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## GAS UTILITIES

(Transport and Distribution Systems)

JUNE 1963

In June 1963 natural gas utility receipts from field gathering systems and processing plants totalled 58,246,693 Mcf. The transport systems accounted for 3,545,883 Mcf. from fields and 40,807,081 Mcf. from processing plants, while the distribution systems received 7,666,185 Mcf. and 6,227,544 Mcf. respectively; natural gas received from storage was 39,489 Mcf. The total supply of gas utilities totalled 59,118,486 Mcf. and was 6.3 per cent higher than in June 1962. Of the total supply, 28,125,175 Mcf. were sold to ultimate customers in Canada, an increase of 12.5 per cent, and 26,118,308 Mcf. were exported, a decrease of less than one 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 small deliveries to storage. Transport systems delivered 16,947,007 Mcf. to distribution systems, an increase of 15.6 per cent over last year. For the twelve-month period ended June 1963 exports totalled 378,830,017 Mcf., while net deliveries amounted to 819,481,748 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 43.9 billion commodity (Mcf.) miles during June 1963 compared with 40.2 billion for the same period in 1962. Ton-miles totalled 1,000 million for June 1963. The daily average deliveries of gas utilities amounted to 2.0 million Mcf.

Alberta natural gas utility receipts totalled 48.2 billion cubic feet; of this 20.8 per cent was sold to ultimate customers in Alberta, 17.4 per cent in Ontario, 4.6 per cent in Quebec, 2.2 per cent in Saskatchewan, 1.8 per cent in Manitoba and 0.8 per cent in British Columbia. 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 \$23,751,359 and for manufactured and liquefied petroleum gases systems \$168,928, giving a combined Gas Utilities total of \$23,920,287.

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

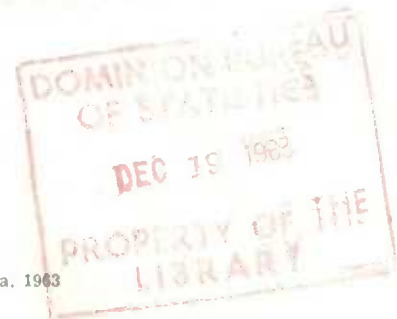


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

June 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 .....	7,629	-	767,021
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	7,629	-	767,021
4	Imports .....	-	-	825,815
5	Other receipts .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	7,629	-	1,592,836
7	Received from storage .....	-	-	26,171
9	Total supply of gas utilities (6 + 7) .....	7,629	-	1,619,007
	Transfers from:			
11	Other provinces .....	-	2,256,591	14,838,430
12	Distribution to transport (primary) .....	-	-	2,633,139
13	Other gas utilities .....	-	2,256,591	15,680,278
19	Total gross receipts (9 + 11 + 12 + 13) ...	7,629	4,513,182	34,771,174
	<u>Disposition</u>			
	Sales:			
20	Residential .....	4,950	282,403	2,390,985
21	Industrial .....	-	1,824,948	6,746,432
22	Commercial .....	1,305	120,245	878,747
30	Total sales (20 + 21 + 22) .....	6,255	2,227,596	10,016,164
31	Exports .....	-	-	107,934
32	Other deliveries .....	-	-	-
33	Total net deliveries (30 + 31 + 32) .....	6,255	2,227,596	10,124,098
34	Delivered to storage .....	-	-	4,667,802
35	Line pack fluctuation .....	-	1,650	- 69,866
36	Gas used in system .....	-	30,059	544,891
37	Line losses and unaccounted for .....	1,374	- 2,714	- 1,065,859
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	7,629	2,256,591	14,201,066
	Transfers to:			
40	Other provinces .....	-	-	2,256,591
41	Distribution by transport (primary) .....	-	2,256,591	10,629,559
42	Other gas utilities .....	-	-	7,683,958
49	Total disposition (39 + 40 + 41 + 42) .....	7,629	4,513,182	34,771,174

† Revised figures.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province  
June 1963

