

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. 7, No. 8

Price: 20 cents, \$2.00 a year

GAS UTILITIES  
(Transport and Distribution Systems)

AUGUST 1965

DOMINION BUREAU  
OF STATISTICS

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During August 1965 field gathering systems and processing plants delivered to gas utilities 73,932,085 Mcf. of natural gas. The transport systems accounted for 61,120,334 Mcf. and the distribution systems 12,811,751 Mcf. Natural gas recovered from storage was 60,644 Mcf. The total supply of gas utilities amounted to 75,382,080 Mcf., 12.9 per cent higher than in August 1964. Of the total supply, 28,792,352 Mcf. were sold to ultimate customers in Canada, an increase of 8.2 per cent. Exports increased 10.3 per cent to 32,083,107 Mcf. from 29,079,575 Mcf. 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. For the twelve-month period ended August 1965 exports totalled 402,812,302 Mcf., while net deliveries amounted to 956,091,574 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 58.2 billion commodity (Mcf.) miles (1,328 million ton-miles) during August 1965 compared with 45.1 billion (1,028 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 2.3 million Mcf.

Alberta natural gas utility receipts totalled 61.3 billion cubic feet; of this, 14.7 per cent was sold to ultimate customers in Ontario, 14.3 per cent in Alberta, 3.5 per cent in Quebec, 2.8 per cent in Saskatchewan, 1.1 per cent in British Columbia and 0.6 per cent in Manitoba. Exports accounted for 41.6 per cent while the remaining 21.4 per cent was other deliveries, deliveries to storage, line pack changes, gas used in systems and line losses and unaccounted for. 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.

All gas volumes are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60°F; that is, without adjustments to a common B.T.U. base. Gas sales and exports containing 1,000 B.T.U.'s per cubic foot 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" included cyclical billing adjustments.

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

Industry Division

November 1965  
6511-509

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

August 1965

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	5,880	-	755,140
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	5,880	-	755,140
4	Imports .....	-	-	1,386,543
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	5,880	-	2,141,683
7	Received from storage .....	-	-	-
9	Total supply of gas utilities (6 + 7) .....	5,880	-	2,141,683
	Transfers from:			
11	Other provinces .....	-	2,255,454	20,962,940
12	Distribution to transport (primary) .....	-	-	-
13	Other gas utilities .....	-	2,255,454	24,738,142
19	Total gross receipts (9 + 11 + 12 + 13) ...	5,880	4,510,908	47,842,745
	<u>Disposition</u>			
	Sales:			
20	Residential .....	3,773	270,190	1,480,561
21	Industrial .....	-	1,790,855	8,356,577
22	Commercial .....	-	103,177	1,143,092
30	Total sales (20 + 21 + 22) .....	3,773	2,164,222	10,980,230
31	Exports .....	-	-	186,183
32	Other deliveries .....	-	-	-
33	Total net deliveries (30 + 31 + 32) .....	3,773	2,164,222	11,166,413
34	Delivered to storage .....	-	-	7,593,656
35	Line pack fluctuation .....	-	1,699	9,984
36	Gas used in system .....	-	991	1,292,781
37	Line losses and unaccounted for .....	2,107	88,542	786,335
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	5,880	2,255,454	20,849,169
	Transfers to:			
40	Other provinces .....	-	-	2,255,454
41	Distribution by transport (primary) .....	-	2,255,454	17,115,477
42	Other gas utilities .....	-	-	7,622,648
49	Total disposition (39 + 40 + 41 + 42) .....	5,880	4,510,908	47,842,745

(1) Includes peak shaving and enrichment.  
r Revised figures.

