

CATALOGUE No.

26-006

MONTHLY

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

DOMINION BUREAU
OF STATISTICS

MAY 21 1969

Vol. 20, No. 9

Price: 20 cents, \$1.00 a year
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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

SEPTEMBER 1968

The production of crude petroleum and equivalent hydrocarbons during September 1968 amounted to 34,816,157 barrels, 1,160,538 barrels/day, an increase of 7.6 per cent or 82,422 barrels per day from September 1967. The production figures for all petroleum liquids for the two years are as follows:

	September 1967		September 1968	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensate	30.0	999,348	32.3	1,076,024
Pentanes plus	2.4	78,769	2.5	84,514
Propane and butanes	1.8	61,243	2.1	69,380
Totals	34.2	1,139,360	36.9	1,229,918

The disposition of Canadian crude and equivalent for September 1968 was 19.1 million barrels (55.0 per cent) to Canadian refineries and 16.7 million barrels (47.9 per cent) was exported. The difference of 2.9 per cent between supply and sales is accounted for by inventory changes, industry own use, etc. Imported crude petroleum for the same period amounted to 13.1 million barrels, (437,922 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 32.3 million barrels (1,075,773 barrels/day).

Natural gas production increased 12.7 per cent to 143,443,878 Mcf. from 127,291,770 Mcf. in September 1967. The disposition of natural gas for September 1968 is as follows: 24.2 million was net deliveries to storage and injection operations; 23.8 million was used, lost or unaccounted for in fields and processing plants and 47.3 million was exported; 19.2 million was sold to ultimate customers in the prairies, 11.6 million in Ontario, 6.1 in British Columbia and 3.4 million in Quebec. The remaining 7.8 million Mcf. was accounted for by other deliveries, pipeline fuel, losses and line pack fluctuations.

Table 1 includes production of crude petroleum and equivalent hydrocarbons, of propane and of butanes. Pentanes plus represent the crude oil equivalent production at gas processing plants. Propane and butanes represent the net withdrawals from gas processing plants.

Table 2 Supply and Disposition of Crude oil and Equivalent. Disposition is given to the first stage of marketing, either directly as deliveries to refineries or export. The companion publication "Refined Petroleum Products" gives the disposition of crude oil received by the refinery including the sales of various refined petroleum products. Inventories held by purchasers and refiners in field and pipeline are included in Table 2, while inventories held by refiners in a refinery complex are excluded. Details on the movement of crude oil by pipeline are given in another companion report "Oil Pipeline Transport", Catalogue number 55-001.

All volumes of crude oil are given in barrels of 35 Canadian gallons at 60° F. Details of production are published by the individual provinces.

In Table 3, disposition is given to the ultimate delivery by the gas utilities. Deliveries of natural gas to storage are considered as terminated, and therefore receipts from storage originate in the province where the storage is located. Field flared and waste gas are not considered as net new production; however, processing plant flared and waste gas are included and constitute a disposition end use.

A companion publication "Gas Utilities", Catalogue number 55-002 provides additional details on the movement and sales of natural gas.

All volumes of natural gas in this report are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60° F.

Sulphur volumes are expressed in short tons measured at 2,000 pounds.

