

Historical File Copy

CATALOGUE No.

55-002

MONTHLY

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DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

Vol. 8 , No. 3

Price: 20 cents, \$2.00 a year

GAS UTILITIES (Transport and Distribution Systems)

MARCH 1966

During March 1966 field gathering systems and processing plants delivered to gas utilities 100,734,601 Mcf. of natural gas. The transport systems accounted for 77,969,076 Mcf. and distribution systems 22,765,525 Mcf. Natural gas recovered from storage was 4,225,721 Mcf. The total supply of gas utilities amounted to 108,002,338 Mcf., 3.8 per cent higher than in March 1965. Of the total supply 66,479,658 Mcf. were sold to ultimate customers in Canada, an increase of 9.7 per cent. Exports increased 2.6 per cent to 38,020,917 Mcf. from 37,040,549 Mcf. last year. For the twelve month period ended March 1966 exports totalled 408,650,103 Mcf. while net deliveries amounted to 1,005,728,309 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas amounted to 67.5 billion commodity (Mcf.) miles (1,539 million ton miles) during March 1966 compared with 68.0 billion (1,550 million ton miles) last year. The daily average deliveries of gas utilities amounted to 3.4 million Mcf.

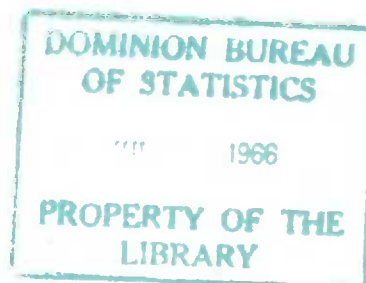
Alberta natural gas utilities receipts totalled 79.5 billion cubic feet; of this 23.4 per cent was sold to ultimate customers in Alberta, 21.0 per cent in Ontario, 3.9 per cent in Saskatchewan, 4.0 per cent in Quebec, 4.6 per cent in Manitoba and 1.6 per cent in British Columbia. Exports accounted for 36.9 per cent while the remaining 4.6 per cent was other deliveries, deliveries to storage, line pack changes, gas used in systems and line losses and unaccounted for. In Table 3 gas received from storage is considered as having originated in the province where the storage is located and gas delivered to storage as a terminal entry in the province of origin.

All gas volumes are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60° F; that is, without adjustments to a common B.T.U. base except when otherwise indicated.

Residential sales and a substantial portion of the smaller commercial sales are for the most part "displacement meter" sales and adjustments to a common base are only close approximation; industrial and larger commercial sales are for the most part "orifice meter" sales which are easily adjusted to the common base. All sales are reported on a billing month basis, consequently "line losses and unaccounted for" include cyclical billing adjustments.

A companion publication "Crude Petroleum and Natural Gas Production", Catalogue No. 26-006 gives the Supply and Disposition of Natural Gas by Source.

Industry Division



June 1966
6503-509

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

March 1966

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	9,537	-	2,085,871
2b	Processing plants	-	-	-
3	Total (1 + 2)	9,537	-	2,085,871
4	Imports	-	-	3,029,419
5	Other receipts (1)	-	-	-
6	Total net receipts (3 + 4 + 5)	9,537	-	5,115,290
7	Received from storage	-	-	3,639,385
9	Total supply of gas utilities (6 + 7)	9,537	-	8,754,675
	Transfers from:			
11	Other provinces	-	3,632,865	23,288,045
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	3,613,975	28,389,501
19	Total gross receipts (9 + 11 + 12 + 13) ...	9,537	7,246,840	60,432,221
	<u>Disposition</u>			
	Sales:			
20	Residential	4,082	1,230,866	10,634,933
21	Industrial	-	1,593,788	9,797,880
22	Commercial	1,878	342,133	5,045,825
30	Total sales (20 + 21 + 22)	5,960	3,166,787	25,478,638
31	Exports	-	18,890	339,308
32	Other deliveries	-	-	2,045
33	Total net deliveries (30 + 31 + 32)	5,960	3,185,677	25,819,991
34	Delivered to storage	-	-	822,565
35	Line pack fluctuation	-	- 1,110	14,460
36	Gas used in system	83	11,049	2,142,177
37	Line losses and unaccounted for	3,494	437,249	- 389,338
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	9,537	3,632,865	28,409,855
	Transfers to:			
40	Other provinces	-	-	3,632,865
41	Distribution by transport (primary)	-	3,613,975	19,659,068
42	Other gas utilities	-	-	8,730,433
49	Total disposition (39 + 40 + 41 + 42)	9,537	7,246,840	60,432,221