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	June <sup>r</sup> 1962	No.
					Canada	
			Mcf.			
-	-	3,365,414	180,469	3,545,883	) 41,725,735	1a
-	-	33,725,847	7,081,234	40,807,081		1b
-	373,544	6,515,552	2,439	7,666,185	) 13,008,796	2a
-	1,627,256	4,587,358	12,930	6,227,544		2b
-	2,000,800	48,194,171	7,277,072	58,246,693	54,734,531	3
-	-	2,447	-	828,262	822,340	4
536	-	3,506	-	4,042	-	5
536	2,000,800	48,200,124	7,277,072	59,078,997	55,556,871	6
-	-	13,318	-	39,489	47,752	7
536	2,000,800	48,213,442	7,277,072	59,118,486	55,604,623	9
20,538,524	21,824,885	-	14,302,515	...	...	11
-	491,029	1,275,897	-	4,400,065	) 25,793,587	12
845,442	1,274,091	2,221,537	1,892,984	24,171,023		13
21,384,502	25,590,805	51,710,876	23,472,571	87,689,574	81,398,210	19
301,007	632,369	1,503,821	486,717	5,602,252	4,783,564	20
598,122	1,900,636	7,442,113	1,224,067	19,736,318	17,694,617	21
224,244	283,132	1,085,729	193,203	2,786,605	2,513,828	22
1,123,373	2,816,137	10,031,663	1,903,987	28,125,175	24,992,009	30
4,594,468	-	1,910,066	19,505,840	26,118,308	26,503,124	31
-	-	52,586	-	52,586	40,517	32
5,717,841	2,816,137	11,994,315	21,409,827	54,296,069	51,535,650	33
-	547,464	276,028	-	5,491,294	4,498,049	34
- 16,917	- 19,444	- 15,015	- 40,230	- 159,822	- 383,192	35
235,018	494,152	54,554	117,167	1,475,841	1,147,296	36
- 235,532	- 551,148	- 223,840	92,823	- 1,984,896	- 1,129,149	37
5,700,410	3,287,161	12,086,042	21,579,587	59,118,486	55,668,654	39
14,838,650	20,538,524	36,127,400	-	...	...	40
845,442	1,274,091	69,281	1,872,043	16,947,007	14,662,683	41
-	491,029	3,428,153	20,941	11,624,081	11,066,873	42
21,384,502	25,590,805	51,710,876	23,472,571	87,689,574	81,398,210	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	3,874,610
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	97,452,013
	<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	21,685,303
42	Other gas utilities .....	13,240,553	13,048,370	11,932,547	10,751,649	10,227,730
49	Total disposition (39 + 40 + 41 + 42) .....	143,033,102	122,601,859	120,371,975	103,373,824	97,452,013

\* 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>f</sup>	
				Mcf.					
3,545,883							29,673,759	) 280,012,028	1a
40,807,081							280,378,313		1b
7,666,185							78,970,067	) 112,407,051	2a
6,227,544							39,647,554		2b
58,246,693							428,669,693	392,419,079	3
828,262							4,196,672	2,600,118	4
4,042							146,215	36,846	5
59,078,997							433,012,580	395,056,043	6
39,489							17,636,492	14,464,995	7
59,118,486							450,649,072	409,521,038	9
...							...	...	11
4,480,065							23,900,456	) 190,438,250	12
24,171,023							199,972,821		13
87,689,574							674,522,349	599,959,288	19
5,602,252							97,387,675	91,074,311	20
19,736,318							115,467,742	104,949,967	21
2,786,605							44,419,781	41,489,918	22
28,125,175							257,275,198	237,514,196	30
26,118,308							180,965,176	163,476,848	31
52,586							390,895	303,193	32
54,296,069							438,631,269	401,294,237	33
5,491,294							12,019,471	12,188,562	34
- 159,822							- 108,890	- 493,962	35
1,475,841							10,488,426	8,583,975	36
- 1,984,896							- 10,381,204	- 12,196,081	37
59,118,486							450,649,072	409,376,731	39
...							...	...	40
16,947,007							153,048,357	123,744,209	41
11,624,081							70,824,920	66,838,348	42
87,689,574							674,522,349	599,959,288	49



