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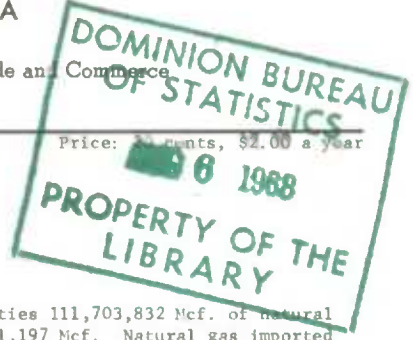
MONTHLY

d.v.l.

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce



Vol. 10, No. 4

GAS UTILITIES (Transport and Distribution Systems)

APRIL 1968

During April, field gathering systems and processing plants delivered to gas utilities 111,703,832 Mcf. of natural gas. The transport systems accounted for 88,322,635 Mcf. and the distribution systems 23,381,197 Mcf. Natural gas imported from the U.S.A. was 8,023,099 Mcf. and the volume recovered from storage was 1,699,586 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over April 1967	Revenue \$'000	% of total revenue
Ultimate customers	65,315	53.8	- 1.7	42,655	76.4
Exports	48,403	39.8	13.3	13,154	23.6
Other uses and adjustments	7,759	6.4	...	...	...
Totals	121,477	100.0	9.7	55,809	100.0

... Figures not appropriate or applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 75.4 billion commodity (Mcf.) miles (1,719 million ton miles) during April compared with 70.4 billion (Mcf.) miles (1,604 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.0 million Mcf.

Alberta natural gas utilities receipts totalled 88.9 billion cubic feet; of this 18.4 per cent was sold to ultimate customers in Alberta, 17.2 per cent in Ontario, 3.6 per cent in Quebec, 3.2 per cent in Saskatchewan, 0.9 per cent in British Columbia and 5.1 per cent in Manitoba. Exports accounted for 42.2 per cent and the remaining 9.4 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 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 decrease in distributor sales and revenues during April compared to the same month for the previous year. Details are contained in the following table.

Sales category	Sales '000 Mcf.	% of total sales	% increase over April 1967	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	19,905	30.5	- 8.1	20,831	48.8	1,548
Industrial	32,397	49.6	4.4	12,311	28.9	12
Commercial	13,013	19.9	- 5.3	9,513	22.3	149
Totals	65,315	100.0	- 1.7	42,655	100.0	1,709

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.

July 1968
6503-509

Manufacturing and Primary Industries Division

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

April 1968

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	8,766	10,454	1,025,515
2b	Processing plants	-	-	-
3	Total (1 + 2)	8,766	10,454	1,025,515
4	Imports	-	-	8,014,175
5	Other receipts(1)	-	-	55
6	Total net receipts (3 + 4 + 5)	8,766	10,454	9,039,745
7	Received from storage	-	-	1,538,092
9	Total supply of gas utilities (6 + 7)	8,766	10,454	10,577,837
	<u>Transfers from:</u>			
11	Other provinces	-	3,384,096	23,217,370
12	Distribution to transport (primary)	-	3,106,334	469,017
13	Other gas utilities	-	-	27,224,385
19	Total gross receipts (9 + 11 + 12 + 13) ...	8,766	6,500,884	61,488,609
	<u>Disposition</u>			
	<u>Sales:</u>			
20	Residential	3,693	1,376,578	8,523,601
21	Industrial	-	1,336,681	12,583,284
22	Commercial	2,266	517,407	5,023,543
30	Total sales (20 + 21 + 22)	5,959	3,230,666	26,130,428
31	Exports	-	125,064	389,320
32	Other deliveries	-	-	2,102
33	Total net deliveries (30 + 31 + 32)	5,959	3,355,730	26,521,850
34	Delivered to storage	-	-	4,199,014
35	Line pack fluctuation	-	759	- 21,117
36	Gas used in system	-	8,301	1,985,669
37	Line losses and unaccounted for	2,807	29,760	- 2,274,305
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,766	3,394,550	30,411,111
	<u>Transfers to:</u>			
40	Other provinces	-	-	3,384,096
41	Distribution by transport (primary)	-	3,106,334	23,878,779
42	Other gas utilities	-	-	3,814,623
49	Total disposition (39 + 40 + 41 + 42)	8,766	6,500,884	61,488,609

(1) Includes peak shaving and enrichment.

