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Gas Utilities
(Transport and Distribution Systems)

MAY 1966

During May 1966 field gathering systems and processing plants delivered to gas utilities 85,363,595 Mcf. of natural gas. The transport systems accounted for 69,142,025 Mcf. and the distribution systems 16,221,570 Mcf. Natural gas recovered from storage was 288,631 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume 000's Mcf.	Per cent of total supply	Per cent increase over May 1965	Revenue \$'000	Per cent of total revenue
Ultimate customers	19,753	55.5	22.9	32,246	78.2
Exports	34,966	39.0	11.2	9,002	21.8
Losses, deliveries to storage, cyclical billing adjustments, etc.	4,944	5.5	...	...	...
Totals	89,663	100.0	11.3	41,248	100.0

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas amounted to 65.6 billion commodity (Mcf) miles (1,496 million ton miles) during May 1966 compared with 61.1 billion (1,394 million ton miles) last year. The daily average deliveries of gas utilities amounted to 2.9 million Mcf.

Alberta natural gas utilities receipts totalled 70.4 billion cubic feet; of this 18.9 per cent was sold to ultimate customers in Alberta, 21.0 per cent in Ontario, 3.6 per cent in Saskatchewan, 3.4 per cent in Quebec, 3.2 per cent in Manitoba and 1.5 per cent in British Columbia. Exports accounted for 39.6 per cent while the remaining 8.8 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 storage is considered as having originated in the province where the storage is located and gas delivered to storage as a terminal delivery by the originating province.

There was an overall increase in distributor sales and revenues during May 1966 compared to the same month for the previous year. Details are contained in the following table.

Sales category	Sales 000's Mcf.	Per cent of total sales	Per cent increase over May 1965	Revenue \$'000	Per cent of sales revenue	Number of customers '000
Residential	14,298	28.7	25.5	15,455	47.9	1,441
Industrial	26,767	53.8	16.1	10,073	31.2	24
Commercial	8,688	17.5	43.7	6,718	20.9	121
Totals	49,753	100.0	22.9	32,246	100.0	1,586

All gas volumes in Tables 1-7 and Table 11 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, exports and imports containing 1,000 B.T.U.'s per cubic foot are given separately in Tables 8-10.

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 No. 26-006 gives a comprehensive review of the Supply and Disposition of Natural Gas.

Industry Division

August 1966
6503-509

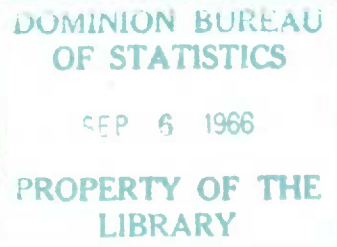


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

May 1966

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	7,492	-	1,194,668
2b	Processing plants	-	-	-
3	Total (1 + 2)	7,492	-	1,194,668
4	Imports	-	-	4,006,802
5	Other receipts (1)	-	-	-
6	Total net receipts (3 + 4 + 5)	7,492	-	5,201,470
7	Received from storage	-	-	240,741
9	Total supply of gas utilities (6 + 7)	7,492	-	5,442,211
	Transfers from:			
11	Other provinces	-	2,497,168	23,065,209
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	2,477,504	28,001,207
19	Total gross receipts (9 + 11 + 12 + 13) ...	7,492	4,974,672	56,508,627
	<u>Disposition</u>			
	Sales:			
20	Residential	3,694	608,602	6,637,608
21	Industrial	-	1,578,582	10,376,458
22	Commercial	1,397	190,597	3,477,847
30	Total sales (20 + 21 + 22)	5,091	2,377,781	20,491,913
31	Exports	-	19,664	265,088
32	Other deliveries	-	-	592
33	Total net deliveries (30 + 31 + 32)	5,091	2,397,445	20,757,593
34	Delivered to storage	-	-	5,141,896
35	Line pack fluctuation	-	1,091	- 5,207
36	Gas used in system	50	3,640	2,117,321
37	Line losses and unaccounted for	2,351	94,992	- 2,001,351
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,492	2,497,168	26,010,252
	Transfers to:			
40	Other provinces	-	-	2,497,168
41	Distribution by transport (primary)	-	2,477,504	20,511,719
42	Other gas utilities	-	-	7,489,488
49	Total disposition (39 + 40 + 41 + 42)	7,492	4,974,672	56,508,627

