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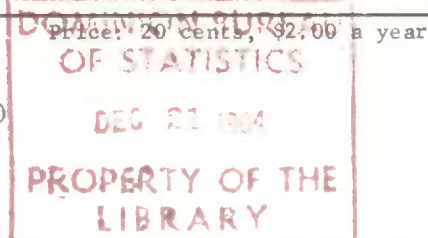
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# DOMINION BUREAU OF STATISTICS

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GAS UTILITIES  
(Transport and Distribution Systems)

SEPTEMBER 1964

During September 1964 field gathering systems and processing plants delivered to gas utilities 72,233,916 Mcf. of natural gas. The transport systems accounted for 56,257,547 Mcf. and the distribution systems 15,976,369 Mcf. Natural gas received from storage was 429,236 Mcf. The total supply of gas utilities amounted to 73,413,306 Mcf., 17.7 per cent higher than in September 1963. Of the total supply, 31,006,342 Mcf. were sold to ultimate customers in Canada, an increase of 19.6 per cent. Exports rose 14.0 per cent to 30,929,631 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 22,244,472 Mcf. of natural gas, an increase of 21.3 per cent. For the twelve-month period ended September 1964, exports totalled 384,770,066 Mcf., while net deliveries amounted to 873,348,338 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 52.7 billion commodity (Mcf.) miles during September compared with 46.4 billion last year. Ton-miles totalled 1,201 million for September 1964. The daily average deliveries of gas utilities amounted to 2.2 million Mcf.

Alberta natural gas utility receipts totalled 60.0 billion cubic feet; of this 17.3 per cent was sold to ultimate customers in Alberta, 16.3 per cent in Ontario, 4.6 per cent in Quebec, 2.5 per cent in Saskatchewan, 1.4 per cent in Manitoba and 1.2 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 \$26,275,506 and for manufactured and liquefied petroleum gases systems \$157,854, giving a combined Gas Utilities total of \$26,433,360.

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

September 1964

No.		New Brunswick	Quebec	Ontario
	<u>Receipts</u>		Mcf.	
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	6,513	-	775,425
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	6,513	-	775,425
4	Imports .....	-	-	741,105
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	6,513	-	1,516,530
7	Received from storage .....	-	-	375,722
9	Total supply of gas utilities (6 + 7) .....	6,513	-	1,892,252
	Transfers from:			
11	Other provinces .....	-	2,845,790	18,058,922
12	Distribution to transport (primary) .....	-	-	1,991,991
13	Other gas utilities .....	-	2,845,790	19,376,810
19	Total gross receipts (9 + 11 + 12 + 13) ...	6,513	5,691,580	41,319,384
	<u>Disposition</u>			
	Sales: <sup>r</sup>			
20	Residential .....	3,716	345,904	1,680,625
21	Industrial .....	-	2,315,608	8,052,278
22	Commercial .....	-	113,026	1,547,666
30	Total sales (20 + 21 + 22) .....	3,716	2,774,538	11,280,569
31	Exports .....	-	-	157,825
32	Other deliveries .....	-	-	13
33	Total net deliveries (30 + 31 + 32) .....	3,716	2,774,538	11,438,407
34	Delivered to storage .....	-	-	3,457,847
35	Line pack fluctuation .....	-	42	- 132,868
36	Gas used in system .....	-	993	992,637
37	Line losses and unaccounted for .....	2,797	70,217	1,349,368
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	6,513	2,845,790	17,105,391
	Transfers to:			
40	Other provinces .....	-	-	2,845,790
41	Distribution by transport (primary) .....	-	2,845,790	13,225,991
42	Other gas utilities .....	-	-	8,142,212
49	Total disposition (39 + 40 + 41 + 42) .....	6,513	5,691,580	41,319,384

