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CATALOGUE No.

55-006

MONTHLY

# DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

c. 2

Vol. 17, No. 10

Price: 20 cents, \$2.00 a year

## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

OCTOBER 1965

The production of crude petroleum and equivalent hydrocarbon during October 1965 amounted to 27,248,304 barrels (878,978 barrels/day), an increase of 8.4 per cent or 68,097 barrels per day from October 1964. The October production figures for all petroleum liquids for the two years are as follows:

	October 1965		October 1964	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates .....	24.9	803,226	23.0	741,936
Pentanes plus .....	2.3	74,193	2.1	67,742
Propanes and butanes .....	1.5	48,387	1.4	45,161
<b>Totals .....</b>	<b>28.7</b>	<b>925,806</b>	<b>26.5</b>	<b>854,839</b>

The disposition of crude and equivalent for October 1965 was 16.3 million barrels (59.7 per cent) to Canadian refineries and 9.1 million barrels (33.4 per cent) was exported. The difference of 6.9 per cent between supply and sales is accounted for by other disposition items. Imported crude petroleum for the same period amounted to 12.4 million barrels (401,767 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 28.7 million barrels (926,883 barrels/day).

Natural gas production increased 10.4 per cent to 119,782,518 Mcf. from 108,539,787 Mcf. in October 1964. The disposition of natural gas for October is as follows; 17.9 million was net deliveries to storage and injection operations, 17.9 million was used, lost or unaccounted for in fields and processing plants and 34.2 million was exported; 19.7 million was sold to ultimate customers in the prairies, 14.8 million in Ontario, 5.4 million in British Columbia and 2.5 million in Quebec. The remaining 7.4 million Mcf. was accounted for by other deliveries, pipeline fuel and line pack fluctuations.

Table 1 includes all crude oil and equivalent hydrocarbon production of condensates and pentanes plus, propane and butane production. Pentanes plus represent the production of crude oil equivalent at processing plants while crude oil production is production in the fields.

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.

Marketable gas is taken to include all natural gas purchased directly from fields or processing plants which meets the specifications required for domestic, commercial or industrial field use.

A companion publication "Gas Utilities", Catalogue number 55-002 provides additional details on the movement and sales of natural gas, while a second companion report "Sales of Manufactured and Natural Gas", Catalogue number 45-005 provides details on the sales and revenues by rate categories.

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.

In Tables 4 and 5, disposition items "Deliveries Petrochemical Plants, Distributors and Others" and "Refinery Material" are correlated to "Receipts from Gas Processing Plants", Table 3 and "Refinery Receipts of Propane/Butane/Mixes From Gas Processing Plants", Table 2, respectively in the companion publication "Refined Petroleum Products", Catalogue number 45-004.

