Imported	Canada	TOTAL	
Iran	Iran/ Iraq	Iraq	Kuwait	Saudi Arabi	Libya	Algeria	Nigeria	Venezuela	Norway	U.K.	U.S.	Mexico	Other**				
2011		10 254		10 767		22 269	9 505	1 170	13 119	7 464	8 290	3 419	34 877	121 133	157 520	278 654	
2012		16 155		10 047		23 741	7 719	747	11 968	3 168	10 801	3 336	33 613	121 296	164 086	285 382	
2013		13 175	454	11 050		13 757	4 412	1 337	12 093	4 511	21 591	3 851	24 025	110 258	170 167	280 425	
2014		7 677		11 641		5 380	1 650		5 393	940	54 007	3 268	11 246	101 202	169 812	271 014	
2015				13 115		6 301	6 516		288	6 220	260	69 877		12 624	115 201	170 754	285 955
2016				13 822		13 513	11 750			6 574	1 572	60 323		8 110	115 664	161 711	254 171
2017				16 230		5 186	6 086			6 181	3 214	56 851		13 666	107 414	171 975	279 389
2018				17 812		1 523	2 216			3 336	1 569	65 154		8 407	100 017	163 145	263 162

* Includes crude oil, condensate and pentanes plus.

** Includes Middle East imports not elsewhere specified and others.

REFINERY CRUDE OIL AND OIL SANDS MINING UPGRADE CAPACITY - CANADA 1947 - 2018

Newfoundland		Nova Scotia		New Brunswick		Quebec		Ontario *		Manitoba		Saskatchewan		Alberta		British Columbia		Territories		CANADA		Upgrader **		
No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.	M³/CD	No.
1947		1	5 400	1	50	4	11 600	6	13 980	3	720	7	3 120	6	3 380	3	3 540	1	180	32	41 970			
1948		1	3 970	1	50	4	17 000	6	14 100	3	720	7	3 120	7	5 680	3	4 240	1	180	33	49 060			
1949		1	3 500	1	50	4	19 710	5	13 300	3	1 160	7	4 260	7	6 860	3	4 240	1	180	32	53 260			
1950		1	3 500	1	50	4	22 720	4	11 950	3	1 240	7	4 750	7	7 450	3	4 580	1	200	31	56 440			
1951		1	3 500	1	50	4	25 430	4	12 620	4	3 180	7	5 430	11	9 800	3	4 580	1	200	36	64 790			
1952		1	2 860	1	50	4	26 060	5	16 610	4	3 180	7	6 960	12	10 810	3	4 580	1	200	38	71 310			
1953		1	2 860	1	50	4	27 970	6	21 450	4	3 180	9	8 150	10	10 990	3	4 580	1	200	39	79 430			
1954		1	2 860	1	50	4	27 970	6	22 610	4	3 180	9	10 300	10	10 990	4	8 820	1	200	40	86 980			
1955		1	2 860	1	50	5	33 370	6	23 650	4	4 740	9	10 540	10	12 320	5	10 570	1	200	42	98 300			
1956		1	6 670	1	50	5	39 250	6	26 140	4	5 100	9	11 010	11	13 330	5	10 960	1	200	43	112 710			
1957		1	6 990	1	50	5	40 590	6	31 540	4	5 560	9	11 040	11	13 620	5	11 840	1	210	43	121 440			
1958		1	7 790	1	50	5	43 030	7	37 820	4	5 560	9	11 040	11	13 670	6	15 450	1	210	45	134 620			
1959		1	7 790	1	50	5	43 030	7	42 110	4	5 560	7	10 580	11	13 670	6	15 450	1	210	43	138 450			
1960		1	7 790	2	6 400	6	46 710	7	42 540	4	5 400	6	9 980	11	15 650	6	15 450	1	240	44	150 160			
1961	1	1 350	1	7 790	2	6 400	6	46 960	7	42 540	3	5 990	6	11 200	10	14 410	6	15 540	1	240	43	152 420		
1962	1	1 350	1	7 950	2	7 990	6	48 390	8	49 970	3	5 990	6	11 240	10	15 120	6	15 570	1	240	44	163 810		
1963	1	1 350	1	7 950	2	7 990	6	48 630	8	48 700	3	6 260	6	11 240	7	13 580	6	15 580	1	240	41	161 520		
1964	1	1 350	2	11 440	1	7 950	6	51 120	7	48 130	3	6 500	6	11 280	7	13 780	6	16 210	1	300	40	168 060		
1965	1	1 350	2	11 440	1	7 950	6	52 710	7	50 920	3	6 530	6	11 070	7	14 780	6	16 110	1	300	40	173 160		
1966	1	1 350	2	11 440	1	7 950	6	58 990	7	51 230	3	6 800	6	12 010	7	15 140	6	16 110	1	300	40	181 320		
1967	1	1 830	2	10 250	1	7 950	6	58 590	7	55 680	3	6 960	6	12 010	8	25 900	7	17 440	1	300	42	196 910		
1968	1	2 070	2	11 140	1	7 950	6	62 440	7	56 640	3	6 960	6	12 200	8	26 220	7	17 590	1	300	42	203 510		
1969	1	2 070	2	11 140	1	7 950	6	69 750	7	58 650	2	7 340	6	12 200	8	26 540	7	17 790	1	300	41	213 730		
1970	1	2 070	2	12 080	1	7 950	6	71 680	7	59 830	2	7 470	6	12 770	8	27 810	7	19 930	1	430	41	222 020		
1971	1	2 070	3	24 960	1	19 070	7	88 930	7	61 530	2	7 710	5	10 900	7	27 041	7	19 930	1	440	41	262 581	1	10 329
1972	1	2 220	3	24 960	1	19 070	7	90 990	7	64 230	2	7 710	4	10 580	7	27 041	7	20 490	1	440	40	267 731	1	10 329
1973	2	18 910	3	28 600	1	19 070	7	92 100	7	65 820	2	7 790	4	11 380	7	28 091	7	21 280	1	460	41	293 501	1	10 329
1974	2	18 910	3	28 890	1	18 120	7	102 510	7	82 740	2	7 690	4	12 470	7	28 411	7	23 230	1	460	41	323 431	1	10 329
1975	2	18 910	3	28 890	1	18 120	7	102 510	7	85 540	1	4 770	3	7 600	6	41 551	7	23 850	1	440	38	332 181	1	10 329
1976	1	2 220	3	29 240	1	39 730	7	102 780	7	87 100	1	4 770	2	6 560	6	42 905	7	26 040	1	480	36	341 825	1	7 945
1977	1	2 220	3	29 380	1	39 730	7	102 780	7	86 140	1	4 770	2	6 560	6	44 015	7	26 220	1	480	36	342 295	1	7 945
1978	1	2 220	3	29 380	1	39 730	7	98 400	8	102 080	1	4 770	2	7 830	6	40 650	7	26 860	1	480	37	352 400	1	11 920
1979	1	2 220	3	29 390	1	39 730	7	98 285	8	101 116	1	4 770	2	7 830	6	44 526	7	26 460	1	460	37	354 787	2	25 260
1980	1	2 220	2	16 180	1	39 730	7	98 545	8	101 066	1	4 770	2	7 830	6	45 311	7	26 490	1	460	36	342 602	2	34 440
1981	1	2 220	2	16 180	1	39 730	7	97 895	8	100 216	1	4 600	2	7 830	6	46 011	7	28 330	1	460	36	343 472	2	34 490
1982	1	2 220	2	16 580	1	39 730	6	84 820	7	92 274	1	4 770	2	8 610	7	55 186	7	28 060	1	460	35	332 710	2	35 680
1983	-	-	2	16 580	1	39 730	4	61 420	6	82 944			2	8 610	6	60 796	6	27 260	1	500	28	297 840	2	34 500
1984	-	-	2	16 280	1	39 730	4	61 520	6	82 544			2	8 610	6	64 345	6	27 260	1	500	28	300 789	2	36 000
1985	-	-	2	16 280	1	39 730	4	61 520	6	82 544			2	8 610	6	62 445	6	27 260	1	500	28	298 889	2	36 000
1986	-	-	2	16 280	1	39 730	3	49 350	6	79 434			2	8 610	6	62 345	6	26 950	1	500	27	283 199	2	36 000
1987	1	15 900	2	16 280	1	39 730	3	49 350	6	79 334			2	8 610	6	62 345	6	27 160	1	600	28	299 309	2	38 700
1988	1	15 890	2	16 280	1	39 730	3	49 350	6	76 394			2	9 295	6	61 455	6	24 790	1	600	28	293 784	2	43 980
1989	1	17 490	2	16 280	1	39 730	3	49 450	6	78 474			2	9 295	6	62 648	6	25 760	1	600	28	299 727	2	43 980
1990	1	17 490	2	16 280	1	39 730	3	52 078	6	80 288			2	9 725	6	63 220	6	25 766	1	600	28	305 177	2	43 980
1991	1	17 490	2	16 280	1	39 730	3	52 078	6	80 098			2	9 725	6	63 237	5	23 324	1	600	27	302 562	2	43 980
1992	1	16 620	2	16 511	1	39 730	3	52 853	6	80 588			2	9 725	5	61 855	5	25 376	1	600	26	303 858	2	46 400
1993	1	16 620	2	16 598	1	39 730	3	55 238	5	73 988			2	9 725	5	61 855	3	15 654	1	600	23	290 008	2	48 600
1994	1	16 620	1	13 100	1	39 730	3	57 710	5	74 060			2	9 725	5	63 220	2	16 450	1	600	22	291 215	2	50 100
1995	1	15 850	1	13 100	1	39 730	3	58 010	5	74 060			2	10 865	5	63 220	2	9 450	1	600	21	284 885	2	53 450
1996	1	16 700	1	13 410	1	39 730	3	59 210	5	73 920			2	10 800	5	64 060	2	9 450		20	287 280	2	53 945	
1997	1	16 700	1	13 410	1	39 730	3	58 710	5	73 920			2	10 800	5	65 180	2	9 450		20	287 900	2	64 445	
1998	1	16 700	1	13 355	1	39 730	3	61 210	5	74 320			2	10 475	5	67 705	2	9 750		20	293 245	2	64 445	
1999	1	16 700	1	13 355	1	39 730	3	62 785	5	74 955			2	10 475	5	68 055	2	9 850		20	295 905	2	66 000	
2000	1	16 700	1	13 355	1	39 730	3	62 785	5	74 760			2	10 475	5	68 055	2	9 950		20	295 810	2	66 000	
2001	1	16 700	1	13 355	1	39 730	3	71 540	5	74 060			2	10 475	5	69 015	2	9 950		20	304 825	2	91 800	
2002	1	16 700	1	13 355	1	39 730	3	71 590	5	74 060			2	10 475	5	69 815	2	9 950		20	305 675	2	91 800	
2003	1	16 700	1	13 100	1	39 730	3	71 590	5	67 865			2	15 265	5	70 275	2	9 975		20	311 395	3	116 445	
2004	1	16 700	1	13 100	1	39 730	3	75 525</td																

