

Historical File Copy

CATALOGUE No.

35-002

MONTHLY

C.1

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

Vol. 5, No. 10

Price: 20 cents, \$2.00 a year

GAS UTILITIES

(Transport and Distribution Systems)

OCTOBER 1963

Gas utilities for October 1963 received from field gathering systems and processing plants 68,650,384 Mcf. of natural gas. The transport systems accounted for 5,022,913 Mcf. from fields and 45,840,931 Mcf. from processing plants, while the distribution systems received 10,647,755 Mcf. and 7,138,785 Mcf. respectively; natural gas received from storage was 294,597 Mcf. The total supply of gas utilities totalled 69,022,368 Mcf., a decrease of less than one per cent from October 1962. Of the total supply, 31,192,722 Mcf. were sold to ultimate customers in Canada, an increase of 3.8 per cent, while exports amounted to 29,289,379 Mcf., a decrease of 7.6 per cent from last year. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. Transport systems delivered 20,682,808 Mcf. to distribution systems, an increase of 13.2 per cent over the previous year. For the twelve-month period ended October 1963 exports totalled 371,697,004 Mcf., while net deliveries amounted to 818,334,131 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 48.5 billion commodity (Mcf.) miles during October 1963 compared with 43.5 billion for 1962. Ton-miles totalled 1,105 million for October 1963. The daily average deliveries of gas utilities amounted to 2.1 million Mcf.

Alberta natural gas utility receipts totalled 55.9 billion cubic feet; of this 21.0 per cent was sold to ultimate customers in Alberta, 17.1 per cent in Ontario, 3.8 per cent in Quebec, 2.5 per cent in Saskatchewan, 1.3 per cent in British Columbia and 1.2 per cent in Manitoba. In Table 3 deliveries of natural gas are considered as terminating and receipts from storage as originating in the province where the storage is located.

Revenue for the natural gas utilities for the month was \$26,454,591 and for manufactured and liquefied petroleum gases systems \$172,804, giving a combined Gas Utilities total of \$26,627,395.

This report has revisions in concept to bring it into line with the practice of industry as well as several revisions by respondents to adopt the new concepts. All gas volumes are now given in cubic feet measured at 14.73 p.s.i.a. and 60°F; that is, without adjustments to a common B.T.U. base. Gas sales and exports in cubic feet containing 1,000 B.T.U.'s at 14.73 p.s.i.a. and 60°F are given separately in Tables 4 and 5 in the companion publication "Sales of Manufactured and Natural Gas", Catalogue number 45-005. As a result of these changes it has been necessary to revise certain of the 1962 figures, particularly exports, to enable more meaningful comparisons. Unfortunately, there is no precise comparison of residential, commercial and industrial sales although the reported sales volumes are believed to be within 1 to 2 per cent of what volumes would have been under the revised concepts.

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 a cyclical billing adjustment.

Industry Division

January 1964
8506-503

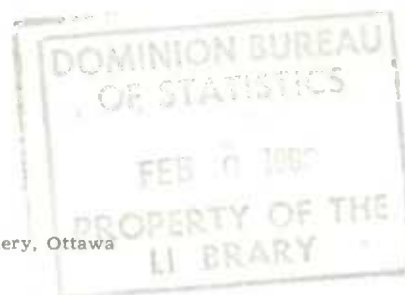


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

October 1963

No.	New Brunswick	Quebec	Ontario
		Mcf.	
	<u>Receipts</u>		
1	By transport systems:		
1a	-	-	-
1b	-	-	-
2	By distribution systems:		
2a	7,644	-	1,285,900
2b	-	-	-
3	7,644	-	1,285,900
4	-	-	63,470
5	-	-	-
6	7,644	-	1,349,370
7	-	-	161,836
9	7,644	-	1,511,206
	Transfers from:		
11	-	2,233,100	16,060,293
12	-	-	2,050,353
13	-	2,233,100	18,193,911
19	7,644	4,466,200	37,815,768
	<u>Disposition</u>		
	Sales:		
20	4,370	386,956	2,293,227
21	-	1,618,323	7,560,817
22	1,450	140,896	1,090,934
30	5,820	2,146,175	10,944,978
31	-	-	149,648
32	-	-	41
33	5,820	2,146,175	11,094,667
34	-	-	2,950,392
35	-	829	- 80,145
36	-	1,343	586,579
37	1,824	84,753	786,906
39	7,644	2,233,100	15,338,399
	Transfers to:		
40	-	-	2,233,100
41	-	2,233,100	12,367,233
42	-	-	7,877,033
49	7,644	4,466,200	37,815,768

† Revised figures.

