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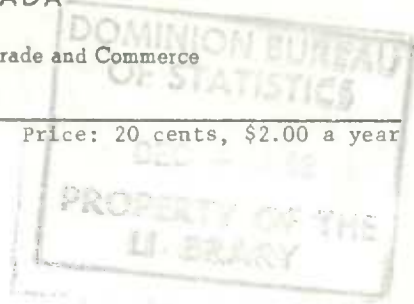
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GAS UTILITIES (Transport and Distribution Systems)

MAY 1963

During May 1963, gas utilities received from field gathering systems and processing plants 64,492,737 Mcf. of natural gas. The transport systems accounted for 3,969,236 Mcf. from fields and 44,410,120 Mcf. from processing plants, while the distribution systems received 9,779,643 Mcf. and 6,333,738 Mcf. respectively; natural gas received from storage was 152,844 Mcf. The total supply of gas utilities totalled 65,538,902 Mcf. and was 7.5 per cent higher than in May 1962. Of the total supply, 34,607,995 Mcf. were sold to ultimate customers in Canada, an increase of 13.6 per cent, while exports amounted to 28,532,280 Mcf., an increase of 4.8 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 21,685,393 Mcf. to distribution systems, an increase of 32.8 per cent over last year. For the twelve-month period ended May 1963 exports totalled 379,214,833 Mcf., while net deliveries amounted to 816,721,329 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 46.5 billion commodity (Mcf.) miles during May 1963 compared with 42.8 billion for the same period last year. Ton-miles totalled 1,059 million for May 1963. The daily average deliveries of gas utilities amounted to 2.1 million Mcf./day.

Alberta natural gas utility receipts totalled 53.0 billion cubic feet; of this 22.9 per cent was sold to ultimate customers in Alberta, 20.6 per cent in Ontario, 4.3 per cent in Quebec, 2.7 per cent in Manitoba, 2.7 per cent in Saskatchewan and 0.9 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 \$29,724,191 and for manufactured and liquefied petroleum gases systems \$207,450, giving a combined Gas Utilities total of \$29,931,641.

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

November 1963
8506-503

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

May 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	8,489	-	807,510
2b	Processing plants	-	-	-
3	Total (1 + 2)	8,489	-	807,510
4	Imports	-	-	871,833
5	Other receipts	-	-	-
6	Total net receipts (3 + 4 + 5)	8,489	-	1,679,343
7	Received from storage	-	-	152,115
9	Total supply of gas utilities (6 + 7)	8,489	-	1,831,458
	Transfers from:			
11	Other provinces	-	2,364,105	15,453,675
12	Distribution to transport (primary)	-	-	1,607,733
13	Other gas utilities	-	2,364,105	17,547,718
19	Total gross receipts (9 + 11 + 12 + 13) ...	8,489	4,728,210	36,440,577
	<u>Disposition</u>			
	Sales:			
20	Residential	5,607	393,260	4,178,445
21	Industrial	-	1,748,362	7,224,103
22	Commercial	1,700	112,374	1,362,540
30	Total sales (20 + 21 + 22)	7,307	2,253,996	12,765,088
31	Exports	-	-	114,126
32	Other deliveries	-	-	85
33	Total net deliveries (30 + 31 + 32)	7,307	2,253,996	12,879,299
34	Delivered to storage	-	-	2,557,191
35	Line pack fluctuation	-	1,600	22,557
36	Gas used in system	-	37,310	544,348
37	Line losses and unaccounted for	1,182	71,199	- 1,082,368
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,489	2,364,105	14,921,027
	Transfers to:			
40	Other provinces	-	-	2,364,105
41	Distribution by transport (primary)	-	2,364,105	13,811,874
42	Other gas utilities	-	-	5,363,571
49	Total disposition (39 + 40 + 41 + 42)	8,489	4,728,210	36,440,577

F Revised figures.

