

CATALOGUE No.

55-002

MONTHLY

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## DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

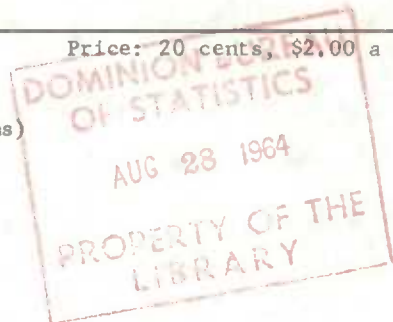
Published by Authority of the Minister of Trade and Commerce

Vol. 6, No. 5

Price: 20 cents, \$2.00 a year

GAS UTILITIES  
(Transport and Distribution Systems)

MAY 1964



Gas utilities received from field gathering systems and processing plants 69,188,450 Mcf. of natural gas during May 1964. The transport systems accounted for 54,475,146 Mcf., while the distribution systems received 14,713,304 Mcf.; natural gas received from storage was 511,497 Mcf. The total supply of gas utilities amounted to 72,553,591 Mcf., 10.7 per cent higher than last year. Of the total supply, 36,641,931 Mcf. were sold to ultimate customers in Canada, an increase of 6.9 per cent, while exports amounted to 31,550,953 Mcf., up 10.6 per cent over the same month in 1963. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. Natural gas received by distribution systems from transport systems amounted to 21,555,551 Mcf., a slight decrease from last year. For the twelve-month period ended May 1964 exports totalled 373,795,530 Mcf., while net deliveries amounted to 846,816,891 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 52.0 billion commodity (Mcf.) miles during May compared with 46.5 billion last year. Ton-miles totalled 1,185 million for May 1964. The daily average deliveries of gas utilities amounted to 2.4 million Mcf.

Natural gas received by Alberta utilities totalled 56.7 billion cubic feet; of this 20.8 per cent was sold to ultimate customers in Alberta, 16.5 per cent in Ontario, 4.8 per cent in Quebec, 2.8 per cent in Manitoba, 2.1 per cent in Saskatchewan and 1.3 per cent in British Columbia. In Table 3 gas received from and delivered to storage is considered as having originated or terminated in the province where the storage is located.

Revenue for the natural gas utilities for the month was \$31,996,818 and for manufactured and liquefied petroleum gases systems \$181,038, giving a combined Gas Utilities total of \$32,177,856.

All gas volumes are given in cubic feet measured at 14.73 p.s.i.a. and 60°F; that is, without adjustment 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.

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 cyclical billing adjustments.

A companion publication "Crude Petroleum and Natural Gas Production", Catalogue number 26-006 gives the Supply and Disposition of Natural Gas by Source.

Industry Division

August 1964  
6511-509

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

MAY 1964

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	6,973	-	840,958
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	6,973	-	840,958
4	Imports .....	-	-	2,843,426
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	6,973	-	3,684,384
7	Received from storage .....	-	-	482,575
9	Total supply of gas utilities (6 + 7) .....	6,973	-	4,166,959
	Transfers from:			
11	Other provinces .....	-	2,778,525	15,830,144
12	Distribution to transport (primary) .....	-	-	2,062,127
13	Other gas utilities .....	-	2,778,525	19,041,401
19	Total gross receipts (9 + 11 + 12 + 13) ...	6,973	5,557,050	41,100,631
	<u>Disposition</u>			
	Sales:			
20	Residential .....	5,263	415,158	4,065,919
21	Industrial .....	-	2,178,535	7,900,887
22	Commercial .....	-	118,584	1,632,737
30	Total sales (20 + 21 + 22) .....	5,263	2,712,277	13,599,543
31	Exports .....	-	-	159,633
32	Other deliveries .....	-	-	125
33	Total net deliveries (30 + 31 + 32) .....	5,263	2,712,277	13,759,301
34	Delivered to storage .....	-	-	4,297,856
35	Line pack fluctuation .....	-	906	- 35,911
36	Gas used in system .....	-	8,364	646,939
37	Line losses and unaccounted for .....	1,710	56,978	- 1,449,607
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	6,973	2,778,525	17,218,578
	Transfers to:			
40	Other provinces .....	-	-	2,778,525
41	Distribution by transport (primary) .....	-	2,778,525	12,805,087
42	Other gas utilities .....	-	-	8,298,441
49	Total disposition (39 + 40 + 41 + 42) .....	6,973	5,557,050	41,100,631

(1) Includes peak shaving and enrichment.

.. Figures not appropriate or not applicable.

† Revised figures.