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	10,462,945	9,199,677	8,796,207	6,940,111	7,397,472
1b	Processing plants	73,537,156	64,527,919	69,172,869	63,325,361	61,744,553
2	By distribution systems:					
2a	Fields	15,425,563	10,866,000	11,156,653	9,455,473	6,230,353
2b	Processing plants	12,687,509	10,993,992	11,315,242	10,441,356	9,991,217
3	Total (1 + 2)	112,113,173	95,587,588	100,440,971	90,162,301	85,363,595
4	Imports	3,219,680	2,861,093	3,041,015	3,917,293	4,011,532
5	Other receipts(1)	2,357	- 564	1,001	- 1,960	- 313
6	Total net receipts (3 + 4 + 5)	115,335,210	98,448,117	103,482,987	94,077,634	89,374,814
7	Received from storage	9,757,678	6,568,074	3,027,128	1,037,720	288,631
9	Total supply of gas utilities (6 + 7)	125,092,888	105,016,191	106,510,115	95,115,354	89,663,445
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary)	1,239,865	667,774	614,077	552,919	1,004,321
13	Other gas utilities	58,643,485	49,635,064	51,555,605	45,708,482	43,677,298
19	Total gross receipts (9 + 11 + 12 + 13)	184,976,238	155,319,029	158,679,797	141,376,755	134,345,064
	<u>Disposition</u>					
	Sales:					
20	Residential	30,900,098	30,127,488	24,823,276	19,927,158	14,297,943
21	Industrial	26,694,952	25,119,783	28,100,115	26,663,822	26,766,715
22	Commercial	16,511,102	15,985,229	13,556,267	11,151,731	8,688,712
30	Total sales (20 + 21 + 22)	74,106,152	71,232,500	66,479,658	57,742,711	49,753,370
31	Exports	38,644,552	34,761,484	38,020,917	34,604,102	34,965,898
32	Other deliveries	258,781	266,370	265,730	230,378	182,508
33	Total net deliveries (30 + 31 + 32)	113,009,485	106,260,354	104,766,305	92,577,191	84,901,776
34	Delivered to storage	419,697	813,407	- 197,114	2,974,437	6,112,931
35	Line pack fluctuation	96,608	- 62,730	61,210	- 158,166	- 52,916
36	Gas used in system	4,998,364	4,409,579	4,441,104	4,082,791	4,208,036
37	Line losses and unaccounted for	6,568,734	- 6,404,419	- 2,561,390	- 4,360,899	- 5,506,382
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	125,092,888	105,016,191	106,510,115	95,115,354	89,663,445
	Transfers to:					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary)	43,778,424	37,511,726	39,030,411	35,065,430	33,303,546
42	Other gas utilities	16,104,926	12,791,112	13,139,271	11,195,971	11,378,073
49	Total disposition (39 + 40 + 41 + 42)	184,976,238	155,319,029	158,679,797	141,376,755	134,345,064

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

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

June	July	August	September	October	November	December	Year to date		No.
							1966	1965 ^x	
				Mcf.					
							42,796,412	43,394,220	1a
							332,307,858	303,863,578	1b
							53,134,042	44,957,753	2a
							55,429,316	57,014,961	2b
							483,667,628	449,230,512	3
							17,050,613	3,469,808	4
							521	356,486	5
							500,718,762	453,056,806	6
							20,679,231	25,379,889	7
							521,397,993	478,436,695	9
							4,078,956	5,402,345	11
							249,219,934	234,702,302	12
							774,696,883	718,541,342	13
							120,075,963	115,385,084	20
							133,345,387	112,376,654	21
							65,893,041	58,553,312	22
							319,314,391	286,315,050	30
							180,996,953	170,572,625	31
							1,203,767	1,009,764	32
							501,515,111	457,897,439	33
							10,123,358	11,854,867	34
							- 115,994	176,927	35
							22,139,874	19,579,638	36
							- 12,264,356	11,072,176	37
							521,397,993	478,436,695	39
							188,689,537	176,960,517	40
							64,609,353	63,144,130	41
							774,696,883	718,541,342	42
									49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

