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GAS UTILITIES
(Transport and Distribution Systems)

JULY 1963

During July 1963 gas utilities received from field gathering systems and processing plants 57,826,061 Mcf. of natural gas. The transport systems accounted for 3,917,797 Mcf. from fields and 41,167,577 Mcf. from processing plants, while the distribution systems received 6,927,079 Mcf. and 5,813,608 Mcf. respectively. The total supply of gas utilities amounted to 58,703,542 Mcf. and was 3.3 per cent higher than in July 1962. Of the total supply, 24,521,348 Mcf. were sold to ultimate customers in Canada, an increase of 10.5 per cent, while exports amounted to 26,871,216 Mcf., a decrease of 2.1 per cent from July 1962. 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 16,385,216 Mcf. to distribution systems, an increase of 14.6 per cent over last year. For the twelve-month period ended July 1963 exports totalled 378,251,900 Mcf., while net deliveries amounted to 821,228,795 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 45.0 billion commodity (Mcf.) miles during July 1963 compared with 41.3 billion for the same period last year. Ton-miles totalled 1,026 million for July 1963. The daily average deliveries of gas utilities amounted to 1.9 million Mcf.

Alberta natural gas utility receipts totalled 49.7 billion cubic feet; of this 18.4 per cent was sold to ultimate customers in Alberta, 13.9 per cent in Ontario, 4.2 per cent in Quebec, 1.7 per cent in Saskatchewan, 1.2 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 \$21,298,187 and for manufactured and liquefied petroleum gases systems \$163,154, giving a combined Gas Utilities total of \$21,461,341.

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

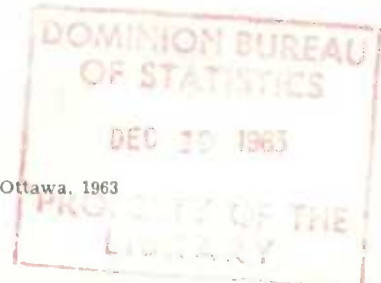


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

July 1963

No.	New Brunswick	Quebec	Ontario
		Mcf.	
	<u>Receipts</u>		
1	By transport systems:		
1a	-	-	-
1b	-	-	-
2	By distribution systems:		
2a	7,082	-	662,904
2b	-	-	-
3	7,082	-	662,904
4	-	-	865,944
5	-	-	-
6	7,082	-	1,528,848
7	-	-	-
9	7,082	-	1,528,848
	Transfers from:		
11	-	2,182,463	15,191,051
12	-	-	3,343,331
13	-	2,182,463	15,719,603
19	7,082	4,364,926	35,782,836
	<u>Disposition</u>		
	Sales:		
20	4,003	186,582	1,406,135
21	-	1,831,375	6,326,419
22	1,210	86,862	588,442
30	5,213	2,104,819	8,320,996
31	-	-	116,790
32	-	-	-
33	5,213	2,104,819	8,437,786
34	-	-	5,869,730
35	-	- 200	- 65,959
36	-	19,830	573,049
37	1,869	58,014	- 277,170
39	7,082	2,182,463	14,537,436
	Transfers to:		
40	-	-	2,182,463
41	-	2,182,463	10,510,994
42	-	-	8,551,941
49	7,082	4,364,926	35,782,836

F Revised figures.

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
	<u>Transfers from:</u>					
11	Other provinces .....	...	...	...	...	...
12	Distribution by 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>					
	<u>Sales:</u>					
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
	<u>Transfers to:</u>					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary)	34,377,018	29,710,223	27,422,291	22,906,425	21,685,593
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 ^F	1962 ^F	
				Mcf.					
3,545,883 40,807,081	3,917,797 41,167,577						33,591,556 321,545,890	) 323,454,408	1a 1b
7,666,185 6,227,544	6,927,079 5,813,608						85,897,146 45,461,162	) 124,781,197	2a 2b
58,246,693	57,826,061						486,495,754	448,235,605	3
828,262 4,042	867,400 10,081						5,064,072 156,296	3,544,097 36,846	4 5
59,078,997	58,703,542						491,716,122	451,816,548	6
39,489	-						17,636,492	14,542,745	7
59,118,486	58,703,542						509,352,614	466,359,293	9
4,400,065 24,171,023	5,105,874 24,539,783						29,006,330 224,512,604	) 215,982,667	11 12 13
87,689,574	88,349,199						762,871,548	682,341,960	19
5,602,252 19,736,318 2,786,605	3,477,050 19,157,302 1,886,996						100,864,725 134,625,044 46,306,777	94,304,165 122,142,274 43,249,810	20 21 22
28,125,175	24,521,348						281,796,546	259,696,249	30
26,118,308 52,586	26,871,216 50,623						207,836,392 441,518	190,926,181 367,947	31 32
54,296,069	51,443,187						490,074,456	450,990,377	33
5,491,294 - 159,822 1,475,841 - 1,984,896	6,290,164 - 266,566 1,521,333 - 284,576						18,309,635 - 375,456 12,009,759 - 10,665,780	17,607,284 - 508,870 9,828,522 - 11,670,362	34 35 36 37
59,118,486	58,703,542						509,352,614	466,246,951	39
16,947,007 11,624,081	16,385,216 13,260,441						169,433,573 84,085,361	138,041,418 78,053,591	40 41 42
87,689,574	88,349,199						762,871,548	682,341,960	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

