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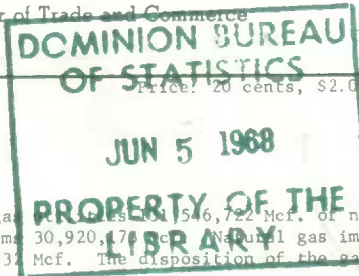
MONTHLY

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DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce



Vol. 10, No. 1

GAS UTILITIES
(Transport and Distribution Systems)
JANUARY 1968

During January field gathering systems and processing plants delivered to gas utilities 156,722 Mcf. of natural gas. The transport systems accounted for 100,626,549 Mcf. and the distribution systems 30,920,776 Mcf. Natural gas imported from the U.S.A. was 6,173,198 Mcf. and the volume recovered from storage was 15,026,932 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over January 1967	Revenue \$'000	% of total revenue
Ultimate customers	91,378	59.8	15.5	64,879	82.9
Exports	52,093	34.1	19.2	13,416	17.1
Other uses and adjustments	9,353	6.1	...	...	...
Totals	152,824	100.0	17.1	78,295	100.0

... Figures not appropriate or not applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 83.5 billion commodity (Mcf.) miles (1,903 million ton miles) during January compared with 79.9 billion (Mcf.) miles (1,730 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.6 million Mcf.

Alberta natural gas utilities receipts totalled 107.1 billion cubic feet; of this 23.7 per cent was sold to ultimate customers in Alberta, 15.5 per cent in Ontario, 3.9 per cent in Quebec, 3.8 per cent in Saskatchewan, 1.3 per cent in British Columbia and 6.2 per cent in Manitoba. Exports accounted for 38.6 per cent and the remaining 7.0 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 '000 Mcf.	% of total sales	% increase over January 1967	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	36,332	39.8	16.6	34,834	53.7	1,541
Industrial	32,917	36.0	11.9	14,548	22.4	11
Commercial	22,129	24.2	19.6	15,497	23.9	148
Totals	91,378	100.0	15.6	64,879	100.0	1,700

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 1968
6503-509

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

January 1968

No.	New Brunswick	Quebec	Ontario
		Mcf.	
	<u>Receipts</u>		
1	By transport systems:		
1a	Fields	-	-
1b	Processing plants	-	-
2	By distribution systems:		
2a	Fields	-	1,024,625
2b	Processing plants	11,570	-
3	Total (1 + 2)	11,570	1,024,625
4	Imports	-	6,155,820
5	Other receipts(1)	-	4,000
6	Total net receipts (3 + 4 + 5)	11,570	7,184,445
7	Received from storage	-	13,412,545
9	Total supply of gas utilities (6 + 7)	11,570	20,596,990
	Transfers from:		
11	Other provinces	4,345,429	24,807,452
12	Distribution to transport (primary)	3,941,365	-
13	Other gas utilities	-	33,018,777
19	Total gross receipts (9 + 11 + 12 + 13) ...	8,298,364	78,423,219
	<u>Disposition</u>		
	Sales:		
20	Residential	1,624,703	15,706,438
21	Industrial	1,843,374	13,141,205
22	Commercial	695,126	8,229,476
30	Total sales (20 + 21 + 22)	4,163,203	37,077,119
31	Exports	126,007	415,003
32	Other deliveries	-	6,180
33	Total net deliveries (30 + 31 + 32)	4,289,210	37,498,302
34	Delivered to storage	-	20,667
35	Line pack fluctuation	- 2,052	45,238
36	Gas used in system	18,544	2,501,858
37	Line losses and unaccounted for	51,297	992,948
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	4,356,999	41,059,013
	Transfers to:		
40	Other provinces	-	4,345,429
41	Distribution by transport (primary)	3,941,365	23,054,791
42	Other gas utilities	-	9,963,986
49	Total disposition (39 + 40 + 41 + 42)	8,298,364	78,423,219

(1) Includes peak shaving and enrichment.