REFINERY CRUDE OIL AND OIL SANDS MINING UPGRADE CAPACITY - CANADA
1947 - 2018

	Newfoundland		Nova Scotia		New Brunswick		Quebec		Ontario *		Manitoba		Saskatchewan		Alberta		British Columbia		Territories		CANADA		Upgrader **	
	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD	No.	M ³ /CD
2006	1	18 275	1	13 100	1	39 730	3	75 526	4	60 860	2	16 595	5	70 275	2	9 975	19	304 336	3	150 045				
2007	1	18 275	1	13 100	1	39 730	3	74 816	4	59 566	2	17 325	5	70 275	2	10 050	19	303 137	3	150 045				
2008	1	18 275	1	13 060	1	39 730	3	81 970	4	59 566	2	17 325	5	70 275	2	10 050	19	310 251	4	189 595				
2009	1	18 275	1	13 037	1	39 730	3	81 970	4	61 989	2	17 325	5	71 797	2	10 050	19	314 173	4	189 595				
2010	1	18 275	1	13 280	1	47 500	2	63 106	4	62 501	2	17 325	5	72 135	2	10 050	18	304 172	4	189 595				
2011	1	18 275	1	13 514	1	47 500	2	58 330	4	62 195	3	34 375	4	73 599	2	10 908	18	318 696	4	189 595				
2012	1	18 275	1	13 514	1	47 500	2	58 330	4	62 720	3	37 375	4	71 714	2	10 908	18	320 336	4	205 491				
2013	1	18 275			1	47 500	2	58 330	4	62 720	3	36 182	4	73 142	2	10 608	17	306 757	4	203 147				
2014	1	18 275			1	47 500	2	58 330	4	62 720	3	36 182	4	73 142	2	10 608	17	306 757	4	203 147				
2015	1	18 275			1	47 500	2	58 330	4	62 720	3	36 396	4	73 142	2	10 608	17	306 971	4	203 147				
2016	1	18 275			1	47 500	2	58 330	4	62 719	3	36 543	4	73 460	2	10 608	17	307 435	4	215 073				
2017	1	18 275			1	47 696	2	63 911	4	62 719	3	36 466	4	73 460	2	10 608	17	313 135	4	222 219				
2018	1	18 275			1	47 696	2	63 911	4	62 719	3	37 360	5	86 014	2	10 608	18	326 583	4	223 172				

* Excludes crude distillation associated with the Polysar petrochemical complex.

** Represents oil sands facilities. Crude capacity is bitumen to upgrader.

*** The Husky Heavy Oil Upgrader is located in Saskatchewan. Historically it had been counted as an Alberta refinery.

2018 PETROLEUM REFINERIES AND OIL SANDS MINING UPGRADERS IN CANADA
CAPACITIES M³/CD

Company	Refinery Location	First Year	Crude Sources	Vacuum Distil- ation	Thermal Oper- ations	Cat Cracking	Cat Reform	Cat Hydro- Cracking	Cat Hydro- Refining	Cat Hydro- Treating	Polymerization/ Alkyl- ation	Isom	Lubes	Asphalt	Coke	t/D Sulphur	
NEWFOUNDLAND																	
North Atlantic Refining Ltd.	Come-by- Chance	1973	Middle East Russia South America	18 275	8 740	3 178 -	5 006	6 039 -	-	3 973 b 3 655 a 1 192 e	-	-	-	-	-	180	
Irving Oil Ltd.	Saint John	1960	Middle East Eastern Canada North Sea United Kingdom Africa	47 696	16 080	3 179	19 078	5 564	-	9 221 a 13 513 b 9 221 c	2 225	1 589 -	-	-	-	222	
QUEBEC																	
Valero Energy Inc.	Levis	1971	West Africa North America Mediterranean	42 130	7 788 -	11 129	3 021 - 4 770	-	-	7 631 a 20 350 b 4 769 c 7 313 d	1 219	4 626 -	-	-	-	80	
Suncor Energy Inc.	Montreal	1955	W. Canada North Africa North Sea United States	21 781	8 585 -	5 087	5 724	3 498 -	-	6 359 a 8 347 b 4 611 c	636 - Poly. 143	-	-	4 770 -	-	-	
ONTARIO																	
Petro-Canada Products Inc.	Mississauga	1943	- -	-	-	-	1 430	1 900 -	-	-	-	-	2 480 -	-	-	12	
Imperial Oil Ltd.	Sarnia	1897	W. Canada	18 919	5 008	4 054	4 849	5 962	3 180 -	5 803 b 8 426 d	-	-	-	-	-	850	218
Imperial Oil Ltd.	Nanticoke	1978	W. Canada	18 045	7 631 -	7 870	5 326 -	-	-	4 054 a 4 690 b 6 995 c	1 908 -	-	-	1 590 -	-	100	
Shell Canada Ltd.	Corunna	1952	W. Canada North Sea	12 242	4 102	827	3 259	3 323	1 558	3 275 a	-	-	-	-	-	56	
Suncor Energy Inc.	Sarnia	1953	W. Canada United States	13 514	4 250 -	2 650	3 650	5 100 -	-	3 180 c 4 100 a 7 880 b 1 072 c	875 -	-	-	-	-	180	