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

August 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	August 1964 <sup>r</sup>	No.
					Canada	
Mcf.						
-	-	6,426,640	369,909	6,796,549	5,508,523	1a
-	86,654	44,940,598	9,296,533	54,323,785	47,641,377	1b
-	572,883	2,351,793	20,586	3,706,282	3,148,243	2a
-	1,556,652	7,548,817	-	9,105,469	9,427,588	2b
-	2,216,189	61,267,848	9,687,028	73,932,085	65,725,731	3
-	-	2,046	-	1,388,589	858,480	4
762	-	-	-	762	60,558	5
762	2,216,189	61,269,894	9,687,028	75,321,436	66,644,769	6
-	35,183	25,461	-	60,644	120,999	7
762	2,251,372	61,295,355	9,687,028	75,382,080	66,765,768	9
28,908,993	31,362,818	-	17,320,572	...	...	11
-	632,003	-	-	632,003	1,367,885	12
930,178	1,671,964	2,604,259	3,517,260	35,717,237	31,188,372	13
29,839,933	35,918,157	63,899,614	30,524,860	111,731,320	99,322,025	19
188,348	271,914	934,910	449,236	3,598,932	3,402,101	20
546,335	2,149,456	7,013,104	2,794,412	22,650,739	20,905,570	21
138,377	142,906	832,012	183,117	2,542,681	2,297,817	22
873,060	2,564,276	8,780,026	3,426,765	28,792,352	26,605,488	30
6,373,167	-	2,299,513	23,224,244	32,083,107	29,079,575	31
-	-	185,302	-	185,302	160,510	32
7,246,227	2,564,276	11,264,841	26,651,009	61,060,761	55,845,573	33
-	573,689	567,525	-	8,734,870	5,978,310	34
2,340	699	42,283	28,765	85,770	478,399	35
593,384	1,229,114	59,106	213,097	3,388,473	1,700,557	36
104,864	337,419	678,210	114,729	2,112,206	2,762,929	37
7,946,815	4,705,197	12,611,965	27,007,600	75,382,080	66,765,768	39
20,962,940	28,908,993	48,683,390	-	...	...	40
930,178	1,671,964	247,537	3,468,507	25,689,117	19,989,549	41
-	632,003	2,356,722	48,753	10,660,123	12,566,708	42
29,839,933	35,918,157	63,899,614	30,524,860	111,731,320	99,322,025	49

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields .....	9,501,869	8,516,793	9,392,412	8,194,140	7,785,625
1b	Processing plants .....	66,414,486	59,104,199	65,873,223	57,618,477	54,913,948
2	By distribution systems:					
2a	Fields .....	11,599,671	9,923,069	10,077,510	7,415,713	5,936,996
2b	Processing plants .....	13,300,645	11,946,834	12,503,035	10,194,599	9,069,845
3	Total (1 + 2) .....	100,816,671	89,490,895	97,846,180	83,422,929	77,706,414
4	Imports .....	135,283	315,150	206,733	1,168,255	1,644,387
5	Other receipts(1) .....	108,455	150,362	91,024	3,354	3,291
6	Total net receipts (3 + 4 + 5) .....	101,060,409	89,956,407	98,143,937	84,594,538	79,354,092
7	Received from storage .....	9,325,261	8,080,872	5,932,988	1,942,698	42,491
9	Total supply of gas utilities (6 + 7) .....	110,385,670	98,037,279	104,076,925	86,537,236	79,396,583
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary) .....	1,326,126	1,345,539	1,375,707	774,032	580,001
13	Other gas utilities .....	56,220,795	48,080,279	52,134,143	40,405,393	37,861,007
19	Total gross receipts (9 + 11 + 12 + 13) ...	167,932,591	147,463,097	157,586,775	127,716,661	117,839,216
	<u>Disposition</u>					
	Sales:					
20	Residential .....	30,391,290	28,283,381	24,596,812	20,719,219	11,394,382
21	Industrial .....	22,012,020	20,359,709	23,045,019	23,908,698	23,051,208
22	Commercial .....	15,018,273	13,669,054	12,962,171	10,858,428	6,045,386
30	Total sales (20 + 21 + 22) .....	67,421,583	62,312,144	60,604,002	55,486,345	40,490,976
31	Exports .....	36,599,820	33,845,506	37,040,549	31,942,619	31,144,131
32	Other deliveries .....	246,532	212,825	207,937	177,239	165,231
33	Total net deliveries (30 + 31 + 32) .....	104,267,935	96,370,475	97,852,488	87,606,203	71,800,338
34	Delivered to storage .....	493,946	502,380	638,140	1,750,751	8,469,650
35	Line pack fluctuation .....	43,367	255,996	34,978	18,698	- 176,112
36	Gas used in system .....	4,221,592	3,438,398	4,434,614	3,819,516	3,680,474
37	Line losses and unaccounted for .....	1,358,830	- 2,529,970	1,116,705	- 6,657,932	- 4,377,767
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	110,385,670	98,037,279	104,076,925	86,537,236	79,396,583
	Transfers to:					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary) .....	44,305,816	38,417,169	40,398,962	25,546,203	28,292,207
42	Other gas utilities .....	13,241,105	11,008,649	13,110,888	15,633,222	10,150,255
49	Total disposition (39 + 40 + 41 + 42) .....	167,932,591	147,463,097	157,586,775	127,716,661	117,839,216

