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ELECTRIC POWER STATISTICS

SEPTEMBER 1964

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This report is the fourth of a revised series which contains several additions. Tables 1A and 1B contain preliminary statistics on energy generation, imports, exports and secondary for the months of September and July respectively. These preliminary statistics indicate that total net generation increased 11.6 per cent to 10,847,155 thousand kwh. in September 1964 from 9,723,210 thousand kwh. generated one year ago.

Imports decreased to 263,780 thousand kwh. from 272,559 thousand kwh. and exports increased to 365,785 thousand kwh. from 272,688 thousand kwh. in September 1963.

Tables 2A and 2B show detailed data concerning the amount of energy made available and the disposition of this energy for the months of May and June respectively. These figures include a breakdown of sales by rate categories for large utilities and industries while distribution by smaller utilities and industries is included in "distribution by non-respondents" (item 28). Distribution by non-respondents is the energy which is delivered by companies which report in this survey to companies which do not report. Consumption of own generation by industrial establishments is included in power sales. Comparable May and June 1963 data is shown for all categories where it is available. The delay between the publication of preliminary and final detailed data will be further reduced in future monthly reports.

Tables 3, 4 and 5 give final data for the months January to June 1964 and preliminary data for other months. In table 3, the secondary energy includes both that used in electric boilers and that used for other purposes. In May, of the 254,321 thousand kwh. of secondary energy 200,413 thousand kwh. were used in electric boilers and 53,908 thousand kwh. were used for other purposes, while in June, of the 299,248 thousand kwh. of secondary energy 244,042 thousand kwh. were used in electric boilers and 55,206 thousand kwh. were used for other purposes.

The total generation for the twelve-month period ending September 30, 1964 amounted to 130,-555,133 thousand kwh. compared to 129,431,188 thousand kwh. for the period ending in August.

Monthly electric power statistics are designed to provide current information on the production and consumption of electric energy in Canada. In order to expedite the collection and compilation of returns, the series is confined to firms which generate a minimum of 10 million kwh. per annum and to large distributors of electric energy. These firms accounted for 99.6 per cent of total production in 1962.

In the electric power series, net generation is defined as total generation less the amount used in station service.

Industry Division

November 1964  
6511-513

TABLE 1A. Preliminary Electric Energy Statistics  
September 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		thousand kwh.				
1	Net generation - Hydro .....	8,247,823	8,917,195	182,784	-	49,874
2	Thermal .....	1,475,387	1,929,960	6,223	9,914	141,782
3	Total net generation .....	9,723,210	10,847,155	189,007	9,914	191,656
	Energy imported:					
4	From other provinces .....	...	...	-	-	2,299
5	From United States .....	272,559	263,780	-	-	-
6	Totals .....	272,559	263,780	-	-	2,299
	Energy exported:					
7	To other provinces - Firm .....	...	...	6,934	-	344
8	Secondary .....	...	...	-	-	10,154
9	To United States - Firm .....	73,890 <sup>r</sup>	61,303	-	-	-
10	Secondary .....	198,798	304,482	-	-	-
11	Totals .....	272,688 <sup>r</sup>	365,785	6,934	-	10,498
12	Net energy used in Canada .....	9,723,081 <sup>r</sup>	10,745,150	182,073	9,914	183,457
13	Secondary energy used in Canada(1) .....	296,913	315,552	28	-	-
14	Firm energy used in Canada .....	9,426,168 <sup>r</sup>	10,429,598	182,045	9,914	183,457

(1) Secondary energy for use in other than electric oilers amounted to 36,975 thousand kwh. in Quebec and 15,052 thousand kwh. in Ontario.

