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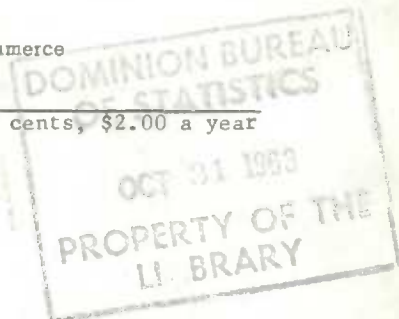
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GAS UTILITIES (Transport and Distribution Systems)

JANUARY 1963



Gas Utilities for January 1963 received from field gathering systems and processing plants 86,582,871 Mcf. of natural gas. The transport systems accounted for 6,490,502 Mcf. from fields and 53,448,663 Mcf. from processing plants, while the distribution systems received 20,099,614 Mcf. and 6,544,092 Mcf. respectively; natural gas received from storage was 8,536,394 Mcf. The total supply of gas utilities, 95,415,531 Mcf. was 17.8 per cent higher than in January 1962. Of the total supply, 54,012,032 Mcf. were sold to ultimate customers in Canada, an increase of 7.0 per cent, while exports amounted to 34,608,544 Mcf., an increase of 17.5 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 34,377,018 Mcf. to distribution systems, an increase of 29.2 per cent over last year. For the twelve-month period ended January 1963 exports totalled 366,489,014 Mcf., while net deliveries amounted to 790,543,478 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 51.9 billion commodity (Mcf.) miles during January compared with 44.4 billion for the same period last year. Ton miles totalled 1,183 million for January 1963. The daily average deliveries of gas utilities amounted to 2.9 million Mcf./day.

Revenue for the natural gas utilities for the month was \$46,629,460 and for manufactured and liquefied petroleum gases systems \$279,951 giving a combined Gas Utilities total of \$46,909,411.

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".

A new table - "Receipts and Disposition of Natural Gas by Source" is designed to give data on the movement of the individual provincial natural gas "streams". Of the utilities receipts of Alberta natural gas, 70.7 billion cubic feet, 26.6 per cent was sold to ultimate customers in Alberta, 14.7 per cent in Ontario, 4.1 per cent in Manitoba, 3.4 per cent in Saskatchewan, 1.7 per cent in British Columbia and 3.2 per cent in Quebec. Deliveries of gas to storage in this table are considered as terminated, and receipts of natural gas from storage for any province are considered as originated.

Industry Division

October 1963
8506-503

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

January 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	12,164	-	2,003,339
2b	Processing plants	-	-	-
3	Total (1 + 2)	12,164	-	2,003,339
4	Imports	-	-	199,475
5	Other receipts	-	-	-
6	Total net receipts (3 + 4 + 5)	12,164	-	2,202,814
7	Received from storage	-	-	7,741,286
9	Total supply of gas utilities (6 + 7)	12,164	-	9,944,100
	Transfers from:			
11	Other provinces	-	2,388,725	15,316,937
12	Distribution to transport (primary)	-	-	1,201,699
13	Other gas utilities	-	2,388,725	26,095,293
19	Total gross receipts (9 + 11 + 12 + 13) ...	12,164	4,777,450	52,558,029
	<u>Disposition</u>			
	Sales:			
20	Residential	6,902	1,069,076	10,645,499
21	Industrial	-	936,969	6,219,791
22	Commercial	2,000	257,692	3,312,482
30	Total sales (20 + 21 + 22)	8,902	2,263,737	20,177,772
31	Exports	-	-	171,432
32	Other deliveries	-	-	1,506
33	Total net deliveries (30 + 31 + 32)	8,902	2,263,737	20,350,710
34	Delivered to storage	-	-	566,275
35	Line pack fluctuation	-	1,450	79,444
36	Gas used in system	-	58,789	711,342
37	Line losses and unaccounted for	3,262	64,749	1,164,541
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,164	2,388,725	22,872,312
	Transfers to:			
40	Other provinces	-	-	2,388,725
41	Distribution by transport (primary)	-	2,388,725	20,603,551
42	Other gas utilities	-	-	6,693,441
49	Total disposition (39 + 40 + 41 + 42)	12,164	4,777,450	52,558,029

† Revised figures.