Manufacturing and Primary Industries Division

May 1969
6503-513

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province September 1968

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January	668	101,554	489,030	7,686,615	20,346,659 ^r	1,755,611	79,213	30,459,350 ^r
February	658	102,588	470,605	7,168,671	21,011,146	1,700,136	56,864	30,510,668 ^r
March	721	108,845	521,652	7,535,524	22,392,489 ^r	1,830,462	79,490	32,469,183 ^r
April	638	101,371	511,806	7,099,325	19,981,554 ^r	1,574,233	46,392	29,315,319 ^r
May	711	88,428	526,223	6,884,419	20,178,104 ^r	1,786,369	18,989	29,483,243 ^r
June	611	87,199	519,115	7,871,743	19,488,755 ^r	1,830,876	57,128	29,855,427 ^r
July	561	92,387	535,180	7,899,344	22,427,683 ^r	1,904,977	92,678	32,952,810 ^r
August	626	92,202	536,008	8,189,420	23,201,635 ^r	2,004,822	94,234	34,118,947 ^r
September	663	95,252	514,420	7,926,060	21,767,172	1,883,115	94,053	32,280,735
October								
November								
December								
<u>Pentanes plus</u>								
January	-	-	-	22,162	2,653,132	90,518	-	2,765,812
February	-	-	-	24,802	2,652,132	95,568	-	2,772,502
March	-	-	-	24,028	2,829,850	83,882	-	2,937,760
April	-	-	-	25,541	2,628,026	77,006	-	2,730,573
May	-	-	-	29,708	2,353,102 ^r	76,010	-	2,458,820
June	-	-	-	30,036	2,285,161 ^r	71,376	-	2,386,573
July	-	-	-	33,107	2,290,749	63,985	-	2,387,841
August	-	-	-	31,827	2,493,140	63,175	-	2,588,142
September	-	-	-	30,468	2,433,857	71,097	-	2,535,422
October								
November								
December								
<u>Propane</u>								
January	-	-	-	76,117	1,298,723 ^r	35,307	-	1,410,147
February	-	-	-	77,901	1,228,445 ^r	35,669	-	1,342,015
March	-	-	-	76,284	1,248,886 ^r	35,807	-	1,360,977
April	-	-	-	77,614	1,168,915 ^r	24,856	-	1,271,385
May	-	-	-	82,625	1,154,627 ^r	26,641	-	1,263,893
June	-	-	-	75,002	988,081 ^r	31,049	-	1,094,132
July	-	-	-	75,210	1,055,654 ^r	31,188	-	1,162,052
August	-	-	-	77,052	1,123,570 ^r	26,875	-	1,227,497
September	-	-	-	80,622	1,136,673 ^r	32,175	-	1,249,470
October								
November								
December								
<u>Butanes</u>								
January	-	-	-	31,042	858,698 ^r	46,454	-	936,194
February	-	-	-	30,464	802,252 ^r	42,605	-	875,321
March	-	-	-	32,484	809,060 ^r	45,836	-	887,380
April	-	-	-	34,056	741,222 ^r	39,741	-	815,019
May	-	-	-	37,330	759,717 ^r	35,806	-	832,853
June	-	-	-	34,393	697,053 ^r	39,443	-	770,889
July	-	-	-	33,190	708,887 ^r	42,668	-	784,745
August	-	-	-	35,074	759,208 ^r	39,526	-	833,808
September	-	-	-	35,929	752,600 ^r	43,412	-	831,941
October								
November								
December								
Total September 1968	663	95,252	514,420	8,073,079	26,090,302	2,029,799	94,053	36,897,568
Total year to date	5,857	869,826	4,624,039	69,515,189	230,706,617	17,618,276	619,041	323,958,845
Total September 1967	687	95,162	475,707	7,779,843	23,863,453	1,877,557	88,384	34,180,793

^r Revised figures.

TABLE 2. Supply and Disposition of Crude Oil and equivalent, by Source, Canada September 1968

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources
barrels of 35 Canadian gallons										
<u>Supply</u>										
<u>Domestic production</u>										
Crude oil	663	95,252	514,420	7,926,060	22,183,793(1)	1,878,581	101,405	32,700,174	...	32,700,174
Less returned to formation	-	-	-	-	477,493	-	7,352	484,845	...	484,845
Condensate	-	-	-	-	60,872	4,534	-	65,406	...	65,406
Pentanes plus	-	-	-	30,468	2,433,857	71,097	-	2,535,422	...	2,535,422
Net withdrawals	663	95,252	514,420	7,956,528	24,201,029	1,954,212	94,053	34,816,157	...	34,816,157
Imports .....	...	...	...	...	...	...	...	...	13,137,655	13,137,655
Total supply	663	95,252	514,420	7,956,528	24,201,029	1,954,212	94,053	34,816,157	13,137,655	47,953,812
<u>Disposition</u>										
<u>Deliveries to refineries</u>										
Atlantic Provinces	-	-	-	-	-	-	-	-	2,571,349	2,571,349
Quebec	-	-	-	-	-	-	-	-	10,539,879	10,539,879
Ontario	-	95,252	652,210	3,659,566	4,846,504	-	-	9,253,532	25,185	9,278,717
Manitoba	-	-	15,706	706,678	563,348	-	-	1,285,732	-	1,285,732
Saskatchewan	-	-	-	291,251	1,578,807	-	-	1,870,058	-	1,870,058
Alberta	-	-	-	102,558	3,092,137	-	-	3,194,695	-	3,194,695
British Columbia	-	-	-	-	1,709,474	1,749,079	-	3,458,553	-	3,458,553
Northwest Territories	-	-	-	-	-	-	74,210	74,210	-	74,210
Totals	-	95,252	667,916	4,760,053	11,790,270	1,749,079	74,210	19,136,780	13,136,413	32,273,193
<u>Exports to U.S.A.</u>										
Petroleum Administration:										
District I	-	-	-	202,176	1,832,261	-	-	2,034,437	-	2,034,437
II and III	-	-	96,306	3,019,110	4,927,976	-	-	8,043,392	-	8,043,392
IV	-	-	-	-	1,205,127	-	-	1,205,127	-	1,205,127
V	-	-	-	-	5,143,977	257,115	-	5,401,092	-	5,401,092
Totals	-	-	96,306	3,221,286	13,109,341	257,115	-	16,684,048	-	16,684,048
<u>Inventories</u>										
Opening - Field and plant	7,207	-	76,248	388,425	1,459,238	- 30,606	56,576	1,957,088	-	1,957,088
Transporters'	-	-	355,804	4,381,941	22,464,205	1,396,059	-	28,598,009	359,835	28,957,844
Closing - Field and plant	6,790	-	70,751	409,099	1,535,354	- 15,854	76,419	2,082,559	-	2,082,559
Transporters'	-	-	111,516	4,328,330	21,563,226	1,379,189	-	27,382,261	359,835	27,742,096
Net change	- 417	-	- 249,785	- 32,937	- 824,863	- 2,118	19,843	- 1,090,277	-	- 1,090,277
Deliveries to other purchasers	1,058	-	-	7,496	- 6,994	960	-	2,520	-	2,520
Pipeline fuel	-	-	-	-	20,976	-	-	20,976	-	20,976
Field and plant use	57	-	-	2,625	61,666	-	-	64,348	-	64,348
Losses and adjustments	- 35	-	- 17	- 1,995	50,633	- 50,824	-	- 2,238	1,242	- 996
Total disposition	663	95,252	514,420	7,956,528	24,201,029	1,954,212	94,053	34,816,157	13,137,655	47,953,812