TABLE 2A. Supply and Demand of Electric Energy  
May 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		thousand kwh.				
	<u>Supply of electric energy</u>					
	Net generation:					
1	Utilities - Hydro .....	7,203,807	7,327,904	159,107	-	53,677
2	Thermal .....	805,776	857,423	2,658	9,039	89,087
3	Totals .....	8,009,583	8,185,327	161,765	9,039	142,764
4	Industry - Hydro .....	1,934,545	2,255,020	31,159	-	2,788
5	Thermal .....	232,884 <sup>r</sup>	291,724	2,937	-	22,080
6	Totals .....	2,167,429 <sup>r</sup>	2,546,744	34,096	-	24,868
7	Grand total - Hydro .....	9,138,352	9,582,924	190,266	-	56,465
8	Thermal .....	1,038,660 <sup>r</sup>	1,149,147	5,595	9,039	111,167
9	Total net generation .....	10,177,012 <sup>r</sup>	10,732,071	195,861	9,039	167,632
	Energy imported:					
10	From other provinces .....	...	...	-	-	11,848
11	From United States .....	206,200	244,896	-	-	-
12	Totals .....	206,200	244,896	-	-	11,848
13	Total supply of electric energy .....	10,383,212	10,976,967	195,861	9,039	179,480
	<u>Demand for electric energy</u>					
	Sales:					
14	Domestic .....	..	1,974,884	18,466	3,681	51,142
15	Farm(1) .....	..	82,304	-	-	-
16	General service (commercial) .....	..	882,680	6,662	4,407	34,114
17	Power - Firm .....	..	6,504,601	157,343	-	77,536
18	Secondary .....	..	254,321	108	-	-
19	Total power .....	..	6,758,922	157,451	-	77,536
20	Street lighting .....	..	60,833	433	118	1,439
21	Total sales .....	..	9,759,623	183,012	8,206	164,231
	Energy exported:					
22	To other provinces - Firm .....	...	...	4,654	-	615
23	Secondary .....	..	..	1,850	-	213
24	To United States - Firm .....	71,366	79,842	-	-	-
25	Secondary .....	252,735	256,974	-	-	-
26	Total energy exported .....	324,101	336,816	6,504	-	828
27	Unallocated energy(2) .....	..	512,916	6,345	695	2,969
28	Distribution by non-respondents .....	..	367,612	-	138	11,452
29	Total demand for electric energy .....	..	10,976,967	195,861	9,039	179,480

(1) Many utilities cannot distinguish between domestic and firm, as they do not keep separate records.

(2) Includes losses, unaccounted for, and cyclical billing adjustment.

.. Figures not available.

TABLE 1A. Preliminary Electric Energy Statistics  
September 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
60,840	4,670,620	2,159,433	351,329	111,998	59,454	1,254,445	16,418	1
150,646	43,109	967,963	9,851	143,690	334,715	119,618	2,449	2
211,486	4,713,729	3,127,396	361,180	255,688	394,169	1,374,063	18,867	3
12,459	8,662	590,978	55,604	1,122	4,473	504	-	4
484	54	260,078	-	-	-	3,164	-	5
12,943	8,716	851,056	55,604	1,122	4,473	3,668	-	6
-	351,994	1,544	502	44,147	504	4,473	-	7
2,299	240,637	11,641	928	-	-	-	-	8
9,534	1,221	50,381	-	-	-	167	-	9
10,073	4,056	287,223	-	-	-	3,130	-	10
21,906	597,908	350,789	1,430	44,147	504	7,770	-	11
202,523	4,124,537	3,627,663	415,354	212,663	398,138	1,369,961	18,867	12
-	243,794	42,892	8,150	1,775	-	16,338	2,575	13
202,523	3,880,743	3,584,771	407,204	210,888	398,138	1,353,623	16,292	14

<sup>r</sup> Revised figures.