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

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965

June	July	August	September	October	November	December	Year to date		No.
							1965	1964 <sup>r</sup>	
Mcf.									
6,461,634	6,374,529	6,796,549					63,023,551	52,244,521	1a
52,344,351	51,807,600	54,323,785					462,400,069	413,740,702	1b
5,177,581	3,491,278	3,706,282					57,328,100	46,878,048	2a
8,096,332	8,285,632	9,105,469					82,502,391	88,581,605	2b
72,079,898	69,959,039	73,932,085					665,254,111	601,444,876	3
1,289,500	1,395,736	1,388,589					7,543,633	7,075,947	4
1,233	548	762					359,029	173,529	5
73,370,631	71,355,323	75,321,436					673,156,773	608,694,352	6
119,657	48,165	60,644					25,552,776	16,526,735	7
73,490,288	71,403,488	75,382,080					698,709,549	625,221,087	9
...	...	...					...	...	11
535,949	589,442	632,003					7,159,739	13,795,198	12
33,465,957	34,692,241	35,717,237					338,577,737	289,382,620	13
107,492,194	106,685,171	111,731,320					1,044,447,025	928,398,905	19
6,702,356	4,205,236	3,598,932					129,891,608	110,563,576	20
23,073,265	21,689,531	22,650,739					179,790,189	166,396,047	21
3,754,341	2,831,786	2,542,681					67,682,120	54,087,609	22
33,529,962	28,726,553	28,792,352					377,363,917	331,047,232	30
32,546,331	30,910,360	32,083,107					266,112,423	255,539,550	31
188,888	169,046	185,302					1,553,000	1,795,526	32
66,265,181	59,805,959	61,060,761					645,029,340	588,382,308	33
6,447,425	9,020,808	8,734,870					36,057,970	27,588,315	34
- 315,085	- 44,961	85,770					- 97,349	187,372	35
2,993,666	3,237,199	3,388,473					29,213,932	18,205,876	36
- 1,900,899	- 615,517	2,112,206					- 11,494,344	- 9,142,784	37
73,490,288	71,403,488	75,382,080					698,709,549	625,221,087	39
...	...	...					...	...	40
23,808,795	24,178,548	25,689,117					250,636,977	207,773,912	41
10,193,111	11,103,135	10,660,123					95,100,499	95,403,906	42
107,492,194	106,685,171	111,731,320					1,044,447,025	928,398,905	49

