

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

Vol. 11, No. 1

Price: 20 cents, \$2.00 a year

GAS UTILITIES
(Transport and Distribution Systems)

JANUARY 1969

During January field gathering systems and processing plants delivered to gas utilities 153,564,294 Mcf. of Natural gas. The transport systems accounted for 114,117,074 Mcf. and the distribution systems 39,447,220 Mcf. Natural gas imported from the U.S.A. was 2,968,411 Mcf. and the volume recovered from storage was 17,417,972 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume	% of total supply	% increase over January 1968	Revenue	% of total revenue
	'000 Mcf.			\$'000	
Ultimate customers	105,515	60.6	15.5	73,619	83.1
Exports	58,034	33.3	11.4	15,009	16.9
Other uses and adjustments	10,706	6.1	14.4	...	...
Totals	174,255	100.0	14.9	88,628	100.0

... Figures not appropriate or applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 93.3 billion commodity (Mcf.) miles (2,126 million ton miles) during January compared with 83.5 billion (Mcf.) miles (1,903 million ton miles) last year. The daily average deliveries of gas utilities amounted to 5.3 million Mcf.

Alberta natural gas utilities receipts totalled 123.2 billion cubic feet; of this 24.5 per cent was sold to ultimate customers in Alberta, 19.4 per cent in Ontario, 3.9 per cent in Quebec, 3.8 per cent in Saskatchewan, 1.3 per cent in British Columbia and 5.6 per cent in Manitoba. Exports accounted for 36.2 per cent and the remaining 5.3 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 delivery by the originating province.

There was an overall increase in distributor sales and revenues during January compared to the same month for the previous year. Details are contained in the following table.

Sales Category	Sales	% of total sales	% increase over January 1968	Revenue	% of sales revenue	Number of customers
	'000 Mcf.			\$'000		'000
Residential	41,725	39.5	14.8	39,779	54.0	1,605
Industrial	37,312	35.4	13.4	15,656	21.3	12
Commercial	26,478	25.1	19.7	18,184	24.7	158
Totals	105,515	100.0	15.4	73,619	100.0	1,775

All gas volumes in Tables I-7 and Table II 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. Gas sales, exports and imports containing 1,000 B.T.U.'s per cubic foot are given separately in Tables 8-10.

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 approximations; 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 a comprehensive review of the Supply and Disposition of Natural Gas.

Manufacturing and Primary Industries Division

May 1969
6503-509

The contents of this document may be used freely but DBS should be credited when republishing all or any part of it.

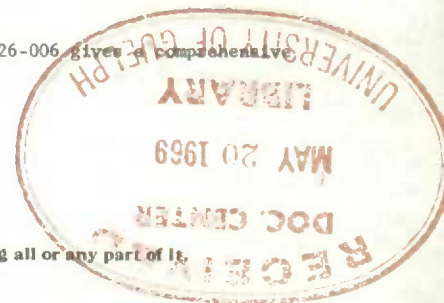


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

January 1969

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	<u>By transport systems</u>			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	<u>By distribution systems</u>			
2a	Fields	11,429	13,947	1,239,066
2b	Processing plants	-	-	4,111
3	Total (1 + 2)	11,429	13,947	1,243,177
4	Imports	-	-	2,945,216
5	Other receipts(1)	-	-	769
6	Total net receipts (3 + 4 + 5)	11,429	13,947	4,189,162
7	Received from storage	-	-	14,756,105
9	Total supply of gas utilities (6 + 7)	11,429	13,947	18,945,267
	<u>Transfers from</u>			
11	Other provinces	-	5,141,849	30,837,463
12	Distribution to transport (primary)	-	-	619,760
13	Other gas utilities	-	4,661,181	36,813,232
19	Total gross receipts (9 + 11 + 12 + 13) ...	11,429	9,816,977	87,215,722
	<u>Disposition</u>			
	<u>Sales</u>			
20	Residential	4,232	1,881,057	17,065,483
21	Industrial	-	2,092,963	15,616,944
22	Commercial	3,093	904,840	10,204,823
30	Total sales (20 + 21 + 22)	7,325	4,878,860	42,887,250
31	Exports	-	212,426	465,826
32	Other deliveries	-	-	3,941
33	Total net deliveries (30 + 31 + 32)	7,325	5,091,286	43,357,017
34	Delivered to storage	-	-	594,512
35	Line pack fluctuation	-	- 6,937	- 52,120
36	Gas used in system	-	13,926	2,499,128
37	Line losses and unaccounted for	4,104	57,521	- 1,757,656
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	11,429	5,155,796	44,640,881
	<u>Transfers to</u>			
40	Other provinces	-	-	5,141,849
41	Distribution by transport (primary)	-	4,652,251	26,912,790
42	Other gas utilities	-	8,930	10,520,202
49	Total disposition (39 + 40 + 41 + 42)	11,429	9,816,977	87,215,722

