

CATALOGUE No.

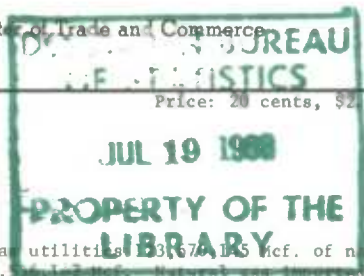
55-002

MONTHLY

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce



Vol. 10, No. 3

Price: 20 cents, \$2.00 a year

GAS UTILITIES (Transport and Distribution Systems)

MARCH 1968

During March field gathering systems and processing plants delivered to gas utilities 33,671,145 Mcf. of natural gas. The transport systems accounted for 97,133,958 Mcf. and the distribution systems 26,412,100 Mcf. Natural gas imported from the U.S.A. was 9,259,754 Mcf. and the volume recovered from storage was 3,669,569 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over March 1967	Revenue \$'000	% of total revenue
Ultimate customers	78,496	57.4	1.7	56,105	80.2
Exports	52,521	38.5	1.7	13,862	19.8
Other uses and adjustments	5,642	4.1	...	...	...
Totals	136,659	100.0	7.9	69,967	100.0

... Figures not appropriate or applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 80.9 billion commodity (Mcf.) miles (1,844 million ton miles) during March compared with 77.8 billion (Mcf.) miles (1,773 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.4 million Mcf.

Alberta natural gas utilities receipts totalled 99.0 billion cubic feet; of this 18.8 per cent was sold to ultimate customers in Alberta, 19.3 per cent in Ontario, 3.7 per cent in Quebec, 3.2 per cent in Saskatchewan, 1.0 per cent in British Columbia and 5.7 per cent in Manitoba. Exports accounted for 41.8 per cent and the remaining 6.5 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 March 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 March 1967	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	27,843	35.5	- 3.6	29,045	51.8	1,548
Industrial	33,774	43.0	8.0	14,111	25.1	11
Commercial	16,879	21.5	- 0.9	12,948	23.1	149
Totals	78,496	100.0	1.7	56,105	100.0	1,708

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.

Manufacturing and Primary Industries Division

June 1968
6503-509

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

March 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	13,504	12,982	1,418,183
2b	Processing plants	-	-	-
3	Total (1 + 2)	13,504	12,982	1,418,183
4	Imports	-	-	9,250,215
5	Other receipts(1)	-	-	40
6	Total net receipts (3 + 4 + 5)	13,504	12,982	10,668,438
7	Received from storage	-	-	3,154,171
9	Total supply of gas utilities (6 + 7)	13,504	12,982	13,822,609
	Transfers from:			
11	Other provinces	-	3,867,433	24,280,424
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	3,525,335	30,646,602
19	Total gross receipts (9 + 11 + 12 + 13) ...	13,504	7,405,750	68,749,635
	<u>Disposition</u>			
	Sales:			
20	Residential	4,416	1,399,512	13,760,748
21	Industrial	-	1,665,298	13,148,862
22	Commercial	2,847	608,607	7,142,819
30	Total sales (20 + 21 + 22)	7,263	3,673,417	34,052,429
31	Exports	-	137,970	395,606
32	Other deliveries	-	-	4,497
33	Total net deliveries (30 + 31 + 32)	7,263	3,811,387	34,452,532
34	Delivered to storage	-	-	2,255,593
35	Line pack fluctuation	-	1,034	- 5,537
36	Gas used in system	-	13,576	2,275,042
37	Line losses and unaccounted for	6,241	54,418	- 4,742,030
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	13,504	3,880,415	34,235,600
	Transfers to:			
40	Other provinces	-	-	3,867,433
41	Distribution by transport (primary)	-	3,525,335	24,845,248
42	Other gas utilities	-	-	5,801,354
49	Total disposition (39 + 40 + 41 + 42)	13,504	7,405,750	68,749,635

(1) Includes peak shaving and enrichment.

