Historical File Copy

CATALOGUE No.

55-002

MONTHLY

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

4.1

Vol. 5, No. 9

Price: 20 cents, \$2.00 a year

GAS UTILITIES (Transport and Distribution Systems)

SEPTEMBER 1963

In September 1963 field gathering systems and processing plants delivered to gas utilities 61,543,115 Mcf. of natural gas. The transport systems accounted for 4,720,859 Mcf. from fields and 42,215,524 Mcf. from processing plants, while the distribution systems received 8,209,324 Mcf. and 6,397,408 Mcf. respectively; natural gas received from storage was 7,112 Mcf. The total supply of gas utilities totalled 62,369,423 Mcf. and was 1.3 per cent higher than in September 1962. Of the total supply, 26,377,900 Mcf. were sold to ultimate customers in Canada, an increase of 2.7 per cent, while exports totalled 27,125,032 Mcf., a decrease of 6.7 per cent from last year. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. Transport systems delivered 18,332,801 Mcf. to distribution systems, an increase of 13.8 per cent over the previous year. For the twelve-month period ended September 1963 exports totalled 374,113,941 Mcf., while net deliveries amounted to 819,567,171 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 46.4 billion commodity (Mcf.) miles during September 1963 compared with 40.5 billion for 1962. Ton-miles totalled 1,058 million for September 1963. The daily average deliveries of gas utilities amounted to 1.9 million Mcf.

Alberta natural gas utility receipts totalled 50.7 billion cubic feet; of this 18.7 per cent was sold to ultimate customers in Alberta, 16.0 per cent in Ontario, 4.4 per cent in Quebec, 1.9 per cent in Saskatchewan, 1.2 per cent in Manitoba and 1.1 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 \$23,107,136 and for manufactured and liquefied petroleum gases systems \$149,743, giving a combined Gas Utilities total of \$23,256,879.

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

December 1963 8506-503

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province
September 1963

	September 1963						
25.0		New Brunswick	Quebec ^T	Ontario			
No.			Mcf.	-19			
	Receipts						
1	By transport systems:						
la lb	Fields	:	-				
2	By distribution systems:						
2a 2b	Fields Processing plants	7,435	-	946,837			
3	Total (1 + 2)	7,435	-	946,837			
4 5	Imports Other receipts	-	-	807,181			
6	Total net receipts (3 + 4 + 5)	7,435	•	1,754,018			
7	Received from storage	-	-				
9	Total supply of gas utilities (6 + 7)	7,435	-	1,754,018			
	Transfers from:						
11	Other provinces	-	2,305,234	16,050,94 2,037,16			
13	Distribution to transport (primary) Other gas utilities	66	2,305,234	17,535,775			
19	Total gross receipts (9 + 11 + 12 + 13)	7,435	4,610,468	37,377,897			
	Disposition		1 4 1				
	Sales:						
20	Residential	3,777	330,629	1,517,292			
21	Industrial	1,500	1,794,919 109,212	6,937,893 1,269,921			
30	Total sales (20 + 21 + 22)	5,277	2,234,760	9,725,100			
31	Exports	-	-	140,45			
33	Total net deliveries (30 + 31 + 32)	5,277	2,234,760	9,865,568			
34	Delivered to storage	-	- 2,763	3,778,566 107,839			
36	Gas used in system	2,158	73,237	582,145 1,165,609			
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,435	2,305,234	15,499,72			
	Transfers to:						
40 41 42	Other provinces Distribution by transport (primary) Other gas utilities	-	2,305,234	2,305,234 11,798,19 7,774,74			
49	Total disposition (39 + 40 + 41 + 42)	7,435	4,610,468	37,377,89			

r Revised figures.