2018 PETROLEUM REFINERIES AND OIL SANDS MINING UPGRADERS IN CANADA
CAPACITIES M³/CD

Company	Refinery Location	First Year	Crude Sources	Vacuum Distil- ation	Thermal Oper- ations	Cat Cracking	Cat Reform	Cat Hydro- Cracking	Cat Hydro- Refining	Cat Hydro- Treating	Polymerization/ Alkyl- ation	Isom	Lubes	Asphalt	Coke	t/D Sulphur	
SASKATCHEWAN																	
Consumers' Co-op Refineries Ltd.	Regina	1935	W. Canada	21 500	6 000	1 430	7 600	1 550	4 100	5 300 ***	2 200 a	-	635	-	700	385	420
											2 000 b	(Polymerization 1400)					
											1 300 c						
											5 600 f						
Husky Energy	Lloydminster	1992	W. Canada	12 360	4 400	3 000				6 240	10 680					1 000	380
Moose Jaw Refinery	Hvy Oil Upgrader		W. Canada	3 500	2 100 -	-	-	-	-	-	-	-	-	-	1 123 -	-	
Shell Canada Ltd.**	Scotford	2003	W. Canada	38 197	32 529					20 966 a	6 480	-	-	-	-	-	-
Suncor Oil Sands Group**	Fort McMurray	1967	W. Canada	69 600	65 000	41 700	-	-	-	9 600 b	-	-	-	-	-	13 500	1 800
										11 900 c							
										11 500 d							
										8 300	13 600 c	-	-	-	-	-	
										29 400 b	-	-	-	-	-	8 900	2 700
										23 800 d							
Syncrude Canada Ltd.**	Fort McMurray	1978	W. Canada	73 900	45 300	46 100	-	-	-								
Canadian Natural Resources Ltd.**	Fort McMurray	2008	W. Canada	41 476	Not available												
North West Redwater Partnership	Sturgeon County	2018	W. Canada	12 554													
Husky Energy	Lloydminster	1947	W. Canada	4 620	3 590 -	-				Other units shut down 1971-07-01	-	-	-	-	-	2 495 -	-
Suncor Energy Inc.	Edmonton	1971	W. Canada	22 576	7 552	2 719	6 495	1 860	3 402 -		5 310 a	2 337	-	-	-	127	370
										9 969 b	-						
										2 258 d							
										5 739 f	-	-	-	-			
Imperial Oil Ltd.	Strathcona	1974	W. Canada	30 366	9 062 -		10 413	3 339 -	-		8 267 a	2 464	1 033	-	1 749 -	-	49
										12 957 b	-						
Shell Canada Ltd.	Scotford	1984	W. Canada	15 898	-	-				4 849 c						325	
							86 014										
BRITISH COLUMBIA																	
Parkland Refining Ltd.	North Burnaby	1936	W. Canada	8 700	1 900	-	2 800	1 550	-	-	2 300 a	450	1 550	-	350	-	17
										2 650 b							
										2 250 c							
Husky Energy	Prince George	1967	W. Canada	1 908	600	-	540	280	-	-	1 725 abc	-	150	-	-	-	6

LEGEND: a = Pretreating reformer feeds; b = Distillate; c = Naphtha; d = Misc.; f = desulphurization **Bitumen to upgrader *Coker Charge ***Atmospheric Residual Desulphurization

(1) Total Naphtha Hydrotreating (810) includes 400 for Isom FD.

Table 7.5

REFINERY/UPGRADER CLOSURES - CANADA
1970 - 2018

Closure	Company	Location	First Year of Operation	Capacity M³/D
1970	Husky Oil Ltd.	Moose Jaw, Saskatchewan	1954	560
1971	Gulf Oil Canada Ltd.	Saskatoon, Saskatchewan	1933	1 180
1971	Gulf Oil Canada Ltd.	Edmonton, Alberta	1951	2 000
1975	Imperial Oil	Edmonton, Alberta	1948	6 000
1975	Imperial Oil	Winnipeg, Manitoba	1951	3 400
1975	Imperial Oil	Regina, Saskatchewan	1916	4 880
1975	Imperial Oil	Calgary, Alberta	1923	3 370
1976	Petro-Canada Products Inc.*	Come-By-Chance, Newfoundland	1973	15 900
1976	Northern Petro Div Cdn Propane Gas & Oil	Kamsack, Saskatchewan	1936	1 670
1978	Texaco Canada Inc.	Port Credit, Ontario	1938	1 200
1980	Gulf Canada Ltd.	Point Tupper, Nova Scotia	1971	12 870
1982	Texaco Canada Inc.	Montreal, Quebec	1927	11 840
1983	Petro-Canada Products Inc.	Montreal, Quebec	1960	11 280
1983	Gulf Canada Ltd.	Calgary, Alberta	1939	2 050
1983	Gulf Canada Ltd.	Kamloops, British Columbia	1954	1 510
1983	Imperial Oil Ltd.	Montreal, Quebec	1916	13 200
1983	Shell Canada Ltd.	St. Boniface, Manitoba	1927	4 770
1983	Shell Canada Ltd.	Oakville, Ontario	1963	7 000
1983	Ultramar Canada Inc.	Holyrood, Newfoundland	1961	2 220
1984	Texaco Canada Inc.	Edmonton, Alberta	1951	4 451
1986	Gulf Canada Ltd. **	Montreal, Quebec	1931	11 770
1991	Petro-Canada Products	Taylor, British Columbia	1960	2 460
1992	Turbo Resources (Pay Less Holdings)	Balzac, Alberta	1982	4 565
1993	Petro-Canada	Port Moody, British Columbia***	1958	5 902
1993	Petro-Canada	Mississauga, Ontario***	1943	6 600
1993	Shell Canada Ltd.	N. Burnaby, British Columbia	1932	3 820
1994	Ultramar Canada Inc.	Halifax, Nova Scotia	1963	3 498
1995	Imperial Oil Ltd.	Port Moody, British Columbia	1915	7 000
1996	Imperial Oil Ltd.	Norman Wells, Northwest Territories	1921	600
2005	Petro-Canada Products	Oakville, Ontario***	1958	13 200
2010	Shell Canada Products	Montreal, Quebec***	1933	20 000
2012	Parkland Refining Ltd.	Bowden, Alberta ***	1960	1 033
2013	Imperial Oil Ltd.	Dartmouth, Nova Scotia	1918	13 514

*Re-opened in 1987 as Newfoundland Processing Ltd. Renamed to North Atlantic Refining Ltd. Currently owned by KNOC (Dec '09).

**Re-opened as Kemtec Inc. with no crude capacity.

***Terminal Facility

Table 7.6

REFINERY UTILIZATION RATE - CANADA

	Canada
1947	80
1948	77
1949	79
1950	84
1951	86
1952	85
1953	85
1954	85
1955	86
1956	88
1957	86
1958	78
1959	84
1960	81
1961	85
1962	82
1963	89
1964	88
1965	89
1966	91
1967	86
1968	93
1969	92
1970	95
1971	83
1972	89
1973	91
1974	88
1975	82
1976	77
1977	75
1978	75
1979	83
1980	84
1981	79
1982	70
1983	77
1984	79

Table 7.6

REFINERY UTILIZATION RATE - CANADA

Canada	
1985	76
1986	77
1987	80
1988	83
1989	86
1990	85
1991	80
1992	80
1993	84
1994	87
1995	85
1996	89
1997	89
1998	88
1999	88
2000	91
2001	92
2002	90
2003	88
2004	92
2005	94
2006	92
2007	95
2008	88
2009	78
2010	84
2011	81
2012	81
2013	86
2014	93
2015	89
2016	82
2017	91
2018	81