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

January 1968

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	January 1967	No.
					Canada	
			Mcf.			
-	-	8,002,747	486,112	8,488,859	8,465,265	1a
-	-	73,620,286	18,517,404	92,137,690	78,771,451	1b
-	2,756,450	12,113,934	-	15,907,600	15,707,256	2a
-	2,039,263	12,818,696	143,044	15,012,573	14,791,017	2b
-	4,795,713	106,555,663	19,146,560	131,546,722	117,734,989	3
-	-	17,378	-	6,173,198	4,379,773	4
56,683	-	1,709	14,296	76,688	23,683	5
56,683	4,795,713	106,574,750	19,160,856	137,796,608	122,138,445	6
-	1,103,438	510,949	-	15,026,932	8,346,900	7
56,683	5,899,151	107,085,699	19,160,856	152,823,540	130,485,345	9
48,735,933	48,009,015	-	28,645,116	...	...	11
-	3,676,684	1,177,531	-	8,795,580	6,345,214	12
6,365,225	4,010,878	6,750,791	8,843,757	58,989,428	56,422,445	13
49,157,841	61,595,728	115,014,021	56,649,729	220,608,548	193,253,004	19
3,306,576	3,650,964	8,697,119	3,341,213	36,331,980	31,158,284	20
1,074,435	4,078,459	9,724,860	3,054,609	32,916,942	29,418,788	21
2,272,112	2,038,209	6,978,257	1,912,652	22,129,036	18,494,795	22
6,653,123	9,767,632	25,400,236	8,308,474	91,377,958	79,071,867	30
10,902,019	-	2,941,368	37,708,515	52,092,912	43,700,898	31
-	-	117,114	-	123,294	241,834	32
17,555,142	9,767,632	28,458,718	46,016,989	143,594,164	123,014,599	33
-	156,262	-	-	176,929	311,925	34
33,928	138,555	31,117	300,754	547,540	29,177	35
600,156	1,205,727	824,713	1,235,068	6,386,066	5,101,044	36
- 204,062	- 95,943	1,117,020	253,161	2,118,841	2,028,600	37
17,985,164	11,172,233	30,431,568	47,805,972	152,823,540	130,485,345	39
24,807,452	42,735,933	76,654,131	-	...	...	40
6,365,225	4,010,878	99,201	8,348,546	45,820,006	42,803,077	41
-	3,676,684	7,829,121	495,211	21,965,002	19,964,582	42
49,157,841	61,595,728	115,014,021	56,649,729	220,608,548	193,253,004	49

... Figures not applicable or not appropriate.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1963

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	8,488,859				
1b	Processing plants	92,137,690				
2	By distribution systems:					
2a	Fields	15,907,600				
2b	Processing plants	15,012,573				
3	Total (1 + 2)	131,546,722				
4	Imports	6,173,198				
5	Other receipts(1)	76,688				
6	Total net receipts (3 + 4 + 5)	137,796,608				
7	Received from storage	15,026,932				
9	Total supply of gas utilities (6 + 7)	152,823,540				
	Transfers from:					
11	Other provinces .....	...			
12	Distribution to transport (primary)	8,795,580				
13	Other gas utilities	58,989,428				
19	Total gross receipts (9 + 11 + 12 + 13) ...	220,608,548				
	<u>Disposition</u>					
	Sales:					
20	Residential	36,331,980				
21	Industrial	32,916,942				
22	Commercial	22,129,036				
30	Total sales (20 + 21 + 22)	91,377,958				
31	Exports	52,092,912				
32	Other deliveries	123,294				
33	Total net deliveries (30 + 31 + 32)	143,594,164				
34	Delivered to storage	176,929				
35	Line pack fluctuation	547,540				
36	Gas used in system	6,386,066				
37	Line losses and unaccounted for	2,118,841				
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	152,823,540				
	Transfers to:					
40	Other provinces .....	...			
41	Distribution by transport (primary)	45,820,006				
42	Other gas utilities	21,965,002				
49	Total disposition (39 + 40 + 41 + 42)	220,608,548				

(1) Includes peak shaving and enrichment.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1968