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

April 1968

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	April 1967	No.
					Canada	
			Mcf.			
-	-	6,517,371	269,049	6,786,420	6,263,379	1a
-	-	63,817,536	17,718,679	81,536,215	73,511,097	1b
-	3,872,788	7,378,460	-	12,295,983	10,504,251	2a
-	-	11,020,382	64,832	11,085,214	12,998,901	2b
-	3,872,788	88,733,749	18,052,560	111,703,832	103,277,628	3
-	-	8,924	-	8,023,099	5,602,094	4
48,339	-	1,203	894	50,491	917	5
48,339	3,872,788	88,743,876	18,053,454	119,777,422	108,880,639	6
-	90,867	70,627	-	1,699,586	1,890,668	7
48,339	3,963,655	88,814,503	18,053,454	121,477,008	110,771,307	9
47,096,335	40,630,594	-	25,571,717	...	...	11
-	2,796,571	1,504,618	-	7,876,540	6,211,372	12
3,807,142	2,914,366	4,989,242	7,479,033	46,414,168	49,915,357	13
48,861,816	50,305,186	95,308,363	51,104,204	175,767,716	166,898,036	19
1,635,202	1,979,243	4,455,562	1,931,534	19,905,413	21,656,133	20
1,680,918	4,542,000	8,154,241	4,099,531	32,396,655	30,728,607	21
1,214,658	1,135,555	3,779,367	1,340,319	13,013,115	14,047,669	22
4,530,778	7,656,798	16,389,170	7,371,384	65,315,183	66,432,409	30
9,479,761	-	3,029,960	35,378,626	48,402,731	42,706,590	31
-	-	257,057	-	259,159	64,200	32
14,010,539	7,656,798	19,676,187	42,750,010	113,977,073	109,203,199	33
-	456,309	130,633	-	4,785,956	2,629,153	34
- 17,060	- 44,348	- 21,561	- 122,940	- 226,267	- 92,885	35
477,325	929,576	658,358	899,045	4,958,274	4,586,542	36
- 633,500	- 1,410,421	2,168,575	99,056	- 2,018,028	- 5,554,702	37
13,837,304	7,587,914	22,612,192	43,625,171	121,477,008	110,771,307	39
23,217,370	37,006,335	66,202,311	-	...	...	40
3,807,142	2,914,366	58,270	7,327,110	41,092,001	35,610,617	41
-	2,796,571	6,435,590	151,923	13,198,707	20,516,112	42
48,861,816	50,305,186	95,308,363	51,104,204	175,767,716	166,898,036	49

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1968

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	8,488,859	7,473,927	6,497,664	6,786,420	
1b	Processing plants	92,137,690	87,505,605	90,636,294	81,536,215	
2	By distribution systems:					
2a	Fields	15,907,600	16,206,230	14,322,685	12,295,983	
2b	Processing plants	15,012,573	12,638,185	12,213,502	11,085,214	
3	Total (1 + 2)	131,546,722	123,823,947	123,670,145	111,703,832	
4	Imports	6,173,198	6,629,657	9,259,754	8,023,099	
5	Other receipts(1)	76,688	103,056	59,198	50,491	
6	Total net receipts (3 + 4 + 5)	137,796,608	130,556,660	132,989,097	119,777,422	
7	Received from storage	15,026,932	12,593,881	3,669,569	1,699,586	
9	Total supply of gas utilities (6 + 7)	152,823,540	143,150,541	136,658,666	121,477,008	
	Transfers from:					
11	Other provinces .....	...	...	...	...
12	Distribution to transport (primary)	8,795,580	8,311,240	4,811,010	7,876,540	
13	Other gas utilities	58,989,428	55,926,797	57,213,966	46,414,168	
19	Total gross receipts (9 + 11 + 12 + 13) ...	220,608,548	207,388,578	198,683,642	175,767,716	
	<u>Disposition</u>					
	Sales:					
20	Residential	36,331,980	32,452,548	27,842,494	19,905,413	
21	Industrial	32,916,942	33,059,807	33,774,234	32,396,655	
22	Commercial	22,129,036	19,574,100	16,879,171	13,013,115	
30	Total sales (20 + 21 + 22)	91,377,958	85,086,455	78,495,899	65,315,183	
31	Exports	52,092,912	49,270,614	52,521,009	48,402,731	
32	Other deliveries	123,294	1,074,591	1,187,280	259,159	
33	Total net deliveries (30 + 31 + 32)	143,594,164	135,431,660	132,204,188	113,977,073	
34	Delivered to storage	176,929	175,363	2,651,498	4,785,956	
35	Line pack fluctuation	547,540	- 57,692	738,663	- 226,267	
36	Gas used in system	6,386,066	5,834,189	4,762,417	4,958,274	
37	Line losses and unaccounted for	2,118,841	1,767,021	- 3,698,100	- 2,018,028	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	152,823,540	143,150,541	136,658,666	121,477,008	
	Transfers to:					
40	Other provinces .....	...	...	...	...
41	Distribution by transport (primary)	45,820,006	43,350,902	44,897,540	41,092,001	
42	Other gas utilities	21,965,002	20,887,135	17,127,436	13,198,707	
49	Total disposition (39 + 40 + 41 + 42)	220,608,548	207,388,578	198,683,642	175,767,716	