Table 7.7

YIELDS OF REFINED PETROLEUM PRODUCTS IN CANADA

1952 - 2018

Percent

	Motor Gasoline	Heavy Fuel Oil (NOS. 4-6)	Light Fuel Oil (NOS. 2&3)	Diesel Fuel Oil	Petro-Chem Feedstock	Aviation Fuel(1)	Others	Total
1952	42.0	19.9	11.1	7.1	0.6	1.1	18.2	100
1955	39.6	20.1	16.6	6.8	1.0	1.7	14.2	100
1960	36.2	16.5	19.9	8.4	2.2	2.1	14.7	100
1965	36.1	17.1	19.9	8.6	2.8	2.3	13.2	100
1967	36.0	17.3	15.8	11.4	1.9	2.7	14.9	100
1968	35.6	17.8	15.9	11.6	1.7	2.7	14.7	100
1969	35.8	17.9	15.8	11.5	1.9	2.9	14.2	100
1970	35.1	18.2	15.6	11.8	2.1	3.3	13.9	100
1971	32.8	20.5	15.5	11.9	2.1	3.4	13.8	100
1972	33.0	22.0	14.9	11.5	2.4	3.4	12.8	100
1973	32.9	21.4	15.0	11.4	2.0	3.7	13.6	100
1974	32.9	21.5	14.4	11.2	1.6	3.9	14.5	100
1975	35.4	20.2	13.4	11.6	1.4	4.2	13.8	100
1976	35.7	18.6	13.5	12.2	2.1	4.3	13.6	100
1977	34.3	19.1	13.2	12.6	3.6	4.1	13.1	100
1978	34.8	18.2	12.4	12.9	4.7	4.5	12.5	100
1979	35.0	17.6	14.6	13.2	4.7	4.5	10.4	100
1980	36.1	16.4	14.5	13.6	4.6	4.6	10.2	100
1981	37.4	15.7	12.6	14.1	5.0	4.7	10.5	100
1982	39.5	13.6	12.1	14.6	5.3	4.8	10.1	100
1983	39.3	11.1	10.5	16.1	5.1	4.8	13.1	100
1984	40.9	10.7	10.3	18.8	4.9	4.9	9.5	100
1985	37.3	8.1	8.3	17.4	5.1	5.3	18.5	100
1986	37.1	7.7	9.5	16.6	6.0	5.6	17.5	100
1987	36.6	7.7	8.5	17.3	4.5	5.9	19.5	100
1988	36.5	8.3	7.6	18.5	4.3	5.5	19.3	100
1989	35.4	8.4	7.7	18.2	4.5	5.6	20.2	100
1990	35.1	8.5	7.6	18.5	5.1	5.5	19.7	100
1991	35.5	8.1	7.9	18.1	5.4	4.9	20.1	100
1992	35.8	7.6	8.2	17.3	5.5	4.8	20.8	100
1993	36.6	7.2	10.4	16.4	4.8	4.3	20.3	100
1994	36.9	6.5	9.6	17.7	4.5	4.2	20.6	100
1995	37.4	6.2	9.4	17.4	5.2	4.5	19.9	100
1996	36.9	6.3	9.9	18.0	5.0	4.9	19.0	100
1997	35.9	6.6	8.5	19.4	4.7	5.2	19.7	100
1998	35.7	7.0	7.2	19.8	5.3	5.3	19.5	100
1999	37.3	6.1	7.3	21.0	3.5	5.4	19.4	100
2000	37.5	6.1	7.4	21.8	3.1	4.9	19.2	100
2001	38.0	6.7	8.0	18.3	5.9	4.6	18.6	100
2002	38.6	6.1	7.4	21.1	3.1	4.1	19.5	100
2003	37.1	6.8	7.5	21.8	3.1	4.2	19.4	100
2004	35.9	7.3	7.1	22.2	3.0	4.6	20.0	100
2005	36.1	7.1	7.2	22.2	3.3	4.5	19.6	100
2006	35.1	6.8	6.9	22.9	3.2	4.0	21.1	100
2007	36.1	7.2	7.0	22.6	3.1	4.1	20.0	100
2008	34.7	7.0	7.3	23.1	3.0	4.4	20.4	100
2009	36.4	5.8	7.4	23.6	2.7	4.3	19.8	100
2010	35.7	6.0	6.8	23.9	4.6	4.2	18.8	100
2011	35.1	6.3	7.8	23.9	4.1	3.7	19.1	100
2012	35.5	6.8	6.7	25.8	4.2	4.2	16.8	100
2013	35.4	6.6	7.3	25.6	3.7	4.5	16.9	100
2014*	36.7	6.1	na	26.8	4.3	5.0	21.1	100
2015*	38.2	4.6	na	26.2	4.5	4.9	21.6	100
2016*	39.5	3.9	na	25.5	4.8	5.2	21.1	100
2017*	39.7	4.4	na	27.0	2.1	6.1	20.7	100
2018*	38.0	4.9	na	27.0	2.4	6.2	21.4	100

(1) Includes aviation gasoline and turbo fuel - kero & naptha type.

* Statistics Canada data suppression

Section 8

Imports/Exports

Table

Exports from Canada - Crude Oil & Equivalent & Natural Gas 1952 – Present	8.1
Canadian Exports of Energy Materials 1961 – Present	8.2
Canadian Imports of Energy Materials 1961 – Present	8.3

Note: Refer to Section 7 Table 7.2 for imports by country

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Table 8.1

EXPORTS FROM CANADA

1952 - 2018

	CRUDE OIL & EQUIVALENT			NATURAL GAS		
	Thousand Cubic Metres			Million Cubic Metres at 101.325 kPa and 15°C		
	Total	Daily Average	Million Dollars	Total	Daily Average	Million Dollars
1952	226	1		225	1	
1953	398	1		266	1	
1954	373	1		198	1	
1955	2 357	6		319	1	
1956	6 818	19		304	1	
1957	8 847	24		446	1	
1958	5 034	14		2 464	7	
1959	5 302	15		2 401	7	
1960	6 712	18		2 579	7	
1961	10 194	28		4 764	13	
1962	14 553	40		9 053	25	
1963	14 441	40		9 658	26	
1964	16 091	44		11 448	31	
1965	17 164	47		11 442	31	
1966	19 656	54		12 074	33	
1967	23 891	65		14 310	39	
1968	26 616	73		16 944	46	
1969	31 359	86		18 974	52	
1970	38 280	105		21 759	60	
1971	43 057	118		25 581	70	
1972	54 228	149		28 528	78	
1973	66 752	183		29 204	80	
1974	52 990	145		27 215	75	
1975	41 707	114		26 896	74	
1976	29 030	80		27 026	74	
1977	19 211	53		28 152	77	
1978	15 570	43		25 002	68	
1979	16 727	46		27 906	76	
1980	12 426	34		22 563	62	4 036
1981	9 505	26		21 584	59	4 408
1982	12 164	33		22 197	61	4 809
1983	16 778	46		20 169	55	3 941
1984	20 873	57		21 402	59	3 818
1985	28 300	78		26 153	72	4 010
1986	33 957	93		21 090	58	2 566
1987	36 024	99		28 009	77	2 559
1988	41 284	113		35 913	98	2 959
1989	37 548	103	4 462	37 903	104	3 023
1990	37 976	104	5 532	40 689	111	3 267
1991	44 240	121	6 042	47 688	131	3 590
1992	48 725	133	6 679	57 897	158	4 730
1993	53 285	146	6 904	63 017	173	5 903
1994	57 001	156	7 426	71 403	196	6 428
1995	61 374	168	9 756	79 150	217	5 649
1996	65 258	178	11 078	80 117	219	7 433
1997	70 711	194	11 418	81 795	224	8 626

Table 8.1

EXPORTS FROM CANADA

1952 - 2018

	CRUDE OIL & EQUIVALENT			NATURAL GAS		
	Thousand Cubic Metres			Million Cubic Metres at 101.325 kPa and 15°C		
	Total	Daily Average	Million Dollars	Total	Daily Average	Million Dollars
1998	77 376	212	8 767	89 164	244	8 967
1999	72 824	200	10 121	95 121	261	10 951
2000	80 317	219	19 332	101 246	277	20 554
2001	79 571	218	16 083	108 240	297	25 595
2002	84 917	233	18 015	107 728	295	18 359
2003	89 512	245	20 514	101 472	278	26 084
2004	94 150	257	25 174	105 261	288	27 039
2005	91 642	251	29 994	106 271	291	35 911
2006	102 771	282	37 942	102 102	280	27 798
2007	106 231	291	41 830	108 844	298	28 050
2008	108 693	298	67 439	103 983	285	32 575
2009	109 024	299	42 741	95 240	261	15 958
2010	110 833	304	51 899	95 589	262	15 619
2011	126 210	346	68 798	92 716	254	13 463
2012	136 972	374	74 735	88 290	241	8 858
2013	148 517	407	81 733	82 450	226	10 857
2014	167 102	458	97 449	78 169	214	16 020
2015	176 123	483	64 144	78 162	214	10 026
2016	176 836	483	52 352	81 825	224	8 662
2017	195 064	534	70 129	84 717	232	10 317
2018	206 723	566	86 668	80 292	220	9 653

* Includes exchanges with the United States.

