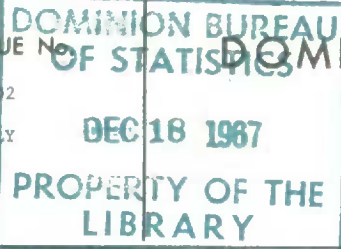


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GAS UTILITIES
(Transport and Distribution Systems)

APRIL 1967

During April field gathering systems and processing plants delivered to gas utilities 103,277,628 Mcf. of natural gas. The transport systems accounted for 79,774,476 Mcf. and the distribution systems 23,503,152 Mcf. Natural gas imported from the U.S.A. was 5,602,094 Mcf. and the volume recovered from storage was 1,890,668 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over April 1966	Revenue \$'000	% of total revenue
Ultimate customers	66,432	60.0	15.0	43,937	81.0
Exports	42,707	38.5	23.4	10,314	19.0
Other uses and adjustments	1,632	1.5	...	...	...
Totals	110,771	100.0	16.4	54,251	100.0

... Figures not appropriate or not applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 62.2 billion commodity (Mcf.) miles (1,430 million ton miles) during April compared with 65.9 billion (Mcf.) miles (1,505 million ton miles) last year. The daily average deliveries of gas utilities amounted to 3.7 million Mcf.

Alberta natural gas utilities receipts totalled 81.3 billion cubic feet; of this 22.9 per cent was sold to ultimate customers in Alberta, 21.3 per cent in Ontario, 3.3 per cent in Quebec, 4.0 per cent in Saskatchewan, 1.3 per cent in British Columbia and 5.1 per cent in Manitoba. Exports accounted for 39.2 per cent and the remaining 2.9 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 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 1966	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	21,656	32.6	8.7	21,734	49.5	1,491
Industrial	30,728	46.3	15.2	12,211	27.8	11
Commercial	14,048	21.1	26.0	9,992	22.7	142
Totals	66,432	100.0	15.0	43,937	100.0	1,644

All gas volumes in Tables I-7 and Table II 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 bases, 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

December 1967
6503-509

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

April 1967

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	9,045	2,614	1,203,490
2b	Processing plants	-	-	-
3	Total (1 + 2)	9,045	2,614	1,203,490
4	Imports	-	-	5,591,503
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	9,045	2,614	6,794,993
7	Received from storage	-	-	1,533,542
9	Total supply of gas utilities (6 + 7)	9,045	2,614	8,328,535
	Transfers from:			
11	Other provinces	-	2,810,148	22,444,611
12	Distribution to transport (primary)	-	-	1,868,385
13	Other gas utilities	-	2,633,326	28,542,267
19	Total gross receipts (9 + 11 + 12 + 13) ...	9,045	5,446,088	61,183,799
	<u>Disposition</u>			
	Sales:			
20	Residential	4,274	974,004	9,278,143
21	Industrial	-	1,253,590	11,843,985
22	Commercial	2,271	497,763	4,933,397
30	Total sales (20 + 21 + 22)	6,545	2,725,357	26,055,525
31	Exports	-	47,605	354,701
32	Other deliveries	-	-	994
33	Total net deliveries (30 + 31 + 32)	6,545	2,772,962	26,411,220
34	Delivered to storage	-	-	2,120,167
35	Line pack fluctuation	-	- 656	2,814
36	Gas used in system	100	12,453	1,872,485
37	Line losses and unaccounted for	2,400	28,003	- 2,443,688
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	9,045	2,812,762	27,962,998
	Transfers to:			
40	Other provinces	-	-	2,810,148
41	Distribution by transport (primary)	-	2,633,326	22,382,069
42	Other gas utilities	-	-	8,028,584
49	Total disposition (39 + 40 + 41 + 42)	9,045	5,446,088	61,183,799

(1) Includes peak shaving and enrichment.