(1) Includes peak shaving and enrichment.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province
January 1969

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	January 1968		No.
					Canada		
Mcf.							
-	-	10,146,656	499,318	10,645,974	8,488,859		1a
-	-	79,370,365	24,100,735	103,471,100	90,952,070		1b
-	3,473,689	19,078,694	-	23,816,825	15,919,170		2a
-	2,018,412	13,432,815	175,057	15,630,395	15,001,003		2b
-	5,492,101	122,028,530	24,775,110	153,564,294	130,361,102		3
-	-	23,195	-	2,968,411	6,173,198		4
289,472	-	5,864	8,684	304,789	76,688		5
289,472	5,492,101	122,057,589	24,783,794	156,837,494	136,610,988		6
-	1,785,378	876,489	-	17,417,972	15,026,932		7
289,472	7,277,479	122,934,078	24,783,794	174,255,466	151,637,920		9
49,236,672	54,445,929	-	30,563,615	...	...		11
-	3,588,270	1,775,075	-	5,983,105	8,795,580		12
6,696,895	4,313,108	8,402,669	11,095,928	71,983,013	58,989,428		13
56,223,039	69,624,786	133,111,822	66,443,337	252,221,584	219,422,928		19
3,447,766	4,078,367	10,623,654	4,624,520	41,725,079	36,331,980		20
957,806	4,481,702	11,280,143	2,882,230	37,311,788	32,916,942		21
2,482,031	2,015,736	8,307,770	2,560,017	26,478,310	22,129,218		22
6,887,603	10,575,805	30,211,567	10,066,767	105,515,177	91,378,140		30
11,600,526	-	3,590,444	42,164,568	58,033,790	52,092,912		31
-	19,801	1,436,008	-	1,459,750	123,294		32
18,488,129	10,595,606	35,238,019	52,231,335	165,008,717	143,594,346		33
-	100,899	-	-	695,411	176,929		34
- 348,755	- 186,972	- 5,911	- 47,204	- 647,899	547,540		35
583,636	1,261,536	826,960	2,202,840	7,388,026	6,386,066		36
- 34,329	715,667	1,865,466	960,438	1,811,211	933,039		37
18,688,681	12,486,736	37,924,534	55,347,409	174,255,466	151,637,920		39
30,837,463	49,236,672	85,009,544	-	...	...		40
6,696,895	4,313,108	503,632	10,829,792	53,908,468	45,820,006		41
-	3,588,270	9,674,112	266,136	24,057,650	21,965,002		42
56,223,039	69,624,786	133,111,822	66,443,337	252,221,584	219,422,928		49

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1969

No.		January	February	March	April	May
		Mcf.				
	<u>Receipts</u>					
1	<u>By transport systems</u>					
1a	Fields	10,645,974				
1b	Processing plants	103,471,100				
2	<u>By distribution systems</u>					
2a	Fields	23,816,825				
2b	Processing plants	15,630,395				
3	Total (1 + 2)	153,564,294				
4	Imports	2,968,411				
5	Other receipts(1)	304,789				
6	Total net receipts (3 + 4 + 5)	156,837,494				
7	Received from storage	17,417,972				
9	Total supply of gas utilities (6 + 7)	174,255,466				
	<u>Transfers from</u>					
11	Other provinces .....	...			
12	Distribution to transport (primary)	5,983,105				
13	Other gas utilities	71,983,013				
19	Total gross receipts (9 + 11 + 12 + 13) ...	252,221,584				
	<u>Disposition</u>					
	<u>Sales</u>					
20	Residential	41,725,079				
21	Industrial	37,311,788				
22	Commercial	26,478,310				
30	Total sales (20 + 21 + 22)	105,515,177				
31	Exports	58,033,790				
32	Other deliveries	1,459,750				
33	Total net deliveries (30 + 31 + 32)	165,008,717				
34	Delivered to storage	695,411				
35	Line pack fluctuation	- 647,899				
36	Gas used in system	7,388,026				
37	Line losses and unaccounted for	1,811,211				
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	174,255,466				
	<u>Transfers to</u>					
40	Other provinces .....	...			
41	Distribution by transport (primary)	53,908,468				
42	Other gas utilities	24,057,650				
49	Total disposition (39 + 40 + 41 + 42)	252,221,584				