TABLE 2A. Supply and Demand of Electric Energy  
May 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
138,154	3,108,653	2,683,360	✓ 395,894	119,739	57,949	598,272	13,099	1
31,477	41	248,996	1,821	126,066	292,502	53,245	2,491	2
169,631	3,108,694	2,932,356	397,715	245,805	350,451	651,517	15,590	3
9,341	1,417,574	134,387	✓ 5,828	6,931	-	643,462	3,550	4
44,440	29,880	77,430	2,182	73	33,138	79,564	-	5
53,781	1,447,454	211,817	8,010	7,004	33,138	723,026	3,550	6
147,495	4,526,227	2,817,747	401,722	126,670	57,949	1,241,734	16,649	7
75,917	29,921	326,426	4,003	126,139	325,640	132,809	2,491	8
223,412	4,556,148	3,144,173	405,725	252,809	383,589	1,374,543	19,140	9
2,898	12,395	593,785	53,308	1,328	3,858	580	-	10
452	53	241,538	-	-	-	2,853	-	11
3,350	12,448	835,323	53,308	1,328	3,858	3,433	-	12
226,762	4,568,596	3,979,496	459,033	254,137	387,447	1,377,976	19,140	13
33,523	590,920	854,172	111,513	47,233	70,217	192,883	1,134	14
-	-	-	24,190	30,198	27,916	-	-	15
17,859	186,045	354,873	54,560	30,944	56,014	135,249	1,953	16
119,050	2,792,627	1,955,131	212,814	69,257	182,534	928,062	10,247	17
-	152,281	56,886	16,594	2,003	-	20,983	5,466	18
119,050	2,944,908	2,012,017	229,408	71,260	182,534	949,045	15,713	19
1,417	16,688	24,287	3,765	1,857	5,248	5,565	16	20
171,849	3,738,561	3,245,349	423,436	181,492	341,929	1,282,742	18,816	21
-	366,221	1,833	1,705	45,272	580	3,858	-	22
11,848	229,257	12,094	-	-	-	-	-	23
16,669	1,284	61,749	-	-	-	140	-	24
10,097	-	244,155	-	-	-	2,722	-	25
38,614	596,762	319,831	1,705	45,272	580	6,720	-	26
14,168	200,666	117,218	33,892	25,195	37,733	74,305	- 270	27
2,131	32,607	297,098	-	2,178	7,205	14,209	594	28
226,762	4,568,596	3,979,496	459,033	254,137	387,447	1,377,976	19,140	29

... Figures not appropriate or not applicable.

<sup>r</sup> Revised figures.

TABLE 1B. Preliminary Electric Energy Statistics  
July 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		thousand kwh.				
1	Net generation - Hydro .....	8,211,933	9,269,767	176,280	-	43,885
2	Thermal .....	1,234,637	1,363,639	15,058	9,602	127,311
3	Total net generation .....	9,446,570	10,633,406	191,338	9,602	171,196
4	Energy imported:					
5	From other provinces .....	...	...	-	-	7,793
6	From United States .....	242,981	279,464	-	-	-
7	Totals .....	242,981	279,464	-	-	7,793
8	Energy exported:					
9	To other provinces - Firm .....	...	...	6,150	-	676
10	Secondary .....	...	...	1,189	-	1,558
11	To United States - Firm .....	70,388	64,634	-	-	-
12	Secondary .....	188,942	272,970	-	-	-
13	Totals .....	259,330	337,604	7,339	-	2,234
14	Net energy used in Canada .....	9,430,221	10,575,266	183,999	9,602	176,755
15	Secondary energy used in Canada .....	295,918	382,608	70	-	-
16	Firm energy used in Canada .....	9,134,303	10,192,658	183,929	9,602	176,755

... Figures not appropriate or not applicable.