July 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	-	-	-	3,739,358	178,439	...	3,917,797
1b	Processing plants	-	-	-	35,541,240	5,626,337	...	41,167,577
2	By distribution systems:							
2a	Fields	7,082	662,904	398,941	5,853,208	4,944	...	6,927,079
2b	Processing plants	-	-	1,283,588	4,519,577	10,443	...	5,813,608
3	Total (1 + 2)	7,082	662,904	1,682,529	49,653,383	5,820,163	...	57,826,061
4	Imports .....	...	...	...	...	...	867,400	867,400
5	Other receipts	-	-	-	10,081	-	...	10,081
6	Total net receipts (3 + 4 + 5)	7,082	662,904	1,682,529	49,663,464	5,820,163	867,400	58,703,542
7	Received from storage	-	-	-	-	-	...	-
9	Total supply of gas utilities (6 + 7)	7,082	662,904	1,682,529	49,663,464	5,820,163	867,400	58,703,542
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	586,347	1,176,762	-	1,763,109
24	Alberta	-	-	-	9,149,941	-	1,456	9,151,397
25	Saskatchewan	-	-	1,533,735	843,476	-	-	2,377,211
26	Manitoba	-	-	225,172	573,431	-	-	798,603
27	Ontario	-	538,761	-	6,916,291	-	865,944	8,320,996
28	Quebec	-	-	-	2,104,819	-	-	2,104,819
29	New Brunswick	5,213	-	-	-	-	-	5,213
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,213	538,761	1,758,907	20,174,305	1,176,762	867,400	24,521,348
31	Exports	-	-	-	22,232,989	4,638,227	...	26,871,216
32	Other deliveries	-	-	-	50,623	-	...	50,623
33	Total net deliveries (30 + 31 + 32)	5,213	538,761	1,758,907	42,457,917	5,814,989	867,400	51,443,187
34	Delivered to storage	-	-	144,695	6,145,469	-	-	6,290,164
35	Line pack fluctuation	-	-	- 19,200	- 119,863	- 127,503	-	- 266,566
36	Gas used in system	-	62,186	18,841	1,391,449	48,857	-	1,521,333
37	Line losses and unaccounted for	1,869	61,957	- 220,714	- 211,508	83,820	-	- 204,875
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,082	662,904	1,682,529	49,663,464	5,820,163	867,400	58,703,542

TABLE 4. Operating Statistics: Natural Gas Utilities

July 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
July 1963:			
Daily average	1,395,368	791,011	1,862,366
Maximum(1)	1,680,994	...	...
Minimum(1)	1,171,709	...	...
Exports maximum(1)	996,969	...	996,969
July 1962 ^F :			
Daily average	1,346,662	715,550	1,777,898
Maximum(1)	1,675,004	...	...
Minimum(1)	1,257,536	...	...
Year to date 1963:			
Daily average	1,779,575	1,329,228	2,398,038
Maximum(1)	2,627,885	...	...
Minimum(1)	1,134,536	...	...
Commodity miles:			
Mcf. miles (thousands)	45,005,815	..	..
Ton-miles (millions)	1,026	..	..
Line pack:			
Beginning of month (Mcf.)	6,177,485	..	..
End of month (Mcf.)	5,926,617	..	..
Operating revenues	(\$15,082,242	(\$13,043,669	(\$21,298,187(2)

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

^F Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

July 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	74,011	95,567
Deliveries to ultimate customers	92,136	80,881
Line pack fluctuations	- 1,311	41
Gas used in system	- 13,463	784
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 3,351	13,861
Total disposition	74,011	95,567
Daily average sendout	2,972	2,609
Revenues	(\$58,901	(\$104,253



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

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	116,790	-
Ojibway, Ontario	-	865,944
Emerson, Manitoba	4,774,918	-
Coutts, Alberta	154	1,456
Aden, Alberta	1,075,857	-
Carway, Alberta	971,190	-
Kingsgate, British Columbia	12,990,948	-
Huntingdon, British Columbia	6,941,359	-
Canada	26,871,216	867,400