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

TABLE 3. Receipts and Disposition of Natural Gas by Source

January 1969

No.		New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.								
	<u>Receipts</u>									
1	<u>By transport systems</u>									
1a	Fields	-	-	-	-	10,146,656	499,318	-	10,645,974	
1b	Processing plants	-	-	-	-	79,370,365	24,100,735	-	103,471,100	
2	<u>By distribution systems</u>									
2a	Fields	11,429	13,947	1,239,066	3,473,689	19,078,694	-	-	23,816,825	
2b	Processing plants	-	-	4,111	2,018,412	13,432,815	175,057	-	15,630,395	
3	Total (1 + 2)	11,429	13,947	1,243,177	5,492,101	122,028,530	24,775,110	-	153,564,294	
4	Imports	-	-	-	-	-	-	2,968,411	2,968,411	
5	Other receipts(1)	-	-	769	-	295,336	8,684	-	304,789	
6	Total net receipts (3 + 4 + 5)	11,429	13,947	1,243,946	5,492,101	122,323,866	24,783,794	2,968,411	156,837,494	
7	Received from storage	-	-	14,756,105	1,785,378	876,489	-	-	17,417,972	
9	Total supply of gas utilities (6 + 7)	11,429	13,947	16,000,051	7,277,479	123,200,355	24,783,794	2,968,411	174,255,466	
	<u>Disposition</u>									
	<u>Sales</u>									
23	British Columbia	-	-	-	-	1,574,459	8,492,308	-	10,066,767	
24	Alberta	-	-	-	-	30,188,721	-	22,846	30,211,567	
25	Saskatchewan	-	-	-	5,925,337	4,650,468	-	-	10,575,805	
26	Manitoba	-	-	-	-	6,887,603	-	-	6,887,603	
27	Ontario	-	-	16,069,714	-	23,872,320	-	2,945,216	42,887,250	
28	Quebec	-	13,947	-	-	4,864,913	-	-	4,878,860	
29	New Brunswick	7,325	-	-	-	-	-	-	7,325	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	7,325	13,947	16,069,714	5,925,337	72,038,484	8,492,308	2,968,062	105,515,177	
31	Exports	-	-	-	-	44,598,764	13,435,026	-	58,033,790	
32	Other deliveries	-	-	-	-	1,459,750	-	-	1,459,750	
33	Total net deliveries (30 + 31 + 32)	7,325	13,947	16,069,714	5,925,337	118,096,998	21,927,334	2,968,062	165,008,717	
34	Delivered to storage	-	-	-	100,899	594,512	-	-	695,411	
35	Line pack fluctuation	-	-	-	17,582	584,676	45,641	-	647,899	
36	Gas used in system	-	-	36,592	297,997	5,101,024	1,952,413	-	7,388,026	
37	Line losses and unaccounted for	4,104	-	106,255	970,828	7,503	949,688	349	1,811,211	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	11,429	13,947	16,000,051	7,277,479	123,200,355	24,783,794	2,968,411	174,255,466	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

January 1969

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<u>Daily sendouts (Mcf.)</u>			
January 1969			
Daily average	3,611,041	3,403,715	5,345,294
Maximum(1)	3,996,922	...	...
Minimum(1)	3,330,349	...	...
Exports maximum(1)	1,966,687	...	...
January 1968			
Daily average	3,151,481	2,947,691	4,637,777
Maximum(1)	3,494,251	...	...
Minimum(1)	3,026,002	...	...
Year to date 1969			
Daily average	3,611,041	3,403,715	5,345,294
Maximum(1)	3,996,922	...	...
Minimum(1)	3,330,349	...	...
<u>Commodity miles</u>			
Mcf. miles (thousands)	93,256,244	..	..
Ton-miles (millions)	2,126	..	..
<u>Line pack</u>			
Beginning of month (Mcf.)	8,933,830	..	..
End of month (Mcf.)	8,612,127	..	..
Operating revenues	\$..	73,619,921	..