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

March 1968

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	March 1967	No.
					Canada	
			Mcf.			
-	-	6,204,726	292,938	6,497,664	8,250,295	1a
-	-	71,682,160	18,954,134	90,636,294	78,413,384	1b
-	4,422,273	8,455,743	-	14,322,685	13,960,144	2a
-	-	12,122,179	91,323	12,213,502	14,048,494	2b
-	4,422,273	98,464,808	19,338,395	123,670,145	114,672,317	3
-	-	9,539	-	9,259,754	4,959,518	4
57,899	-	1,259	-	59,198	903	5
57,899	4,422,273	98,475,606	19,338,395	132,989,097	119,632,738	6
-	462,523	52,875	-	3,669,569	7,013,740	7
57,899	4,884,796	98,528,481	19,338,395	136,658,666	126,646,478	9
40,396,945	44,584,602	-	28,068,530	...	...	11
-	3,503,466	1,307,544	-	4,811,010	6,144,645	12
4,859,170	3,583,108	6,405,182	8,194,569	57,213,966	55,909,055	13
45,314,014	56,555,972	106,241,207	55,601,494	339,881,576	188,700,178	19
2,414,987	2,447,114	5,304,693	2,511,024	27,842,494	28,870,048	20
1,536,537	4,296,799	8,892,913	4,233,825	33,774,234	31,285,178	21
1,695,329	1,647,133	4,334,573	1,447,863	16,879,171	17,024,248	22
5,646,853	8,391,046	18,532,179	8,192,712	78,495,899	77,179,474	30
10,647,387	-	3,120,720	38,219,326	52,521,009	44,865,129	31
-	4,190	1,178,593	-	1,187,280	92,079	32
16,294,240	8,395,236	22,831,492	46,412,038	132,204,188	122,136,682	33
-	373,003	22,902	-	2,651,498	1,207,130	34
1,579	1,221	18,305	758,671	738,663	136,621	35
544,826	1,067,857	684,155	176,961	4,762,417	5,183,681	36
- 666,225	- 764,864	2,355,105	59,255	- 3,698,100	- 2,017,636	37
16,174,420	9,072,453	25,875,349	47,406,925	136,658,666	126,646,478	39
24,280,424	40,396,945	72,653,132	-	...	...	40
4,859,170	3,583,108	58,060	8,026,619	44,897,540	38,291,533	41
-	3,503,466	7,654,666	167,950	17,127,436	23,762,167	42
45,314,014	56,555,972	106,241,207	55,601,494	339,881,576	188,700,178	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		
1b	Processing plants	92,137,690	87,505,605	90,636,294		
2	By distribution systems:					
2a	Fields	15,907,600	16,206,230	14,322,685		
2b	Processing plants	15,012,573	12,638,185	12,213,502		
3	Total (1 + 2)	131,546,722	123,823,947	123,670,145		
4	Imports	6,173,198	6,629,657	9,259,754		
5	Other receipts(1)	76,688	103,056	59,198		
6	Total net receipts (3 + 4 + 5)	137,796,608	130,556,660	132,989,097		
7	Received from storage	15,026,932	12,593,881	3,669,569		
9	Total supply of gas utilities (6 + 7)	152,823,540	143,150,541	136,658,666		
	Transfers from:					
11	Other provinces .....	...	...	...
12	Distribution to transport (primary)	8,795,580	8,311,240	4,811,010		
13	Other gas utilities	58,989,428	55,926,797	57,213,966		
19	Total gross receipts (9 + 11 + 12 + 13) ...	220,608,548	207,388,578	198,683,642		
	<u>Disposition</u>					
	Sales:					
20	Residential	36,331,980	32,452,548	27,842,494		
21	Industrial	32,916,942	33,059,807	33,774,234		
22	Commercial	22,129,036	19,574,100	16,879,171		
30	Total sales (20 + 21 + 22)	91,377,958	85,086,455	78,495,899		
31	Exports	52,092,912	49,270,614	52,521,009		
32	Other deliveries	123,294	1,074,591	1,187,280		
33	Total net deliveries (30 + 31 + 32)	143,594,164	135,431,660	132,204,188		
34	Delivered to storage	176,929	175,363	2,651,498		
35	Line pack fluctuation	547,540	- 57,692	738,663		
36	Gas used in system	6,386,066	5,834,189	4,762,417		
37	Line losses and unaccounted for	2,118,841	1,767,021	- 3,698,100		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	152,823,540	143,150,541	136,658,666		
	Transfers to:					
40	Other provinces .....	...	...	...
41	Distribution by transport (primary)	45,820,006	43,350,902	44,897,540		
42	Other gas utilities	21,965,002	20,887,135	17,127,436		
49	Total disposition (39 + 40 + 41 + 42)	220,608,548	207,388,578	198,683,642		