CANADIAN EXPORTS OF ENERGY MATERIALS (1)
1961 - 2018

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Radioactive ores and concentrates:												
Million dollars	192.7	16.6	137.5	74.7	53.7	36.4	23.9	26.1	24.5	2.6	17.7	40.1
Coal:												
Million dollars	8.5	8.6	9.9	12.1	12.8	13.6	15.5	16.7	9.8	29.5	8.7	106.5
Million tonnes	0.8	0.8	0.1	1.2	1.1	1.1	1.2	1.3	1.3	0.4	0.7	7.8
Crude petroleum:												
Million dollars	152.3	232.5	233.9	26.2	28.0	321.7	397.9	446.4	525.8	649.1	787.4	1 007.5
Million cubic metres	10.2	14.6	14.4	16.1	17.2	19.6	23.9	26.6	31.4	38.3	4.3	54.2
Natural Gas:												
Million dollars	41.7	72.4	75.6	97.6	104.3	108.7	123.7	153.8	176.2	20.6	250.7	306.8
Billion cubic metres	4.8	0.9	9.6	11.4	11.4	12.1	14.3	16.9	1.9	21.8	25.6	28.5
Fuel Oil:												
Million dollars	3.2	5.5	5.9	6.4	5.7	6.8	11.2	16.7	2.1	34.8	5.1	123.4
Million litres	166.0	328.0	339.0	368.0	322.0	381.0	556.0	777.0	996.0	1 646.0	2 339.0	5 841.0
Coke:												
Million dollars	3.5	2.1	1.9	1.6	1.3	1.4	1.3	2.2	4.3	6.9	7.4	0.5
Thousand tonnes	206.0	143.0	140.0	97.0	80.0	79.0	76.0	138.0	250.0	297.0	299.0	258.0
Gasoline:												
Million dollars	2.4	3.7	2.1	4.9	1.1	1.9	1.9	2.1	2.2	0.3	1.2	2.4
Million litres	91.0	153.0	76.0	166.0	40.0	69.0	68.0	66.0	70.0	90.0	35.0	77.0
Butane and propane gas (liquefied):												
Million dollars	0.0	0.0	3.2	7.7	10.8	1.5	21.7	23.9	27.2	37.5	4.6	62.9
Million litres	0.0	0.0	28.5	76.8	125.0	164.2	197.3	214.6	252.7	330.5	373.7	498.0
Refined petroleum products												
Million dollars	1.6	4.2	4.7	3.1	2.6	2.4	2.1	3.4	2.4	1.4	7.8	11.9
Electricity:												
Million dollars	15.8	16.5	1.6	1.8	15.5	16.2	16.3	14.3	18.5	34.4	48.2	67.9
Total value - Million dollars	421.7	362.1	476.3	236.1	235.8	510.6	615.5	705.6	793.0	817.1	1 138.8	1 729.9

(1) All value are fob place of lading

Note: Crude Petroleum includes exchanges with the U.S.

Note: For crude petroleum export volumes see Table 8.1

CANADIAN EXPORTS OF ENERGY MATERIALS (1)
1961 - 2018

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Radioactive ores and concentrates:												
Million dollars	64.2	51.3	51.1	67.4	75.4	207.2	378.9	230.7	179.4	358.6	62.6	333.7
Coal:												
Million dollars	165.4	252.4	477.9	557.3	596.4	690.2	731.7	793.6	1 036.7	1 176.3	1 232.0	1 820.5
Million tonnes	10.9	10.8	11.7	11.8	12.1	13.7	13.9	14.3	16.3	15.5	17.0	24.4
Crude petroleum:												
Million dollars	1 482.1	3 419.9	3 051.5	2 286.7	1 750.6	1 572.7	2 404.6	2 899.1	2 505.0	2 728.0	3 456.9	4 404.2
Million cubic metres	66.8	5.3	41.7	29.0	19.2	15.6	16.7	12.4	9.0	12.0	16.8	20.9
Natural Gas:												
Million dollars	350.7	493.6	1 092.2	1 616.5	2 028.1	2 190.3	2 889.1	3 983.9	4 370.1	4 754.7	3 847.5	3 923.0
Billion cubic metres	29.2	27.2	26.9	27.0	28.2	25.0	27.9	22.8	21.7	22.1	19.3	21.4
Fuel Oil:												
Million dollars	155.4	330.9	250.5	136.7	113.3	414.7	931.1	1 042.7	970.6	636.7	937.3	1 140.4
Million litres	6 583.0	5 523.0	3 781.0	2 092.0	1 457.0	4 232.0	4 654.0	4 273.0	3 847.0	2 722.0	3 826.0	4 425.0
Coke:												
Million dollars	10.7	11.0	16.5	20.3	27.9	27.8	29.7	46.3	44.2	28.5	10.0	15.0
Thousand tonnes	370.0	286.0	258.0	322.0	356.0	352.0	354.0	470.0	393.0	236.0	106.0	171.0
Gasoline:												
Million dollars	34.7	18.7	60.1	40.9	38.9	117.8	207.6	197.5	185.3	170.3	339.0	429.2
Million litres	741.0	266.0	775.0	439.0	388.0	972.0	913.0	706.0	601.0	536.0	1 240.0	1 584.0
Butane and propane gas (liquefied):												
Million dollars	93.1	236.0	300.8	350.0	448.3	391.5	524.8	698.7	938.7	1 094.8	1 051.0	1 105.9
Million litres	576.0	561.0	5 870.0	6 841.0	7 452.0	5 752.0	7 789.0	6 443.0	7 005.0	8 086.0	6 546.0	7 166.0
Refined petroleum products												
Million dollars	13.6	4.1	4.1	5.8	11.7	57.5	189.1	332.9	492.5	591.3	466.8	485.0
Electricity:												
Million dollars	109.2	174.6	104.3	161.7	377.0	478.9	729.2	773.0	1 122.6	1 119.6	1 228.4	1 377.8
Million kilowatt hours			7 216.0	9 391.0	16 715.0	20 640.0	30 645.0	28 323.0	33 986.0	33 211.0	36 742.0	37 323.0
Total value - Million dollars	2 479.1	4 992.5	5 409.0	5 243.3	5 467.6	6 148.6	9 015.8	10 998.4	11 845.1	12 658.8	12 631.5	15 034.7

(1) All value are fob place of lading

Note: Crude Petroleum includes exchanges with the U.S.