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

October 1963

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	October ^r 1962		No.
						Canada	
			Mcf.				
-	-	4,745,781	277,132	5,022,913	)		1a
-	-	36,841,192	8,999,739	45,840,931	)	49,095,233	1b
-	466,812	8,881,903	5,496	10,647,755	)		2a
-	1,755,134	5,345,359	38,292	7,138,785	)	18,418,219	2b
-	2,221,946	55,814,235	9,320,659	68,650,384		67,513,452	3
-	-	4,555	-	68,025		109,345	4
120	-	9,242	-	9,362		-	5
120	2,221,946	55,828,032	9,320,659	68,727,771		67,622,797	6
-	16,918	115,843	-	294,597		1,512,301	7
120	2,238,864	55,943,875	9,320,659	69,022,368		69,135,098	9
23,399,646	23,922,294	-	16,325,552	...	)	...	11
-	602,244	1,487,795	-	4,140,394	)		12
1,253,975	1,564,323	3,043,107	3,158,001	29,446,417	)	28,204,651	13
23,653,741	28,327,725	60,474,777	28,804,212	102,609,179		97,339,749	19
302,377	463,718	1,737,377	841,496	6,029,521		6,766,219	20
572,473	1,670,601	8,497,516	1,762,375	21,682,105		19,665,996	21
238,868	208,882	1,511,499	288,567	3,481,096		3,628,683	22
1,113,718	2,343,201	11,746,392	2,892,438	31,192,722		30,060,898	30
4,800,196	-	2,088,300	22,251,235	29,289,379		31,706,316	31
-	-	79,156	-	79,197		27,124	32
5,913,914	2,343,201	13,913,848	25,143,673	60,561,298		61,794,338	33
-	305,845	30,178	-	3,286,415		1,359,664	34
- 15,602	- 15,616	24,539	- 16,528	- 102,523		- 49,063	35
270,489	575,407	45,301	224,425	1,703,544		978,152	36
170,672	552,675	1,682,163	294,641	3,573,634		5,004,660	37
6,339,473	3,761,512	15,696,029	25,646,211	69,022,368		69,087,751	39
16,060,293	22,399,646	40,247,846	-	...		...	40
1,253,975	1,564,323	167,493	3,096,684	20,682,808		18,265,720	41
-	602,244	4,363,409	61,317	12,904,003		9,986,278	42
23,653,741	28,327,725	60,474,777	28,804,212	102,609,179		97,339,749	49

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1983

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	6,490,502	5,665,269	5,185,435	4,817,434	3,969,236
1b	Processing plants	53,448,663	45,922,308	50,341,692	45,448,449	44,410,120
2	By distribution systems:					
2a	Fields	20,099,614	15,790,009	14,239,942	11,394,674	9,779,643
2b	Processing plants	6,544,092	6,772,147	7,614,165	6,155,868	6,333,738
3	Total (1 + 2)	86,582,871	74,149,733	77,381,234	67,816,425	64,492,737
4	Imports	213,784	166,149	987,966	1,124,916	875,595
5	Other receipts	82,482	40,522	1,002	441	17,726
6	Total net receipts (3 + 4 + 5)	86,879,137	74,356,404	78,370,202	68,941,782	65,386,058
7	Received from storage	8,536,394	5,486,862	2,646,935	773,968	152,844
9	Total supply of gas utilities (6 + 7)	95,415,531	79,843,266	81,017,137	69,715,750	65,538,902
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary)	4,275,301	4,737,209	3,624,455	2,988,816	3,874,610
13	Other gas utilities	43,342,270	38,021,384	35,730,383	30,669,258	28,038,503
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,033,102	122,601,859	120,371,975	103,373,824	97,452,015
	<u>Disposition</u>					
	Sales:					
20	Residential	24,487,687	24,217,941	19,618,195	13,908,773	9,552,827
21	Industrial	18,626,804	17,246,726	19,446,709	19,890,248	20,520,937
22	Commercial	10,897,541	10,826,176	8,844,584	6,530,644	4,534,231
30	Total sales (20 + 21 + 22)	54,012,032	52,290,843	47,909,488	40,329,665	34,607,995
31	Exports	34,608,544	29,721,885	32,520,099	29,464,060	28,532,280
32	Other deliveries	88,879	65,370	68,550	59,194	56,316
33	Total net deliveries (30 + 31 + 32)	88,709,455	82,078,098	80,498,137	69,852,919	63,196,591
34	Delivered to storage	607,009	363,974	680,971	1,548,765	3,327,458
35	Line pack fluctuation	168,468	- 110,881	254,266	- 188,432	- 72,489
36	Gas used in system	2,125,732	1,883,954	1,922,048	1,572,385	1,508,466
37	Line losses and unaccounted for	3,804,867	- 4,371,879	- 2,338,285	- 3,069,887	- 2,421,124
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531	79,843,266	81,017,137	69,715,750	65,538,902
	Transfers to:					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary)	34,377,018	29,710,223	27,422,291	22,906,425	21,685,393
42	Other gas utilities	13,240,553	13,048,370	11,932,547	10,751,649	10,227,720
49	Total disposition (39 + 40 + 41 + 42)	143,033,102	122,601,859	120,371,975	103,373,824	97,452,015