Industry Division

March 1966  
6511-515

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province, 1965

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta(1)	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January .....	299	94,485	398,597	7,102,112	17,860,267	1,005,456	49,674	26,510,890
February .....	298	89,230	357,046	6,382,912	15,537,605	903,469	70,825	23,341,385
March .....	377	110,932	403,181	7,329,287	16,240,006	1,056,504	56,106	25,196,393
April .....	252	113,025	395,927	6,863,354	14,479,919	1,068,193	45,113	22,965,783
May .....	310	114,823	416,316	7,243,155	13,486,964	1,088,311	26,349	22,376,228
June .....	330	106,029	416,692	7,093,827	13,743,368	1,088,453	50,283	22,498,982
July .....	348	108,913	434,602	7,473,542	14,703,239	1,167,208	74,771	23,962,623
August .....	356	103,806	435,157	7,690,245	17,581,237	1,178,210	75,856	27,064,867
September .....	429	106,442	417,208	7,408,009	17,313,652	1,170,604	71,205	26,487,549
October .....	369	109,343	431,992	7,787,251	15,328,311	1,223,905	53,557	24,934,728
November .....								
December .....								
<u>Pentanes plus</u>								
January .....	-	-	-	20,971	2,387,019	86,369	-	2,494,359
February .....	-	-	-	18,714	2,138,274	82,964	-	2,239,952
March .....	-	-	-	21,262	2,376,638	91,916	-	2,489,816
April .....	-	-	-	19,101	2,089,809	80,960	-	2,189,870
May .....	-	-	-	20,887	2,002,454	74,463	-	2,097,804
June .....	-	-	-	24,899	2,034,942	71,923	-	2,131,764
July .....	-	-	-	25,009	2,005,916	71,018	-	2,101,943
August .....	-	-	-	27,003	2,135,156	68,312	-	2,230,471
September .....	-	-	-	22,078	1,953,305	71,100	-	2,046,483
October .....	-	-	-	19,226	2,215,261	79,089	-	2,313,576
November .....								
December .....								
<u>Propane</u>								
January .....	-	-	-	54,729	807,465	39,263	-	901,457
February .....	-	-	-	49,686	748,340	30,206	-	828,232
March .....	-	-	-	58,700	808,050	30,333	-	897,083
April .....	-	-	-	53,881	759,170	25,443	-	838,494
May .....	-	-	-	57,499	662,601	24,890	-	744,990
June .....	-	-	-	59,919	706,343	24,349	-	790,611
July .....	-	-	-	56,402	753,201	28,138	-	837,741
August .....	-	-	-	57,019	804,136	32,062	-	893,217
September .....	-	-	-	50,999	809,247	31,184	-	891,430
October .....	-	-	-	55,462	855,570	30,468	-	941,500
November .....								
December .....								
<u>Butanes</u>								
January .....	-	-	-	27,128	559,473	41,762	-	628,363
February .....	-	-	-	24,216	506,391	37,863	-	568,470
March .....	-	-	-	28,285	533,559	38,343	-	600,187
April .....	-	-	-	25,409	485,743	35,351	-	546,503
May .....	-	-	-	28,074	445,501	35,722	-	509,297
June .....	-	-	-	30,367	459,468	38,410	-	528,245
July .....	-	-	-	31,424	472,243	36,873	-	540,540
August .....	-	-	-	31,727 <sup>r</sup>	504,236	43,831	-	579,794 <sup>r</sup>
September .....	-	-	-	25,616	484,436	45,046	-	555,098
October .....	-	-	-	27,652	505,157	40,759	-	573,568
Total October 1965 .....	369	109,343	431,992	7,889,591	18,904,299	1,374,221	53,557	28,763,372
Total year to date .....	3,368	1,057,028	4,106,718	73,427,038	190,283,672	12,418,723	573,739	281,870,286
Total October 1964 .....	254	101,977	408,626	7,208,418	17,651,621	1,068,295	48,605	26,487,796

(1) See footnote on pages 3 and 6.

<sup>r</sup> Revised figures.

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TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, October 1963