June	July	August	September	October	November	December	Year to date		No.
							1968	1967	
Mcf.									
							8,488,859	8,465,265	1a
							92,137,690	78,771,451	1b
							15,907,600	15,707,256	2a
							15,012,573	14,791,017	2b
							131,546,722	117,734,989	3
							6,173,198	4,379,773	4
							76,688	23,683	5
							137,796,608	122,138,445	6
							15,026,932	8,346,900	7
							152,823,540	130,485,345	9
							11
							8,795,580	6,345,214	12
							58,989,428	56,422,445	13
							220,608,548	193,253,004	19
							36,331,980	31,158,284	20
							32,916,942	29,418,788	21
							22,129,036	18,494,795	22
							91,377,958	79,071,867	30
							52,092,912	43,700,898	31
							123,294	241,834	32
							143,594,164	123,014,599	33
							176,929	311,925	34
							547,540	29,177	35
							6,386,066	5,101,044	36
							2,118,841	2,028,600	37
							152,823,540	130,485,345	39
							40
							45,820,006	42,803,077	41
							21,965,002	19,964,582	42
							220,608,548	193,253,004	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

January 1968

No.		New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.								
	<u>Receipts</u>									
1	By transport systems:									
1a	Fields	-	-	-	-	8,002,747	486,112	-	8,488,859	
1b	Processing plants	-	-	-	-	73,620,286	18,517,404	-	92,137,690	
2	By distribution systems:									
2a	Fields	12,591	-	1,024,625	2,756,450	12,113,934	-	-	15,907,600	
2b	Processing plants	-	11,570	-	2,039,263	12,818,696	143,044	-	15,012,573	
3	Total (1 + 2)	12,591	11,570	1,024,625	4,795,713	106,555,663	19,146,560	-	131,546,722	
4	Imports	-	-	-	-	-	-	6,173,198	6,173,198	
5	Other receipts(1)	-	-	4,000	-	58,392	14,296	-	76,688	
6	Total net receipts (3 + 4 + 5)	12,591	11,570	1,028,625	4,795,713	106,614,055	19,160,856	6,173,198	137,796,608	
7	Received from storage	-	-	13,412,545	1,103,438	510,949	-	-	15,026,932	
9	Total supply of gas utilities (6 + 7)	12,591	11,570	14,441,170	5,899,151	107,125,004	19,160,856	6,173,198	152,823,540	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	1,412,711	6,895,763	-	8,308,474	
24	Alberta	-	-	-	-	25,382,738	-	17,498	25,400,236	
25	Saskatchewan	-	-	-	5,697,747	4,069,885	-	-	9,767,632	
26	Manitoba	-	-	-	-	6,653,123	-	-	6,653,123	
27	Ontario	-	-	14,320,755	-	16,600,544	-	6,155,820	37,077,119	
28	Quebec	-	11,570	-	-	4,151,633	-	-	4,163,203	
29	New Brunswick	8,171	-	-	-	-	-	-	8,171	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	8,171	11,570	14,320,755	5,697,747	58,270,634	6,895,763	6,173,318	91,377,958	
31	Exports	-	-	-	-	41,300,276	10,792,636	-	52,092,912	
32	Other deliveries	-	-	-	-	123,294	-	-	123,294	
33	Total net deliveries (30 + 31 + 32)	8,171	11,570	14,320,755	5,697,747	99,694,204	17,688,399	6,173,318	143,594,164	
34	Delivered to storage	-	-	-	156,262	20,667	-	-	176,929	
35	Line pack fluctuation	-	-	-	8,467	270,338	285,669	-	547,540	
36	Gas used in system	-	-	38,436	213,496	5,153,772	980,362	-	6,386,066	
37	Line losses and unaccounted for	4,420	-	81,979	159,887	1,986,023	206,426	120	2,118,841	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,591	11,570	14,441,170	5,899,151	107,125,004	19,160,856	6,173,198	152,823,540	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