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

April 1967

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	April 1966		No.
					Canada		
			Mcf.				
-	-	5,750,638	512,741	6,263,379	6,940,111	1a	
-	-	56,293,752	17,217,345	73,511,097	63,325,361	1b	
-	1,527,830	7,761,272	-	10,504,251	9,455,473	2a	
-	1,548,366	11,381,269	69,266	12,998,901	10,441,356	2b	
-	3,076,196	81,186,931	17,799,352	103,277,628	90,162,301	3	
-	-	10,591	-	5,602,094	3,917,293	4	
917	-	-	-	917	- 1,960	5	
917	3,076,196	81,197,522	17,799,352	108,880,639	94,077,634	6	
-	214,019	143,107	-	1,890,668	1,037,720	7	
917	3,290,215	81,340,629	17,799,352	110,771,307	95,115,354	9	
32,824,226	36,865,397	-	23,553,958	...	...	11
-	2,862,033	1,480,953	-	6,211,372	552,919	12	
3,713,128	2,875,883	4,821,639	7,329,114	49,915,357	45,708,482	13	
36,538,271	45,893,528	87,643,221	48,682,424	166,898,036	141,376,755	19	
1,752,068	2,349,185	5,424,986	1,873,473	21,656,133	19,927,158	20	
1,132,710	3,702,422	8,598,573	4,197,327	30,728,607	26,663,822	21	
1,304,460	1,356,129	4,652,155	1,301,494	14,047,669	11,151,731	22	
4,189,238	7,407,736	18,675,714	7,372,294	66,432,409	57,742,711	30	
6,181,376	-	2,898,327	33,224,581	42,706,590	34,604,102	31	
-	-	63,206	-	64,200	230,378	32	
10,370,614	7,407,736	21,637,247	40,596,875	109,203,199	92,577,191	33	
-	197,045	311,941	-	2,629,153	2,974,437	34	
- 221	37,354	- 67,400	- 64,776	- 92,885	- 158,166	35	
446,250	862,857	385,311	1,007,086	4,586,542	4,082,791	36	
- 436,111	- 1,173,606	- 1,345,825	- 185,875	- 5,554,702	- 4,360,899	37	
10,380,532	7,331,386	20,921,274	41,353,310	110,771,307	95,115,354	39	
22,444,611	32,824,226	60,419,355	-	...	...	40
-	2,875,883	401,732	7,317,607	35,610,617	35,065,430	41	
3,713,128	2,862,033	5,900,860	11,507	20,516,112	11,195,971	42	
36,538,271	45,893,528	87,643,221	48,682,424	166,898,036	141,376,755	49	

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1967

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	8,465,265	7,589,123	8,250,295	6,263,379	
1b	Processing plants	78,771,451	70,197,341	78,413,384	73,511,097	
2	By distribution systems:					
2a	Fields	14,352,214	13,056,197	13,960,144	10,504,251	
2b	Processing plants	14,791,017	12,488,766	14,048,494	12,998,901	
3	Total (1 + 2)	116,379,947	103,331,427	114,672,317	103,277,628	
4	Imports	4,379,773	3,837,708	4,959,518	5,602,094	
5	Other receipts(1)	23,683	13,514	903	917	
6	Total net receipts (3 + 4 + 5)	120,783,403	107,182,649	119,632,738	108,880,639	
7	Received from storage	9,701,942	12,845,362	7,013,740	1,890,668	
9	Total supply of gas utilities (6 + 7)	130,485,345	120,028,011	126,646,478	110,771,307	
	Transfers from:					
11	Other provinces .....	...	...	...	...
12	Distribution to transport (primary)	6,345,214	5,127,330	6,144,645	6,211,372	
13	Other gas utilities	56,422,445	53,253,749	55,909,055	49,915,357	
19	Total gross receipts (9 + 11 + 12 + 13) ...	193,253,004	178,409,090	188,700,178	166,898,036	
	<u>Disposition</u>					
	Sales:					
20	Residential	31,158,284	30,687,889	28,870,048	21,656,133	
21	Industrial	29,418,788	27,288,180	31,285,178	30,728,607	
22	Commercial	18,494,795	18,232,554	17,024,248	14,047,669	
30	Total sales (20 + 21 + 22)	79,071,867	76,208,623	77,179,474	66,432,409	
31	Exports	43,700,898	40,121,156	44,865,129	42,706,590	
32	Other deliveries	241,834	94,608	92,079	64,200	
33	Total net deliveries (30 + 31 + 32)	123,014,599	116,424,387	122,136,682	109,203,199	
34	Delivered to storage	311,925	675,440	1,207,130	2,629,153	
35	Line pack fluctuation	29,177	- 238,840	136,621	- 92,885	
36	Gas used in system	5,101,044	4,307,636	5,183,681	4,581,542	
37	Line losses and unaccounted for	2,028,600	- 1,140,612	- 2,017,636	- 5,554,702	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	130,485,345	120,028,011	126,646,478	110,771,307	
	Transfers to:					
40	Other provinces .....	...	...	...	...
41	Distribution by transport (primary)	42,803,077	38,618,252	38,291,533	35,610,617	
42	Other gas utilities	19,964,582	19,762,827	23,762,167	20,516,112	
49	Total disposition (39 + 40 + 41 + 42)	193,253,004	178,409,090	188,700,178	166,898,036	