(1) Non-coincident.
 .. Figures not available.
 ... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

January 1969

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	68,589	162,515
Deliveries to ultimate customers	70,872	128,838
Line pack fluctuations	-	-
Gas used in system	-	1,362
Metering difference, line losses, cyclical billing adjustments and unaccounted for	2,283	32,315
Total disposition	68,589	162,515
Daily average sendout	2,212	5,242
Revenues	\$ 44,831	215,161

TABLE 6. Sales of Natural Gas

No.		January 1969			
		Customers		Gas sold Mcf.	Revenue \$
		Space heating	Total		
		No.			
	<u>Residential</u>				
1	New Brunswick	130	1,790	4,232	13,868
2	Quebec	101,218	203,872	1,881,057	2,598,730
3	Ontario	580,759	709,814	17,065,483	19,573,700
4	Manitoba	104,633	106,979	3,447,766	2,769,697
5	Saskatchewan	116,464	121,275	4,078,367	2,656,732
6	Alberta	262,709	264,106	10,623,654	4,962,888
7	British Columbia	179,290	197,211	4,624,520	7,203,805
8	Canada	1,345,203	1,605,047	41,725,079	39,779,420
	<u>Industrial</u>				
9	New Brunswick	-	-	-	-
10	Quebec		2,277	2,092,963	1,461,573
11	Ontario		8,101	15,616,944	9,658,037
12	Manitoba		294	957,806	317,540
13	Saskatchewan		613	4,481,702	1,183,334
14	Alberta		530	11,280,143	2,015,462
15	British Columbia		231	2,882,230	1,020,457
16	Canada		12,046	37,311,788	15,656,403
17	Firm		11,436	35,514,452	11,647,890
18	Interruptible		610	1,797,336	4,008,513
	<u>Commercial</u>				
19	New Brunswick		65	3,093	6,186
20	Quebec		10,370	904,840	1,028,743
21	Ontario		64,886	10,204,823	9,082,348
22	Manitoba		10,438	2,482,031	1,523,802
23	Saskatchewan		16,792	2,015,736	1,086,559
24	Alberta		30,214	8,307,770	3,088,279
25	British Columbia		25,419	2,560,017	2,368,159
26	Canada		158,184	26,478,310	18,184,098
	<u>Total sales</u>				
27	New Brunswick		1,855	7,325	20,054
28	Quebec		216,519	4,878,860	5,089,068
29	Ontario		782,801	42,887,250	38,314,085
30	Manitoba		117,711	6,887,603	4,611,039
31	Saskatchewan		138,680	10,575,805	4,926,625
32	Alberta		294,850	30,211,567	10,066,629
33	British Columbia		222,861	10,066,767	10,592,421
34	Canada		1,775,277	105,515,177	73,619,921

... Figures not appropriate or not applicable.

TABLE 7. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas

No.		January 1969		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
		No.	Mcf.	\$
1	Residential	11,240	61,685	123,850
2	Industrial	7	290	580
3	Commercial	2,272	66,863	90,731
4	Total	13,519	128,838	215,161