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

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

September 1964

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	September <sup>r</sup> 1963	No.
					Canada	
Mcf.						
-	-	6,181,111	172,042	6,353,153	5,215,953	1a
-	-	41,251,261	8,653,133	49,904,394	42,689,595	1b
-	737,019	3,923,323	8,237	5,450,517	3,729,240	2a
-	1,940,572	8,559,420	25,860	10,525,852	9,908,327	2b
-	2,677,591	59,915,115	8,859,272	72,233,916	61,543,115	3
-	-	4,980	-	746,085	809,481	4
4,069	-	-	-	4,069	9,715	5
4,069	2,677,591	59,920,095	8,859,272	72,984,070	62,362,311	6
-	22,063	31,451	-	429,236	7,112	7
4,069	2,699,654	59,951,546	8,859,272	73,413,306	62,369,423	9
25,787,905	27,624,286	-	17,147,515	...	...	11
-	581,497	-	-	2,573,490	3,855,268	12
1,521,809	1,639,390	3,406,938	2,847,677	31,637,814	26,826,572	13
27,313,783	32,544,827	63,358,484	28,854,464	107,624,610	93,051,263	19
355,438	445,334	1,816,880	659,890	5,307,787	3,784,998	20
665,139	1,998,635	7,054,505	1,734,890	21,821,055	19,434,988	21
246,397	192,236	1,526,409	251,766	3,877,500	2,714,615	22
1,266,974	2,636,205	10,397,794	2,646,546	31,006,342	25,934,601	30
5,776,766	-	1,964,133	23,030,907	30,929,631	27,125,032	31
-	-	938,379	-	938,392	61,063	32
7,043,740	2,636,205	13,300,306	25,677,453	62,874,365	53,120,696	33
-	340,523	563,201	-	4,361,571	4,813,658	34
- 28,500	- 22,112	9,872	- 25,297	- 198,863	226,529	35
294,502	632,089	63,757	177,220	2,161,198	1,591,855	36
423,303	949,330	1,242,609	177,411	4,215,035	2,616,685	37
7,733,045	4,536,035	15,179,745	26,006,787	73,413,306	62,369,423	39
18,058,929	25,787,905	44,771,801	-	...	...	40
1,521,809	1,639,390	225,554	2,785,938	22,244,472	18,332,801	41
-	581,497	3,181,384	61,739	11,966,832	12,349,039	42
27,313,783	32,544,827	63,358,484	28,854,464	107,624,610	93,051,263	49

<sup>r</sup> 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
	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.  
 ... 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 <sup>F</sup>	
Mcf.									
5,362,513	4,554,284	5,508,523	6,353,153				58,597,674	52,031,398	1a
46,554,850	46,568,210	47,815,787	49,904,394				465,198,341	407,954,096	1b
3,387,048	2,828,550	3,148,243	5,450,517				52,328,565	50,637,452	2a
9,133,565	9,398,900	9,554,680	10,525,852				99,511,815	96,067,569	2b
64,437,976	63,349,944	66,027,233	72,233,916				675,636,395	606,690,515	3
826,445	852,674	858,444	746,085				7,821,075	6,732,866	4
2,506	5,381	60,558	4,069				177,598	175,857	5
65,266,927	64,207,999	66,946,235	72,984,070				683,635,068	613,599,238	6
125,708	117,570	120,999	429,236				16,955,971	17,645,868	7
65,392,635	64,325,569	67,067,234	73,413,306				700,591,039	631,245,106	9
...	...	...	...				...	...	11
2,126,914	1,271,656	1,367,885	2,573,490				16,368,688	37,626,337	12
97,865,728	29,440,164	31,188,372	31,637,814				321,020,434	276,539,954	13
95,385,277	95,037,389	99,623,491	107,624,610				1,037,980,161	945,411,397	19
6,042,230	3,742,788	3,402,101	5,307,787				115,871,363	107,685,079	20
22,338,870	20,272,216	20,905,570	21,821,055				188,217,102	171,348,632	21
3,165,502	2,220,583	2,297,817	3,877,500				57,965,109	50,891,391	22
31,546,602	26,235,587	26,605,488	31,006,342				362,053,574	329,925,102	30
29,084,975	28,321,484	29,048,126	30,929,631				286,420,354	261,256,548	31
530,446	551,636	399,257	938,392				4,578,322	557,878	32
61,162,023	55,108,707	56,052,871	62,874,365				653,052,250	591,739,528	33
4,097,801	7,183,678	5,978,310	4,361,571				31,949,886	30,994,433	34
- 42,240	- 220,936	478,399	- 198,863				- 11,491	82,375	35
2,085,107	1,968,125	1,700,557	2,161,198				20,367,074	15,133,527	36
- 1,910,056	285,995	2,857,097	4,215,035				- 4,766,680	- 6,704,757	37
65,392,635	64,325,569	67,067,234	73,413,306				700,591,039	631,245,106	39
...	...	...	...				...	...	40
19,896,518	18,136,148	19,989,549	22,244,472				230,018,384	204,703,079	41
10,096,124	12,575,672	12,566,708	11,966,832				107,370,738	109,463,212	42
95,385,277	95,037,389	99,623,491	107,624,610				1,037,980,161	945,411,397	49

<sup>F</sup> Revised figures.