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

September 1963

	September ^r 1962	Canada	British Columbia	Alberta	Saskatchewan	Manitoba	
	Canada		Columbia				
T				Mcf.		1	
	45,057,881	4,720,859) 42,215,524)	347,144 7,400,609	4,373,715 34,814,915	-	-	
					Į.		
	15,331,696	8,209,324)	4,943	6,826,285	423,824		
	,	6,397,408	16,908	4,668,604	1,711,896	-	
	60,389,577	61,543,115	7,769,604	50,683,519	2,135,720	-	
	862,403	809,481 9,715	-	2,300 9,640		75	
	61,251,980	62,362,311	7,769,604	50,695,459	2,135,720	75	
	299,578	7,112	-	2,498	4,614	-	
	61,551,558	62,369,423	7,769,604	50,697,957	2,140,334	75	
	0 4 6		15,065,463	-	23,333,067	22,102,247	
	25,927,711	3,855,268) 26,826,572)	1,952,683	1,266,998 2,814,889	551,109 1,156,225	1,061,766	
	87,479,269	93,051,263	24,787,750	54,779,844	27,180,735	23,164,088	
	4,209,337 18,684,736	3,784,998 19,878,287	387,624 1,310,492	1,078,043 7,483,418	270,207 1,736,930	197,426 614,635	
	2,796,375	2,714,615	164,191	910,208	111,633	147,950	
	25,690,448	26,377,900	1,862,307	9,471,669	2,118,770	960,011	
	29,064,338 18,695	27,125,032 61,063	20,525,382	1,807,282 61,057	-	4,651,912	
	54,773,481	53,563,995	22,387,689	11,340,008	2,118,770	5,611,923	
	2,494,828	4,370,359	***	218,236	373,557	-	
	100,957 1,243,689	226,529 1,591,855	101,950 156,070	- 69,373 37,577	64,915 552,761	23,961 263,302	
	2,912,964	2,616,685	189,358	772,979	261,151	152,193	
	61,525,919	62,369,423	22,835,067	12,299,427	3,371,154	6,051,379	
	4 h 4		-	38,398,530	22,102,247	16,050,943	
	16,113,116 9,840,234	18,332,801 12,349,039	1,919,620 33,063	91,764 3,990,123	1,156,225 551,109	1,061,766	
1	87,479,269	93,051,263	24,787,750	54,779,844	27,180,735	23,164,088	

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1963

		January	February	March	April	May
0.				Mcf.		
	Receipts					
1	By transport systems:					
la lb	FieldsProcessing plants	6,490,502 53,448,663	5,665,269 45,922,308	5,185,435 50,341,692	4,817,434 45,448,449	3,969,23 44,410,12
2	By distribution systems:					
2a 2b	Fields Processing plants	20,099,614 6,544,092	15,790,009 6,772,147	14,239,942 7,614,165	11,394,674 6,155,868	9,779,64 6,333,73
3	Total (1 + 2)	86,582,871	74,149,733	77,381,234	67,816,425	64,492,73
5	Imports Other receipts	213,784 82,482	166,149 40,522	987,966 1,002	1,124,916	875,595 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	152,84
9	Total supply of gas utilities (6 + 7)	95,415,531	79,843,266	81,017,137	69,715,750	65,538,90
	Transfers from:					
1 2 3	Other provinces Distribution to transport (primary) Other gas utilities	4,275,301 43,342,270	4,737,209 38,021,384	3,624,455 35,730,383	2,988,816 30,669,258	3,874,61 28,038,50
9	Total gross receipts (9 + 11 + 12 + 13)	143,033,102	122,601,859	120,371,975	103,373,824	97,452,01
				-	-	
	Disposition					
	Sales:					
0 1 2	Residential	24,487,687 18,626,804 10,897,541	24,217,941 17,246,726 10,826,176	19,618,195 19,446,709 8,844,584	13,908,773 19,890,248 6,530,644	9,552,823 20,520,93 4,534,23
0	Total sales (20 + 21 + 22)	54,012,032	52,290,843	47,909,488	40,329,665	34,607,99
1 2	ExportsOther deliveries	34,608,544 88,879	29,721,885 65,370	32,520,099 68,550	29,464,060 59,194	28,532,280 56,310
3	Total net deliveries (30 + 31 + 32)	88,709,455	82,078,098	80,498,137	69,852,919	63,196,59
5 5 7	Delivered to storage	607,009 168,468 2,125,732 3,804,867	363,974 - 110,881 1,883,954 - 4,371,879	680,971 254,266 1,922,048 - 2,338,285	1,548,765 - 188,432 1,572,385 - 3,069,887	3,327,458 - 72,489 1,508,466 - 2,421,124
9	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531	79,843,266	81,017,137	69,715,750	65,538,90
	Transfers to:					
0 1 2	Other provinces	34,377,018 13,240,553	29,710,223 13,048,370	27,422,291 11,932,547	22,906,425 10,751,649	21,685,39 10,227,726
9	Total disposition (39 + 40 + 41 + 42)	143,033,102	122,601,859	120,371,975	103, 373,824	97,452,01