(1) Includes peak shaving and enrichment.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1968

June	July	August	September	October	November	December	Year to date		No.
							1968	1967	
				Mcf.					
							29,246,870	30,568,062	1a
							351,815,804	300,893,273	1b
							58,732,498	51,872,806	2a
							50,949,474	54,327,178	2b
							490,744,646	437,661,319	3
							30,085,708	18,779,093	4
							289,433	39,017	5
							521,119,787	456,479,429	6
							32,989,968	31,451,712	7
							554,109,755	487,931,141	9
							11
							29,794,370	23,828,561	12
							218,544,359	215,500,606	13
							802,448,484	727,260,308	19
							116,532,435	112,372,354	20
							132,147,638	118,720,753	21
							71,595,422	67,799,266	22
							320,275,495	298,892,373	30
							202,287,266	171,393,773	31
							2,644,324	492,721	32
							525,207,085	470,778,867	33
							7,789,746	4,823,648	34
							1,002,244	- 165,927	35
							21,940,946	19,178,903	36
							- 1,830,266	- 6,684,350	37
							554,109,755	487,931,141	39
							40
							175,160,449	155,323,479	41
							73,178,280	84,005,688	42
							802,448,484	727,260,308	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

April 1968

No.		New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.								
	<u>Receipts</u>									
1	By transport systems:									
1a	Fields	-	-	-	-	6,517,371	269,049	-	6,786,420	
1b	Processing plants	-	-	-	-	63,817,536	17,718,679	-	81,536,215	
2	By distribution systems:									
2a	Fields	8,766	10,454	1,025,515	3,872,788	7,378,460	-	-	12,295,983	
2b	Processing plants	-	-	-	-	11,020,382	64,832	-	11,085,214	
3	Total (1 + 2)	8,766	10,454	1,025,515	3,872,788	88,733,749	18,052,560	-	111,703,832	
4	Imports	-	-	-	-	-	-	8,023,099	8,023,099	
5	Other receipts(1)	-	-	55	-	49,542	894	-	50,491	
6	Total net receipts (3 + 4 + 5)	8,766	10,454	1,025,570	3,872,788	88,783,291	18,053,454	8,023,099	119,777,422	
7	Received from storage	-	-	1,538,092	90,867	70,627	-	-	1,699,586	
9	Total supply of gas utilities (6 + 7)	8,766	10,454	2,563,662	3,963,655	88,853,918	18,053,454	8,023,099	121,477,008	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	833,498	6,537,886	-	7,371,384	
24	Alberta	-	-	-	-	16,379,658	-	9,512	16,389,170	
25	Saskatchewan	-	-	-	4,839,122	2,817,676	-	-	7,656,798	
26	Manitoba	-	-	-	-	4,530,778	-	-	4,530,778	
27	Ontario	-	-	2,838,626	-	15,277,627	-	8,014,175	26,130,428	
28	Quebec	-	10,454	-	-	3,220,212	-	-	3,230,666	
29	New Brunswick	5,959	-	-	-	-	-	-	5,959	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,959	10,454	2,838,626	4,839,122	43,059,449	6,537,886	8,023,687	65,315,183	
31	Exports	-	-	-	-	37,510,300	10,892,431	-	48,402,731	
32	Other deliveries	-	-	-	-	259,159	-	-	259,159	
33	Total net deliveries (30 + 31 + 32)	5,959	10,454	2,838,626	4,839,122	80,828,908	17,430,317	8,023,687	113,977,073	
34	Delivered to storage	-	-	-	456,309	4,329,647	-	-	4,785,956	
35	Line pack fluctuation	-	-	-	29,578	- 132,930	- 122,915	-	- 226,267	
36	Gas used in system	-	-	26,438	140,908	4,090,179	700,749	-	4,958,274	
37	Line losses and unaccounted for	2,807	-	- 301,402	-1,502,262	- 261,886	45,303	- 588	- 2,018,028	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,766	10,454	2,563,662	3,963,655	88,853,918	18,053,454	8,023,099	121,477,008	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