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

May 1963

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	May ^r 1962	No.
					Canada	
Mcf.						
-	-	3,933,190	36,046	3,969,236	44,676,443	1a
-	-	35,988,834	8,421,286	44,410,120		1b
-	239,691	8,720,537	3,416	9,779,643	15,419,502	2a
-	1,964,115	4,347,244	22,379	6,333,738		2b
-	2,203,806	52,989,805	8,483,127	64,492,737	60,095,945	3
-	-	3,762	-	875,595	835,660	4
181	-	17,545	-	17,726	-	5
181	2,203,806	53,011,112	8,483,127	65,386,058	60,931,605	6
-	-	729	-	152,844	11,517	7
181	2,203,806	53,011,841	8,483,127	65,538,902	60,943,122	9
21,862,801	23,600,617	-	15,280,909	...	...	11
-	465,858	1,801,023	-	3,874,610	27,054,208	12
1,407,219	1,699,676	2,707,611	2,312,176	28,038,503		13
23,270,201	27,969,957	57,520,475	26,076,212	97,452,015	87,997,330	19
583,402	1,011,402	2,649,269	731,442	9,552,827	8,364,740	20
657,043	1,969,006	7,561,212	1,361,211	20,520,937	18,107,927	21
414,963	463,980	1,908,444	270,230	4,534,231	3,993,004	22
1,655,408	3,444,388	12,118,925	2,362,883	34,607,995	30,465,671	30
4,742,933	-	2,425,037	21,250,184	28,532,280	27,220,344	31
-	-	56,231	-	56,316	11,334	32
6,398,341	3,444,388	14,600,193	23,613,067	63,196,591	57,697,349	33
-	518,550	251,717	-	3,327,458	4,303,465	34
5,022	16,150	- 53,847	- 63,971	- 72,489	48,760	35
238,048	506,234	50,192	132,334	1,508,466	1,296,603	36
- 232,103	- 543,700	- 717,940	82,606	- 2,421,124	- 2,545,236	37
6,409,308	3,941,622	14,130,315	23,764,036	65,538,902	60,800,941	39
15,453,674	21,862,801	38,881,526	-	...	...	40
1,407,219	1,699,676	129,997	2,272,522	21,685,393	16,328,127	41
-	465,858	4,378,637	39,654	10,227,720	10,868,262	42
23,270,201	27,969,957	57,520,475	26,076,212	97,452,015	87,997,330	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	10,227,700
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 ^r	1962 ^r	
				Mcf.					
							26,127,876 239,571,232	238,286,293	1a 1b
							71,303,882 33,420,010	99,398,255	2a 2b
							370,423,000	337,684,548	3
							3,368,410 142,173	1,777,778 36,846	4 5
							373,933,583	339,499,172	6
							17,597,003	14,417,243	7
							391,530,586	353,916,415	9
							11
							19,500,391 175,801,798	164,644,663	12 13
							586,832,775	518,561,078	19
							91,785,423 95,731,424 41,633,176	86,290,747 87,255,350 38,976,090	20 21 22
							229,150,023	212,522,187	30
							154,846,868 338,309	136,973,724 262,676	31 32
							384,335,200	349,758,587	33
							6,528,177 50,932	7,690,513 - 110,770	34 35
							9,012,585 - 8,396,308	7,436,679 - 11,066,932	36 37
							391,530,586	353,708,077	39
							40
							136,101,350 59,200,839	109,081,526 55,771,475	41 42
							586,832,775	518,561,078	49