(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.					
							22,460,450	24,304,683	1a
							270,279,589	227,382,176	1b
							46,436,515	41,368,555	2a
							39,864,260	41,328,277	2b
							379,040,814	334,383,691	3
							22,062,609	13,176,999	4
							238,942	38,100	5
							401,342,365	347,598,790	6
							31,290,382	29,561,044	7
							432,632,747	377,159,834	9
							21,917,830	17,617,189	11
							172,130,191	165,585,249	12
							626,680,768	560,362,272	13
							96,627,022	90,716,221	20
							99,750,983	87,992,146	21
							58,582,307	53,751,597	22
							254,960,312	232,459,964	30
							153,884,535	128,687,183	31
							2,385,165	428,521	32
							411,230,012	361,575,668	33
							3,003,790	2,194,495	34
							1,228,511	- 73,042	35
							16,982,672	14,592,361	36
							187,762	- 1,129,648	37
							432,632,747	377,159,834	39
							134,068,448	119,712,862	40
							59,979,573	63,489,576	41
							626,680,768	560,362,272	42
									49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

March 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	-	-	-	-	6,204,726	292,938	-	6,497,664	
1b	Processing plants	-	-	-	-	71,682,160	18,954,134	-	90,636,294	
2	By distribution systems:									
2a	Fields	13,504	12,982	1,418,183	4,422,273	8,455,743	-	-	14,322,685	
2b	Processing plants	-	-	-	-	12,122,179	91,323	-	12,213,502	
3	Total (1 + 2)	13,504	12,982	1,418,183	4,422,273	98,464,808	19,338,395	-	123,670,145	
4	Imports	-	-	-	-	-	-	9,259,754	9,259,754	
5	Other receipts(1)	-	-	40	-	59,158	-	-	59,198	
6	Total net receipts (3 + 4 + 5)	13,504	12,982	1,418,223	4,422,273	98,523,966	19,338,395	9,259,754	132,989,097	
7	Received from storage	-	-	3,154,171	462,523	52,875	-	-	3,669,569	
9	Total supply of gas utilities (6 + 7)	13,504	12,982	4,572,394	4,884,796	98,576,841	19,338,395	9,259,754	136,658,666	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	944,260	7,248,452	-	8,192,712	
24	Alberta	-	-	-	-	18,522,754	-	9,425	18,532,179	
25	Saskatchewan	-	-	-	5,246,919	3,144,127	-	-	8,391,046	
26	Manitoba	-	-	-	-	5,646,853	-	-	5,646,853	
27	Ontario	-	-	5,800,379	-	19,001,835	-	9,250,215	34,052,429	
28	Quebec	-	12,982	-	-	3,660,435	-	-	3,673,417	
29	New Brunswick	7,263	-	-	-	-	-	-	7,263	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	7,263	12,982	5,800,379	5,246,919	50,920,264	7,248,452	9,259,640	78,495,899	
31	Exports	-	-	-	-	41,208,506	11,312,503	-	52,521,009	
32	Other deliveries	-	-	-	-	1,183,090	-	-	1,183,090	
33	Total net deliveries (30 + 31 + 32)	7,263	12,982	5,800,379	5,246,919	93,311,860	18,560,955	9,259,640	132,199,998	
34	Delivered to storage	-	-	-	373,003	2,278,495	-	-	2,651,498	
35	Line pack fluctuation	-	-	-	- 5,620	- 17,714	761,997	-	738,663	
36	Gas used in system	-	-	33,276	167,440	4,607,673	- 45,972	-	4,762,417	
37	Line losses and unaccounted for	6,241	-	1,261,261	- 896,946	- 1,603,473	61,415	114	- 3,693,910	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	13,504	12,982	4,572,394	4,884,796	98,576,841	19,338,395	9,259,754	136,658,666	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