April 1968

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
April 1968:			
Daily average	2,983,157	2,177,172	3,958,767
Maximum(1)	3,346,767	...	...
Minimum(1)	2,663,949	...	...
Exports maximum(1)	1,779,440	...	...
April 1967:			
Daily average	2,610,574	2,214,414	3,727,744
Maximum(1)	2,911,817	...	...
Minimum(1)	2,570,425	...	...
Year to date 1968			
Daily average	3,119,403	2,646,905	4,404,932
Maximum(1)	3,494,251	..	..
Minimum(1)	2,663,949	..	..
Commodity miles:			
Mcf. miles (thousands)	75,382,847	..	..
Ton-miles (millions)	1,719	..	..
Line pack:			
Beginning of month (Mcf.)	8,410,990	..	..
End of month (Mcf.)	8,156,485	..	..
Operating revenues	(\$)	42,655,448	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

April 1968

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	36,666	106,440
Deliveries to ultimate customers	33,226	107,801
Line pack fluctuations	-	59
Gas used in system	-	46
Metering difference, line losses, cyclical billing adjustments and unaccounted for	3,440	- 1,466
Total disposition	36,666	106,440
Daily average sendout	1,222	3,548
Revenues	(\$)	191,177

TABLE 6. Sales of Natural Gas

No.		April 1968			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
	Residential:				
1	New Brunswick	130	1,893	3,693	12,577
2	Quebec	94,311	203,426	1,376,578	2,241,796
3	Ontario	548,835	679,572	8,523,601	10,426,254
4	Manitoba	100,025	102,541	1,635,202	1,455,604
5	Saskatchewan	112,175	117,654	1,979,243	1,473,898
6	Alberta	249,697	252,373	4,455,562	2,408,411
7	British Columbia	169,866	190,466	1,931,534	2,812,305
8	Canada	1,275,039	1,547,925	19,905,413	20,830,845
	Industrial:				
9	New Brunswick	-	-	-	-
10	Quebec		2,241	1,336,681	419,460
11	Ontario		7,444	12,583,284	7,106,214
12	Manitoba		295	1,680,918	481,858
13	Saskatchewan		608	4,542,000	1,038,404
14	Alberta		563	8,154,241	1,557,992
15	British Columbia		274	4,099,531	1,706,783
16	Canada		11,425	32,396,655	12,310,711
17	Firm		10,258	20,832,108	8,625,581
18	Interruptible		1,167	11,564,547	3,685,130
	Commercial:				
19	New Brunswick		60	2,266	4,780
20	Quebec		10,215	517,407	627,675
21	Ontario		60,690	5,023,543	4,407,731
22	Manitoba		9,247	1,214,658	855,271
23	Saskatchewan		16,099	1,135,555	625,435
24	Alberta		28,279	3,779,367	1,442,883
25	British Columbia		24,619	1,340,319	1,550,108
26	Canada		149,209	13,013,115	9,513,892
	Total sales:				
27	New Brunswick		1,953	5,959	17,357
28	Quebec		215,882	3,230,666	3,288,931
29	Ontario		747,706	26,130,428	21,940,199
30	Manitoba		112,083	4,530,778	2,792,737
31	Saskatchewan		134,361	7,656,798	3,137,737
32	Alberta		281,215	16,389,170	5,409,291
33	British Columbia		215,359	7,371,384	6,069,196
34	Canada		1,708,559	65,315,183	42,655,448

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

No.		April 1968		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	13,883	63,234	129,923
2	Industrial	7	302	610
3	Commercial	2,549	44,265	60,644
4	Total	16,439	107,801	191,177