Note: For crude petroleum export volumes see Table 8.1

CANADIAN EXPORTS OF ENERGY MATERIALS (1)
1961 - 2018

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Radioactive ores and concentrates:												
Million dollars	231.9	166.8	278.1	2.0	37.1	1.4	0.6	1.0	0.6	0.3	0.6	12.4
Coal:												
Million dollars	1 996.4	1 851.0	1 670.0	1 935.1	2 077.2	2 110.3	2 044.3	1 677.6	1 847.7	2 039.4	2 212.1	2 139.8
Million tonnes	27.6	25.9	25.5	29.5	31.8	32.0	32.4	26.1	28.3	31.2	33.8	33.6
Crude petroleum:												
Million dollars	5 916.5	3 774.0	4 855.1	4 010.3	4 462.0	5 532.0	6 042.0	6 679.0	6 904.0	7 426.0	9 756.0	11 078.0
Million cubic metres	27.5	33.6	35.8	41.3	37.5	38.0	44.2	48.7	53.3	57.0	61.4	65.3
Natural Gas:												
Million dollars	3 912.2	2 482.9	2 527.3	2 959.1	3 016.9	3 278.7	3 581.1	4 729.6	5 901.8	6 427.8	5 663.4	7 432.9
Billion cubic metres	25.3	20.9	27.7	35.9	37.9	40.7	47.7	57.9	63.0	71.4	79.1	80.1
Fuel Oil:												
Million dollars	1 155.3	801.6	950.8									
Million litres	4 669.0	4 731.0	5 712.0	7 577.9	7 416.8	8 016.5	8 903.4	7 617.5	7 948.9	7 100.0	7 474.3	8 694.3
Coke:												
Million dollars	19.6	13.7	18.7	13.6	11.6	20.5	6.3	12.3	23.5	28.5	54.7	29.8
Thousand tonnes	215.0	155.0	205.0	234.3	142.4	140.5	49.7	94.0	219.8	230.5	186.0	198.5
Gasoline:												
Million dollars	663.5	380.4	357.8									
Million litres	2 375.0	2 046.0	2 022.0	3 355.3	2 901.7	3 868.5	4 673.6	4 204.3	3 797.1	4 110.7	4 808.8	6 170.8
Butane and propane gas (liquefied):												
Million dollars	991.2	685.9	663.2	584.8	491.6	667.9	729.5	702.8	1 263.5	1 395.7	1 924.5	2 365.3
Million litres	6 323.0	5 646.0	6 492.0	6 972.0	6 216.0	6 016.0	7 073.0	5 915.0	9 216.0	9 998.0	19 003.0	17 927.0
Refined petroleum products												
Million dollars	495.2	206.7	198.0	1 514.7	1 459.9	2 290.1	2 324.9	1 957.6	2 164.7	2 033.4	2 202.8	3 214.7
Electricity:												
Million dollars	1 408.1	1 079.7	1 199.8	897.8	661.5	538.3	556.8	714.0	857.4	1 311.1	1 174.9	1 213.5
Million kilowatt hours	41 370.0	34 998.0	45 318.0	30 441.0	18 459.0	16 231.0	19 784.0	26 217.0	29 364.0	44 308.0	40 378.0	41 583.0
Total value - Million dollars	16 789.9	11 442.7	12 718.8	12 658.3	12 757.4	14 886.0	15 756.5	16 997.0	19 199.1	20 976.3	22 790.4	27 749.7

(1) All values are fob place of lading

Note: Crude Petroleum includes exchanges with the U.S.

Note: For crude petroleum export volumes see Table 8.1

CANADIAN EXPORTS OF ENERGY MATERIALS (1)
1961 - 2018

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Radioactive ores and concentrates:												
Million dollars	1.1	2.7	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Coal:												
Million dollars	2 587.1	2 344.3	1 880.6	1 659.7	1 824.5	1 669.7	1 545.7	1 704.6	3 204.2	3 210.5	2 915.5	6 114.1
Million tonnes	35.8	33.0	33.7	31.5	29.6	26.2	25.0	25.7	28.1	27.6	30.6	31.3
Crude petroleum:												
Million dollars	11 418.0	8 767.0	10 121.0	19 332.0	16 083.0	18 015.0	20 514.0	25 174.0	29 994.6	37 952.4	41 848.8	67 448.5
Million cubic metres	70.7	77.4	72.8	80.3	79.6	84.9	89.5	94.1	91.6	102.8	106.2	108.7
Natural Gas:												
Million dollars	8 625.5	8 967.1	10 951.4	20 622.1	25 595.1	18 372.0	25 998.9	27 438.3	35 912.0	27 803.2	28 050.8	32 576.6
Billion cubic metres	81.8	89.2	95.1	101.2	108.2	107.7	101.5	105.3	106.3	102.1	108.8	104.0
Fuel Oil:												
Million dollars												
Million litres	8 629.5	8 029.9	8 697.2	8 030.1	10 145.8	10 936.7	11 825.5	12 724.2	12 156.4	12 339.6	13 069.4	14 001.3
Coke:												
Million dollars	21.5	34.4	30.1	33.7	15.4	11.8	14.0	42.3	66.5	20.4	43.8	19.1
Thousand tonnes	140.4	165.0	183.4	149.8	58.0	97.1	117.8	133.4	239.7	78.6	178.0	37.7
Gasoline:												
Million dollars												
Million litres	6 277.9	5 314.1	5 921.0	6 134.3	8 877.7	9 512.2	9 347.1	9 110.8	9 357.3	8 066.6	8 560.7	7 525.2
Butane and propane gas (liquefied):												
Million dollars	2 203.4	1 051.7	1 093.9	2 121.0	2 128.0	1 750.0	2 229.0	2 200.0	2 374.9	2 307.8	2 295.7	2 870.7
Million litres	14 271.0	10 953.0	8 524.0	11 347.0	9 600.0	11 279.0	10 939.0	9 441.0	8 605.9	8 123.3	7 425.3	7 734.2
Refined petroleum products												
Million dollars	3 079.5	2 283.8	2 813.8	4 787.6	5 929.4	6 111.1	7 012.9	7 683.7	10 340.2	7 700.6	7 936.9	11 474.3
Electricity:												
Million dollars	1 356.0	1 546.9	1 978.5	4 059.0	4 217.6	1 797.3	1 821.0	1 955.0	3 107.5	2 396.0	3 096.1	3 788.2
Million kilowatt hours	42 718.0	38 710.0	45 003.0	48 410.0	38 425.0	37 269.0	28 046.0	32 310.0	42 332.4	39 703.5	49 322.0	55 714.4
Total value - Million dollars	29 478.3	25 838.8	29 580.9	53 120.5	56 830.6	48 722.3	60 071.0	66 895.5	86 927.5	83 789.6	90 485.9	126 536.0

(1) All value are fob place of lading

Note: Crude Petroleum includes exchanges with the U.S.

Note: For crude petroleum export volumes see Table 8.1

CANADIAN EXPORTS OF ENERGY MATERIALS (1)
1961 - 2018

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Radioactive ores and concentrates:										
Million dollars	0.0	1.6	0.8	7.6	20.3	25.6	17.6	10.2	15.8	75.1
Coal:										
Million dollars	4 835.7	5 968.5	8 002.4	6 325.7	5 508.1	4 167.0	3 449.9	4 439.9	6 757.3	7 516.3
Million tonnes	26.9	33.0	33.4	34.7	39.0	34.2	30.2	30.2	31.0	33.7
Crude petroleum:										
Million dollars	42 834.6	51 949.7	68 804.3	74 735.1	81 735.9	97 448.8	64 144.1	52 351.8	70 129.4	86 668.2
Million cubic metres	109.0	110.8	126.2	137.0	148.5	167.1	176.1	176.8	195.1	206.7
Natural Gas:										
Million dollars	15 957.8	15 619.7	13 462.8	8 859.1	10 856.9	16 020.1	10 026.1	8 661.6	10 317.2	9 653.5
Billion cubic metres	95.2	95.6	92.7	88.3	82.4	78.2	78.2	81.8	84.7	80.3
Fuel Oil:										
Million dollars										
Million litres	12 289.7	11 559.2	10 755.5	13 728.4 na		na	na	na	na	na
Coke:										
Million dollars	56.3	15.5	101.6	152.6	5.1	7.5	14.1	8.4	1.5	14.7
Thousand tonnes	211.9	73.2	297.7	420.1	28.5	60.6	76.4	44.0	5.1	38.9
Gasoline:										
Million dollars										
Million litres	7 910.6	8 689.7	7 599.7	8 075.2	8 377.6	8 225.9	9 734.3	9 933.5	11 080.8	9 052.8
Butane and propane gas (liquefied):										
Million dollars	1 920.0	1 923.1	2 050.7	1 857.5	1 866.0	2 197.9	1 371.0	1 359.4	2 430.7	3 020.1
Million litres	6 774.4	6 048.7	5 752.1	6 401.4	6 535.6	6 532.3	7 004.3	8 474.3	9 774.7	11 088.0
Refined petroleum products										
Million dollars	7 256.3	8 936.4	10 520.7	14 136.7	12 678.2	11 482.2	10 255.4	7 028.3	9 942.9	10 955.9
Electricity:										
Million dollars	2 382.8	2 022.4	2 031.3	1 926.6	2 443.6	2 945.8	3 136.8	2 914.1	2 936.0	2 912.0
Million kilowatt hours	51 722.6	43 798.6	51 076.8	57 971.1	61 991.7	58 794.0	68 446.2	73 531.9	72 290.8	61 380.8
Total value - Million dollars	77 379.5	88 900.2	107 919.7	110 160.8	117 684.0	136 198.3	94 658.8	79 266.6	104 563.7	122 942.9

(1) All value are fob place of lading

Note: Crude Petroleum includes exchanges with the U.S.