March 1968

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
March 1968:			
Daily average	3,142,533	2,532,125	4,350,183
Maximum(1)	3,458,215	...	...
Minimum(1)	2,991,398	...	...
Exports maximum(1)	1,769,014	...	...
March 1967:			
Daily average	2,682,472	2,489,660	3,978,833
Maximum(1)	3,012,767	...	...
Minimum(1)	2,714,406	...	...
Year to date 1968:			
Daily average	3,164,318	2,801,762	4,552,020
Maximum(1)	3,494,251	...	...
Minimum(1)	2,991,398	...	...
Commodity miles:			
Mcf. miles (thousands)	80,898,235	..	..
Ton-miles (millions)	1,844	..	..
Line pack:			
Beginning of month (Mcf.)	8,450,282	..	..
End of month (Mcf.)	8,410,990	..	..
Operating revenues .....	..	56,104,565	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

March 1968

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	30,739	145,829
Deliveries to ultimate customers	32,111	112,237
Line pack fluctuations	-	275
Gas used in system	-	51
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 1,372	33,266
Total disposition	30,739	145,829
Daily average sendout	959	4,704
Revenues	32,539	191,540

TABLE 6. Sales of Natural Gas

No.		March 1968			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
	Residential:				
1	New Brunswick	130	1,905	4,416	14,426
2	Quebec	94,333	204,191	1,399,512	2,579,070
3	Ontario	547,752	679,861	13,760,748	16,232,931
4	Manitoba	94,546	102,431	2,414,987	2,085,283
5	Saskatchewan	111,906	117,373	2,447,114	1,723,920
6	Alberta	249,420	252,100	5,304,693	2,776,691
7	British Columbia	169,971	189,760	2,511,024	3,632,729
8	Canada	1,268,058	1,547,621	27,842,494	29,045,050
	Industrial:				
9	New Brunswick	-	-	-	-
10	Quebec		2,257	1,665,298	1,083,638
11	Ontario		7,455	13,148,862	7,947,750
12	Manitoba		302	1,536,537	548,998
13	Saskatchewan		611	4,296,799	1,182,620
14	Alberta		567	8,892,913	1,676,324
15	British Columbia		269	4,233,825	1,761,961
16	Canada		11,461	33,774,234	14,111,291
17	Firm		1,172	23,594,456	10,572,922
18	Interruptible		10,289	10,179,778	3,538,369
	Commercial:				
19	New Brunswick		60	2,847	5,591
20	Quebec		10,294	608,607	760,675
21	Ontario		60,653	7,142,819	6,841,202
22	Manitoba		9,258	1,695,329	1,153,293
23	Saskatchewan		16,073	1,647,133	869,061
24	Alberta		28,280	4,334,573	1,682,573
25	British Columbia		24,622	1,447,863	1,635,828
26	Canada		149,240	16,879,171	12,948,224
	Total sales:				
27	New Brunswick		1,965	7,263	20,017
28	Quebec		216,742	3,673,417	4,423,384
29	Ontario		747,969	34,052,429	31,021,883
30	Manitoba		111,991	5,646,853	3,697,574
31	Saskatchewan		134,057	8,391,046	3,775,601
32	Alberta		280,947	18,532,179	6,135,588
33	British Columbia		214,651	8,192,712	7,030,518
34	Canada		1,708,322	78,495,899	56,104,565

... Figures not appropriate or not applicable.