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

May 1964

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	May <sup>r</sup> 1963	No.
					Canada	
Mcf.						
-	-	5,908,338	89,220	5,997,558	5,193,783	1a
-	-	39,325,170	9,152,418	48,477,588	44,685,121	1b
-	409,472	2,970,843	10,392	4,238,638	4,350,921	2a
-	1,991,336	8,452,497	30,833	10,474,666	10,262,912	2b
-	2,400,808	56,656,848	9,282,863	69,188,450	64,492,737	3
-	-	5,000	-	2,848,426	875,595	4
485	-	4,733	-	5,218	17,726	5
485	2,400,808	56,666,581	9,282,863	72,042,094	65,386,058	6
-	-	28,922	-	511,497	152,844	7
485	2,400,808	56,695,503	9,282,863	72,553,591	65,538,902	9
13,255,429	24,981,109	-	17,277,897	...	...	11
-	445,375	318,956	-	2,826,458	3,874,610	12
1,311,849	1,443,436	2,845,580	3,085,096	30,505,887	28,038,503	13
14,567,763	29,270,728	59,860,039	29,645,856	105,885,936	97,452,015	19
641,537	1,131,581	2,824,893	966,082	10,050,433	9,552,827	20
651,896	1,984,564	6,959,967	1,778,298	21,454,147	20,192,971	21
462,835	544,268	2,030,727	348,200	5,137,351	4,534,231	22
1,756,268	3,660,413	11,815,587	3,092,580	36,641,931	34,280,029	30
5,715,720	-	2,531,359	23,144,241	31,550,953	28,532,280	31
-	-	507,103	-	507,228	56,316	32
7,471,988	3,660,413	14,854,049	26,236,821	68,700,112	62,868,625	33
-	529,844	708,797	-	5,536,497	3,655,424	34
- 10,395	- 11,762	- 78,320	120,508	- 14,974	- 72,489	35
287,588	608,094	79,505	176,285	1,806,775	1,508,466	36
- 323,411	- 660,101	- 1,127,534	27,146	- 3,474,819	- 2,421,124	37
7,425,770	4,126,488	14,436,497	26,560,760	72,553,591	65,538,902	39
15,830,144	23,255,429	42,259,006	-	...	...	40
1,311,849	1,443,436	192,647	3,024,007	21,555,551	21,685,393	41
-	445,375	2,971,889	61,089	11,776,794	10,227,720	42
14,567,763	29,270,728	59,860,039	29,645,856	105,885,936	97,452,015	49

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields .....	8,082,197	7,536,571	8,123,028	7,079,847	5,997,558
1b	Processing plants .....	59,356,924	55,783,590	57,861,379	52,875,619	48,477,588
2	By distribution systems:					
2a	Fields .....	8,618,465	7,709,039	10,057,374	6,890,691	4,238,638
2b	Processing plants .....	14,340,369	12,676,726	12,782,801	10,624,256	10,474,666
3	Total (1 + 2) .....	90,397,955	83,705,926	88,824,582	77,470,413	69,188,450
4	Imports .....	12,330	9,898	11,539	1,655,234	2,848,426
5	Other receipts(1) .....	65,536	18,340	9,929	6,061	5,218
6	Total net receipts (3 + 4 + 5) .....	90,475,821	83,734,164	88,846,050	79,131,708	72,042,094
7	Received from storage .....	6,075,333	4,719,049	3,700,955	1,155,624	511,497
9	Total supply of gas utilities (6 + 7) .....	96,551,154	88,453,213	92,547,005	80,287,332	72,553,591
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary) .....	1,115,736	1,065,673	2,523,361	1,497,515	2,826,458
13	Other gas utilities .....	45,981,851	43,510,890	44,137,604	36,752,124	30,505,887
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,648,741	133,029,776	139,207,970	118,536,971	105,885,936
	<u>Disposition</u>					
	Sales:					
20	Residential .....	26,037,617	22,076,532	20,845,693	18,366,182	10,050,433
21	Industrial .....	20,146,835	18,948,525	20,767,171	21,562,713	21,454,147
22	Commercial .....	12,098,782	10,226,998	10,091,415	8,849,161	5,137,351
30	Total sales (20 + 21 + 22) .....	58,283,234	51,252,055	51,704,279	48,778,056	36,641,931
31	Exports .....	36,341,974	34,210,271	34,637,621	32,295,319	31,550,953
32	Other deliveries .....	241,750	211,370	390,420	807,823	507,228
33	Total net deliveries (30 + 31 + 32) .....	94,866,958	85,673,696	86,732,320	81,881,198	68,700,112
34	Delivered to storage .....	599,075	744,277	665,295	2,783,382	5,536,497
35	Line pack fluctuation .....	- 35,828	10,537	- 80,392	92,806	- 14,974
36	Gas used in system .....	2,671,670	2,645,654	2,832,444	2,495,544	1,806,775
37	Line losses and unaccounted for .....	- 1,550,721	- 620,951	2,397,338	- 6,965,598	- 3,474,819
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	96,551,154	88,453,213	92,547,005	80,287,332	72,553,591
	Transfers to:					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary) .....	35,182,609	32,659,707	33,754,997	26,598,833	21,555,551
42	Other gas utilities .....	11,914,978	11,916,856	12,905,968	11,650,806	11,776,794
49	Total disposition (39 + 40 + 41 + 42) .....	143,648,741	133,029,776	139,207,970	118,536,971	105,885,936

(1) Includes peak shaving and enrichment.  
 r Revised figures.  
 ... Figures not appropriate or not applicable.