TABLE 3. Receipts and Disposition of Natural Gas by Source

September 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 .....	-	-	-	6,181,111	172,042	...	6,353,153
1b	Processing plants .....	-	-	-	41,251,261	8,653,133	...	49,904,394
2	By distribution systems:							
2a	Fields .....	6,513	775,425	737,019	3,923,323	8,237	...	5,450,517
2b	Processing plants .....	-	-	1,940,572	8,559,420	25,860	...	10,525,852
3	Total (1 + 2) .....	6,513	775,425	2,677,591	59,915,115	8,859,272	...	72,233,916
4	Imports .....	...	...	...	...	...	746,085	746,085
5	Other receipts(1) .....	-	-	-	4,069	-	...	4,069
6	Total net receipts (3 + 4 + 5) .....	6,513	775,425	2,677,591	59,919,184	8,859,272	746,085	72,984,070
7	Received from storage .....	-	375,722	22,063	31,451	-	...	429,236
9	Total supply of gas utilities (6 + 7) .....	6,513	1,151,147	2,699,654	59,950,635	8,859,272	746,085	73,413,306
	<u>Disposition</u>							
	Sales:							
23	British Columbia .....	-	-	-	690,977	1,955,569	-	2,646,546
24	Alberta .....	-	-	-	10,392,814	-	4,980	10,397,794
25	Saskatchewan .....	-	-	1,121,846	1,514,359	-	-	2,636,205
26	Manitoba .....	-	-	447,664	819,310	-	-	1,266,974
27	Ontario .....	-	801,907	-	9,737,557	-	741,105	11,280,569
28	Quebec .....	-	-	-	2,774,538	-	-	2,774,538
29	New Brunswick .....	3,716	-	-	-	-	-	3,716
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	3,716	801,907	1,569,510	25,929,555	1,955,569	746,085	31,006,342
31	Exports .....	-	-	-	24,310,744	6,618,887	...	30,929,631
32	Other deliveries .....	-	-	-	938,392	-	...	938,392
33	Total net deliveries (30 + 31 + 32) .....	3,716	801,907	1,569,510	51,178,691	8,574,456	746,085	62,874,365
34	Delivered to storage .....	-	-	340,523	4,021,048	-	-	4,361,571
35	Line pack fluctuation .....	-	-	15,888	- 195,876	- 18,875	-	- 198,863
36	Gas used in system .....	-	375,456	44,634	1,625,732	115,376	-	2,161,198
37	Line losses and unaccounted for .....	2,797	- 26,216	729,099	3,321,040	188,315	-	4,215,035
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	6,513	1,151,147	2,699,654	59,950,635	8,859,272	746,085	73,413,306

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

TABLE 4. Operating Statistics: Natural Gas Utilities

September 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
September 1964:			
Daily average .....	1,772,470	1,033,545	2,241,198
Maximum(1) .....	2,195,346	...	...
Minimum(1) .....	1,428,932	...	...
Exports maximum(1) .....	1,165,347	...	1,165,347
September 1963 <sup>R</sup> :			
Daily average .....	1,515,261	864,487	1,931,145
Maximum(1) .....	1,819,835	...	...
Minimum(1) .....	1,329,799	...	...
Year to date 1964:			
Daily average .....	1,884,813	1,321,363	2,500,008
Maximum(1) .....	2,732,436	...	...
Minimum(1) .....	1,362,645	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	52,693,055	..	..
Ton-miles (millions) .....	1,201	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	6,850,793	..	..
End of month (Mcf.) .....	6,641,152	..	..
Operating revenues .....	(\$)17,640,834	(\$)17,417,959 <sup>R</sup>	(\$)26,275,506

- (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

September 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	56,208	128,381
Deliveries to ultimate customers .....	53,888	107,368
Line pack fluctuations .....	-	- 93
Gas used in system .....	93	1,691
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	2,227	19,415
Total disposition .....	56,208	128,381
Daily average sendout .....	1,796	3,579
Revenues .....	(\$)41,232	(\$)116,622



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

September 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	157,825	-
Ojibway, Ontario .....	-	741,105
Emerson, Manitoba .....	5,776,766	-
Coutts, Alberta .....	73	4,980
Aden, Alberta .....	1,063,979	-
Carway, Alberta .....	900,081	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,710,965	-
Other U.S.A. ....	2,974,606	-
Huntingdon, British Columbia .....	8,345,336	-
Canada - 1964 .....	30,929,631	746,085
1963 .....	27,125,032	809,481

(1) California, Nevada, Arizona.