(1) Includes peak shaving and enrichment.
(2) Estimated.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

March 1966

Manitoba(2)	Saskatchewan	Alberta	British Columbia	Canada	March 1965 [†]	No.
					Canada	
			Mcf.			
-	-	8,268,916	527,291	8,796,207	9,392,957	1a
-	467,893	53,748,881	14,956,095	69,172,869	65,860,534	1b
-	1,633,676	7,721,199	-	11,450,283	10,077,510	2a
-	1,597,519	9,637,017	80,706	11,315,242	12,503,035	2b
-	3,699,088	79,376,013	15,564,092	100,734,601	97,834,036	3
-	-	11,596	-	3,041,015	206,733	4
1,001	-	-	-	1,001	91,024	5
1,001	3,699,088	79,387,609	15,564,092	103,776,617	98,131,793	6
-	433,373	152,963	-	4,225,721	5,954,522	7
1,001	4,132,461	79,540,572	15,564,092	108,002,338	104,086,315	9
34,373,326	37,419,930	-	21,121,876	...	...	11
-	614,077	-	-	614,077	1,375,707	12
3,953,584	3,160,425	4,689,662	7,748,458	51,555,605	52,134,143	13
38,327,911	45,326,893	84,230,234	44,434,426	160,172,020	157,596,165	19
2,016,197	2,596,255	5,933,372	2,407,571	24,823,276	24,596,812	20
911,348	3,057,032	8,185,730	4,554,337	28,100,115	23,045,019	21
1,447,639	1,398,713	4,482,798	837,281	13,556,267	12,962,171	22
4,375,184	7,052,000	18,601,900	7,799,189	66,479,658	60,604,002	30
6,714,029	-	2,576,114	28,372,576	38,020,917	37,040,549	31
-	-	263,685	-	265,730	207,937	32
11,089,213	7,052,000	21,441,699	36,171,765	104,766,305	97,852,488	33
-	134,153	338,391	-	1,295,109	638,140	34
10,845	56,589	- 45,629	26,055	61,210	34,978	35
521,711	987,399	93,838	684,847	4,441,104	4,434,614	36
- 535,487	- 1,051,076	- 829,533	- 196,699	- 2,561,390	1,126,095	37
11,086,282	7,179,065	20,998,766	36,685,968	108,002,338	104,086,315	39
23,288,045	34,373,326	58,541,806	-	...	...	40
3,953,584	3,160,425	1,083,925	7,559,434	39,030,411	40,398,962	41
-	614,077	3,605,737	189,024	13,139,271	13,110,888	42
38,327,911	45,326,893	84,230,234	44,434,426	160,172,020	157,596,165	49

[†] Revised figures.

