

CATALOGUE No.

55-002

MONTHLY

cul

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

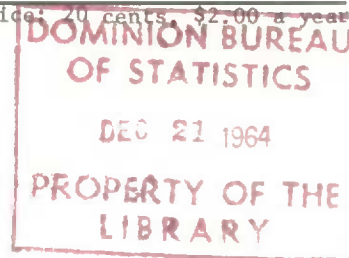
Published by Authority of the Minister of Trade and Commerce

Vol. 6, No. 8

Price: 20 cents, \$2.00 a year

GAS UTILITIES (Transport and Distribution Systems)

AUGUST 1964



During August 1964 field gathering systems and processing plants delivered to gas utilities 66,027,233 Mcf. of natural gas. The transport systems accounted for 53,324,310 Mcf. and the distribution systems 12,702,923 Mcf. Natural gas received from storage was 120,999 Mcf. The total supply of gas utilities amounted to 67,067,234 Mcf., 12.6 per cent higher than in August 1963. Of the total supply, 26,605,488 Mcf. were sold to ultimate customers in Canada, an increase of 9.1 per cent. Exports rose 10.5 per cent to 29,048,126 Mcf. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. The distribution systems received from the transport systems 19,989,549 Mcf. of natural gas, an increase of 18.0 per cent. For the twelve-month period ended August 1964, exports totalled 380,965,467 Mcf., while net deliveries amounted to 863,594,669 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 51.8 billion commodity (Mcf.) miles during August compared with 45.1 billion last year. Ton-miles totalled 1,181 million for August 1964. The daily average deliveries of gas utilities amounted to 2.0 million Mcf.

Alberta natural gas utility receipts totalled 56.2 billion cubic feet; of this 15.6 per cent was sold to ultimate customers in Alberta, 15.3 per cent in Ontario, 4.8 per cent in Quebec, 2.0 per cent in Saskatchewan, 1.4 per cent in Manitoba and 0.9 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 \$23,119,720 and for manufactured and liquefied petroleum gases systems \$140,471, giving a combined Gas Utilities total of \$23,260,191.

All gas volumes are 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.

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

December 1964
6511-509

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

August 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	6,204	-	710,268
2b	Processing plants	-	-	-
3	Total (1 + 2)	6,204	-	710,268
4	Imports	-	-	856,277
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	6,204	-	1,566,545
7	Received from storage	-	-	-
9	Total supply of gas utilities (6 + 7)	6,204	-	1,566,545
	Transfers from:			
11	Other provinces	-	2,795,852	18,481,432
12	Distribution to transport (primary)	-	-	592,021
13	Other gas utilities	-	2,795,852	21,138,071
19	Total gross receipts (9 + 11 + 12 + 13) ...	6,204	5,591,704	41,778,069
	<u>Disposition</u>			
	Sales: ^r			
20	Residential	3,975	243,338	1,351,113
21	Industrial	-	2,374,851	7,723,531
22	Commercial	-	102,598	917,563
30	Total sales (20 + 21 + 22)	3,975	2,720,787	9,992,207
31	Exports	-	-	142,413
32	Other deliveries	-	-	15
33	Total net deliveries (30 + 31 + 32)	3,975	2,720,787	10,134,635
34	Delivered to storage	-	-	5,231,792
35	Line pack fluctuation	-	- 4,361	220,360
36	Gas used in system	-	640	629,188
37	Line losses and unaccounted for	2,229	78,786	1,036,150
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,204	2,795,852	17,252,125
	Transfers to:			
40	Other provinces	-	-	2,795,852
41	Distribution by transport (primary)	-	2,795,852	12,691,788
42	Other gas utilities	-	-	9,038,304
49	Total disposition (39 + 40 + 41 + 42)	6,204	5,591,704	41,778,069

(1) Includes peak shaving and enrichment.

^r Revised figures.

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	
	<u>Transfers from:</u>						
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>						
	<u>Sales:</u>						
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	
	<u>Transfers to:</u>						
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 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

June	July	August	September	October	November	December	Year to date		No.
							1964	1963 ^F	
Mcf.									
5,362,513 46,554,850	4,554,284 46,568,210	5,508,523 47,815,787					52,244,521 415,293,947	46,815,445 365,264,501	1a 1b
3,387,048 9,133,565	2,828,550 9,398,900	3,148,243 9,554,680					46,878,048 88,985,963	46,908,212 86,159,242	2a 2b
64,437,976	63,349,944	66,027,233					603,402,479	545,147,400	3
826,445 2,506	852,674 5,381	858,444 60,558					7,074,990 173,529	5,923,385 166,142	4 5
65,266,927	64,207,999	66,946,235					610,650,998	551,236,927	6
125,708	117,570	120,999					16,526,735	17,638,756	7
65,392,635	64,325,569	67,067,234					627,177,733	568,875,683	9
2,126,914 27,865,728	1,271,656 29,440,164	1,367,885 31,188,372					13,795,198 289,382,620	33,771,069 249,713,382	11 12 13
95,385,277	95,037,389	99,623,491					930,355,551	852,360,134	19
6,042,230 22,338,870 3,165,502	3,742,788 20,272,216 2,220,583	3,402,101 20,905,570 2,297,817					110,563,576 166,396,047 54,087,609	103,900,081 151,913,644 48,176,776	20 21 22
31,546,602	26,235,587	26,605,488					331,047,232	303,990,501	30
29,084,975 530,446	28,321,484 551,636	29,048,126 399,257					255,490,723 3,639,930	234,131,516 496,815	31 32
61,162,023	55,108,707	56,052,871					590,177,885	538,618,832	33
4,097,801 - 42,240	7,183,678 - 220,936	5,978,310 478,399					27,588,315 187,372	26,180,775 - 144,154	34 35
2,085,107 - 1,910,056	1,968,125 285,995	1,700,557 2,857,097					18,205,876 - 8,981,715	13,541,672 - 9,321,442	36 37
65,392,635	64,325,569	67,067,234					627,177,733	568,875,683	39
19,896,518 10,096,124	18,136,148 12,575,672	19,989,549 12,566,708					207,773,912 95,403,906	186,370,278 97,114,173	40 41 42
95,385,277	95,037,389	99,623,491					930,355,551	852,360,134	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