TABLE 3. Receipts and Dispositions of Natural Gas by Source

May 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	-	-	-	3,933,190	36,046	...	3,969,236
1b	Processing plants	-	-	-	35,988,834	8,421,286	...	44,410,120
2	By distribution systems:							
2a	Fields	8,489	807,510	239,691	8,720,537	3,416	...	9,779,643
2b	Processing plants	-	-	1,964,115	4,347,244	22,379	...	6,333,738
3	Total (1 + 2)	8,489	807,510	2,203,806	52,989,805	8,483,127	...	64,492,737
4	Imports .....	...	...	...	...	...	875,595	875,595
5	Other receipts	-	-	-	17,726	-	...	17,726
6	Total net receipts (3 + 4 + 5)	8,489	807,510	2,203,806	53,007,531	8,483,127	875,595	65,386,058
7	Received from storage	-	152,115	-	729	-	...	152,844
9	Total supply of gas utilities (6 + 7)	8,489	959,625	2,203,806	53,008,260	8,483,127	875,595	65,538,962
	<u>Disposition</u>							
	<u>Sales:</u>							
23	British Columbia	-	-	-	485,321	1,877,562	-	2,362,883
24	Alberta	-	-	-	12,115,163	-	3,762	12,118,925
25	Saskatchewan	-	-	2,003,115	1,441,273	-	-	3,444,388
26	Manitoba	-	-	207,455	1,447,953	-	-	1,655,408
27	Ontario	-	994,674	-	10,898,581	-	871,833	12,765,088
28	Quebec	-	-	-	2,253,996	-	-	2,253,996
29	New Brunswick	7,307	-	-	-	-	-	7,307
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	7,307	994,674	2,210,570	28,642,287	1,877,562	875,595	34,607,995
31	Exports	-	-	-	21,985,841	6,546,439	...	28,532,280
32	Other deliveries	-	-	-	56,316	-	...	56,316
33	Total net deliveries (30 + 31 + 32)	7,307	994,674	2,210,570	50,684,444	8,424,001	875,595	63,196,591
34	Delivered to storage	-	-	518,550	2,808,908	-	-	3,327,458
35	Line pack fluctuation	-	-	9,454	- 44,755	- 37,188	-	- 72,489
36	Gas used in system	-	32,530	30,138	1,371,641	74,157	-	1,508,466
37	Line losses and unaccounted for	1,182	- 67,579	- 564,906	- 1,811,978	22,157	-	- 2,421,124
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,489	959,625	2,203,806	53,008,260	8,483,127	875,595	65,538,962

TABLE 4. Operating Statistics: Natural Gas Utilities

May 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
May 1963:			
Daily average	1,619,925	1,116,387	2,145,937
Maximum(1)	1,906,963	...	...
Minimum(1)	1,420,354	...	...
Exports maximum(1)	1,002,249	...	1,002,249
May 1962: ^r			
Daily average	1,404,789	982,764	2,000,026
Maximum(1)	1,812,723	...	...
Minimum(1)	1,287,457	...	...
Year to date 1963:			
Daily average	1,926,809	1,517,550	2,588,499
Maximum(1)	2,627,885	...	...
Minimum(1)	1,420,354	...	...
Commodity miles:			
Mcf. miles (thousands)	46,451,098	..	..
Ton-miles (millions)	1,059	..	..
Line pack:			
Beginning of month (Mcf.)	6,411,441	..	..
End of month (Mcf.)	6,334,233	..	..
Operating revenues	(\$)16,581,310	(\$)21,053,755	(\$)29,724,191(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

May 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	120,025	104,921
Deliveries to ultimate customers	154,447	89,854
Line pack fluctuations	- 2,313	419
Gas used in system	- 28,273	-
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 3,836	14,648
Total disposition	120,025	104,921
Daily average sendout	4,982	2,899
Revenues	(\$)104,445	(\$)103,005



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

May 1963

Customs port	Exports ^r	Imports
	Mcf.	
Cornwall, Ontario	114,126	-
Ojibway, Ontario	-	871,833
Emerson, Manitoba	4,742,933	-
Coutts, Alberta	333	3,762
Aden, Alberta	1,511,659	-
Carway, Alberta	913,045	-
Kingsgate, British Columbia	13,239,800	-
Huntingdon, British Columbia	8,010,384	-
Canada	28,532,280	875,595

^r Figures revised since publication in "Sales of Manufactured and Natural Gas", Catalogue No. 45-005.