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GAS UTILITIES

(Transport and Distribution Systems)

NOVEMBER 1963

During November 1963 gas utilities received from field gathering systems and processing plants 80,910,082 Mcf. of natural gas. The transport systems accounted for 6,187,700 Mcf. from fields and 52,106,765 Mcf. from processing plants, while the distribution systems received 15,068,377 Mcf. and 7,547,240 Mcf. respectively; natural gas received from storage was 2,329,767 Mcf. The total supply of gas utilities totalled 83,259,862 Mcf. and was 10.5 per cent higher than in November 1962. Of the total supply, 40,454,717 Mcf. were sold to ultimate customers in Canada, an increase of 8.2 per cent, while exports amounted to 33,071,691 Mcf., an increase of 7.9 per cent over 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 27,309,709 Mcf. to distribution systems, an increase of 16.8 per cent over last year. For the twelve-month period ended November 1963 exports totalled 355,593,308^F Mcf., while net deliveries amounted to 805,325,302^F Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 52.2 billion commodity (Mcf.) miles during November 1963 compared with 45.6 billion for 1962. Ton-miles totalled 1,189 million for November 1963. The daily average deliveries of gas utilities amounted to 2.5 million Mcf.

Utility receipts of Alberta natural gas totalled 67.6 billion cubic feet; of this, 23.0 per cent was sold to ultimate customers in Alberta, 16.0 per cent in Ontario, 3.9 per cent in Quebec, 3.0 per cent in Saskatchewan, 1.9 per cent in Manitoba and 1.5 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 \$33,557,049 and for manufactured and liquefied petroleum gases systems \$203,120, giving a combined Gas Utilities total of \$33,760,169.

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.

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. The effect of the change in concept is that previous years sales are overstated in Alberta and British Columbia, while other provinces are unchanged. Revised figures for previous years are being prepared and will be released in the December "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 a cyclical billing adjustment.

^F Revised figures.

February 1964
8506-503

Industry Division

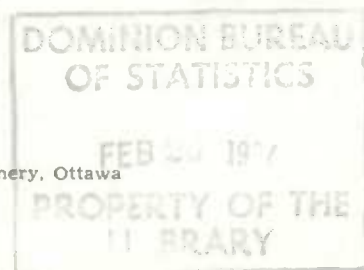


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

November 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	8,946	-	1,333,132
2b	Processing plants	-	-	-
3	Total (1 + 2)	8,946	-	1,333,132
4	Imports	-	-	-
5	Other receipts	-	-	-
6	Total net receipts (3 + 4 + 5)	8,946	-	1,333,132
7	Received from storage	-	-	1,902,345
9	Total supply of gas utilities (6 + 7)	8,946	-	3,235,477
	Transfers from:			
11	Other provinces	-	2,698,445	16,941,218
12	Distribution to transport (primary)	-	-	633,553
13	Other gas utilities	-	2,698,445	21,038,948
19	Total gross receipts (9 + 11 + 12 + 13) ...	8,946	5,396,890	41,849,196
	<u>Disposition</u>			
	Sales:			
20	Residential	4,370	745,629	4,236,653
21	Industrial	-	1,712,693	8,004,056
22	Commercial	1,450	167,672	1,532,953
30	Total sales (20 + 21 + 22)	5,820	2,625,994	13,773,662
31	Exports	-	-	191,443
32	Other deliveries	-	-	351
33	Total net deliveries (30 + 31 + 32)	5,820	2,625,994	13,965,456
34	Delivered to storage	-	-	184,903
35	Line pack fluctuation	-	8,103	98,199
36	Gas used in system	-	4,067	590,324
37	Line losses and unaccounted for	3,126	60,281	2,639,368
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,946	2,698,445	17,478,250
	Transfers to:			
40	Other provinces	-	-	2,698,445
41	Distribution by transport (primary)	-	2,698,445	15,577,246
42	Other gas utilities	-	-	6,095,255
49	Total disposition (39 + 40 + 41 + 42)	8,946	5,396,890	41,849,196

F Revised figures.