Note: For crude petroleum export volumes see Table 8.1

CANADIAN IMPORTS OF ENERGY MATERIALS (1)

1961 - 2018

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Radioactive ores and concentrates:											
Million dollars											
Coal:											
Million dollars	71.7	74.3	78.8	86.5	126.2	141.0	145.5	160.4	144.6	150.8	151.4
Million tonnes	10.3	10.6	11.4	13.0	14.5	14.4	14.2	15.1	15.3	16.8	16.1
Crude Petroleum:*											
Million dollars	291.2	304.9	334.8	320.6	312.3	299.0	355.4	372.6	393.5	415.2	541.1
Million cubic metres	21.2	21.4	23.5	22.8	22.9	23.2	27.1	28.2	30.7	33.0	38.9
Natural Gas:											
Million dollars	1.7	1.8	2.4	2.9	5.8	17.6	19.9	35.4	16.0	5.1	7.0
Million cubic metres	158.0	158.0	195.0	228.0	444.0	1.2	1.5	2.5	1.1	336.0	454.0
Crude bituminous substances, nes:											
Million dollars	1.1	0.8	1.0	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Aviation gasoline and motor gasoline, nes:											
Million dollars	10.2	8.0	10.0	9.3	9.6	10.8	17.3	16.8	25.8	20.1	18.3
Million litres	283.0	234.0	392.0	382.0	377.0	408.0	717.0	685.0	989.0	827.0	763.0
Aviation turbine fuel, kerosene, fuel oil, diesel fuel:											
Million dollars	67.1	66.3	71.5	77.0	109.4	102.8	119.8	142.5	131.4	122.0	123.0
Million litres	1 949.0	1 680.0	1 830.0	5 321.0	8 199.0	7 913.0	9 413.0	10 036.0	9 558.0	9 340.0	7 363.0
Coke:											
Million dollars	11.1	10.1	10.5	13.2	18.1	21.0	19.0	12.2	20.9	26.6	33.3
Thousand tonnes	594.0	531.0	548.0	686.0	892.0	983.0	864.0	741.0	893.0	1.1	1.3
Liquefied petroleum gases:											
Million dollars	2.8	4.2	5.0	2.1	5.6	2.3	4.6	3.4	4.3	3.0	1.9
Petroleum products:											
Million dollars	-	-	-	2.3	1.8	4.4	4.3	2.9	4.5	2.5	3.0
Electricity:											
Million dollars	1.4	3.4	11.4	12.3	13.7	10.2	10.0	11.7	8.7	12.4	10.6
Million kilowatt hours	312.0	813.0	2 879.0	2 995.0	3 405.0	2 352.0	2 524.0	2 636.0	2 248.0	2 882.0	2 409.0
Total value:											
Million dollars	458.3	473.8	525.4	526.5	602.6	609.2	695.9	758.1	749.8	757.8	889.7

(1) All values are fob place of origin

CANADIAN IMPORTS OF ENERGY MATERIALS (1)

1961 - 2018

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Radioactive ores and concentrates:											
Million dollars											
Coal:											
Million dollars	178.8	161.5	297.8	560.9	533.5	605.9	616.6	854.1	787.8	812.9	911.8
Million tonnes	17.1	14.5	12.2	15.0	14.4	15.0	13.0	17.4	15.7	14.7	15.5
Crude Petroleum:*											
Million dollars	680.7	942.5	2 646.2	3 301.9	3 280.1	3 215.2	3 457.0	4 497.2	6 919.1	8 004.2	4 979.3
Million cubic metres	44.7	52.1	46.3	47.4	44.0	38.0	36.8	35.3	32.7	30.7	19.7
Natural Gas:											
Million dollars	7.6	7.8	5.8	7.8	8.8	-	0.1	0.2	0.3	0.6	0.5
Million cubic metres	446.0	416.0	261.0	296.0	254.0	0.1	1.7	3.2	2.9	4.1	2.5
Crude bituminous substances, nes:											
Million dollars	0.2	0.2	0.3	0.2	0.4	42.8	2.2	0.7	0.7	0.5	0.5
Aviation gasoline and motor gasoline, nes:											
Million dollars	13.0	2.2	0.9	3.2	1.5	0.4	0.4	11.3	79.9	32.1	6.6
Million litres	509.0	53.0	10.0	34.0	13.0	2.0	3.0	37.0	281.0	111.0	23.0
Aviation turbine fuel, kerosene, fuel oil, diesel fuel:											
Million dollars	119.9	131.7	236.2	107.1	78.8	115.9	114.3	140.1	314.8	337.1	314.7
Million litres	7 023.0	6 162.0	3 893.0	1 523.0	1 232.0	1 345.0	1 357.0	968.0	1 714.0	1 431.0	1 579.0
Coke:											
Million dollars	29.6	27.6	54.7	80.7	54.1	87.4	110.0	106.6	116.8	162.7	120.7
Thousand tonnes	1.0	995.0	1.3	1 119.0	877.0	1 267.0	1 527.0	1 362	1 312.0	1 436.0	1 051
Liquefied petroleum gases:											
Million dollars	2.2	3.5	4.2	3.9	10.0	4.1	5.6	6.4	27.7	160.4	236.8
Petroleum products:											
Million dollars	7.0	6.6	9.3	8.7	8.7	8.8	10.8	13.2	19.5	37.4	65.7
Electricity:											
Million dollars	8.5	6.4	5.2	12.6	9.2	14.7	1.8	0.7	2.6	5.9	5.3
Million kilowatt hours	1 823.0	1 970.0	1 642.0	2 940.0	1 910.0	1 170.0	193.0	25.0	154.0	473.0	268.0
Total value:											
Million dollars	1 047.5	1 290.0	3 260.6	4 087.0	3 985.1	4 095.2	4 318.8	5 630.5	8 269.2	9 553.8	6 641.9

(1) All values are fob place of origin

CANADIAN IMPORTS OF ENERGY MATERIALS (1)

1961 - 2018

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Radioactive ores and concentrates:						73.8	107.3	108.6	62.3	111.5	98.8
Million dollars											
Coal:											
Million dollars	821.7	1 070.2	864.6	710.7	688.9	729.7	686.7	611.4	472.4	591.7	411.1
Million tonnes	14.5	18.8	14.8	13.0	13.8	15.3	15.0	14.8	11.7	13.8	8.7
Crude Petroleum:*											
Million dollars	3 319.2	3 375.6	3 700.4	2 884.6	3 179.4	2 823.7	3 607.5	5 300.2	4 488.7	4 142.3	4 482.5
Million cubic metres	14.6	14.8	15.9	20.2	21.8	23.5	28.3	31.8	30.8	29.4	33.0
Natural Gas:											
Million dollars	0.2	0.2	0.2	0.3 -	-	0.3	0.2	0.5	32.2	50.0	47.2
Million cubic metres	1.1	0.9	1.0	1.8 -	-	-	-	-	-	100.0	467.0
Crude bituminous substances, nes:											
Million dollars	0.5	0.6	0.8	0.8	0.6	2.1	2.4	49.8	55.8	53.6	57.4
Aviation gasoline and motor gasoline, nes:											
Million dollars	124.9	177.9	274.0	239.5	317.9						
Million litres	437.0	625.0	966.0	1 350.0	1 575.0						
Aviation turbine fuel, kerosene, fuel oil, diesel fuel:											
Million dollars	409.8	962.4	851.1	733.9	721.9						
Million litres	1 800.0	3 850.0	3 353.0	4 212.0	4 602.0						
Coke:											
Million dollars	135.3	163.9	177.6	181.1	163.5	187.0	207.0	191.1	49.7	52.4	72.4
Thousand tonnes	1 355.0	1 547.0	1 676.0	1 822	1 664	2 458.0	2 085.0	1 922.0	483.0	467.0	766.0
Liquefied petroleum gases:											
Million dollars	197.5	157.3	128.7	202.0	167.5	85.0	73.5	121.7	107.8	89.8	64.7
Petroleum products:											
Million dollars	57.9	46.6	88.6	120.0	178.4	1 150.1	1 349.9	1 583.2	1 285.5	1 269.5	1 331.9
Electricity:											
Million dollars	2.5	12.9	8.1	9.2	9.0	57.4	222.4	557.5	50.2	75.5	85.1
Million kilowatt hours	117.0	373.0	206.0	231.0	375.0	2 684.0	7 299.0	15 133.0	1 724.0	1 842.0	2 786.0
Total value:											
Million dollars	5 069.5	5 967.6	6 094.1	5 082.1	5 427.1	5 109.1	6 256.9	8 524.0	6 604.6	6 436.3	6 651.1