	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>New supply</u>										
Domestic production:										
Crude oil .....	369	109,343	431,992	7,787,251	15,254,532(1)	1,218,970	53,557	24,856,014	...	24,856,014
Condensate .....	-	-	-	-	73,779	4,935	-	78,714	...	78,714
Pentanes plus .....	-	-	-	19,226	2,215,261	79,089	-	2,313,576	...	2,313,576
Total crude oil and equivalent	369	109,343	431,992	7,806,477	17,543,572	1,302,994	53,557	27,248,304	...	27,248,304
Imports .....	...	...	...	...	...	...	...	...	12,667,601	12,667,601
Total new supply .....	369	109,343	431,992	7,806,477	17,543,572	1,302,994	53,557	27,248,304	12,667,601	39,915,905
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces .....	369	-	-	-	-	-	-	369	3,465,161	3,465,530
Quebec .....	-	-	-	-	-	-	-	-	8,909,037	8,909,037
Ontario .....	-	109,343	407,964	3,887,498	3,983,612	-	-	8,388,417	80,592	8,469,009
Manitoba .....	-	-	28,440	718,590	452,197	-	-	1,199,227	-	1,199,227
Saskatchewan .....	-	-	-	216,200	1,133,844	-	-	1,350,044	-	1,350,044
Alberta .....	-	-	-	64,068	2,948,896	-	-	3,012,964	-	3,012,964
British Columbia .....	-	-	-	-	1,389,821	922,166	-	2,311,987	-	2,311,987
Northwest Territories .....	-	-	-	-	-	-	15,567	15,567	-	15,567
Totals .....	369	109,343	436,404	4,886,356	9,908,370	922,166	15,567	16,278,575	12,454,790	28,733,365
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains .....	-	-	-	-	3,710,008	286,061	-	3,996,069	-	3,996,069
East of Rocky Mountains .....	-	-	-	-	373,959	-	-	373,959	-	373,959
Great Lakes Area .....	-	-	-	2,272,047	2,454,478	-	-	4,726,525	-	4,726,525
Totals .....	-	-	-	2,272,047	6,538,445	286,061	-	9,096,553	-	9,096,553
Deliveries to other purchasers ..	-	-	-	2,308	4,306	-	-	6,614	-	6,614
Inventories:										
Opening - Field and plant .....	-	-	85,248	442,014	973,132	69,368	35,683	1,605,445	-	1,605,445
Transporters' .....	-	-	51,283	4,696,260	16,180,487	1,120,896	-	22,048,926	193,356	22,242,282
Closing - Field and plant .....	-	-	80,138	427,182	869,578	58,713	73,673	1,509,284	-	1,509,284
Transporters' .....	-	-	68,802	5,275,270	16,260,633	1,243,482	-	22,848,187	403,711	23,251,898
Net change .....	-	-	12,409	564,178	- 23,408	111,931	37,990	703,100	210,355	913,455
Pipeline fuel .....	-	-	-	-	25,222	-	-	25,222	-	25,222
Field and plant use .....	-	-	-	1,956	1,002,645(1)	4,601	-	1,009,202	-	1,009,202
Losses and adjustments .....	-	-	- 16,821	79,632	87,992	- 21,765	-	129,038	2,456	131,494
Total disposition .....	369	109,343	431,992	7,806,477	17,543,572	1,302,994	53,557	27,248,304	12,667,601	39,915,905

(1) Includes 989,609 barrels returned to formation.

... Figures not appropriate or not applicable.

R Revised figure.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, October 1965

No.		New Brunswick	Ontario	Saskatchewan
				Mcf.
<u>A. FIELD AND PROCESSING PLANTS</u>				
<u>Supply</u>				
1	Gross new production .....	7,153	822,198	5,239,534
2	Less field flared and waste .....	-	-	1,465,047
3	Net new production (1 - 2) .....	7,153	822,198	3,774,487
<u>Disposition</u>				
4	Field disposition and uses .....	160	-	198,913
5	Gathering system disposition and uses .....	-	-	2,572
6	Processing plant disposition and uses:	-	-	-
6a	Processing shrinkage .....	-	-	164,621
6b	Other disposition and uses .....	-	-	273,175
7	Field injection and storage:	-	-	-
7a	Injected and stored .....	-	-	-
7b	Less reproduced .....	-	-	-
7c	Net field injection and storage (7a - 7b) .....	-	-	-
8	Other uses .....	-	-	213,128
9	Adjustment .....	-	-	- 24,526
10	Deliveries of marketable gas .....	6,993	822,198	2,946,604
11	Total disposition .....	7,153	822,198	3,774,487
<u>B. GAS UTILITIES</u>				
<u>Supply</u>				
12	Receipts of marketable gas:			
12a	Plants .....	-	-	1,877,820
12b	Fields .....	6,993	822,198	1,068,784
13	Total (12a + 12b) .....	6,993	822,198	2,946,604
14	Receipts from distributor storage .....	-	1,085,489	19,763
15	Other receipts(1) .....	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	6,993	1,907,687	2,966,367
<u>Disposition</u>				
Sales:				
17	British Columbia .....	-	-	-
18	Alberta .....	-	-	2,679
19	Saskatchewan .....	-	-	2,347,582
20	Manitoba .....	-	-	199,942
21	Ontario .....	-	1,437,401	-
22	Quebec .....	-	-	-
23	New Brunswick .....	4,139	-	-
24	Total sales (17 to 23 inclusive) .....	4,139	1,437,401	2,550,203
25	Exports .....	-	-	-
26	Other deliveries(2) .....	-	-	-
27	Delivered to distributor storage .....	-	-	421,060
28	Pipeline line pack fluctuation .....	-	-	7,299
29	Pipeline fuel .....	-	26,280	69,670
30	Pipeline losses etc. .....	2,854	444,006	- 81,865
31	Total disposition of marketable gas (24 to 30 inclusive) .....	6,993	1,907,687	2,966,367