(1) Includes peak shaving and enrichment.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1967

June	July	August	September	October	November	December	Year to date		No.
							1967	1966	
				Mcf.					
							30,568,062	35,398,940	1a
							300,893,273	270,563,305	1b
							51,872,806	46,903,689	2a
							54,327,178	45,438,099	2b
							437,661,319	398,304,033	3
							18,779,093	13,039,081	4
							39,017	834	5
							456,479,429	411,343,948	6
							31,451,712	20,390,600	7
							487,931,141	431,734,548	9
							11
							23,828,561	3,074,635	12
							215,500,606	205,542,636	13
							727,260,308	640,351,819	19
							112,372,354	105,778,020	20
							118,720,753	106,578,672	21
							67,799,266	57,204,329	22
							298,892,373	269,561,021	30
							171,393,773	146,031,055	31
							492,721	1,021,259	32
							470,778,867	416,613,335	33
							4,823,648	4,010,427	34
							- 165,927	- 63,078	35
							19,178,903	17,931,838	36
							- 6,684,350	- 6,757,974	37
							487,931,141	431,734,548	39
							40
							155,323,479	155,385,991	41
							84,005,688	53,231,280	42
							727,260,308	640,351,819	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

April 1967

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	-	-	-	-	5,750,638	512,741	-	6,263,379	
1b	Processing plants	-	-	-	-	56,293,752	17,217,345	-	73,511,097	
2	By distribution systems:									
2a	Fields	9,045	2,614	1,203,490	1,527,830	7,761,272	-	-	10,504,251	
2b	Processing plants	-	-	-	1,548,366	11,381,269	69,266	-	12,998,901	
3	Total (1 + 2)	9,045	2,614	1,203,490	3,076,196	81,186,931	17,799,352	-	103,277,628	
4	Imports	-	-	-	-	-	-	5,602,094	5,602,094	
5	Other receipts(1)	-	-	-	-	917	-	-	917	
6	Total net receipts (3 + 4 + 5)	9,045	2,614	1,203,490	3,076,196	81,187,848	17,799,352	5,602,094	108,880,639	
7	Received from storage	-	-	1,533,542	214,019	143,107	-	-	1,890,668	
9	Total supply of gas utilities (6 + 7)	9,045	2,614	2,737,032	3,290,215	81,330,955	17,799,352	5,602,094	110,771,307	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	1,052,130	6,320,164	-	7,372,294	
24	Alberta	-	-	-	-	18,664,353	-	11,361	18,675,714	
25	Saskatchewan	-	-	-	4,188,648	3,219,088	-	-	7,407,736	
26	Manitoba	-	-	-	-	4,189,238	-	-	4,189,238	
27	Ontario	-	-	3,095,251	-	17,368,771	-	5,591,503	26,055,525	
28	Quebec	-	2,614	-	-	2,722,743	-	-	2,725,357	
29	New Brunswick	6,545	-	-	-	-	-	-	6,545	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,545	2,614	3,095,251	4,188,648	47,216,323	6,320,164	5,602,864	66,432,409	
31	Exports	-	-	-	-	31,920,264	10,774,120	-	42,694,384	
32	Other deliveries	-	-	-	-	64,200	-	-	64,200	
33	Total net deliveries (30 + 31 + 32)	6,545	2,614	3,095,251	4,188,648	79,200,787	17,094,284	5,602,864	109,190,993	
34	Delivered to storage	-	-	-	197,045	2,432,108	-	-	2,629,153	
35	Line pack fluctuation	-	-	-	38,309	- 67,080	- 64,114	-	- 92,885	
36	Gas used in system	100	-	36,502	124,730	3,547,554	877,656	-	4,586,542	
37	Line losses and unaccounted for	2,400	-	- 394,721	- 1,258,517	-3,782,414	- 108,454	- 770	- 5,542,496	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	9,045	2,614	2,737,032	3,290,215	81,330,955	17,799,352	5,602,094	110,771,307	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