TABLE 6. Sales of Natural Gas

		April 1967					
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	No.	
		Space heating No.	Total				
2.0	3.41	100	1,980	4,274	14,053	1	
6.8	1.63	88,201	203,982	974,004	1,604,781	2	
12.5	1.22	503,595	657,511	9,278,143	11,209,952	3	
15.9	0.89	93,863	96,514	1,752,068	1,545,390	4	
16.8	0.74	104,775	109,101	2,349,185	1,644,148	5	
17.7	0.54	240,823	243,560	5,424,986	3,002,326	6	
10.1	1.46	158,008	178,488	1,873,473	2,713,518	7	
12.9	1.05	1,189,365	1,491,136	21,656,133	21,734,168	8	
-	-	-	-	-	-	9	
596	0.31	-	2,240	1,253,590	829,198	10	
1,690	0.56	-	7,137	11,843,985	6,761,294	11	
5,698	0.29	-	278	1,132,710	379,609	12	
7,470	0.23	-	571	3,702,422	936,374	13	
14,484	0.19	-	538	8,910,081	1,635,539	14	
14,962	0.41	-	259	4,197,327	1,720,226	15	
2,836	0.38	-	11,023	31,040,115	12,262,240	16	
			10,665	25,631,792	10,169,540	17	
			358	5,408,323	2,041,280	18	
37.8	2.11	-	59	2,271	5,011	19	
50.7	1.21	-	10,059	497,763	545,821	20	
82.8	0.88	-	57,160	4,933,397	4,592,731	21	
131.4	0.70	-	8,654	1,304,460	908,563	22	
70.5	0.55	-	14,881	1,356,129	723,310	23	
133.6	0.38	-	27,494	4,340,647	1,693,124	24	
54.4	1.12	-	23,605	1,301,494	1,473,870	25	
87.2	0.73	-	141,912	13,736,161	9,942,430	26	
3.1	2.91	-	2,039	6,545	19,064	27	
15.0	1.02	-	216,281	2,725,357	2,979,800	28	
34.9	0.84	-	721,808	26,055,525	22,563,977	29	
40.4	0.62	-	105,446	4,189,238	2,833,562	30	
57.0	0.41	-	124,553	7,407,736	3,303,832	31	
58.3	0.33	-	271,592	18,675,714	6,330,989	32	
34.2	0.82	-	202,352	7,372,294	5,907,614	33	
38.2	0.65	-	1,644,071	66,432,409	43,938,838	34	

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

April 1968				
Manufactured gas				
Customers	Gas sold	Revenue		No.
No.	Mcf.	\$		
1,736	6,999	8,742		1
21	15,365	6,744		2
507	10,862	12,424		3
2,264	33,226	27,910		4

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

	April 1968			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	4,456	-	2,734	7,190
Quebec	1,389,965	1,349,471	522,367	3,261,803
Ontario	8,849,024	13,516,242	5,506,445	27,871,711
Manitoba	1,650,600	1,691,876	1,225,968	4,568,444
Saskatchewan	1,989,989	4,566,660	1,141,720	7,698,369
Alberta	4,728,024	8,406,654	4,034,191	17,168,869
British Columbia	2,024,917	4,297,876	1,404,541	7,727,334
Canada	20,636,975	33,828,779	13,837,966	68,303,720

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

	April 1968						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	126,065	392,435	9,546,119	3,051,745	37,246,875	50,363,239	211,034,059
Imports	-	8,097,965	-	3,690	-	8,101,655	30,361,591

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

	April 1968	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	89,387	15,079

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

April 1968

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	125,064	-
Ontario - Cornwall	389,320	-
Niagara Falls	-	5,854,705
Ojibway	-	2,159,470
Total Ontario	389,320	8,014,175
Manitoba - Emerson	9,479,761	-
Alberta - Aden	1,525,293	-
Carway	1,504,642	-
Coutts	25	8,924
Total Alberta	3,029,960	8,924
British Columbia - Kingsgate - U.S.A. District V South(1)	19,905,925	-
Other U.S.A.	3,473,134	-
Huntingdon	11,999,567	-
Total British Columbia	35,378,626	-
Canada - 1968	48,402,731	8,023,099
1967	42,706,590	5,602,094
Year to date - 1968	202,287,266	30,085,708
1967	171,393,773	18,779,092
Value - 1968	13,153,800	3,667,093
1967	10,314,212	2,484,343

(1) California, Nevada, Arizona.

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