August 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	-	-	-	5,175,626	332,897	...	5,508,523	
1b	Processing plants	-	-	-	40,490,575	7,325,212	...	47,815,787	
2	By distribution systems:								
2a	Fields	6,204	710,268	245,315	2,179,011	7,445	...	3,148,243	
2b	Processing plants	-	-	1,308,375	8,231,605	14,700	...	9,554,680	
3	Total (1 + 2)	6,204	710,268	1,553,690	56,076,817	7,680,254	...	66,027,233	
4	Imports .....	...	...	...	...	...	858,444	858,444
5	Other receipts(1)	-	-	-	60,558	-	...	60,558	
6	Total net receipts (3 + 4 + 5)	6,204	710,268	1,553,690	56,137,375	7,680,254	858,444	66,946,235	
7	Received from storage	-	-	107,663	13,336	-	...	120,999	
9	Total supply of gas utilities (6 + 7)	6,204	710,268	1,661,353	56,150,711	7,680,254	858,444	67,067,234	
	<u>Disposition</u>								
	Sales:								
23	British Columbia	-	-	-	529,620	1,481,521	-	2,011,141	
24	Alberta	-	-	-	8,736,621	-	2,167	8,738,788	
25	Saskatchewan	-	-	1,060,409	1,124,108	-	-	2,184,517	
26	Manitoba	-	-	152,682	801,391	-	-	954,073	
27	Ontario	-	549,704	-	8,586,226	-	856,277	9,992,207	
28	Quebec	-	-	-	2,720,787	-	-	2,720,787	
29	New Brunswick	3,975	-	-	-	-	-	3,975	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	3,975	549,704	1,213,091	22,498,753	1,481,521	858,444	26,605,488	
31	Exports	-	-	-	23,257,841	5,790,285	...	29,048,126	
32	Other deliveries	-	-	-	399,257	-	...	399,257	
33	Total net deliveries (30 + 31 + 32)	3,975	549,704	1,213,091	46,155,851	7,271,806	858,444	56,052,871	
34	Delivered to storage	-	-	41,674	5,936,636	-	-	5,978,310	
35	Line pack fluctuation	-	-	14,701	341,327	122,371	-	478,399	
36	Gas used in system	-	38,745	24,135	1,552,463	85,214	-	1,700,557	
37	Line losses and unaccounted for	2,229	121,819	367,752	2,164,434	200,863	-	2,857,097	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,204	710,268	1,661,353	56,150,711	7,680,254	858,444	67,067,234	

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

TABLE 4. Operating Statistics: Natural Gas Utilities

August 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
August 1964:			
Daily average	1,581,860	858,242	2,001,006
Maximum(1)	1,987,423	...	...
Minimum(1)	1,476,578	...	...
Exports maximum(1)	1,127,781	...	1,127,781
August 1963 ^r :			
Daily average	1,394,575	786,401	1,822,746
Maximum(1)	1,666,130	...	...
Minimum(1)	1,130,725	...	...
Year to date 1964:			
Daily average	1,898,626	1,356,751	2,531,829
Maximum(1)	2,732,436	...	...
Minimum(1)	1,362,645	...	...
Commodity miles:			
Mcf. miles (thousands)	51,804,828	..	..
Ton-miles (millions)	1,181	..	..
Line pack:			
Beginning of month (Mcf.)	6,372,653	..	..
End of month (Mcf.)	6,850,793	..	..
Operating revenues	(\$)16,939,599	(\$)14,399,241	(\$)23,119,720

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

August 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	58,070	103,230
Deliveries to ultimate customers	55,593	82,425
Line pack fluctuations	-	- 70
Gas used in system	70	1,006
Metering difference, line losses, cyclical billing adjustments and unaccounted for	2,407	19,869
Total disposition	58,070	103,230
Daily average sendout	1,793	2,659
Revenues	(\$)38,236	(\$)102,235



TABLE 6. Exports and Imports to and from the United States
August 1964

Customs port	Exports	Imports
		Mcf.
Cornwall, Ontario	142,413	-
Ojibway, Ontario	-	856,277
Emerson, Manitoba	5,522,593	-
Coutts, Alberta	207	2,167
Aden, Alberta	1,078,621	-
Carway, Alberta	928,633	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,757,577	-
Other U.S.A.	2,354,323	-
Huntingdon, British Columbia	7,263,759	-
Canada - 1964	29,048,126	858,444
1963	26,295,124	859,313

(1) California, Nevada, Arizona.