... Figures not appropriate or not applicable.

(1) Includes 612,368 barrels of synthetic crude oil.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, September 1968

No.		New Brunswick and Quebec	Ontario	Saskatchewan
			Mcf.	
<u>A. FIELD AND PROCESSING PLANTS</u>				
<u>Supply</u>				
1	Gross new production	16,473	936,993	4,948,003
2	Less field flared and waste	-	-	973,422
3	Net new production (1 - 2)	16,473	936,993	3,974,581
4	Reproduced	-	-	-
5	Less injected and stored	-	-	136
6	Net withdrawals	16,473	936,993	3,974,445
<u>Disposition</u>				
7	Field disposition and uses	125	-	319,927
8	Gathering system disposition and uses	-	-	50,049
9	Processing plant disposition and uses:			
9a	Processing shrinkage	-	-	218,198
9b	Other disposition and uses	-	-	180,515
10	Other uses	-	-	102,950
11	Adjustment	-	-	- 57,435
12	Deliveries of marketable gas	16,348	936,993	3,160,241
13	Total disposition	16,473	936,993	3,974,445
<u>B. GAS UTILITIES</u>				
<u>Supply</u>				
14	Receipts of marketable gas			
14a	Plants	-	-	1,430,686
14b	Fields	16,239	936,993	1,669,555
15	Total (14a + 14b)	16,239	936,993	3,160,241
16	Receipts from distributor storage	-	152,758	18,273
17	Other receipts	-	-	-
18	Total supply of marketable gas (15 + 16 + 17)	16,239	1,089,751	3,178,514
<u>Disposition</u>				
<u>Sales</u>				
19	British Columbia	-	-	-
20	Alberta	-	-	-
21	Saskatchewan	-	-	2,547,989
22	Manitoba	-	-	-
23	Ontario	-	878,841	-
24	Quebec	8,829	-	-
25	New Brunswick	3,770	-	-
26	Total sales (19 to 25 inclusive)	12,599	878,841	2,547,989
27	Exports	-	-	-
28	Other deliveries(1)	-	-	349,959
29	Delivered to distributor storage	-	-	3,934
30	Pipeline line pack fluctuation	-	-	3,934
31	Pipeline fuel	-	170,682	108,765
32	Pipeline losses etc.	3,640	40,228	167,867
33	Total disposition of marketable gas (26 to 32 inclusive)	16,239	1,089,751	3,178,514

(1) Direct deliveries for industrial consumption and miscellaneous utility deliveries.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, September 1968