<sup>r</sup> Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

August 1965

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.							
	<u>Receipts</u>								
1	By transport systems:								
1a	Fields .....	-	-	-	6,426,640	369,909	...	6,796,549	
1b	Processing plants .....	-	-	86,654	44,940,598	9,296,533	...	54,323,785	
2	By distribution systems:								
2a	Fields .....	5,880	755,140	572,883	2,351,793	20,586	...	3,706,282	
2b	Processing plants .....	-	-	1,556,652	7,548,817	-	...	9,105,469	
3	Total (1 + 2) .....	5,880	755,140	2,216,189	61,267,848	9,687,028	...	73,932,085	
4	Imports .....	...	...	...	...	...	1,388,589	1,388,589	
5	Other receipts(1) .....	-	-	-	762	-	...	762	
6	Total net receipts (3 + 4 + 5) .....	5,880	755,140	2,216,189	61,268,610	9,687,028	1,388,589	75,321,436	
7	Received from storage .....	-	-	35,183	25,461	-	...	60,644	
9	Total supply of gas utilities (6 + 7) .....	5,880	755,140	2,251,372	61,294,071	9,687,028	1,388,589	75,382,080	
	<u>Disposition</u>								
	Sales:								
23	British Columbia .....	-	-	-	652,106	2,774,659	-	3,426,765	
24	Alberta .....	-	-	-	8,777,980	-	2,046	8,780,026	
25	Saskatchewan .....	-	-	872,916	1,691,360	-	-	2,564,276	
26	Manitoba .....	-	-	488,548	384,512	-	-	873,060	
27	Ontario .....	-	599,625	-	8,994,062	-	1,386,543	10,980,230	
28	Quebec .....	-	-	-	2,164,222	-	-	2,164,222	
29	New Brunswick .....	3,773	-	-	-	-	-	3,773	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	3,773	599,625	1,361,464	22,664,242	2,774,659	1,388,589	28,792,352	
31	Exports .....	-	-	-	25,509,850	6,573,257	-	32,083,107	
32	Other deliveries .....	-	-	-	185,302	-	-	185,302	
33	Total net deliveries (30 + 31 + 32) .....	3,773	599,625	1,361,464	48,359,394	9,347,916	1,388,589	61,060,761	
34	Delivered to storage .....	-	-	573,689	8,161,181	-	-	8,734,870	
35	Line pack fluctuation .....	-	-	- 2,421	18,750	69,441	-	85,770	
36	Gas used in system .....	-	34,165	46,906	3,160,367	147,035	-	3,388,473	
37	Line losses and unaccounted for .....	2,107	121,350	271,734	1,594,379	122,636	-	2,112,206	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	5,880	755,140	2,251,372	61,294,071	9,687,028	1,388,589	75,382,080	

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.



TABLE 4. Operating Statistics: Natural Gas Utilities

August 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
<b>August 1965:</b>			
Daily average .....	1,863,620	928,786	2,251,472
Maximum(1) .....	2,038,982	...	...
Minimum(1) .....	1,605,570	...	...
Exports maximum(1) .....	1,174,281	...	1,174,281
<b>August 1964:</b>			
Daily average .....	1,582,875 <sup>F</sup>	858,242	1,994,319 <sup>F</sup>
Maximum(1) .....	1,987,423	...	...
Minimum(1) .....	1,476,578	...	...
<b>Year to date 1965:</b>			
Daily average .....	2,126,541	1,552,938	2,802,828
Maximum(1) .....	3,086,555	...	...
Minimum(1) .....	1,526,879	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	58,233,390	..	..
Ton-miles (millions) .....	1,328	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	7,145,897	..	..
End of month (Mcf.) .....	7,228,759	..	..
Operating revenues .....	..	(\$15,496,311	..

(1) Non-coincident.

<sup>F</sup> Revised figures.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

August 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	47,596	64,906
Deliveries to ultimate customers .....	41,492	45,235
Line pack fluctuations .....	-	- 93
Gas used in system .....	91	453
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	6,013	19,311
Total disposition .....	47,596	64,906
Daily average sendout .....	1,338	1,459
Revenues .....	(\$28,681	(\$103,646



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

August 1965

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	186,183	-
Niagara Falls .....	-	-
Ojibway, Ontario .....	-	1,386,543
Emerson, Manitoba .....	6,373,167	-
Coutts, Alberta .....	133	2,046
Aden, Alberta .....	1,363,130	-
Carway, Alberta .....	936,250	-
Kingsgate, British Columbia - U.S.A. District V South(1)	12,265,406	-
Other U.S.A. ....	3,026,360	-
Huntingdon, British Columbia .....	7,932,478	-
Canada - 1965 .....	32,083,107	1,388,589
1964 .....	29,079,575	858,480 <sup>x</sup>

(1) California, Nevada, Arizona.  
<sup>x</sup> Revised figure.