January 1968

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
January 1968:			
Daily average	3,158,481	2,947,691	4,637,777
Maximum(1)	3,494,251	...	...
Minimum(1)	3,026,002	...	...
Exports maximum(1)	1,759,357	...	...
January 1967:			
Daily average	2,790,451	2,550,705	3,978,275
Maximum(1)	3,039,856	...	...
Minimum(1)	2,542,371	...	...
Year to date 1968			
Daily average	3,158,481	2,947,691	4,637,777
Maximum(1)	3,494,251	..	..
Minimum(1)	3,026,002	..	..
Commodity miles:			
Mcf. miles (thousands)	83,458,759	..	..
Ton-miles (millions)	1,903	..	..
Line pack:			
Beginning of month (Mcf.)	7,815,734	..	..
End of month (Mcf.)	8,356,326	..	..
Operating revenues	\$..	64,879,150	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

January 1968

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	45,660	215,414
Deliveries to ultimate customers	45,893	152,808
Line pack fluctuations	-	47
Gas used in system	-	3,246
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 233	59,313
Total disposition	45,660	215,414
Daily average sendout	1,473	6,949
Revenues	\$ 37,424	255,816

TABLE 6. Sales of Natural Gas

No.		January 1968			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
Residential:					
1	New Brunswick	131	1,212	4,967	16,200
2	Quebec	93,129	204,713	1,624,703	2,516,465
3	Ontario	543,887	677,789	15,706,438	18,279,064
4	Manitoba	99,545	102,119	3,306,576	2,794,197
5	Saskatchewan	110,987	116,416	3,650,964	2,391,063
6	Alberta	245,169	250,841	8,697,119	4,105,088
7	British Columbia	168,166	187,789	3,341,213	4,732,215
8	Canada	1,261,014	1,540,879	36,331,980	34,834,292
Industrial:					
9	New Brunswick	-	-	-	-
10	Quebec	-	2,395	1,843,374	1,730,794
11	Ontario	-	7,425	13,141,205	8,200,359
12	Manitoba	-	288	1,074,435	336,810
13	Saskatchewan	-	586	4,078,459	1,064,946
14	Alberta	-	562	9,724,860	1,927,257
15	British Columbia	-	221	3,054,609	1,287,327
16	Canada	-	11,477	32,916,942	14,547,493
17	Firm	-	10,387	24,805,904	11,854,957
18	Interruptible	-	1,090	8,111,038	2,692,536
Commercial:					
19	New Brunswick	60	60	3,204	6,403
20	Quebec	10,173	10,173	695,126	855,883
21	Ontario	59,736	59,736	8,229,476	7,472,953
22	Manitoba	9,242	9,242	2,272,112	1,431,337
23	Saskatchewan	15,956	15,956	2,038,209	1,069,800
24	Alberta	28,278	28,278	6,978,257	2,530,167
25	British Columbia	24,291	24,291	1,912,652	2,130,792
26	Canada	147,736	147,736	22,129,036	15,497,365
Total sales:					
27	New Brunswick	1,272	1,272	8,171	22,603
28	Quebec	217,281	217,281	4,163,203	5,103,142
29	Ontario	744,950	744,950	37,077,119	33,952,376
30	Manitoba	111,649	111,649	6,653,123	4,562,344
31	Saskatchewan	132,958	132,958	9,767,632	4,525,839
32	Alberta	279,681	279,681	25,400,236	8,562,512
33	British Columbia	212,301	212,301	8,308,474	8,150,334
34	Canada	1,700,092	1,700,092	91,377,958	64,879,150

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

No.		January 1968		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	13,445	90,981	172,769
2	Industrial	7	447	905
3	Commercial	2,625	61,380	82,142
4	Total	16,077	152,808	255,816