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1986

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	10,462,945	9,199,677	8,796,207		
1b	Processing plants	73,537,156	64,527,919	69,172,869		
2	By distribution systems:					
2a	Fields	14,989,023	10,541,022	11,450,283		
2b	Processing plants	12,687,509	10,993,992	11,315,242		
3	Total (1 + 2)	111,676,633	95,262,610	100,734,601		
4	Imports	3,219,680	2,861,093	3,041,015		
5	Other receipts(1)	2,357	- 564	1,001		
6	Total net receipts (3 + 4 + 5)	114,898,670	98,123,139	103,776,617		
7	Received from storage	9,757,678	6,568,074	4,225,721		
9	Total supply of gas utilities (6 + 7)	124,656,348	104,691,213	108,002,338		
	Transfers from:					
11	Other provinces .....	...	...	...
12	Distribution to transport (primary)	1,239,865	667,774	614,077		
13	Other gas utilities	58,643,485	49,635,064	51,555,605		
19	Total gross receipts (9 + 11 + 12 + 13) ...	184,539,698	154,994,051	160,172,020		
	<u>Disposition</u>					
	Sales:					
20	Residential	30,900,098	30,127,488	24,823,276		
21	Industrial	26,694,952	25,119,783	28,100,115		
22	Commercial	16,511,102	15,985,229	13,556,267		
30	Total sales (20 + 21 + 22)	74,106,152	71,232,500	66,479,658		
31	Exports	38,644,552	34,761,484	38,020,917		
32	Other deliveries	258,781	266,370	265,730		
33	Total net deliveries (30 + 31 + 32)	113,009,485	106,260,354	104,766,305		
34	Delivered to storage	419,697	813,407	1,295,109		
35	Line pack fluctuation	96,608	- 62,730	61,210		
36	Gas used in system	4,998,364	4,409,579	4,441,104		
37	Line losses and unaccounted for	6,132,194	- 6,729,397	- 2,561,390		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	124,656,348	104,691,213	108,002,338		
	Transfers to:					
40	Other provinces .....	...	...	...
41	Distribution by transport (primary)	43,778,424	37,511,726	39,030,411		
42	Other gas utilities	16,104,926	12,791,112	13,139,271		
49	Total disposition (39 + 40 + 41 + 42)	184,539,698	154,994,051	160,172,020		

(1) Includes peak shaving and enrichment.
r Revised figures.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

June	July	August	September	October	November	December	Year to date		No.
							1966	1965 ^F	
				Mcf.					
							28,458,829	27,388,746	1a
							207,237,944	191,356,862	1b
							36,980,328	31,605,044	2a
							34,996,743	37,750,517	2b
							307,673,844	288,101,169	3
							9,121,788	657,166	4
							2,794	349,841	5
							316,798,426	289,108,176	6
							20,551,473	23,394,700	7
							337,349,899	312,502,876	9
							11
							2,521,716	4,047,372	12
							159,834,154	156,435,217	13
							499,705,769	472,985,465	19
							85,850,862	83,271,483	20
							79,914,850	65,416,748	21
							46,052,598	41,649,498	22
							211,818,310	190,337,729	30
							111,426,953	107,485,875	31
							790,881	667,294	32
							324,036,144	298,490,898	33
							2,528,213	1,634,466	34
							95,088	334,341	35
							13,849,047	12,094,604	36
							- 3,158,593	- 51,433	37
							337,349,899	312,502,876	39
							40
							120,320,561	123,121,947	41
							42,035,309	37,360,642	42
							499,705,769	472,985,465	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