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

November 1963

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	November ^r 1962	No.
					Canada	
			Mcf.			
-	-	5,879,412	308,288	6,187,700	) 51,204,661	1a
-	-	42,852,634	9,254,131	52,106,765		1b
-	480,453	13,236,801	9,045	15,068,377	) 20,894,224	2a
-	2,182,374	5,305,190	59,676	7,547,240		2b
-	2,662,827	67,274,037	9,631,140	80,910,082	72,098,885	3
-	-	9,773	-	9,773	7,536	4
2,028	-	8,212	-	10,240	-	5
2,028	2,662,827	67,292,022	9,631,140	80,930,095	72,106,421	6
-	78,794	348,628	-	2,329,767	3,262,376	7
2,028	2,741,621	67,640,650	9,631,140	83,259,862	75,368,797	9
25,516,870	27,710,527	-	19,379,014	...	...	11
-	723,917	1,610,860	-	2,968,330	) 34,075,984	12
2,384,106	2,268,596	3,846,342	4,068,777	36,305,214		13
27,903,004	33,444,661	73,097,852	33,078,931	122,533,406	109,444,781	19
728,303	922,567	3,665,064	1,656,826	11,959,412	11,968,279	20
542,756	1,610,867	8,989,685	1,595,305	22,455,362	19,713,428	21
490,152	429,737	2,927,256	490,723	6,039,943	5,713,237	22
1,761,211	2,963,171	15,582,005	3,742,854	40,454,717	37,394,944	30
5,844,934	-	2,273,435	24,761,879	33,071,691	30,646,014	31
-	-	92,275	-	92,626	35,852	32
7,606,145	2,963,171	17,947,715	28,504,733	73,619,034	68,076,810	33
-	55,034	-	-	239,937	11,451	34
17,078	36,984	133,473	- 13,304	280,533	125,516	35
280,241	609,438	58,521	263,252	1,805,843	1,679,779	36
674,216	1,270,651	2,411,400	255,473	7,314,515	5,251,211	37
8,577,680	4,935,278	20,551,109	29,010,154	83,259,862	75,144,767	39
16,941,218	25,516,870	47,089,541	-	...	...	40
2,384,106	2,268,596	435,109	3,946,207	27,309,709	23,385,246	41
-	723,917	5,022,093	122,570	11,963,835	10,914,768	42
27,903,004	33,444,661	73,097,852	33,078,931	122,533,406	109,444,781	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	97,452,015
	<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	21,685,393
42	Other gas utilities	13,240,553	13,048,370	11,932,547	10,751,649	10,227,720
49	Total disposition (39 + 40 + 41 + 42)	143,033,102	122,601,859	120,371,975	103,373,824	97,452,015

* Revised figures.

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

June	July	August	September	October ^F	November	December	Year to date		No.
							1963 ^F	1962 ^F	
Mcf.									
3,545,883	3,917,797	4,473,601	4,720,859	5,022,913	6,187,700		53,996,629		1a
40,807,081	41,167,577	40,752,094	42,215,524	45,840,931	52,106,765		502,461,204	512,732,178	1b
7,666,185	6,927,079	7,467,238	8,209,324	10,655,546	15,068,377		127,297,631		2a
6,227,544	5,813,608	6,023,038	6,397,408	7,138,785	7,547,240		72,567,633	193,126,478	2b
58,246,693	57,826,061	58,715,971	61,543,115	68,658,175	80,910,082		756,323,097	705,858,656	3
828,262	867,400	859,313	809,481	68,025	9,773		6,810,664	5,467,130	4
4,042	10,081	9,846	9,715	9,362	10,240		195,459	36,846	5
59,078,997	58,703,542	59,585,130	62,362,311	68,735,562	80,930,095		763,329,220	711,362,632	6
39,489	-	2,264	7,112	294,597	2,329,767		20,270,232	19,838,473	7
59,118,486	58,703,542	59,587,394	62,369,423	69,030,159	83,259,862		783,599,452	731,201,105	9
...	...	...	...	...	...		...	...	11
4,400,065	5,105,874	4,764,739	3,855,268	4,140,394	2,968,330		44,735,061		12
34,171,023	24,539,783	25,111,177	26,826,572	29,446,417	36,305,214		342,201,984	329,091,719	13
7,689,574	88,349,199	89,463,310	93,051,263	102,616,970	122,533,406		1,170,536,497	1,060,292,824	19
5,602,252	3,477,050	3,035,356	3,784,998	6,031,555	11,959,412		125,676,046	120,251,622	20
19,736,318	19,157,302	19,932,618	19,878,287	21,687,858	22,455,362		218,579,169	198,460,356	21
2,786,605	1,886,996	1,869,999	2,714,615	3,481,096	6,039,943		60,412,430	57,231,724	22
28,125,175	24,521,348	24,837,973	26,377,900	31,200,509	40,454,717		404,667,645	375,943,702	30
26,118,308	26,871,216	26,295,124	27,125,032	29,289,379	33,071,691		323,617,618	310,836,626	31
52,586	50,623	55,297	61,063	79,197	92,626		729,701	495,210	32
54,296,069	51,443,187	51,188,394	53,563,995	60,569,085	73,619,034		729,014,964	687,275,538	33
5,491,294	6,290,164	5,316,723	4,370,359	3,286,415	239,937		31,523,069	25,821,245	34
- 159,822	- 266,566	231,302	226,529	- 102,523	280,533		260,385	- 61,065	35
1,475,841	1,521,333	1,531,913	1,591,855	1,703,544	1,805,843		18,642,914	14,930,672	36
- 1,984,896	- 284,576	1,319,062	2,616,685	3,573,638	7,314,515		4,158,120	2,789,888	37
59,118,486	58,703,542	59,587,394	62,369,423	69,030,159	83,259,862		783,599,452	730,756,278	39
...	...	...	...	...	...		...	...	40
16,947,007	16,385,216	16,936,705	18,332,801	20,682,808	27,309,709		252,695,596	210,485,931	41
11,624,081	13,260,441	12,939,211	12,349,039	12,904,003	11,963,835		134,241,449	119,050,615	42
7,689,574	88,349,199	89,463,310	93,051,263	102,616,970	122,533,406		1,170,536,497	1,060,292,824	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