* Revised figures.

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

June	July	August	September	October	November	December	Year to date		No.
							1963	1962 ^F	
Mcf.									
3,545,883 40,807,081	3,917,797 41,167,577	4,473,601 40,752,094	4,720,859 42,215,524	5,022,913 45,840,931			47,808,929 450,354,439	461,527,517	1a 1b
7,666,185 6,227,544	6,927,079 5,813,608	7,467,238 6,023,038	8,209,324 6,397,408	10,647,755 7,138,785			112,221,463 65,020,393	172,232,254	2a 2b
58,246,693	57,826,061	58,715,971	61,543,115	68,650,384			675,405,224	633,759,771	3
828,262 4,042	867,400 10,081	859,313 9,846	809,481 9,715	68,025 9,362			6,800,891 185,219	5,459,594 36,846	4 5
59,078,997	58,703,542	59,585,130	62,362,311	68,727,771			682,391,334	639,256,211	6
39,489	-	2,264	7,112	294,597			17,940,465	16,576,097	7
59,118,486	58,703,542	59,587,394	62,369,423	69,022,368			700,331,799	655,832,308	9
...	...	...	...	...			...	...	11
4,400,365	5,105,874	4,764,739	3,855,268	4,140,394			41,766,731	295,015,735	12
24,171,023	24,539,783	25,111,177	26,826,572	29,446,417			305,896,770		13
87,689,574	88,349,199	89,463,310	93,051,263	102,609,179			1,047,995,300	950,848,043	19
5,602,252 19,736,318 2,786,605	3,477,050 19,157,302 1,886,996	3,035,356 19,932,618 1,869,999	3,784,998 19,878,287 2,714,615	6,029,521 21,682,105 3,481,096			113,714,600 196,118,054 54,372,487	108,283,343 178,746,928 51,518,487	20 21 22
28,125,175	24,521,348	24,837,973	26,377,900	31,192,722			364,205,141	338,548,758	30
26,118,308 52,586	26,871,216 50,623	26,295,124 55,297	27,125,032 61,063	29,289,379 79,197			290,545,927 637,075	280,190,612 459,358	31 32
54,296,069	51,443,187	51,188,394	53,563,995	60,561,298			655,388,143	619,198,728	33
5,491,294 - 159,822 1,475,841 - 1,984,896	6,290,164 - 266,566 1,521,333 - 284,576	5,316,723 231,302 1,531,913 1,319,062	4,370,359 226,529 1,591,855 2,616,685	3,286,415 - 102,523 1,703,544 3,573,634			31,283,132 - 20,148 16,837,071 3,156,399	25,809,794 - 186,581 13,250,893 - 2,461,323	34 35 36 37
59,118,486	58,703,542	59,587,394	62,369,423	69,022,368			700,331,799	655,611,511	39
...	...	...	...	...			...	...	40
16,947,007	16,385,216	16,936,705	18,332,801	20,682,808			225,385,887	187,100,685	41
11,624,081	13,260,441	12,939,211	12,349,039	12,904,003			122,277,614	108,135,847	42
87,689,574	88,349,199	89,463,310	93,051,263	102,609,179			1,047,995,300	950,848,043	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