April 1967

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
April 1967:			
Daily average	2,610,574	2,214,414	3,727,744
Maximum(1)	2,911,817	...	...
Minimum(1)	2,570,425	...	...
Exports maximum(1)	1,481,235	...	...
April 1966:			
Daily average	2,322,317	1,806,558	2,935,578
Maximum(1)	2,559,432	...	...
Minimum(1)	2,156,080	...	...
Year to date 1967:			
Daily average	2,729,304	2,494,129	3,827,373
Maximum(1)	3,063,732	...	...
Minimum(1)	2,542,371	...	...
Commodity miles:			
Mcf. miles (thousands)	62,235,003	..	..
Ton-miles (millions)	1,430	..	..
Line pack:			
Beginning of month (Mcf.)	8,205,908	..	..
End of month (Mcf.)	8,084,593	..	..
Operating revenues .....	..	\$43,937,045	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

April 1967

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	50,873	132,837
Deliveries to ultimate customers	50,039	115,666
Line pack fluctuations	-	-
Gas used in system	-	1,171
Metering difference, line losses, cyclical billing adjustments and unaccounted for	834	16,000
Total disposition	50,873	132,837
Daily average sendout	1,695	4,326
Revenues	\$33,491	\$200,601

TABLE 6. Sales of Natural Gas

No.		April 1967			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
Residential:					
1	New Brunswick	100	1,980	4,274	14,053
2	Quebec	88,201	203,982	974,004	1,604,781
3	Ontario	503,595	657,511	9,278,143	11,209,952
4	Manitoba	93,863	96,514	1,752,068	1,545,390
5	Saskatchewan	104,775	109,101	2,349,185	1,644,148
6	Alberta	240,823	243,560	5,424,986	3,002,326
7	British Columbia	158,008	178,488	1,873,473	2,713,518
8	Canada	1,189,365	1,491,136	21,656,133	21,734,168
Industrial:					
9	New Brunswick	-	-	-	-
10	Quebec		2,240	1,253,590	827,405
11	Ontario		7,137	11,843,985	6,761,294
12	Manitoba		278	1,132,710	379,609
13	Saskatchewan		571	3,702,422	936,374
14	Alberta		515	8,598,573	1,585,912
15	British Columbia		259	4,197,327	1,720,226
16	Canada		11,000	30,728,607	12,210,820
17	Firm		10,642	25,320,284	10,169,540
18	Interruptible		358	5,408,323	2,041,280
Commercial:					
19	New Brunswick	59		2,271	5,011
20	Quebec		10,059	497,763	545,821
21	Ontario		57,160	4,933,397	4,592,731
22	Manitoba		8,654	1,304,460	908,563
23	Saskatchewan		14,881	1,356,129	723,310
24	Alberta		27,535	4,652,155	1,742,751
25	British Columbia		23,605	1,301,494	1,473,870
26	Canada		141,953	14,047,669	9,992,057
Total sales:					
27	New Brunswick		2,039	6,545	19,064
28	Quebec		216,281	2,725,357	2,978,007
29	Ontario		721,808	26,055,525	22,563,977
30	Manitoba		105,446	4,189,138	2,833,562
31	Saskatchewan		124,553	7,407,736	3,303,832
32	Alberta		271,610	18,675,714	6,330,989
33	British Columbia		202,352	7,372,294	5,907,614
34	Canada		1,644,089	66,432,409	43,937,045

(1) Estimated.