TABLE 3. Receipts and Disposition of Natural Gas by Source

May 1964

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.							
	<u>Receipts</u>								
1	By transport systems:								
1a	Fields .....	-	-	-	5,908,338	89,220	...	5,997,558	
1b	Processing plants .....	-	-	-	39,325,170	9,152,418	...	48,477,588	
2	By distribution systems:								
2a	Fields .....	6,973	840,958	409,472	2,970,843	10,392	...	4,238,638	
2b	Processing plants .....	-	-	1,991,336	8,452,497	30,833	...	10,474,666	
3	Total (1 + 2) .....	6,973	840,958	2,400,808	56,656,848	9,282,863	...	69,188,450	
4	Imports .....	...	...	...	...	...	2,848,426	2,848,426	
5	Other receipts(1) .....	-	-	-	5,218	-	...	5,218	
6	Total net receipts (3 + 4 + 5) .....	6,973	840,958	2,400,808	56,662,066	9,282,863	2,848,426	72,042,094	
7	Received from storage .....	-	482,575	-	28,922	-	...	511,497	
9	Total supply of gas utilities (6 + 7) .....	6,973	1,323,533	2,400,808	56,690,988	9,282,863	2,848,426	72,553,591	
	<u>Disposition</u>								
	<u>Sales:</u>								
23	British Columbia .....	-	-	-	750,075	2,342,505	-	3,092,580	
24	Alberta .....	-	-	-	11,810,587	-	5,000	11,815,587	
25	Saskatchewan .....	-	-	2,488,972	1,171,441	-	-	3,660,413	
26	Manitoba .....	-	-	167,775	1,588,493	-	-	1,756,268	
27	Ontario .....	-	1,391,457	-	9,364,660	-	2,843,426	13,599,543	
28	Quebec .....	-	-	-	2,712,277	-	-	2,712,277	
29	New Brunswick .....	5,263	-	-	-	-	-	5,263	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,263	1,391,457	2,656,747	27,397,533	2,342,505	2,848,426	36,641,931	
31	Exports .....	-	-	-	24,842,380	6,708,573	...	31,550,953	
32	Other deliveries .....	-	-	-	507,228	-	...	507,228	
33	Total net deliveries (30 + 31 + 32) .....	5,263	1,391,457	2,656,747	52,747,141	9,051,078	2,848,426	68,700,112	
34	Delivered to storage .....	-	-	529,844	5,006,653	-	-	5,536,497	
35	Line pack fluctuation .....	-	-	2,098	- 147,593	130,521	-	- 14,974	
36	Gas used in system .....	-	29,026	32,917	1,628,848	115,984	-	1,806,775	
37	Line losses and unaccounted for .....	1,710	- 96,950	- 820,798	- 2,544,061	- 14,720	-	- 3,474,819	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	6,973	1,323,533	2,400,808	56,690,988	9,282,863	2,848,426	72,553,591	

(1) Includes peak shaving and enrichment.  
 ... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

May 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
May 1964:			
Daily average .....	1,713,113	1,181,998	2,394,729
Maximum(1) .....	2,198,750	...	...
Minimum(1) .....	1,524,682	...	...
Exports maximum(1) .....	1,128,136	...	1,128,136
May 1963 <sup>r</sup> :			
Daily average .....	1,619,925	1,105,807	2,145,937
Maximum(1) .....	1,906,963	...	...
Minimum(1) .....	1,420,354	...	...
Year to date 1964:			
Daily average .....	2,097,288	1,622,760	2,816,992
Maximum(1) .....	2,732,436	...	...
Minimum(1) .....	1,524,682	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	51,975,607	..	..
Ton-miles (millions) .....	1,185	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	6,621,915	..	..
End of month (Mcf.) .....	6,596,251	..	..
Operating revenues .....	(\$) 17,856,260	(\$) 22,791,448	(\$) 31,996,818(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

May 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	50,082	167,826
Deliveries to ultimate customers .....	51,240	161,256
Line pack fluctuations .....	-	- 1,565
Gas used in system .....	1,565	2,399
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	- 2,723	5,736
Total disposition .....	50,082	167,826
Daily average sendout .....	1,653	5,202
Revenues .....	(\$) 40,813	(\$) 140,225



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

May 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	159,633	-
Ojibway, Ontario .....	-	2,843,426(2)
Emerson, Manitoba .....	5,715,720	-
Coutts, Alberta .....	11	5,000
Aden, Alberta .....	1,634,626	-
Carway, Alberta .....	896,722	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,537,348	-
Other U.S.A. ....	3,174,929	-
Huntingdon, British Columbia .....	8,431,964	-
Canada - 1964 .....	31,550,953	2,848,426
1963 .....	28,532,280	875,595

(1) California, Nevada, Arizona.

(2) Includes 1,951,007 Mcf. entered at customs port of Niagara Falls.