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

January 1963

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	January ^r 1962		No.
					Canada		
Mcf.							
-	-	6,224,925	265,577	6,490,502	50,252,581	1a	
-	-	42,843,546	10,605,117	53,448,663		1b	
-	683,615	17,390,840	9,656	20,099,614	24,562,240	2a	
-	2,709,966	3,763,012	71,114	6,544,092		2b	
-	3,393,581	70,222,323	10,951,464	86,582,871	74,814,821	3	
-	-	14,309	-	213,784	12,132	4	
60,372	-	-	22,110	82,482	28,333	5	
60,372	3,393,581	70,236,632	10,973,574	86,879,137	74,855,286	6	
-	391,445	403,663	-	8,536,394	6,144,169	7	
60,372	3,785,026	70,640,295	10,973,574	95,415,531	80,999,455	9	
25,365,694	27,997,820	-	19,452,690	...	...	11
-	732,947	2,340,655	-	4,275,301	39,683,200	12	
3,385,736	2,709,373	3,849,989	4,913,154	43,342,270		13	
28,811,802	35,225,166	76,830,939	35,339,418	143,033,102	120,682,655	19	
1,811,822	2,237,505	6,463,730	2,253,153	24,487,687	22,950,587	20	
416,138	1,627,040	7,808,339	1,618,527	18,626,804	17,363,882	21	
1,129,044	1,007,041	4,503,508	685,774	10,897,541	10,179,220	22	
3,357,004	4,871,586	18,775,577	4,557,454	54,012,032	50,493,689	30	
6,322,187	-	2,917,952	25,196,973	34,608,544	27,895,305	31	
-	-	87,373	-	88,879	132,836	32	
9,679,191	4,871,586	21,780,902	29,754,427	88,709,455	78,521,830	33	
-	30,507	10,227	-	607,009	101,962	34	
15,094	32,847	120,142	- 80,509	168,468	57,804	35	
301,882	666,672	92,522	294,525	2,125,732	1,634,577	36	
112,962	815,540	1,185,992	457,821	3,804,867	638,383	37	
10,109,129	6,417,152	23,189,785	30,426,264	95,415,531	80,954,556	39	
15,316,937	25,365,694	47,450,510	-	...	...	40
3,385,736	2,709,373	528,100	4,761,533	34,377,018	26,603,866	41	
-	732,947	5,662,544	151,621	13,240,553	13,124,233	42	
28,811,802	35,225,166	76,830,939	35,339,418	143,033,102	120,682,655	49	

TABLE 7. 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				
1b	Processing plants	53,448,663				
2	By distribution systems:					
2a	Fields	20,099,614				
2b	Processing plants	6,544,092				
3	Total (1 + 2)	86,582,871				
4	Imports	213,784				
5	Other receipts	82,482				
6	Total net receipts (3 + 4 + 5)	86,879,137				
7	Received from storage	8,536,394				
9	Total supply of gas utilities (6 + 7)	95,415,531				
	Transfers from:					
11	Other provinces .....	...			
12	Distribution to transport (primary)	4,275,301				
13	Other gas utilities	43,342,270				
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,033,102				
	<u>Disposition</u>					
	Sales:					
20	Residential	24,487,687				
21	Industrial	18,626,804				
22	Commercial	10,897,541				
30	Total sales (20 + 21 + 22)	54,012,032				
31	Exports	34,608,544				
32	Other deliveries	88,879				
33	Total net deliveries (30 + 31 + 32)	88,709,455				
34	Delivered to storage	607,009				
35	Line pack fluctuation	168,468				
36	Gas used in system	2,125,732				
37	Line losses and unaccounted for	3,804,867				
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531				
	Transfers to:					
40	Other provinces .....	...			
41	Distribution by transport (primary)	34,377,018				
42	Other gas utilities	13,240,553				
49	Total disposition (39 + 40 + 41 + 42)	143,033,102				

† Revised figures.

TABLE 1. Receipts and Disposition of Natural Gas Utilized by Month, Canada, 1963

June	July	August	September	October	November	December	Year to date		No.
							1963	1962 ^r	
				Mcf.					
								) 50,252,581	1a 1b
								) 24,562,240	2a 2b
								74,814,821	3
								12,132	4
								28,333	5
								74,855,286	6
								6,144,169	7
								80,999,455	9
								...	11
								) 39,683,200	12 13
								120,682,655	19
								22,950,587	20
								17,363,882	21
								10,179,220	22
								50,493,689	30
								27,895,305	31
								132,836	32
								78,521,830	33
								101,962	34
								57,804	35
								1,634,577	36
								638,383	37
								80,954,556	39
								...	40
								26,603,866	41
								13,124,233	42
								120,682,655	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