October 1963

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
					Mcf.			
	<u>Receipts</u>							
1	By transport systems:							
1a	Fields	-	-	-	4,745,781	277,132	...	5,022,913
1b	Processing plants	-	-	-	36,841,192	8,999,739	...	45,840,931
2	By distribution systems:							
2a	Fields	7,644	1,285,900	466,812	8,881,903	5,496	...	10,647,755
2b	Processing plants	-	-	1,755,134	5,345,359	38,292	...	7,138,785
3	Total (1 + 2)	7,644	1,285,900	2,221,946	55,814,235	9,320,659	...	68,650,384
4	Imports .....	...	...	...	...	...	68,025	68,025
5	Other receipts	-	-	-	9,362	-	...	9,362
6	Total net receipts (3 + 4 + 5)	7,644	1,285,900	2,221,946	55,823,597	9,320,659	68,025	68,727,771
7	Received from storage	-	161,836	16,918	115,843	-	...	294,597
9	Total supply of gas utilities (6 + 7)	7,644	1,447,736	2,238,864	55,939,440	9,320,659	68,025	69,022,368
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	716,546	2,175,892	-	2,892,438
24	Alberta	-	-	-	11,741,837	-	4,555	11,746,392
25	Saskatchewan	-	-	938,702	1,404,499	-	-	2,343,201
26	Manitoba	-	-	442,420	671,298	-	-	1,113,718
27	Ontario	-	1,341,912	-	9,539,596	-	63,470	10,944,978
28	Quebec	-	-	-	2,146,175	-	-	2,146,175
29	New Brunswick	5,820	-	-	-	-	-	5,820
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,820	1,341,912	1,381,122	26,219,951	2,175,892	68,025	31,192,722
31	Exports	-	-	-	22,550,995	6,738,384	...	29,289,379
32	Other deliveries	-	-	-	79,197	-	...	79,197
33	Total net deliveries (30 + 31 + 32)	5,820	1,341,912	1,381,122	48,850,143	8,914,276	68,025	60,561,298
34	Delivered to storage	-	-	305,845	2,980,570	-	-	3,286,415
35	Line pack fluctuation	-	-	5,187	- 78,873	- 28,837	-	- 102,523
36	Gas used in system	-	33,618	34,428	1,488,517	146,981	-	1,703,544
37	Line losses and unaccounted for	1,824	72,206	512,282	2,699,083	288,239	-	3,573,634
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,644	1,447,736	2,238,864	55,939,440	9,320,659	68,025	69,022,368

... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

October 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
October 1963:			
Daily average	1,612,006	1,006,217	2,059,604
Maximum(1)	2,068,208	...	...
Minimum(1)	1,350,474	...	...
Exports maximum(1)	1,259,082	...	1,259,082
October 1962 ^r :			
Daily average	1,612,001	969,706	2,037,226
Maximum(1)	2,058,796	...	...
Minimum(1)	1,468,531	...	...
Year to date 1963:			
Daily average	1,697,144	1,198,043	2,258,787
Maximum(1)	2,627,885	...	...
Minimum(1)	1,130,725	...	...
Commodity miles:			
Mcf. miles (thousands)	48,479,225	..	..
Ton-miles (millions)	1,105	..	..
Line pack:			
Beginning of month (Mcf.)	6,356,978	..	..
End of month (Mcf.)	6,251,104	..	..
Operating revenues	(\$16,426,435	(\$17,839,545	(\$26,454,591(2)

- (1) Non-coincident.
- (2) Interindustry revenues eliminated.
- .. Figures not available.
- ... Figures not appropriate or not applicable.
- ^r Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

October 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	50,418	163,744
Deliveries to ultimate customers	50,541	142,389
Line pack fluctuations	-	-
Gas used in system	-	800
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 123	20,555
Total disposition	50,418	163,744
Daily average sendout	1,626	5,282
Revenues	(\$43,791	(\$129,013



TABLE 6. Exports and Imports to and from the United States
October 1963

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	149,648	-
Ojibway, Ontario	-	63,470
Emerson, Manitoba	4,800,196	-
Coutts, Alberta	174	4,555
Aden, Alberta	1,111,462	-
Carway, Alberta	976,664	-
Kingsgate, British Columbia	13,670,483	-
Huntingdon, British Columbia	8,580,752	-
Canada	29,289,379	68,025