(1) L.P.G. for gas enrichment, peak shaving or temporary supply.

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

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, October 1965

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
McF.						
104,775,650 4,804,859	16,094,238 888,788	47,674 45,235	126,986,447 7,203,929	- -	126,986,447 7,203,929	1 2
99,970,791	15,205,450	2,439	119,782,518	- -	119,782,518	3
212,904 564,363	332,878 -	- -	744,855 566,935	- -	744,855 566,935	4 5
9,501,761 4,580,084	482,879 1,247,888	- -	10,149,261 6,101,147	- -	10,149,261 6,101,147	6a 6b
16,580,307 338,843	158,617 -	- -	16,738,924 338,843	- -	16,738,924 338,843	7a 7b
16,241,464	158,617	-	16,400,081	- -	16,400,081	7c
79,276 41,123 68,749,816	- 45,288 12,937,900	2,439 - -	294,843 61,885 85,463,511	- - -	294,843 61,885 85,463,511	8 9 10
99,970,791	15,205,450	2,439	119,782,518	- -	119,782,518	11
57,047,249 11,702,567	12,807,132 130,768	- -	71,732,201 13,731,310	- -	71,732,201 13,731,310	12a 12b
68,749,816	12,937,900	-	85,463,511	- -	85,463,511	13
112,751 2,330	- -	- -	1,218,003 2,330	- -	1,218,003 2,330	14 15
68,864,897	12,937,900	-	86,683,844	1,241,378	87,925,222	16
894,521 13,094,074 1,961,096 2,054,007 13,324,713 2,539,135	4,476,112 - - - - -	- - - - - -	5,370,633 13,096,753 4,308,678 2,253,949 14,762,114 2,539,135 4,139	- 5,526 - - 1,235,852 - -	5,370,633 13,102,279 4,308,678 2,253,949 15,997,966 2,539,135 4,139	17 18 19 20 21 22 23
33,867,546	4,476,112	-	42,335,401	1,241,378	43,576,779	24
26,403,310 200,381 2,293,143 29,899 3,358,029 2,712,589	7,829,768 - - 77,049 337,609 217,362	- - - - - -	34,233,078 200,381 2,714,203 114,247 3,791,588 3,294,946	- - - - - -	34,233,078 200,381 2,714,203 114,247 3,791,588 3,294,946	25 26 27 28 29 30
68,864,897	12,937,900	-	86,683,844	1,241,378	87,925,222	31

