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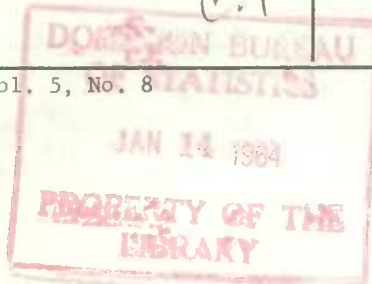
## DOMINION BUREAU OF STATISTICS

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GAS UTILITIES

(Transport and Distribution Systems)

AUGUST 1963

Gas utilities for August 1963 received from field gathering systems and processing plants 58,715,971 Mcf. of natural gas. The transport systems accounted for 4,473,601 Mcf. from fields and 40,752,094 Mcf. from processing plants, while the distribution systems received 7,467,238 Mcf. and 6,023,038 Mcf. respectively; natural gas received from storage was 2,264 Mcf. The total supply of gas utilities totalled 59,587,394 Mcf. and was 1.4 per cent higher than in August 1962. Of the total supply, 24,837,973 Mcf. were sold to ultimate customers in Canada, an increase of 7.5 per cent, while exports amounted to 26,295,124 Mcf., a decrease of 7.7 per cent over 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 16,936,705 Mcf. to distribution systems, an increase of 15.4 per cent over the previous year. For the twelve-month period ended August 1963 exports totalled 376,053,247 Mcf., while net deliveries amounted to 820,776,657 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 45.1 billion commodity (Mcf.) miles during August 1963 compared with 40.0 billion for the same month last year. Ton-miles totalled 1,028 million for August 1963. The daily average deliveries of gas utilities amounted to 1.8 million Mcf.

Alberta natural gas utility receipts totalled 49.9 billion cubic feet; of this 18.6 per cent was sold to ultimate customers in Alberta, 14.3 per cent in Ontario, 4.3 per cent in Quebec, 1.4 per cent in Saskatchewan, 1.3 per cent in British Columbia and 1.0 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 \$20,904,435 and for manufactured and liquefied petroleum gases systems \$170,669, giving a combined Gas Utilities total of \$21,075,104.

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

December 1963  
8506-503

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

August 1963

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	7,133	-	664,512
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	7,133	-	664,512
4	Imports .....	-	-	857,852
5	Other receipts .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	7,133	-	1,522,364
7	Received from storage .....	-	-	2,264
9	Total supply of gas utilities (6 + 7) .....	7,133	-	1,524,628
	Transfers from:			
11	Other provinces .....	-	2,251,096	15,443,904
12	Distribution to transport (primary) .....	-	-	3,098,955
13	Other gas utilities .....	-	2,251,096	16,270,913
19	Total gross receipts (9 + 11 + 12 + 13) ...	7,133	4,502,192	36,338,440
	<u>Disposition</u>			
	Sales:			
20	Residential .....	3,352	215,990	1,226,932
21	Industrial .....	-	1,844,924	6,542,114
22	Commercial .....	1,450	88,028	683,232
30	Total sales (20 + 21 + 22) .....	4,802	2,148,942	8,452,278
31	Exports .....	-	-	125,869
32	Other deliveries .....	-	-	-
33	Total net deliveries (30 + 31 + 32) .....	4,802	2,148,942	8,578,147
34	Delivered to storage .....	-	-	5,033,764
35	Line pack fluctuation .....	-	- 750	90,948
36	Gas used in system .....	-	23,432	561,608
37	Line losses and unaccounted for .....	2,331	79,472	452,969
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	7,133	2,251,096	14,717,436
	Transfers to:			
40	Other provinces .....	-	-	2,251,096
41	Distribution by transport (primary) .....	-	2,251,096	11,077,014
42	Other gas utilities .....	-	-	8,292,804
49	Total disposition (39 + 40 + 41 + 42) .....	7,133	4,502,192	36,338,440

F Revised figures.