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

No.		April 1967		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	13,971	68,428	121,373
2	Industrial	41	1,512	1,573
3	Commercial	2,748	45,726	77,654
4	Total	16,760	115,666	\$200,601

TABLE 6. Sales of Natural Gas

April 1967		April 1966				No.
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	
		Space heating No.	Total No.			
2.2	3.28	100	2,094	4,272	14,501	1
4.7	1.64	84,316	205,481	837,303	1,555,936	2
14.1	1.21	486,163	637,708	9,106,837	10,963,109	3
18.1	0.88	85,908	88,993	1,494,450	1,324,400	4
21.5	0.70	97,992	102,039	1,927,575	1,386,446	5
22.2	0.55	229,924	236,645	4,397,172	2,351,770	6
10.4	1.44	147,390	169,123	2,159,549	3,109,750(1)	7
14.5	1.00	1,131,793	1,442,083	19,927,158	20,705,912(1)	8
-	-	-	-	-	-	9
559	0.66	-	2,359	1,416,747	850,053	10
1,659	0.57	-	6,831	10,116,070	5,831,956	11
4,074	0.33	-	280	917,425	285,946	12
4,732	0.25	-	804	3,113,908	750,093	13
16,696	0.18	-	557	7,877,163	1,428,824	14
16,205	0.41	-	182	3,222,509	1,237,443	15
2,794	0.40	-	11,013	26,663,822	10,384,215	16
-	-	-	10,502	20,877,078	8,075,304	17
-	-	-	511	5,786,744	2,308,911(1)	18
38.4	2.21	-	52	1,846	3,967	19
49.4	1.09	-	9,888	253,946	356,925	20
86.3	0.93	-	53,976	4,345,813	4,134,678	21
150.7	0.69	-	7,973	1,063,060	745,672	22
91.1	0.53	-	13,743	1,043,961	572,937	23
169.0	0.37	-	26,474	3,446,011	1,336,084	24
55.1	1.13	-	22,357	997,094	1,146,658(1)	25
98.9	0.71	-	134,463	11,151,731	8,296,921(1)	26
3.2	2.91	-	2,146	6,118	18,468	27
12.6	1.09	-	217,728	2,507,996	2,762,914	28
36.1	0.86	-	698,515	23,568,720	20,929,743	29
39.7	0.67	-	97,246	3,474,935	2,355,918	30
59.4	0.45	-	116,586	6,085,444	2,709,476	31
68.8	0.34	-	263,676	15,720,346	5,116,678	32
36.4	0.80	-	191,662	6,379,152	5,493,851(1)	33
40.4	0.66	-	1,587,559	57,742,711	39,387,048(1)	34

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

April 1967			No.
Manufactured gas			
Customers No.	Gas sold Mcf.	Revenue \$	
1,964	5,891	7,321	1
29	31,171	11,498	2
567	12,997	14,672	3
2,560	50,039	\$33,491	4

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

	April 1967			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	5,156	-	2,739	7,895
Quebec	980,442	1,262,161	501,016	2,743,619
Ontario	9,318,639	11,897,758	4,955,988	26,172,385
Manitoba	1,762,687	1,138,005	1,314,626	4,215,318
Saskatchewan	2,361,939	3,722,524	1,363,492	7,447,955
Alberta	5,794,846	9,086,410	4,953,096	19,834,352
British Columbia	1,978,351	4,427,252	1,379,099	7,784,702
Canada	22,202,060	31,534,110	14,470,056	68,206,226

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

	April 1967						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	47,938	356,475	6,224,646	2,863,550	35,046,546	44,539,155	178,142,570
Imports	-	5,599,917	-	10,591	-	5,610,508	18,783,693

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

	April 1967	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	110,071	24,002

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

April 1967

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	47,605	-
Ontario - Cornwall	354,701	-
Niagara Falls	-	3,028,002
Ojibway	-	2,563,501
Total Ontario	354,701	5,591,503
Manitoba - Emerson	6,181,376	-
Alberta - Aden	1,711,518	-
Carway	1,186,545	-
Coutts	264	10,591
Total Alberta	2,898,327	10,591
British Columbia - Kingsgate - U.S.A. District V South(1)	16,839,328	-
Other U.S.A.	4,208,920	-
Huntingdon	12,176,333	-
Total British Columbia	33,224,581	-
Canada - 1967	42,706,590	5,602,094
1966	34,604,102	3,917,293
Year to date - 1967	171,393,773	18,779,092
1966	146,031,055	13,039,081
Value - 1967	10,314,212	2,484,343
1966	8,970,584	1,736,637

(1) California, Nevada, Arizona.

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