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1963

June	July August September	August	st September	October November	December	Year to date			
Julie		Occoper (November	Detember	1963 ^r	1962 ^r	No.			
	1	1		Mcf.	1	1		1	T
3,545,883	3,917,797 41,167,577	4,473,601 40,752,094	4,720,859 42,215,524				42,786,016 404,513,508)412,432,284	
7,666,185	6,927,079	7,467,238	8,209,324				101,573,708	153,814,035	
6,227,544	5,813,608	6,023,038	6,397,408				57,881,608	566,246,319	
8,246,693	57,826,061	58,715,971 859,313	61,543,115 809,481				6,732,866	5,350,249	
828,262 4,042	867,400	9,846	9,715				175,857	36,846	
9,078,997	58,703,542	59,585,130	62,362,311				613,663,563	571,633,414	
39,489	-	2,264	7,112				17,645,868	15,063,796	
59,118,486	58,703,542	59,587,394	62,369,423				631,309,431	586,697,210	
					0				

4,400,065 24,171,023	5,105,874 24,539,783	4,764,739 25,111,177	3,855,268 26,826,572				37,626,337 276,450,353	266,811,084	
87,689,574	88,349,199	89,463,310	93,051,263				945,386,121	853,508,294	
		,							
5,602,252 19,736,318	3,477,050 19,157,302	3,035,356 19,932,618	3,784,998 19,878,287				107,685,079 174,435,949	101,517,124 159,080,932	
2,786,605	1,886,996	1,869,999	2,714,615				50,891,391	47,889,804	
28,125,175	24,521,348	24,837,973	26,377,900				333,012,419	308,487,860	
26,118,308 52,586	26,871,216 50,623	26,295,124 55,297	27,125,032 61,063				261, 256, 548 557, 878	248,484,296 432,234	
54,296,069	51,443,187	51,188,394	53,563,995				594,826,845	557,404,390	1
5,491,294	6,290,164	5,316,723	4,370,359				27,996,717	24,450,130	
1,475,841	- 266,566 1,521,333	231,302 1,531,913	226,529 1,591,855				82,375 15,133,527	- 137,518 12,272,741	
1,984,896	- 284,576	1,319,062	2,616,685				- 6,730,033	- 7,465,983	13
59,118,486	58,703,542	59,587,394	62,369,423				631,309,431	586,523,760	1
16,947,007	16,385,216	16,936,705	18,332,801				204,703,079	168,834,965	4
11,624,081	13,260,441	12,939,211	12,349,039				109,373,611	98,149,569	4
87,689,574	88,349,199	89,463,310	93,051,263				945,386,121	853,508,294	4