January 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	-	-	-	6,224,925	265,577	-	6,490,502
1b	Processing plants	-	-	-	42,843,546	10,605,117	-	53,448,663
2	By distribution systems:							
2a	Fields	12,164	2,003,339	683,615	17,390,840	9,656	-	20,099,614
2b	Processing plants	-	-	2,709,966	3,763,012	71,114	-	6,544,092
3	Total (1 + 2)	12,164	2,003,339	3,393,581	70,222,323	10,951,464	-	86,582,871
4	Imports	-	-	-	-	-	213,784	213,784
5	Other receipts	-	-	-	60,372	22,110	-	82,482
6	Total net receipts (3 + 4 + 5)	12,164	2,003,339	3,393,581	70,282,695	10,973,574	213,784	86,879,137
7	Received from storage	-	7,741,286	391,445	403,663	-	-	8,536,394
9	Total supply of gas utilities (6 + 7)	12,164	9,744,625	3,785,026	70,686,358	10,973,574	213,784	95,415,531
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	1,170,486	3,386,968	-	4,557,454
24	Alberta	-	-	-	18,761,268	-	14,309	18,775,577
25	Saskatchewan	-	-	2,458,335	2,413,251	-	-	4,871,586
26	Manitoba	-	-	436,825	2,920,179	-	-	3,357,004
27	Ontario	-	9,606,816	-	10,371,481	-	199,475	20,177,772
28	Quebec	-	-	-	2,263,737	-	-	2,263,737
29	New Brunswick	8,902	-	-	-	-	-	8,902
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	8,902	9,606,816	2,895,160	37,900,402	3,386,968	213,784	54,012,032
31	Exports	-	-	-	27,432,922	7,175,622	-	34,608,544
32	Other deliveries	-	-	-	88,879	-	-	88,879
33	Total net deliveries (30 + 31 + 32)	8,902	9,606,816	2,895,160	65,422,203	10,562,590	213,784	88,709,455
34	Delivered to storage	-	-	30,507	577,952	-	-	608,459
35	Line pack fluctuation	-	-	12,722	257,858	- 103,562	-	167,018
36	Gas used in system	-	45,081	62,908	1,811,053	206,690	-	2,125,732
37	Line losses and unaccounted for	3,262	92,728	783,729	2,617,292	307,856	-	3,804,867
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,164	9,744,625	3,785,026	70,686,358	10,973,574	213,784	95,415,531

TABLE 4. Operating Statistics: Natural Gas Utilities

January 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
January 1963:			
Daily average	2,225,341	1,742,324	2,881,223
Maximum(2)	2,627,885	...	...
Minimum(2)	1,945,291	...	...
Exports maximum(2)	1,190,562	...	1,190,562
January 1962: ^F			
Daily average	1,758,038	1,628,828	2,536,251
Maximum(2)	2,197,284	...	...
Minimum(2)	1,674,343	...	...
Year to date 1963:			
Daily average	2,225,341	1,742,324	2,881,223
Maximum(2)	2,627,885	...	...
Minimum(2)	1,945,291	...	...
Commodity miles:			
Mcf. miles (thousands)	51,873,694	..	..
Ton miles (millions)	1,183	..	..
Line pack:(3)			
Beginning of month (Mcf.)	6,324,031	..	..
End of month (Mcf.)	6,418,040	..	..
Operating revenues	(\$)20,421,019	(\$)37,429,300	(\$)46,629,460(1)

(1) Interindustry revenues eliminated.

(2) Non-coincident.

(3) Does not balance with line pack changes due to B.T.U. adjustments.

.. Figures not available.

... Figures not appropriate or not applicable.

^F Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

January 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	141,368	222,452
Deliveries to ultimate customers	169,326	206,910
Line pack fluctuations	- 521	3,049
Gas used in system	- 40,325	-
Metering difference, line losses, cyclical billing adjustments and unaccounted for	12,888	12,493
Total disposition	141,368	222,452
Daily average sendout	5,462	6,675
Revenues	(\$)117,947	(\$)162,004



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

Customs port	Exports ^F	Imports
	Mcf.	
Cornwall, Ontario	116,809	-
Ojibway, Ontario	54,623	199,475
Emerson, Manitoba	6,322,187	-
Coutts, Alberta	150	14,309
Aden, Alberta	1,948,038	-
Carway, Alberta	969,764	-
Kingsgate, British Columbia	15,865,974	-
Huntingdon, British Columbia	9,330,999	-
Canada	34,608,544	213,784

^F Revised figures from Catalogue No. 45-005 Sales of Manufactured and Natural Gás.