May 1966

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.							
	<u>Receipts</u>								
1	By transport systems:								
1a	Fields	-	-	-	7,160,496	236,976	...	7,397,472	
1b	Processing plants	-	-	384,284	50,401,536	10,958,733	...	61,744,553	
2	By distribution systems:								
2a	Fields	7,492	1,194,668	775,007	4,253,186	-	...	6,230,353	
2b	Processing plants	-	-	1,368,367	8,580,409	42,441	...	9,991,217	
3	Total (1 + 2)	7,492	1,194,668	2,527,658	70,395,627	11,238,150	...	85,363,595	
4	Imports .....	...	...	...	...	...	4,011,532	4,011,532
5	Other receipts(1)	-	-	-	- 313	-	...	- 313	
6	Total net receipts (3 + 4 + 5)	7,492	1,194,668	2,527,658	70,395,314	11,238,150	4,011,532	89,374,814	
7	Received from storage	-	240,741	27,926	19,964	-	...	288,631	
9	Total supply of gas utilities (6 + 7)	7,492	1,435,409	2,555,584	70,415,278	11,238,150	4,011,532	89,663,445	
	<u>Disposition</u>								
	Sales:								
23	British Columbia	-	-	-	1,053,787	4,268,750	-	5,322,537	
24	Alberta	-	-	-	13,337,087	-	4,730	13,341,817	
25	Saskatchewan	-	-	2,686,448	2,529,783	-	-	5,216,231	
26	Manitoba	-	-	726,761	2,271,239	-	-	2,998,000	
27	Ontario	-	1,727,219	-	14,757,892	-	4,006,802	20,491,913	
28	Quebec	-	-	-	2,377,781	-	-	2,377,781	
29	New Brunswick	5,091	-	-	-	-	-	5,091	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,091	1,727,219	3,413,209	36,327,569	4,268,750	4,011,532	49,753,370	
31	Exports	-	-	-	27,911,652	7,054,246	-	34,965,898	
32	Other deliveries	-	-	-	182,508	-	-	182,508	
33	Total net deliveries (30 + 31 + 32)	5,091	1,727,219	3,413,209	64,421,729	11,322,996	4,011,532	84,901,776	
34	Delivered to storage	-	-	383,929	5,729,002	-	-	6,112,931	
35	Line pack fluctuation	-	-	5,438	- 54,739	- 3,615	-	- 52,916	
36	Gas used in system	50	38,430	98,089	3,856,367	215,100	-	4,208,036	
37	Line losses and unaccounted for	2,351	- 330,240	- 1,345,081	- 3,537,081	- 296,331	-	- 5,506,382	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,492	1,435,409	2,555,584	70,415,278	11,238,150	4,011,532	89,663,445	

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

TABLE 4. Operating Statistics: Natural Gas Utilities

May 1966

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
May 1966:			
Daily average	2,202,240	1,604,947	2,935,958
Maximum(1)	2,502,311	...	...
Minimum(1)	1,824,936	...	...
Exports maximum(1)	1,237,884	...	1,237,884
May 1965:			
Daily average	1,917,306	1,290,031	2,573,225
Maximum(1)	2,161,398	...	...
Minimum(1)	1,161,679	...	...
Year to date 1966:			
Daily average	2,448,254	2,114,664	3,388,334
Maximum(1)	2,834,533	...	...
Minimum(1)	1,824,936	...	...
Commodity miles:			
Mcf. miles (thousands)	65,594,388	..	..
Ton-miles (millions)	1,496	..	..
Line pack:			
Beginning of month (Mcf.)	7,798,052	..	..
End of month (Mcf.)	7,750,144	..	..
Operating revenues .....	..	(\$)32,246,278(2)	..