TABLE 3. Receipts and Disposition of Natural Gas by Source

June 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 .....	-	-	-	3,365,414	180,469	...	3,545,883
1b	Processing plants .....	-	-	-	33,725,847	7,081,234	...	40,807,081
2	By distribution systems:							
2a	Fields .....	7,629	767,021	373,544	6,515,552	2,439	...	7,666,185
2b	Processing plants .....	-	-	1,627,256	4,587,358	12,930	...	6,227,544
3	Total (1 + 2) .....	7,629	767,021	2,000,800	48,194,171	7,277,072	...	58,246,693
4	Imports .....	...	...	...	...	...	828,262	828,262
5	Other receipts .....	-	-	-	4,042	-	...	4,042
6	Total net receipts (3 + 4 + 5) .....	7,629	767,021	2,000,800	48,198,213	7,277,072	828,262	59,078,997
7	Received from storage .....	-	26,171	-	13,318	-	...	39,489
9	Total supply of gas utilities (6 + 7) .....	7,629	793,192	2,000,800	48,211,531	7,277,072	828,262	59,118,486
	<u>Disposition</u>							
	Sales:							
23	British Columbia .....	-	-	-	398,082	1,505,905	-	1,903,987
24	Alberta .....	-	-	-	10,029,216	-	2,447	10,031,663
25	Saskatchewan .....	-	-	1,776,363	1,039,774	-	-	2,816,137
26	Manitoba .....	-	-	256,712	866,661	-	-	1,123,373
27	Ontario .....	-	802,122	-	8,388,227	-	825,815	10,016,164
28	Quebec .....	-	-	-	2,227,596	-	-	2,227,596
29	New Brunswick .....	6,255	-	-	-	-	-	6,255
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,255	802,122	2,033,075	22,949,556	1,505,905	828,262	28,125,175
31	Exports .....	-	-	-	20,392,221	5,726,087	...	26,118,308
32	Other deliveries .....	-	-	-	52,586	-	...	52,586
33	Total net deliveries (30 + 31 + 32) .....	6,255	802,122	2,033,075	43,394,363	7,231,992	828,262	54,296,069
34	Delivered to storage .....	-	-	547,464	4,943,830	-	-	5,491,294
35	Line pack fluctuation .....	-	-	3,112	- 128,334	- 34,600	-	- 159,822
36	Gas used in system .....	-	44,980	24,114	1,341,080	65,667	-	1,475,841
37	Line losses and unaccounted for .....	1,374	- 53,910	- 606,965	- 1,339,408	14,013	-	- 1,984,896
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	7,629	793,192	2,000,800	48,211,531	7,277,072	828,262	59,118,486

TABLE 4. Operating Statistics: Natural Gas Utilities

June 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
<b>June 1963:</b>			
Daily average .....	1,435,511	937,506	1,992,912
Maximum(1) .....	1,762,660	...	...
Minimum(1) .....	1,134,536	...	...
Exports maximum(1) .....	992,303	...	992,303
<b>June 1962<sup>r</sup>:</b>			
Daily average .....	1,372,194	833,067	1,867,790
Maximum(1) .....	1,689,411	...	...
Minimum(1) .....	1,314,261	...	...
<b>Year to date 1963:</b>			
Daily average .....	1,845,379	1,421,410	2,489,783
Maximum(1) .....	2,627,885	...	...
Minimum(1) .....	1,134,536	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	43,857,456	..	..
Ton-miles (millions) .....	1,000	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	6,334,233	..	..
End of month (Mcf.) .....	6,177,485	..	..
Operating revenues .....	(\$14,930,074	(\$15,729,164	(\$23,751,359(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

June 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	83,557	97,602
Deliveries to ultimate customers .....	100,022	84,883
Line pack fluctuations .....	2,900	471
Gas used in system .....	- 20,978	38
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	1,613	12,210
Total disposition .....	83,557	97,602
Daily average sendout .....	3,334	2,829
Revenues .....	(\$63,195	(\$105,733



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

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	107,934	-
Ojibway, Ontario .....	-	825,815
Emerson, Manitoba .....	4,594,468	-
Coutts, Alberta .....	146	2,447
Aden, Alberta .....	969,794	-
Carway, Alberta .....	940,126	-
Kingsgate, British Columbia .....	12,586,851	-
Huntingdon, British Columbia .....	6,918,989	-
Canada .....	26,118,308	828,262