November 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	-	-	-	5,879,412	308,288	-	6,187,700
1b	Processing plants	-	-	-	42,852,634	9,254,131	-	52,106,765
2	By distribution systems:							
2a	Fields	8,946	1,333,132	480,453	13,236,801	9,045	-	15,068,377
2b	Processing plants	-	-	2,182,374	5,305,190	59,676	-	7,547,240
3	Total (1 + 2)	8,946	1,333,132	2,662,827	67,274,037	9,631,140	-	80,910,082
4	Imports	-	-	-	-	-	9,773	9,773
5	Other receipts	-	-	-	10,240	-	-	10,240
6	Total net receipts (3 + 4 + 5)	8,946	1,333,132	2,662,827	67,284,277	9,631,140	9,773	80,930,095
7	Received from storage	-	1,902,345	78,794	348,628	-	-	2,329,767
9	Total supply of gas utilities (6 + 7)	8,946	3,235,477	2,741,621	67,632,905	9,631,140	9,773	83,259,862
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	1,038,179	2,704,675	-	3,742,854
24	Alberta	-	-	-	15,572,232	-	9,773	15,582,005
25	Saskatchewan	-	-	920,518	2,042,653	-	-	2,963,171
26	Manitoba	-	-	497,974	1,263,237	-	-	1,761,211
27	Ontario	-	2,941,397	-	10,832,265	-	-	13,773,662
28	Quebec	-	-	-	2,625,994	-	-	2,625,994
29	New Brunswick	5,820	-	-	-	-	-	5,820
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,820	2,941,397	1,418,492	33,374,560	2,704,675	9,773	40,454,717
31	Exports	-	-	-	26,525,018	6,546,673	-	33,071,691
32	Other deliveries	-	-	-	92,626	-	-	92,626
33	Total net deliveries (30 + 31 + 32)	5,820	2,941,397	1,418,492	59,992,204	9,251,348	9,773	73,619,034
34	Delivered to storage	-	-	55,034	184,903	-	-	239,937
35	Line pack fluctuation	-	-	14,213	267,621	- 1,301	-	280,533
36	Gas used in system	-	13,459	48,955	1,563,788	179,641	-	1,805,843
37	Line losses and unaccounted for	3,126	280,621	1,204,927	5,624,389	201,452	-	7,314,515
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,946	3,235,477	2,741,621	67,632,905	9,631,140	9,773	83,259,862

TABLE 4. Operating Statistics: Natural Gas Utilities

November 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
November 1963:			
Daily average	2,012,713	1,348,491	2,461,966
Maximum(1)	2,447,839	...	...
Minimum(1)	1,794,535	...	...
Exports maximum(1)	1,174,011	...	1,174,011
November 1962 ^r :			
Daily average	1,801,042	1,246,498	2,269,609
Maximum(1)	2,144,787	...	...
Minimum(1)	1,623,828	...	...
Year to date 1963:			
Daily average	1,725,489	1,211,580	2,277,060
Maximum(1)	2,627,885	...	...
Minimum(1)	1,130,725	...	...
Commodity miles:			
Mcf. miles (thousands)	52,158,749	..	..
Ton-miles (millions)	1,189	..	..
Line pack:			
Beginning of month (Mcf.)	6,251,104	..	..
End of month (Mcf.)	6,475,443	..	..
Operating revenues	(\$18,725,421	(\$24,904,430	(\$33,557,049(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

November 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	46,646	218,558
Deliveries to ultimate customers	46,175	197,134
Line pack fluctuations	-	643
Gas used in system	- 643	851
Metering difference, line losses, cyclical billing adjustments and unaccounted for	1,114	19,930
Total disposition	46,646	218,558
Daily average sendout	1,539	6,571
Revenues	(\$41,350	(\$161,770



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

November 1963

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	191,443	-
Ojibway, Ontario	-	-
Emerson, Manitoba	5,844,934	-
Coutts, Alberta	293	9,773
Aden, Alberta	1,321,693	-
Carway, Alberta	951,449	-
Kingsgate, British Columbia	15,915,941	-
Huntingdon, British Columbia	8,845,938	-
Canada	33,071,691	9,773