(1) Non-coincident.

(2) Estimated figures.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

May 1966

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	66,785	88,516
Deliveries to ultimate customers	72,650	80,910
Line pack fluctuations	-	- 2,017
Gas used in system	2,011	928
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 7,876	8,695
Total disposition	66,785	88,516
Daily average sendout	2,154	2,855
Revenues	(\$)49,801	(\$)134,691(1)

(1) Estimated figures.

TABLE 6. Sales of Natural Gas

No.		May 1966			
		Customers		Gas sold	
		Space heating(1)	Total		
	No.		Mcf.	Revenue	
				\$	
Residential:					
1	New Brunswick	100	2,073	3,694	12,795
2	Quebec	83,153	202,354	608,602	1,379,157
3	Ontario	463,415	639,570	6,637,608	8,113,976
4	Manitoba	86,394	89,429	1,133,420	1,039,307
5	Saskatchewan	97,853	101,895	1,544,820	1,176,686
6	Alberta	229,600	236,319	3,185,762	1,865,524
7	British Columbia	147,411	168,960	1,184,037	1,867,226(1)
8	Canada	1,107,926	1,440,600	14,297,943	15,454,671
Industrial:					
9	New Brunswick	-	-	-	-
10	Quebec		2,364	1,578,582	845,923
11	Ontario		6,825	10,376,458	5,565,315
12	Manitoba		278	1,025,359	317,329
13	Saskatchewan		553	2,721,282	508,895
14	Alberta		555	7,676,941	1,419,339
15	British Columbia		238	3,388,093	1,416,223(1)
16	Canada		24,357	26,766,715	10,073,024
17	Firm		23,849	20,096,254	7,498,664
18	Interruptible		508	6,670,461	2,574,360
Commercial:					
19	New Brunswick		52	1,397	3,041
20	Quebec		9,806	190,597	280,926
21	Ontario		54,082	3,477,847	3,249,348
22	Manitoba		7,992	839,221	609,577
23	Saskatchewan		14,097	950,129	663,789
24	Alberta		26,285	2,479,114	989,652
25	British Columbia		22,311	750,407	922,250(1)
26	Canada		121,081	8,688,712	6,718,583
Total sales:					
27	New Brunswick		2,125	5,091	15,836
28	Quebec		214,524	2,377,781	2,506,006
29	Ontario		700,477	20,491,913	16,928,639
30	Manitoba		97,699	2,998,000	1,966,213
31	Saskatchewan		116,545	5,216,231	2,349,370
32	Alberta		263,159	13,341,817	4,274,515
33	British Columbia		191,509	5,322,537	4,205,699(1)
34	Canada		1,586,038	49,753,370	32,246,278

(1) Estimated figures.

TABLE 7. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas

No.		May 1966		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue(1)
	No.	Mcf.	\$	
1	Domestic	14,113	49,863	85,714
2	Industrial	38	583	600
3	Commercial	2,470	30,464	48,377
4	Totals	16,621	80,910	134,691

(1) Estimated figures.