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

August 1963

Manitoba <sup>r</sup>	Saskatchewan	Alberta <sup>r</sup>	British Columbia	Canada	August <sup>r</sup> 1962	No.
					Canada	
Mcf.						
-	-	4,038,573	435,028	4,473,601	) 43,919,995	1a
-	-	34,940,549	5,811,545	40,752,094		)
-	394,411	6,396,259	4,923	7,467,238	) 13,701,142	2a
-	1,478,437	4,533,660	10,941	6,023,038		)
-	1,872,848	49,909,041	6,262,437	58,715,971	57,621,137	3
-	-	1,461	-	859,313	943,749	4
31	-	9,815	-	9,846	-	5
31	1,872,848	49,920,317	6,262,437	59,585,130	58,564,886	6
-	-	-	-	2,264	221,473	7
31	1,872,848	49,920,317	6,262,437	59,587,394	58,786,359	9
21,273,026	22,268,601	-	15,593,956	...	...	11
-	529,962	1,135,782	-	4,764,739	) 24,900,706	12
751,976	956,391	3,035,042	1,845,759	25,111,177		)
22,025,033	25,627,802	54,091,141	23,702,152	89,463,310	83,687,065	19
119,783	233,674	898,877	336,748	3,035,356	3,003,622	20
564,562	2,004,501	7,671,092	1,305,425	19,932,618	18,253,922	21
95,045	116,908	737,198	148,138	1,869,999	1,843,619	22
779,390	2,355,083	9,307,167	1,790,311	24,837,973	23,101,163	30
4,773,300	-	1,739,286	19,656,669	26,295,124	28,493,777	31
-	-	55,297	-	55,297	45,592	32
5,552,690	2,355,083	11,101,750	21,446,980	51,188,394	51,640,532	33
-	-	282,959	-	5,316,723	4,348,018	34
21,698	19,591	35,613	64,202	231,302	270,395	35
246,024	514,537	46,087	140,225	1,531,913	1,200,530	36
8,741	- 20,788	591,351	204,986	1,319,062	1,291,415	37
5,829,153	2,868,423	12,057,760	21,856,393	59,587,394	58,750,890	39
15,443,904	21,273,026	37,862,557	-	...	...	40
751,976	956,391	74,123	1,826,105	16,936,705	14,680,431	41
-	529,962	4,096,701	19,654	12,939,211	10,255,744	42
22,025,033	25,627,802	54,091,141	23,702,152	89,463,310	83,687,065	49

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 .....	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	3,874,616
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	10,227,728
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 <sup>r</sup>	1962 <sup>r</sup>	
				Mcf.					
3,545,883 40,807,081	3,917,797 41,167,577	4,473,601 40,752,094					38,065,157 362,297,984	367,374,403	1a 1b
7,666,185 6,227,544	6,927,079 5,813,608	7,467,238 6,023,038					93,364,384 51,484,200	138,482,339	2a 2b
58,246,693	57,826,061	58,715,971					545,211,725	505,856,742	3
828,262 4,042	867,400 10,081	859,313 9,846					5,923,385 166,142	4,487,846 36,846	4 5
59,078,997	58,703,542	59,585,130					551,301,252	510,381,434	6
39,489	-	2,264					17,638,756	14,764,218	7
59,118,486	58,703,542	59,587,394					568,940,008	525,145,652	9
4,400,065 24,171,023	5,105,874 24,539,783	4,764,739 25,111,177					33,771,069 249,623,781	240,883,373	11 12 13
87,689,574	88,349,199	89,463,310					852,334,858	766,029,025	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					103,900,081 154,557,662 48,176,776	97,307,787 140,396,196 45,093,429	20 21 22
28,125,175	24,521,348	24,837,973					306,634,519	282,797,412	30
26,118,308 52,586	26,871,216 50,623	26,295,124 55,297					234,131,516 496,815	219,419,958 413,539	31 32
54,296,069	51,443,187	51,188,394					541,262,850	502,630,909	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					23,626,358 - 144,154 13,541,672 - 9,346,718	21,955,302 - 238,475 11,029,052 - 10,378,947	34 35 36 37
59,118,486	58,703,542	59,587,394					568,940,008	524,997,841	39
16,947,007 11,624,081	16,385,216 13,260,441	16,936,705 12,939,211					186,370,278 97,024,572	152,721,849 88,309,335	40 41 42
87,689,574	88,349,199	89,463,310					852,334,858	766,029,025	49