TABLE 2B. Supply and Demand of Electric Energy  
June 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		thousand kwh.				
	<u>Supply of electric energy</u>					
1	Net generation:					
2	Utilities - Hydro .....	6,579,479	6,871,959	142,090	-	43,165
3	Thermal .....	843,975	928,685	2,777	8,782	109,359
4	Totals .....	7,423,454	7,800,644	144,867	8,782	152,521
5	Industry - Hydro .....	1,805,987 <sup>r</sup>	2,372,617	35,609	-	2,736
6	Thermal .....	225,012 <sup>r</sup>	278,364	3,027	-	16,737
7	Totals .....	2,030,999 <sup>r</sup>	2,650,981	38,636	-	19,487
8	Grand total - Hydro .....	8,385,466	9,244,576 <sup>r</sup>	177,699	-	45,916 <sup>r</sup>
9	Thermal .....	1,068,987 <sup>r</sup>	1,207,049 <sup>r</sup>	5,804	8,782	126,093
10	Total net generation .....	9,454,453	10,451,625	183,503	8,782	172,009
11	Energy imported:					
12	From other provinces .....	...	...	-	-	4,881
13	From United States .....	239,210	268,675	-	-	-
14	Totals .....	239,210	268,675	-	-	4,881
15	Total supply of electric energy .....	9,693,663	10,720,300	183,503	8,782	176,890
	<u>Demand for electric energy</u>					
16	Sales:					
17	Domestic .....	...	1,768,366	17,020	3,266	43,446
18	Farm(1) .....	...	76,456	-	-	-
19	General service (commercial) .....	...	875,034	6,170	4,129	30,612
20	Power - Firm .....	...	6,369,818	147,220	-	77,762
21	Secondary .....	...	299,248	164	-	-
22	Total power .....	...	6,669,066	147,384	-	-
23	Street lighting .....	...	58,509	398	118	1,438
24	Total sales .....	...	9,447,431	170,972	7,513	153,258
25	Energy exported:					
26	To other provinces - Firm .....	...	...	4,019	-	746
27	Secondary .....	...	...	2,469	-	437
28	To United States - Firm .....	71,994	69,728	-	-	-
29	Secondary .....	243,061	196,215	-	-	-
30	Total energy exported .....	315,055	265,943	6,488	-	1,183
31	Unallocated energy(2) .....	...	651,087	6,043	1,146	11,108
32	Distribution by non-respondents .....	...	355,839	-	123	11,341
33	Total demand for electric energy .....	...	10,720,300	183,503	8,782	176,890

(1) Many utilities cannot distinguish between domestic and farm, as they do not keep separate records.

(2) Includes losses, unaccounted for, and cyclical billing adjustment.

.. Figures not available.

TABLE 1B. Preliminary Electric Energy Statistics

July 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
102,205	4,648,311	2,449,979	370,076	129,932	98,809	1,234,435	15,855	1
115,613	30,953	572,317	5,178	118,894	274,938	91,683	2,092	2
217,818	4,679,264	3,022,296	375,254	248,826	373,747	1,326,118	17,947	3
4,051	9,832 <sup>r</sup>	567,329 <sup>r</sup>	55,102 <sup>r</sup>	1,078	4,412	284	-	4
260	50	276,222	-	-	-	2,932	-	5
4,311	9,882 <sup>r</sup>	843,551 <sup>r</sup>	55,102 <sup>r</sup>	1,078	4,412	3,216	-	6
-	340,383 <sup>r</sup>	1,938 <sup>r</sup>	1,419	44,747 <sup>r</sup>	284	4,412	-	7
7,793	228,422 <sup>r</sup>	10,910 <sup>r</sup>	-	-	-	-	-	8
13,643	995	49,743	-	-	-	253	-	9
3,763	4,708	261,620	-	-	-	2,879	-	10
25,199	574,508 <sup>r</sup>	324,211 <sup>r</sup>	1,419	44,747 <sup>r</sup>	284	7,544	-	11
196,930	4,114,638 <sup>r</sup>	3,541,636 <sup>r</sup>	428,937 <sup>r</sup>	205,157 <sup>r</sup>	377,875	1,321,790	17,947	12
-	309,228	48,744	4,383	1,888	-	15,195	3,100	13
196,930	3,805,410 <sup>r</sup>	3,492,892 <sup>r</sup>	424,554 <sup>r</sup>	203,269 <sup>r</sup>	377,875	1,306,595	14,847	14

<sup>r</sup> Revised figures.