TABLE 6. Sales of Natural Gas

Sales per customer Mcf.	Revenue per Mcf. \$	January 1967				No.
		Customers		Gas sold Mcf.	Revenue \$	
		Space heating No.	Total No.			
4.1	3.26	100	1,998	4,454	13,955	1
7.9	1.55	87,565	204,629	1,580,948	2,262,109	2
23.2	1.16	515,859	654,388	13,567,076	15,920,451	3
32.4	0.85	92,668	95,410	2,882,300	2,446,781	4
31.4	0.65	105,094	109,434	3,088,442	2,050,671	5
34.7	0.47	235,885	242,074	7,187,077	3,530,447	6
17.8	1.42	156,376	176,683	2,847,987	4,138,927	7
23.6	0.96	1,193,547	1,484,616	31,158,284	30,363,341	8
-	-	-	-	-	-	9
769	0.94	-	2,383	1,254,983	931,146	10
1,769	0.62	-	7,115	11,551,624	7,166,006	11
3,730	0.31	-	281	1,086,482	371,014	12
6,959	0.26	-	572	2,892,768	808,926	13
17,304	0.20	-	551	9,522,368	1,825,333	14
13,821	0.42	-	203	3,110,563	1,294,765	15
2,868	0.44	-	11,105	29,418,788	12,397,190	16
-	-	-	10,581	25,353,546	10,750,726	17
-	-	-	524	4,065,242	1,646,464	18
53.4	2.00	-	58	2,311	4,666	19
68.3	1.23	-	9,968	495,060	612,862	20
137.8	0.91	-	56,618	6,690,686	6,194,682	21
245.8	0.63	-	8,506	1,953,826	1,302,802	22
127.7	0.52	-	14,818	1,746,412	885,803	23
246.8	0.36	-	27,375	6,042,367	3,379,551	24
78.7	1.11	-	23,262	1,564,133	1,763,676	25
149.8	0.70	-	140,605	18,494,795	14,144,042	26
6.4	2.77	-	2,056	6,765	18,621	27
19.2	1.23	-	216,980	3,330,991	3,806,117	28
49.8	0.92	-	718,121	31,809,386	29,281,139	29
59.6	0.69	-	104,197	5,922,608	4,120,597	30
73.5	0.46	-	124,824	7,727,622	3,745,400	31
90.8	0.34	-	270,000	22,751,812	8,735,331	32
39.1	0.98	-	200,148	7,522,683	7,197,368	33
53.7	0.71	-	1,636,326	79,071,867	56,904,573	34

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

January 1968				No.
Manufactured gas				
Customers No.	Gas sold Mcf.	Revenue \$		
1,785	10,076	13,465	1	
22	23,985	9,848	2	
511	11,832	14,111	3	
2,318	45,893	37,424	4	

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

	January 1968			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	5,993	-	3,865	9,858
Quebec	1,642,958	1,891,715	702,797	4,237,470
Ontario	15,488,535	13,608,447	8,132,382	37,229,364
Manitoba	3,337,811	1,082,380	2,294,473	6,714,664
Saskatchewan	3,670,786	4,100,603	2,049,275	9,820,664
Alberta	9,327,922	10,321,884	7,230,539	26,880,345
British Columbia	3,383,403	3,154,527	2,014,251	8,552,181
Canada	36,857,408	34,159,556	22,427,582	93,444,546

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

	January 1968						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	133,189	416,663	10,989,235	3,418,529	39,647,407	54,605,023	54,605,023
Imports	-	6,230,913	-	17,378	-	6,248,291	6,248,291

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

	January 1968	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	124,393	32,497

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

January 1968

Province and customs port	Exports	Imports
		Mcf.
Quebec - Phillipsburg	126,007	-
Ontario - Cornwall	415,003	-
Niagara Falls	-	4,805,247
Ojibway	-	1,350,573
Total Ontario	415,003	6,155,820
Manitoba - Emerson	10,902,019	-
Alberta - Aden	1,401,733	-
Carway	1,538,780	-
Coutts	855	17,378
Total Alberta	2,941,368	17,378
British Columbia - Kingsgate - U.S.A. District V South(1)	20,956,496	-
Other U.S.A.	4,370,047	-
Huntingdon	12,381,972	-
Total British Columbia	37,708,515	-
Canada - 1968	52,092,912	6,173,198
1967	43,700,898	4,379,773
Year to date - 1968	52,092,912	6,173,198
1967	43,700,898	4,379,773
Value - 1968	13,416,422	2,829,684
1967	9,969,824	3,857,312

(1) California, Nevada, Arizona.

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