TABLE 3. Receipts and Disposition of Natural Gas by Source

August 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 .....	-	-	-	4,038,573	435,028	...	4,473,601
1b	Processing plants .....	-	-	-	34,940,549	5,811,545	...	40,752,094
2	By distribution systems:							
2a	Fields .....	7,133	664,512	394,411	6,396,259	4,923	...	7,467,238
2b	Processing plants .....	-	-	1,478,437	4,533,660	10,941	...	6,023,038
3	Total (1 + 2) .....	7,133	664,512	1,872,848	49,909,041	6,262,437	...	58,715,971
4	Imports .....	...	...	...	...	...	859,313	859,313
5	Other receipts .....	-	-	-	9,846	-	...	9,846
6	Total net receipts (3 + 4 + 5) .....	7,133	664,512	1,872,848	49,918,887	6,262,437	859,313	59,585,130
7	Received from storage .....	-	2,264	-	-	-	...	2,264
9	Total supply of gas utilities (6 + 7) .....	7,133	666,776	1,872,848	49,918,887	6,262,437	859,313	59,587,394
	<u>Disposition</u>							
	Sales:							
23	British Columbia .....	-	-	-	641,211	1,149,100	-	1,790,311
24	Alberta .....	-	-	-	9,305,706	-	1,461	9,307,167
25	Saskatchewan .....	-	-	1,639,167	715,916	-	-	2,355,083
26	Manitoba .....	-	-	289,487	489,903	-	-	779,390
27	Ontario .....	-	434,141	-	7,160,285	-	857,852	8,452,278
28	Quebec .....	-	-	-	2,148,942	-	-	2,148,942
29	New Brunswick .....	4,802	-	-	-	-	-	4,802
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	4,802	434,141	1,928,654	20,461,963	1,149,100	859,313	24,837,973
31	Exports .....	-	-	-	21,445,287	4,849,837	...	26,295,124
32	Other deliveries .....	-	-	-	55,297	-	...	55,297
33	Total net deliveries (30 + 31 + 32) .....	4,802	434,141	1,928,654	41,962,547	5,998,937	859,313	51,188,394
34	Delivered to storage .....	-	-	-	5,316,723	-	-	5,316,723
35	Line pack fluctuation .....	-	-	- 9,340	164,349	76,293	-	231,302
36	Gas used in system .....	-	59,983	22,488	1,378,300	71,142	-	1,531,913
37	Line losses and unaccounted for .....	2,331	172,652	- 68,954	1,096,968	116,065	-	1,319,062
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	7,133	666,776	1,872,848	49,918,887	6,262,437	859,313	59,587,394

TABLE 4. Operating Statistics: Natural Gas Utilities

August 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
August 1963:			
Daily average .....	1,394,575	801,224	1,822,745
Maximum(1) .....	1,666,130	...	...
Minimum(1) .....	1,130,725	...	...
Exports maximum(1) .....	949,276	...	949,276
August 1962: <sup>r</sup>			
Daily average .....	1,392,716	745,198	1,806,082
Maximum(1) .....	1,734,794	...	...
Minimum(1) .....	1,196,955	...	...
Year to date 1963:			
Daily average .....	1,730,460	1,261,870	2,324,646
Maximum(1) .....	2,627,885	...	...
Minimum(1) .....	1,130,725	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	45,102,053	..	..
Ton-miles (millions) .....	1,028	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	5,926,617	..	..
End of month (Mcf.) .....	6,166,508	..	..
Operating revenues .....	(\$15,191,019)	(\$12,796,692)	(\$20,904,435(2))

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

<sup>r</sup> Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

August 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	101,622	101,308
Deliveries to ultimate customers .....	119,514	79,438
Line pack fluctuations .....	5,298	27
Gas used in system .....	- 18,937	782
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	- 4,253	21,061
Total disposition .....	101,622	101,308
Daily average sendout .....	3,855	2,563
Revenues .....	(\$)69,497	(\$)101,172



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

August 1963

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	125,869	-
Ojibway, Ontario .....	-	857,852
Emerson, Manitoba .....	4,773,300	-
Coutts, Alberta .....	347	1,461
Aden, Alberta .....	775,220	-
Carway, Alberta .....	963,719	-
Kingsgate, British Columbia .....	12,454,754	-
Huntingdon, British Columbia .....	7,201,915	-
Canada .....	26,295,124	859,313