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
122,371,200 4,538,355	21,560,553 881,408	86,785 82,944	149,920,007 6,476,129	...	149,920,007 6,476,129	1 2
117,832,845	20,679,145	3,841	143,443,878	...	143,443,878	3
18,350,491	640,442	-	18,991,069	...	18,991,069	4 5
99,482,354	20,038,703	3,841	124,452,809	...	124,452,809	6
933,827 174,095	327,253 -	-	1,581,132 224,144	...	1,581,132 224,144	7 8
14,941,337 5,384,560 64,926 - 1,216,568 79,200,177	523,962 1,558,403 - 322,816 17,306,269	- - 3,841 - -	15,683,497 7,123,478 171,717 - 951,187 100,620,028	...	15,683,497 7,123,478 171,717 - 951,187 100,620,028	9a 9b 10 11 12
99,482,354	20,038,703	3,841	124,452,809	...	124,452,809	13
45,051,238 14,138,939	17,087,226 219,043	-	83,629,150 16,990,769	...	83,629,150 16,990,769	14a 14b
79,200,177	17,306,269	-	100,619,919	...	100,619,919	15
60,438 3,121	- 98	-	231,469 3,219	...	231,469 5,655,136	16 17
79,263,736	17,306,367	-	100,854,607	5,655,136	106,509,743	18
903,207 12,293,160 2,373,503 2,018,638 10,760,170 3,372,294 -	5,211,181 - - - - - -	-	6,114,388 12,293,160 4,921,492 2,018,638 11,639,011 3,381,123 3,770	- 4,780 - - 5,650,409 - -	6,114,388 12,297,940 4,921,492 2,018,638 17,289,420 3,381,123 3,770	19 20 21 22 23 24 25
31,720,972	5,211,181	-	40,371,582	5,655,189	46,026,771	26
36,534,383 39,180 5,087,941 - 212,365 3,463,873 2,629,752	10,794,176 - - 24,090 873,067 403,853	-	47,328,559 39,180 5,437,900 - 184,341 4,616,387 3,245,340	- - - - - - 53	47,328,559 39,180 5,437,900 - 184,341 4,616,387 3,245,287	27 28 29 30 31 32
79,263,736	17,306,367	-	100,854,607	5,655,136	106,509,743	33

TABLE 4. Net new Production of Natural Gas by Month, by Province, September 1968

Month	New Brunswick and Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.i.a. and 60°F							
January	24,339	1,024,625	5,715,059	145,077,404 ^r	23,049,330	4,186	174,894,943 ^r
February	27,754	1,208,009	5,325,851	134,959,151 ^r	22,236,721	3,177	163,760,663 ^r
March	26,679	1,417,322	5,391,872	127,079,442 ^r	23,270,779	4,309	157,190,403 ^r
April	19,358	1,025,161	4,755,450	127,094,247 ^r	21,658,518	3,546	154,556,280 ^r
May	25,064	913,713	4,706,753	118,539,605 ^r	21,101,323	3,686	145,290,144 ^r
June	15,365	817,006	4,213,303	115,557,136 ^r	18,962,277	2,100	139,567,187 ^r
July	14,193	805,146	3,719,567	111,897,504 ^c	17,930,216	500	134,367,126 ^r
August	16,598	727,015	3,493,446	121,013,060 ^r	20,171,630	843	145,422,592 ^r
September	16,473	936,993	3,974,581	117,832,845	20,679,145	3,841	143,443,878
October							
November							
December							
Total year to date	185,823	8,874,990	41,295,882	1,119,050,394	189,059,939	26,188	1,358,493,216
Total September 1967	14,212	1,066,035	3,805,286	104,768,963	17,634,517	2,757	127,291,770

^r Revised figures.

TABLE 5. Gas Processing Plant Production of Sulphur by Month, by Province, September 1968

Month	Saskatchewan	Alberta	British Columbia	Canada
short tons				
January	372	229,776	3,768	233,916
February	360	255,526 ^r	3,820	259,706 ^r
March	355	305,910 ^r	3,715	309,980 ^r
April	400	267,391 ^r	4,012	271,803 ^r
May	351	254,608 ^r	1,817	256,776 ^r
June	318	271,907 ^r	3,998	276,223 ^r
July	358	276,879 ^r	4,888	282,125 ^r
August	278	264,609 ^r	5,261	270,148 ^r
September	345	273,538	4,792	278,675
October				
November				
December				
Total year to date	3,137	2,400,144	36,071	2,439,352
Total September 1967	269	180,951	3,387	184,607

^r Revised figures.

TABLE 6. Supply of Gas Processing Plant Propane, Butanes and Sulphur, September, 1968

	Propane	Butanes	Sulphur
	barrels		short tons
<u>Production</u>			
Saskatchewan	80,622	35,929	345
Alberta	978,654	671,010	273,538
British Columbia	32,175	43,412	4,792
Canada	1,091,451	750,351	278,675
<u>Returned to formation</u>			
Saskatchewan .....	...	...	...
Alberta	-	-	...
British Columbia .....	...	...	...
Canada .....	...	...	...
<u>Net withdrawals</u>			
Saskatchewan	80,622	35,929	...
Alberta	978,654	671,010	...
British Columbia	32,175	43,412	...
Canada	1,091,451	750,351	...

... Figures not appropriate or not applicable.

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