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GAS UTILITIES (Transport and Distribution Systems)

FEBRUARY 1963

In February 1963 the gas utilities received from field gathering systems and processing plants 74,149,733 Mcf. of natural gas. The transport systems accounted for 5,665,269 Mcf. from fields and 45,922,308 Mcf. from processing plants, while the distribution systems received 15,790,009 Mcf and 6,772,147 Mcf. respectively; natural gas received from storage was 5,486,862 Mcf. The total supply of gas utilities, 79,843,266 Mcf. was 7.6 per cent higher than in February 1962. Of the total supply, 52,290,843 Mcf. were sold to ultimate customers in Canada, an increase of 11.5 per cent, while exports amounted to 29,721,885 Mcf., an increase of 9.2 per cent. 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 29,710,223 Mcf. to distribution systems, an increase of 26.0 per cent over last year. For the twelve-month period ended February 1963 exports totalled 370,557,376^r Mcf., while net deliveries amounted to 800,260,910^r Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 46.3 billion commodity (Mcf.) miles during February compared with 39.7 billion for the same period last year. Ton miles totalled 1,055 million for February 1963. The daily average deliveries of gas utilities amounted to 2.9 million Mcf./day.

Utility receipts of Alberta natural gas totalled 59.5 billion cubic feet; of this, 29.5 per cent was sold to ultimate customers in Alberta, 20.1 per cent in Ontario, 4.6 per cent in Manitoba, 3.4 per cent in Saskatchewan, 1.4 per cent in British Columbia and 3.4 per cent in Quebec. Deliveries of gas to storage in Table 3 are considered as terminated and receipts of natural gas from storage for any province are considered as originated.

Revenue for the natural gas utilities for the month was \$45,558,678 and for manufactured and liquefied petroleum gases systems \$231,543 giving a combined Gas Utilities total of \$45,790,221.

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 1-2 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".

^r Revised figures.

November 1963
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Industry Division

ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa, 1963

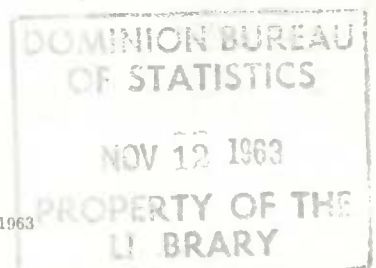


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

February 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	13,897	-	2,839,037
2b	Processing plants	-	-	-
3	Total (1 + 2)	13,897	-	2,839,037
4	Imports	-	-	157,694
5	Other receipts	-	-	-
6	Total net receipts (3 + 4 + 5)	13,897	-	2,996,731
7	Received from storage	-	-	5,300,619
9	Total supply of gas utilities (6 + 7)	13,897	-	8,297,350
	Transfers from:			
11	Other provinces	-	2,175,841	14,340,550
12	Distribution to transport (primary)	-	-	1,936,214
13	Other gas utilities	-	2,175,841	24,195,334
19	Total gross receipts (9 + 11 + 12 + 13) ...	13,897	4,351,682	48,769,448
	<u>Disposition</u>			
	Sales:			
20	Residential	7,047	1,044,500	10,897,014
21	Industrial	-	752,398	6,100,399
22	Commercial	1,800	256,523	3,448,310
30	Total sales (20 + 21 + 22)	8,847	2,053,421	20,445,723
31	Exports	-	-	129,997
32	Other deliveries	-	-	1,346
33	Total net deliveries (30 + 31 + 32)	8,847	2,053,421	20,577,066
34	Delivered to storage	-	-	289,663
35	Line pack fluctuation	-	550	- 74,083
36	Gas used in system	-	39,632	667,042
37	Line losses and unaccounted for	5,050	82,238	- 997,629
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	13,897	2,175,841	20,462,059
	Transfers to:			
40	Other provinces	-	-	2,175,841
41	Distribution by transport (primary)	-	2,175,841	18,781,059
42	Other gas utilities	-	-	7,350,489
49	Total disposition (39 + 40 + 41 + 42)	13,897	4,351,682	48,769,448