TABLE 6. Sales of Natural Gas

Sales per customer	Revenue per Mcf.	Customers		Gas sold	Revenue	No.
		Space heating	Total			
Mcf.	\$	No.		Mcf.	\$	
2.3	3.28	131	1,212	4,967	16,200	1
9.2	1.38	93,129	204,713	1,624,703	2,516,465	2
24.0	1.15	543,887	677,789	15,706,438	18,279,064	3
32.2	1.80	99,545	102,119	3,306,576	2,794,197	4
33.6	0.65	110,987	116,416	3,650,964	2,391,063	5
40.2	0.47	245,169	250,841	8,697,119	4,105,088	6
23.4	1.56	168,166	187,789	3,341,213	4,732,215	7
26.0	0.95	1,261,014	1,540,879	36,331,980	34,834,292	8
-	-		-	-	-	9
919	0.70		2,395	1,843,374	1,730,794	10
1,927	0.62		7,425	13,141,205	8,200,359	11
3,258	0.33		288	1,074,435	336,810	12
7,311	0.26		586	4,078,459	1,064,946	13
21,283	0.18		562	9,724,860	1,927,257	14
12,477	0.35		221	3,054,609	1,287,327	15
3,097	0.42		11,477	32,916,942	14,547,493	16
...	...		10,387	24,805,904	11,854,957	17
...	...		1,090	8,111,038	2,692,536	18
47.6	2.00		60	3,204	6,403	19
87.3	1.14		10,173	695,126	855,883	20
157.2	0.89		59,736	8,229,658	7,472,953	21
237.8	0.61		9,242	2,272,112	1,431,337	22
120.0	0.54		15,956	2,038,209	1,069,830	23
275.0	0.37		28,278	6,978,257	2,530,167	24
100.7	0.93		24,291	1,912,652	2,130,792	25
167.4	0.69		147,736	22,129,218	15,497,365	26
3.9	2.74		1,272	8,171	22,603	27
22.5	1.04		217,281	4,163,203	5,103,142	28
54.8	0.89		744,950	37,077,301	33,952,376	29
58.5	0.67		111,649	6,653,123	4,562,344	30
76.3	0.47		132,958	9,767,632	4,525,839	31
102.5	0.33		279,681	25,400,236	8,562,512	32
45.1	1.05		212,301	8,308,474	8,150,334	33
59.4	0.70		1,700,092	91,378,140	64,879,150	34

TABLE 7. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas

January 1969				No.
Manufactured gas				
Customers	Gas sold	Revenue		
No.	Mcf.	\$		
1,587	10,098	13,327		1
18	47,542	16,557		2
480	13,232	14,947		3
2,085	70,872	44,831		4

TABLE 8. Sales of Natural Gas in Mcf. with a Heat Content of 1,000 B.T.U. per Cubic Foot

	January 1969			
	Residential	Commercial	Industrial	Total
	Mcf.			
<u>Sales</u>				
New Brunswick	5,106	3,732	-	8,838
Quebec	1,916,701	921,670	2,133,619	4,971,990
Ontario	17,309,566	10,344,776	15,840,995	43,495,337
Manitoba	3,486,358	2,512,863	965,542	6,964,763
Saskatchewan	4,100,510	2,026,680	4,506,035	10,633,225
Alberta	11,197,691	8,783,526	11,774,002	31,755,219
British Columbia	4,831,390	2,669,964	3,011,672	10,513,026
Canada	42,847,322	27,263,211	38,231,865	108,342,398

TABLE 9. Exports and Imports of Natural Gas at 1,000 B.T.U.

	January 1969						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	214,975	471,416	11,739,732	3,628,250	44,074,505	60,128,878	60,128,878
Imports	-	2,998,230	-	23,195	-	3,021,425	3,021,425

TABLE 10. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas at 1,000 B.T.U.

	January 1969	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	96,659	34,286

TABLE 11. Exports and Imports to and from the United States

January 1969

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	212,426	-
Ontario - Cornwall	465,826	-
Niagara Falls	-	2,945,216
Ojibway	-	-
Total Ontario	465,826	2,945,216
Manitoba - Emerson	11,600,526	-
Alberta - Aden	1,815,319	-
Carway	1,775,105	-
Coutts	20	23,195
Total Alberta	3,590,444	23,195
British Columbia - Kingsgate - U.S.A. District V South(1)	22,636,528	-
Other U.S.A.	4,640,081	-
Huntingdon	14,887,959	-
Total British Columbia	42,164,568	-
Canada - January 1969	58,033,790	2,968,411
1968	52,092,912	6,173,198
Year to date - 1969	58,033,790	2,968,411
1968	52,092,912	6,173,198
Value - January 1969	15,009,321	1,666,822
1968	13,416,422	2,829,684

(1) California, Nevada, Arizona.

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010527948