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

No.		March 1968		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	12,641	63,260	120,530
2	Industrial	7	293	591
3	Commercial	2,561	48,684	70,419
4	Total	15,209	112,237	191,540

TABLE 6. Sales of Natural Gas

		March 1967					
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	No.	
		Space heating No.	Total				
2.3	3.27	100	1,981	4,596	14,511	1	
6.9	1.84	88,153	204,697	1,471,438	2,256,498	2	
20.2	1.18	518,389	656,659	13,049,770	15,404,311	3	
23.6	0.86	93,626	96,300	2,512,649	2,148,408	4	
20.8	0.70	104,123	107,482	2,839,450	1,910,091	5	
21.0	0.52	240,383	243,162	6,223,985	3,116,466	6	
13.2	1.45	154,687	178,005	2,768,160	4,085,070	7	
18.0	1.04	1,199,461	1,488,286	28,870,048	28,935,355	8	
-	-	-	-	-	-	9	
738	0.65	-	2,236	1,255,949	916,574	10	
1,764	0.60	-	7,116	12,004,149	7,297,036	11	
5,088	0.30	-	274	1,105,148	359,482	12	
7,032	0.28	-	572	3,532,054	869,666	13	
15,684	0.19	-	523	9,453,238	1,753,177	14	
15,739	0.42	-	249	3,934,640	1,645,827	15	
2,947	0.42	-	10,970	31,285,178	12,841,762	16	
-	-	-	10,620	26,305,117	10,317,266	17	
-	-	-	350	4,980,061	1,760,449	18	
47.5	1.96	-	58	2,512	5,045	19	
59.1	1.25	-	10,047	560,642	646,112	20	
117.8	0.96	-	57,028	6,548,249	6,057,627	21	
183.1	0.68	-	8,621	1,764,453	1,191,377	22	
102.5	0.53	-	14,480	1,569,337	832,429	23	
153.3	0.39	-	27,619	5,160,928	1,925,845	24	
58.8	0.11	-	23,464	1,418,127	1,616,383	25	
113.1	0.77	-	141,317	17,024,248	12,274,818	26	
3.7	2.76	-	2,039	7,108	19,556	27	
16.9	1.20	-	216,980	3,288,029	3,819,184	28	
45.5	0.91	-	720,803	31,602,168	28,758,974	29	
50.4	0.65	-	105,195	5,382,250	3,699,267	30	
62.6	0.45	-	122,534	7,940,841	3,612,186	31	
66.0	0.33	-	271,304	20,838,151	6,795,488	32	
38.2	0.86	-	201,718	8,120,927	7,347,280	33	
45.9	0.71	-	1,640,573	77,179,474	54,051,935	34	

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

March 1968				
Manufactured gas				
Customers	Gas sold	Revenue		No.
No.	Mcf.	\$		
1,741	9,951	13,272		1
22	10,012	5,461		2
515	12,148	13,806		3
2,278	32,111	32,539		4

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

	March 1968			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	4,416	-	2,847	7,263
Quebec	1,412,564	1,681,302	614,198	3,708,064
Ontario	13,828,776	13,225,841	7,196,966	34,251,583
Manitoba	2,429,212	1,538,326	1,711,019	5,678,557
Saskatchewan	2,460,400	4,320,128	1,656,076	8,436,604
Alberta	5,559,786	9,337,044	4,634,584	19,531,414
British Columbia	2,645,403	4,457,429	1,522,350	8,625,182
Canada	28,340,557	34,560,070	17,338,040	80,238,667

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

	March 1968						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	138,798	398,375	10,711,271	3,303,452	40,277,935	54,829,831	160,670,820
Imports	-	9,313,256	-	9,575	-	9,322,831	22,259,936

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

	March 1968	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	90,187	15,017

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

March 1968

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	137,970	-
Ontario - Cornwall	395,606	-
Niagara Falls	-	6,527,506
Ojibway	-	2,722,709
Total Ontario	395,606	9,250,215
Manitoba - Emerson	10,647,387	-
Alberta - Aden	1,557,263	-
Carway	1,563,277	-
Coutts	180	9,539
Total Alberta	3,120,720	9,539
British Columbia - Kingsgate - U.S.A. District V South(1)	20,818,700	-
Other U.S.A.	4,928,910	-
Huntingdon	12,471,716	-
Total British Columbia	38,219,326	-
Canada - 1968	52,521,009	9,259,754
1967	44,865,129	4,959,517
Year to date - 1968	153,884,535	22,062,500
1967	128,687,183	13,176,998
Value - 1968	13,861,942	5,208,146
1967	10,360,696	1,383,686

(1) California, Nevada, Arizona.

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010521085