† 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			
1b	Processing plants	53,448,663	45,922,308			
2	By distribution systems:					
2a	Fields	20,099,614	15,790,009			
2b	Processing plants	6,544,092	6,772,147			
3	Total (1 + 2)	86,582,871	74,149,733			
4	Imports	213,784	166,149			
5	Other receipts	82,482	40,522			
6	Total net receipts (3 + 4 + 5)	86,879,137	74,356,404			
7	Received from storage	8,536,394	5,486,862			
9	Total supply of gas utilities (6 + 7)	95,415,531	79,843,266			
	Transfers from:					
11	Other provinces .....	...	...	
12	Distribution to transport (primary)	4,275,301	4,737,209			
13	Other gas utilities	43,342,270	38,021,384			
19	Total gross receipts (9 + 11 + 12 + 13) ..	143,033,102	122,601,859			
	<u>Disposition</u>					
	Sales:					
20	Residential	24,487,687	24,217,941			
21	Industrial	18,626,804	17,246,726			
22	Commercial	10,897,541	10,826,176			
30	Total sales (20 + 21 + 22)	54,012,032	52,290,843			
31	Exports	34,608,544	29,721,885			
32	Other deliveries	88,879	65,370			
33	Total net deliveries (30 + 31 + 32)	88,709,455	82,078,098			
34	Delivered to storage	607,009	363,974			
35	Line pack fluctuation	168,468	- 110,881			
36	Gas used in system	2,125,732	1,883,954			
37	Line losses and unaccounted for	3,804,867	- 4,371,879			
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531	79,843,266			
	Transfers to:					
40	Other provinces .....	...	...	
41	Distribution by transport (primary)	34,377,018	29,710,223			
42	Other gas utilities	13,240,553	13,048,370			
49	Total disposition (39 + 40 + 41 + 42)	143,033,102	122,601,859			

* 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.					
							12,155,771 99,370,971	) 99,266,214	1a 1b
							35,889,623 13,316,239	) 44,761,908	2a 2b
							160,732,604	144,028,122	3
							379,933 123,004	22,254 32,438	4 5
							161,235,541	144,082,814	6
							14,023,256	11,101,766	7
							175,258,797	155,184,580	9
							11
							9,012,510 81,363,654	) 74,034,359	12 13
							265,634,961	229,218,939	19
							48,705,628 35,873,530 21,723,717	44,499,826 33,141,583 19,748,143	20 21 22
							106,302,875	97,389,552	30
							64,330,429 154,249	55,114,742 167,065	31 32
							170,787,553	152,671,359	33
							970,983 57,587 4,009,686 - 567,012	642,908 - 118,852 3,182,272 - 1,237,699	34 35 36 37
							175,258,797	155,139,988	39
							40
							64,087,241 26,288,923	50,189,668 23,889,283	41 42
							265,634,961	229,218,939	49

TABLE 4. Operating Statistics: Natural Gas Utilities

February 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
February 1963:			
Daily average	2,122,575	1,867,530	2,944,360
Maximum(1)	2,487,531	...	...
Minimum(1)	1,915,081	...	...
Exports maximum(1)	1,140,696	...	1,140,696
February 1962^r:			
Daily average	1,814,472	1,674,852	2,667,517
Maximum(1)	2,226,408	...	...
Minimum(1)	1,679,528	...	...
Year to date 1963:			
Daily average	2,176,570	1,801,743	2,911,186
Maximum(1)	2,627,885	...	...
Minimum(1)	1,915,081	...	...
Commodity miles:			
Mcf. miles (thousands)	46,260,341	..	..
Ton miles (millions)	1,055	..	..
Line pack:			
Beginning of month (Mcf.)	6,418,040	..	..
End of month (Mcf.)	6,314,691	..	..
Operating revenues	(\$18,520,540	(\$36,604,253	(\$45,558,678(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

February 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	137,091	159,699
Deliveries to ultimate customers	167,380	137,439
Line pack fluctuations	113	5,984
Gas used in system	- 32,901	-
Metering difference, line losses, cyclical billing adjustments and unaccounted for	2,499	16,276
Total disposition	137,091	159,699
Daily average sendout	5,978	4,909
Revenues	(\$115,299	(\$116,244



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

Customs port	Exports ^r	Imports
	Mcf.	
Cornwall, Ontario	129,997	-
Ojibway, Ontario	-	157,694
Emerson, Manitoba	5,703,153	-
Coutts, Alberta	296	8,455
Aden, Alberta	1,712,237	-
Carway, Alberta	787,648	-
Kingsgate, British Columbia	13,047,847	-
Huntingdon, British Columbia	8,340,707	-
Canada	29,721,885	166,149

^r Revised figures from Catalogue 45-005 "Sales of Manufactured and Natural Gas".