TABLE 3. Receipts and Disposition of Natural Gas by Source September 1963

		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
0.					Mcf.			
	Receipts							
1	By transport systems:							
la lb	Fields Processing plants	-	-	-	4,373,715 34,814,915	347,144 7,400,609	0 0 0	4,720,859 42,215,524
2	By distribution systems:							
2a 2b	Fields Processing plants	7,435	946,837	423,824 1,711,896	6,826,285 4,668,604	4,943 16,908		8,209,324 6,397,408
3	Total (1 + 2)	7,435	946,837	2,135,720	50,683,519	7,769,604	• • •	61,543,115
4 5	Imports	4 + 0		•••	9,715		809,481	809,481 9, 7 15
6	Total net receipts (3 + 4 + 5)	7,435	946,837	2,135,720	50,693,234	7,769,604	809,481	62,362,311
7	Received from storage		-	4,614	2,498	-		7,11
,	Total supply of gas utilities (6 + 7)	7,435	946,837	2,140,334	50,695,732	7,769,604	809,481	62,369,42
	Disposition							
	Sales:	F 1						
3 4	British Columbia	-	-	1,156,503	545,280 9,469,369 962,267	1,317,027	2,300	1,862,30 9,471,66 2,118,77
5	Saskatchewan Manitoba	-	011 002	357,151	602,860 8,106,122	-	807,181	960,01 9,725,10
7 8 9	Ontario Quebec New Brunswick	5,277	811,803	-	2,234,760	-	-	2,234,76
0	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,277	811,803	1,513,654	21,920,658	1,317,027	809,481	26,377,90
1 2	ExportsOther deliveries	-		-	20,979,084 61,063	6,145,948	* * *	27,125,033 61,06
3	Total net deliveries		017 000	3 510 65/	/2 060 005	7 /62 075	809,481	53,563,99
	(30 + 31 + 32)	5,277	811,803	1,513,654	42,960,805	7,462,975	007,401	33,303,33
5 6	Delivered to storage Line pack fluctuation Gas used in system	-	43,085	373,557 32,967 26,156	3,996,802 102,735 1,432,794	90,827 89,820	-	4,370,35 226,52 1,591,85
7	Line losses and unaccounted for	2,158	91,949	194,000	2,202,596	125,982	-	2,616,68
9	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,435	946,837	2,140,334	50,695,732	7,769,604	809,481	62,369,42

TABLE 4. Operating Statistics: Natural Gas Utilities September 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
September 1963:			
Daily average	1,515,261	879,263	1,931,145
Maximum(1)	1,819,835	0 0 0	
Minimum(1)	1,329,799		
Exports maximum(1)	987,532	0 0 9	987,532
September 1962 ^r :			
Daily average	1,505,915	856,348	1,908,944
Maximum(1)	1,921,493		
Minimum(1)	1,274,410		
Year to date 1963:			
Daily average	1,706,812	1,219,826	2,281,405
Maximum(1)	2,627,885		* * *
Minimum(1)	1,130,725	• • •	
Commodity miles:			
Mcf. miles (thousands)	46,418,378		• •
Ton-miles (millions)	1,058	• •	e e
Line pack:			
Beginning of month (Mcf.)	6,166,508		
End of month (Mcf.)	6,356,978		• •
Operating revenues	(\$)16,050,435	(\$)14,600,436	(\$)23,107,136(2

⁽¹⁾ Non-coincident.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities Receipts and Disposition

September 1963

	Manufactured	Liquefied petroleum gases
	Mc	f.
Gas receipts	45,653	106,231
Deliveries to ultimate customers	46,205	88,038 - 221 782
ments and unaccounted for	- 773	17,632
Total disposition	45,653	106,231
Daily average sendout	1,540	2,935
Revenues	(\$)42,352	(\$)107,391

⁽²⁾ Interindustry revenues eliminated.

^{..} Figures not available.

^{...} Figures not appropriate or not applicable. r Revised figures.



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

September 1963

Customs port	Exports	Imports		
	Mcf.			
	91			
Cornwall, Ontario	140,456	-		
Ojibway, Ontario	-	807,181		
Emerson, Manitoba	4,651,912	7		
Coutts, Alberta	129	2,300		
Aden, Alberta	906,187			
Carway, Alberta	900,966			
Kingsgate, British Columbia	12,286,322	~		
Huntingdon, British Columbia	8,239,060	-		
Canada	27,125,032	809,481		