(1) All values are fob place of origin

CANADIAN IMPORTS OF ENERGY MATERIALS (1)

1961 - 2018

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Radioactive ores and concentrates:										
Million dollars	171.1	160.1	244.0	207.2	209.0	280.0	236.6	217.7	208.8	192.6
Coal:										
Million dollars	433.7	475.2	571.5	687.6	929.1	922.0	946.5	1 028.1	1 092.6	869.4
Million tonnes	9.1	9.7	11.7	14.7	19.8	19.9	35.0	19.4	22.7	22.1
Crude Petroleum:*										
Million dollars	4 759.6	5 707.9	7 268.7	8 623.7	6 413.4	6 912.2	13 668.6	12 620.0	12 006.6	13 811.4
Million cubic metres	36.2	39.9	45.2	51.8	52.9	45.8	53.0	52.8	52.7	54.3
Natural Gas:										
Million dollars	82.7	45.4	108.9	135.9	103.2	86.4	227.2	370.1	581.2	1 499.5
Million cubic metres	1 038.0	674.0	1 218.0	1 270.0	792.0	804.0	1 627.0	1 272.0	3 324.0	5 491.0
Crude bituminous substances, nes:										
Million dollars	52.4	112.1	104.1	90.9	32.3	55.7	86.1	83.8	53.4	54.3
Aviation gasoline and motor gasoline, nes:										
Million dollars										
Million litres										
Aviation turbine fuel, kerosene, fuel oil, diesel fuel:										
Million dollars										
Million litres										
Coke:										
Million dollars	198.3	148.5	132.6	112.7	310.9	282.0	130.9	137.1	102.8	105.5
Thousand tonnes	2 068.0	1 355.0	1 154.0	1 027.6	2 110.0	1 919.0	1 067.2	1 291.6	1 092.0	655.3
Liquefied petroleum gases:										
Million dollars	53.1	133.2	129.3	55.9	106.1	115.1	213.9	213.0	90.4	128.3
Petroleum products:										
Million dollars	1 286.8	1 167.3	1 415.6	1 810.9	1 703.4	1 765.9	2 351.9	2 654.0	2 065.6	2 783.6
Electricity:										
Million dollars	42.7	75.0	97.4	202.8	312.7	346.6	621.2	1 820.1	450.0	1 052.2
Million kilowatt hours	724.0	2 380.0	1 207.8	5 125.6	12 056.0	12 699.0	11 692.0	16 463.0	13 007.0	22 544.0
Total value:										
Million dollars	7 080.4	8 024.7	10 072.1	11 927.6	10 120.1	10 765.9	18 482.9	19 143.9	16 651.4	20 496.8

(1) All values are fob place of origin

CANADIAN IMPORTS OF ENERGY MATERIALS (1)

1961 - 2018

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Radioactive ores and concentrates:										
Million dollars	277.5	340.3	391.3	521.1	586.9	577.2	683.1	971.8	872.3	920.9
Coal:										
Million dollars	982.2	1 233.0	1 256.3	1 035.7	1 249.7	1 031.8	1 031.9	901.3	926.0	681.7
Million tonnes	19.1	20.7	20.4	18.0	20.1	12.6	12.3	9.0	9.3	8.2
Crude Petroleum:*										
Million dollars	16 046.8	23 361.0	24 115.3	33 954.0	21 044.6	23 764.3	28 909.5	28 909.5	29 763.2	27 019.6
Million cubic metres	54.4	56.8	52.5	52.7	52.2	51.4	47.6	44.2	44.3	40.2
Natural Gas:										
Million dollars	2 557.8	3 576.6	2 383.5	3 162.2	4 491.8	3 167.5	3 524.8	3 956.7	2 848.2	3 804.6
Million cubic metres	10 235.0	12 274.7	8 264.2	11 181.1	13 863.4	16 375.7	20 117.5	25 555.6	25 962.4	25 922.9
Crude bituminous substances, nes:										
Million dollars	102.6	73.9	152.5	144.9	255.7	194.1	229.4	283.8	290.3	160.3
Aviation gasoline and motor gasoline, nes:										
Million dollars										
Million litres										
Aviation turbine fuel, kerosene, fuel oil, diesel fuel:										
Million dollars										
Million litres										
Coke:										
Million dollars	196.4	150.1	111.7	139.8	476.7	72.7	204.8	121.8	94.2	59.8
Thousand tonnes	987.5	948.0	839.4	757.0	1 335.6	346.0	760.7	403.3	340.0	338.8
Liquefied petroleum gases:										
Million dollars	148.3	166.7	165.4	267.8	263.9	120.0	129.8	107.5	79.1	192.5
Petroleum products:										
Million dollars	3 664.6	5 326.1	5 994.7	5 985.2	9 537.9	5 891.2	7 327.5	11 844.5	9 706.1	11 035.4
Electricity:										
Million dollars	1 074.2	1 274.6	1 159.1	1 031.2	1 319.5	654.1	649.1	370.3	232.5	367.2
Million kilowatt hours	22 168.0	19 676.7	23 623.8	19 380.1	23 864.1	18 163.4	18 686.2	14 384.6	11 392.3	10 675.3
Total value:										
Million dollars	25 050.4	35 502.2	35 729.8	46 241.9	39 226.7	35 472.8	42 689.9	47 467.1	44 811.9	44 242.0

(1) All values are fob place of origin

CANADIAN IMPORTS OF ENERGY MATERIALS (1)

1961 - 2018

	2014	2015	2016	2017	2018
Radioactive ores and concentrates:					
Million dollars	433.0	500.1	489.6	272.5	
Coal:					
Million dollars	707.1	821.1	605.5	806.5	975.1
Million tonnes	7.5	7.3	6.1	7.1	7.3
Crude Petroleum:*					
Million dollars	23 792.2	16 776.2	14 368.0	16 591.1	19 362.3
Million cubic metres	36.9	42.0	42.2	39.2	36.5
Natural Gas:					
Million dollars	4 904.6	2 826.2	2 112.4	3 415.2	2 810.4
Million cubic metres	21 593.0	19 235.8	18 171.2	23 498.8	19 530.7
Crude bituminous substances, nes:					
Million dollars	197.4	120.4	78.4	77.9	99.8
Aviation gasoline and motor gasoline, nes:					
Million dollars					
Aviation turbine fuel, kerosene, fuel oil, diesel fuel:					
Million dollars					
Coke:					
Million dollars	247.0	220.7	196.2	247.2	276.9
Thousand tonnes	896.7	922.7	978.4	846.2	1 101.3
Liquefied petroleum gases:					
Million dollars	62.6	34.3	23.1	22.6	24.4
Petroleum products:					
Million dollars	13 953.4	10 537.0	9 524.7	10 125.8	14 025.9
Electricity:					
Million dollars	622.0	306.3	256.7	240.8	509.8
Million kilowatt hours	12 817.5	8 717.2	9 443.2	9 948.8	13 188.0
Total value:					
Million dollars	44 919.3	32 142.3	27 654.6	31 799.7	38 084.7

(1) All values are fob place of origin