March 1966

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.							
	<u>Receipts</u>								
1	By transport systems:								
1a	Fields	-	-	-	8,268,916	527,291	...	8,796,207	
1b	Processing plants	-	-	467,893	53,748,881	14,956,095	...	69,172,869	
2	By distribution systems:								
2a	Fields	9,537	2,085,871	1,633,676	7,721,199	-	...	11,450,283	
2b	Processing plants	-	-	1,597,519	9,637,017	80,706	...	11,315,242	
3	Total (1 + 2)	9,537	2,085,871	3,699,088	79,376,013	15,564,092	...	100,734,601	
4	Imports .....	...	...	...	...	...	3,041,015	3,041,015
5	Other receipts(1)	-	-	-	1,001	-	...	1,001	
6	Total net receipts (3 + 4 + 5)	9,537	2,085,871	3,699,088	79,377,014	15,564,092	3,041,015	103,776,617	
7	Received from storage	-	3,639,385	433,373	152,963	-	...	4,225,721	
9	Total supply of gas utilities (6 + 7)	9,537	5,725,256	4,132,461	79,529,977	15,564,092	3,041,015	108,002,338	
	<u>Disposition</u>								
	Sales:								
23	British Columbia	-	-	-	1,305,870	6,493,319	-	7,799,189	
24	Alberta	-	-	-	18,590,304	-	11,596	18,601,900	
25	Saskatchewan	-	-	3,981,637	3,070,363	-	-	7,052,000	
26	Manitoba	-	-	711,799	3,663,385	-	-	4,375,184	
27	Ontario	-	5,732,695	-	16,716,524	-	3,029,419	25,478,638	
28	Quebec	-	-	-	3,166,787	-	-	3,166,787	
29	New Brunswick	5,960	-	-	-	-	-	5,960	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,960	5,732,695	4,693,436	46,513,233	6,493,319	3,041,015	66,479,658	
31	Exports	-	-	-	29,355,407	8,665,510	-	38,020,917	
32	Other deliveries	-	-	-	265,730	-	-	265,730	
33	Total net deliveries (30 + 31 + 32)	5,960	5,732,695	4,693,436	76,134,370	15,158,829	3,041,015	104,766,305	
34	Delivered to storage	-	-	134,153	1,160,956	-	-	1,295,109	
35	Line pack fluctuation	-	-	9,594	28,596	23,020	-	61,210	
36	Gas used in system	83	18,750	124,387	3,694,911	602,973	-	4,441,104	
37	Line losses and unaccounted for	3,494	- 26,189	- 829,109	- 1,488,856	- 220,730	-	- 2,561,390	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	9,537	5,725,256	4,132,461	79,529,977	15,564,092	3,041,015	108,002,338	

(1) Includes peak shaving and enrichment.
... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

March 1966

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
March 1966:			
Daily average	2,485,527	2,144,505	3,421,336
Maximum(1)	2,682,843	...	...
Minimum(1)	2,273,264	...	...
Exports maximum(1)	1,287,952	...	1,287,952
March 1965:			
Daily average	2,498,049	1,925,411	3,147,560
Maximum(1)	2,861,121	...	...
Minimum(1)	2,392,264	...	...
Year to date 1966:			
Daily average	2,574,972	2,353,537	3,628,493
Maximum(1)	2,834,533	...	...
Minimum(1)	2,273,264	...	...
Commodity miles:			
Mcf. miles (thousands)	67,518,834	..	..
Ton-miles (millions)	1,539	..	..
Line pack:			
Beginning of month (Mcf.)	7,881,448	..	..
End of month (Mcf.)	7,940,924	..	..
Operating revenues .....	..	44,689,558(2)	..

(1) Non-coincident.

(2) Estimated.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

March 1966

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	66,404	132,298
Deliveries to ultimate customers	70,645	114,666
Line pack fluctuations	-	- 309
Gas used in system	294	1,380
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 4,535	16,561
Total disposition	66,404	132,298
Daily average sendout	2,279	3,699
Revenues	\$45,495	\$189,747(1)

(1) Estimated.

TABLE 6. Exports and Imports to and from the United States
 March 1966

Customs port	Exports	Imports
	Mcf.	
Phillipsburg, Quebec	18,890	-
Cornwall, Ontario	339,308	-
Niagara Falls, Ontario	-	2,150,885
Ojibway, Ontario	-	878,534
Emerson, Manitoba	6,714,029	-
Coutts, Alberta	60	11,596
Aden, Alberta	1,741,604	-
Carway, Alberta	834,450	-
Kingsgate, British Columbia - U.S.A. District V South(1)	14,090,176	-
Other U.S.A.	4,069,796	-
Huntingdon, British Columbia	10,212,604	-
Canada - 1966	38,020,917	3,041,015
1965	37,040,549	206,733

(1) California, Nevada, Arizona.