TABLE 6. Sales of Natural Gas

May 1966		May 1965 ^r				No.
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	
		Space heating No.	Total			
1.78	3.46	100	2,283	4,594	15,096	1
3.01	2.27	80,126	206,456	420,782	989,728	2
10.38	1.22	465,943	615,380	5,094,769	6,413,447	3
12.67	0.92	77,941	81,209	761,081	727,676	4
15.16	0.76	86,590	94,046	1,298,603	1,010,687	5
13.48	0.59	222,214	229,249	2,896,372	1,721,824	6
7.01	1.58	135,997	158,193	918,181	1,447,834	7
9.92	1.08	1,068,911	1,386,816	11,394,382	12,326,292	8
-	-	-	-	-	-	9
668	0.54	-	2,334	1,361,761	703,441	10
1,520	0.54	-	6,529	8,892,370	4,684,740	11
3,688	0.31	-	243	587,589	192,954	12
4,921	0.19	-	543	2,965,440	679,822	13
13,832	0.18	-	607	6,988,231	1,252,069	14
14,236	0.42	-	815	2,255,817	942,739	15
10,989	0.38	-	11,071	23,051,208	8,455,765	16
843	0.37	-	10,636	18,343,101	6,656,773	17
13,131	0.39	-	435	4,708,107	1,798,992	18
26.9	2.18	-	-	-	-	19
19.4	1.47	-	9,734	125,037	184,413	20
64.3	0.93	-	50,292	2,101,249	2,087,417	21
105.0	0.73	-	7,189	561,020	416,248	22
57.4	0.70	-	12,471	672,439	384,671	23
94.3	0.40	-	25,318	2,182,630	868,308	24
33.6	1.23	-	20,485	403,011	495,338	25
71.8	0.77	-	125,489	6,045,386	4,436,395	26
2.4	3.11	-	2,283	4,594	15,096	27
11.1	1.05	-	218,524	1,907,580	1,877,582	28
29.3	0.83	-	672,201	16,088,388	13,185,604	29
30.7	0.66	-	88,641	1,909,690	1,336,878	30
44.8	0.45	-	107,060	4,936,482	2,075,180	31
50.7	0.32	-	255,174	12,067,233	3,842,201	32
27.8	0.79	-	179,493	3,577,009	2,885,911	33
31.4	0.65	-	1,523,376	40,490,976	25,218,452	34

^r Revised figures.

TABLE 7. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas

May 1966				No.
Customers		Manufactured gas		
No.		Gas sold Mcf.	Revenue \$	
2,260		13,932	16,590	1
28		44,549	16,667	2
599		14,169	16,544	3
2,887		72,650	49,801	4

TABLE 8. Sales of Natural Gas in Mcf. with a Heat Content of 1,000 B.T.U. per Cubic Foot

	May 1966			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	3,779	-	1,429	5,208
Quebec	614,539	1,592,765	192,417	2,399,721
Ontario	6,665,379	10,432,387	3,494,373	20,592,139
Manitoba	1,146,959	1,036,937	850,111	3,034,007
Saskatchewan	1,553,207	2,736,057	955,288	5,244,552
Alberta	3,431,217	8,210,192	2,677,228	14,318,637
British Columbia	1,251,283	3,576,262	793,273	5,620,818
Canada	14,666,363	27,584,600	8,964,119	51,215,082

TABLE 9. Exports and Imports of Natural Gas at 1,000 B.T.U.

	May 1966						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	19,841	266,413	6,776,094	2,371,837	26,874,603	36,308,788	188,052,511
Imports	-	4,026,810	-	4,730	-	4,031,540	17,183,724

TABLE 10. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas at 1,000 B.T.U.

	May 1966	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	72,696	35,722

TABLE 11. Exports and Imports to and from the United States

May 1966

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	19,664	-
Ontario - Cornwall	265,088	-
Niagara Falls	-	2,174,404
Ojibway	-	1,832,398
Total Ontario	265,088	4,006,802
Manitoba - Emerson	6,715,653	-
Alberta - Aden	1,533,459	-
Carway	869,430	-
Coutts	186	4,730
Total Alberta	2,403,065	4,730
British Columbia - Kingsgate - U.S.A. District V South(1)	13,466,691	-
Other U.S.A.	3,573,454	-
Huntingdon	8,522,283	-
Total British Columbia	25,562,428	-
Canada - 1966	34,965,898	4,011,532
1965	31,144,131	1,644,387
Year to date - 1966	180,996,953	17,050,613
1965	170,572,625	3,469,808
Value - 1966	9,002,051	1,770,113
1965	8,200,476	639,000

(1) California, Nevada, Arizona.

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