TABLE 4. Supply and Disposition of Gas Processing Plant Propane, October 1965

	Maritimes	Quebec	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
barrels of 35 Canadian gallons									
<u>Supply</u>									
Production .....	...	...	...	...	55,462	855,570(1)	30,468	...	941,500
Opening inventory .....	...	...	...	...	206,749	626,464	10,752	...	843,965
Interprovincial movements:									
Receipts from:									
Saskatchewan .....	-	39,185	69,866	19,431	53,216	-	34,763	596	19,431
Alberta .....	-	-	-	37,146	-	...	-	676	234,772
British Columbia .....	-	-	-	-	-	1,961	-	-	2,637
Deliveries .....	...	...	...	...	- 19,431	- 234,772	- 2,637	...	- 256,840
Total supply .....	-	39,185	69,866	56,577	295,996	1,249,223	73,346	1,272	1,785,465
<u>Disposition</u>									
Deliveries:									
Petrochemical plants .....	...	39,185	69,866	56,577	53,237	114,235	...	...	114,235
Distributor and other .....	-	-	-	-	-	146,808	45,294	1,272	412,239
Sub-total .....	-	39,185	69,866	56,577	53,237	261,043	45,294	1,272	526,474
Refinery raw material .....	-	-	-	-	-	-	9,734	-	9,734
Exports:									
U.S.A. Petroleum Administration:									
District II .....	...	...	...	...	60,879	203,611	-	...	264,490
IV .....	...	...	...	...	-	30,801	-	...	30,801
V .....	...	...	...	...	-	60,648	473	...	61,121
Other .....	...	...	...	...	-	10,393	4,929	...	15,322
Miscellaneous:									
Miscible flood .....	...	...	...	...	...	101,748(1)	...	...	101,748
Gas enrichment .....	...	...	...	...	...	-	...	...	-
Losses and adjustments .....	-	-	-	-	6,773	5,804	2,761	-	15,338
Plant uses .....	...	...	...	...	413	1,495	1,977	...	3,885
Returned to formation .....	...	...	...	...	...	3,392	...	...	3,392
Closing inventory .....	...	...	...	...	174,694	570,288	8,178	...	753,160
Total disposition .....	-	39,185	69,866	56,577	295,996	1,249,223	73,346	1,272	1,785,465

(1) Includes 48,929 barrels of L.P.G. mixes.

... Figures not appropriate or not applicable.

TABLE 5. Supply and Disposition of Gas Processing Plant Butanes, October 1965

	Maritimes	Quebec	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
barrels of 35 Canadian gallons									
<u>Supply</u>									
Production .....	...	...	...	...	27,652	505,157	40,759	...	573,568
Opening inventory .....	...	...	...	...	264,171	445,801	6,932	...	716,904
Interprovincial movements:									
Receipts from:									
Saskatchewan .....	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	50,946	10,089	- 371	...	5,038	-	65,702
British Columbia .....	-	-	-	-	-	129	...	-	129
Deliveries .....	...	...	...	...	...	- 65,702	- 129	...	- 65,831
Total supply .....	-	-	50,946	10,089	291,452	885,385	52,600	-	1,290,472
<u>Disposition</u>									
Deliveries:									
Petrochemical plants .....	...	-	-	-	-	4,156	...	...	4,156
Distributor and other .....	-	-	9,477	-	496	-	4,916	-	14,889
Sub-total .....	-	-	9,477	-	496	4,156	4,916	-	19,045
Refinery raw material .....	-	-	53,401	10,144	-	8,258	21,619	-	93,422
Exports:									
U.S.A. Petroleum Administration:									
District II .....	...	...	...	...	55,946	127,341	-	...	183,287
IV .....	...	...	...	...	-	21,488	-	...	21,488
V .....	...	...	...	...	-	195,794	4,598	...	200,392
Other .....	...	...	...	...	-	11,290	-	...	11,290
Miscellaneous:									
Miscible flood .....	...	...	...	...	...	2,527	...	...	2,527
Gas enrichment .....	...	...	...	...	...	263	...	...	263
Losses and adjustments .....	-	-	- 11,932	- 55	7,127	89,938(1)	10,603	-	95,681
Plant uses .....	...	...	...	...	...	636	5,094	...	5,730
Returned to formation .....	...	...	...	...	...	-	...	...	-
Closing inventory .....	...	...	...	...	227,883	423,694	5,770	...	657,347
Total disposition .....	-	-	50,946	10,089	291,452	885,385	52,600	-	1,290,472

(1) To be revised when amendments received from Conservation Board.

... Figures not appropriate or not applicable.

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