TABLE 2B. Supply and Demand of Electric Energy  
June 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
113,734	2,875,271	2,524,578	370,287	121,067	86,321	584,400	11,045	1
45,822	607	365,607	2,726	117,873	255,132	17,799	2,204	2
139,556	2,875,878	2,890,185	373,013	238,940	341,453	602,199	13,249	3
8,572	1,546,567	132,939	5,655	6,738	-	629,685	4,102	4
45,016	29,862	80,720	3,452	-	30,072	69,478	-	5
53,588	1,576,429	213,659	9,107	6,738	30,072	699,163	4,102	6
122,306 <sup>r</sup>	4,421,838 <sup>r</sup>	2,657,517	375,942	127,805	86,321	1,214,085	15,147	7
90,838 <sup>r</sup>	30,469	446,327	6,178	117,873	285,204	87,277	2,204	8
213,144	4,452,307 <sup>r</sup>	3,103,844	382,120	245,678	371,525	1,301,362	17,351	9
2,997	8,700 <sup>r</sup>	491,526	58,357	936	4,017	583	-	10
535	54	265,004	-	-	-	3,082	-	11
3,532	8,754 <sup>r</sup>	756,530	58,357	936	4,017	3,665	-	12
216,676	4,461,061	3,860,374	440,477	246,614	375,542	1,305,027	17,351	13
32,597	554,399	727,263	105,885	42,838	65,973	174,306	1,373	14
-	-	-	24,944	25,902	25,610	-	-	15
17,115	188,863	350,085	52,998	32,855	59,026	130,778	2,403	16
127,267	2,728,660	1,938,825	214,459	66,832	181,137	878,315	9,341	17
30	214,598	50,351	10,926	1,792	-	17,783	3,604	18
127,297	2,943,258	1,989,176	225,385	68,624	181,137	896,098	12,945	19
1,416	17,085	23,963	3,226	1,611	4,755	4,493	6	20
178,425	3,703,605	3,090,487	412,438	171,830	336,501	1,205,675	16,727	21
-	354,056	1,882	1,255	43,782	583	4,017	-	22
4,881	138,965	14,905	-	-	-	-	-	23
14,723	1,194	53,641	-	-	-	170	-	24
4,821	1,490	186,961	-	-	-	2,943	-	25
24,425	495,705	257,389	1,255	43,782	583	7,130	-	26
11,916	232,035	222,471	26,784	28,873	31,279	79,317	115	27
1,910	29,716	290,027	-	2,129	7,179	12,905	509	28
216,676	4,461,061	3,860,374	440,477	246,614	375,542	1,305,027	17,351	29

<sup>r</sup> Figures not appropriate or not applicable.  
Revised figures.

TABLE 3. Supply of Electric Energy

January - September 1964

Month	Total net generation	Imports from United States	Exports to United States	Net energy used in Canada	Secondary energy used in Canada	Firm energy used in Canada	Daily average, total net generation
thousand kwh.							
January .....	11,674,881	181,965	406,713	11,450,133	250,727	11,199,406	376,609
February .....	10,856,487	206,294	342,852	10,719,929	235,561	10,484,368	374,362
March .....	11,355,941	207,822	333,486	11,230,277	231,591	10,998,686	366,321
April .....	10,839,225	182,453	343,625	10,678,053	216,875 <sup>r</sup>	10,461,178	361,308
May .....	10,732,071 <sup>r</sup>	244,896	336,816	10,640,151 <sup>r</sup>	254,321 <sup>r</sup>	10,385,830 <sup>r</sup>	346,196 <sup>r</sup>
June .....	10,451,625 <sup>r</sup>	268,675	265,943	10,454,357 <sup>r</sup>	299,248 <sup>r</sup>	10,155,109 <sup>r</sup>	348,388 <sup>r</sup>
July .....	10,633,406	279,464	337,604	10,575,266	382,608	10,192,658	343,013
August .....	10,710,003	303,559	368,296	10,645,266	328,626	10,316,640	345,484
September .....	10,847,155	263,780	365,785	10,745,150	315,552	10,429,598	361,572
Year .....							

<sup>r</sup> Revised figures.

TABLE 4. Sales of Electric Energy to Ultimate Customers

January - June 1964

Month	Domestic	Farm(1)	General service (commercial)	Firm power	Secondary power	Total power	Street lighting	Total sales to ultimate customers
thousand kwh.								
January .....	2,424,569	83,464	950,408	6,255,348	250,727	6,506,075	78,985	10,043,501
February .....	2,312,091	92,606	934,538	6,035,298	235,561	6,270,859	71,711	9,681,805
March .....	2,203,444	91,134	938,812	6,473,577	231,591	6,705,168	70,581	10,009,139
April .....	2,096,791	87,051	933,433	6,302,515	216,875	6,519,390	64,935	9,701,600
May .....	1,974,884	82,304	882,680	6,504,601	254,321	6,758,922	60,833	9,759,623
June .....	1,768,366	76,456	875,034	6,369,818	299,248	6,669,066	58,509	9,441,431
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Year .....								

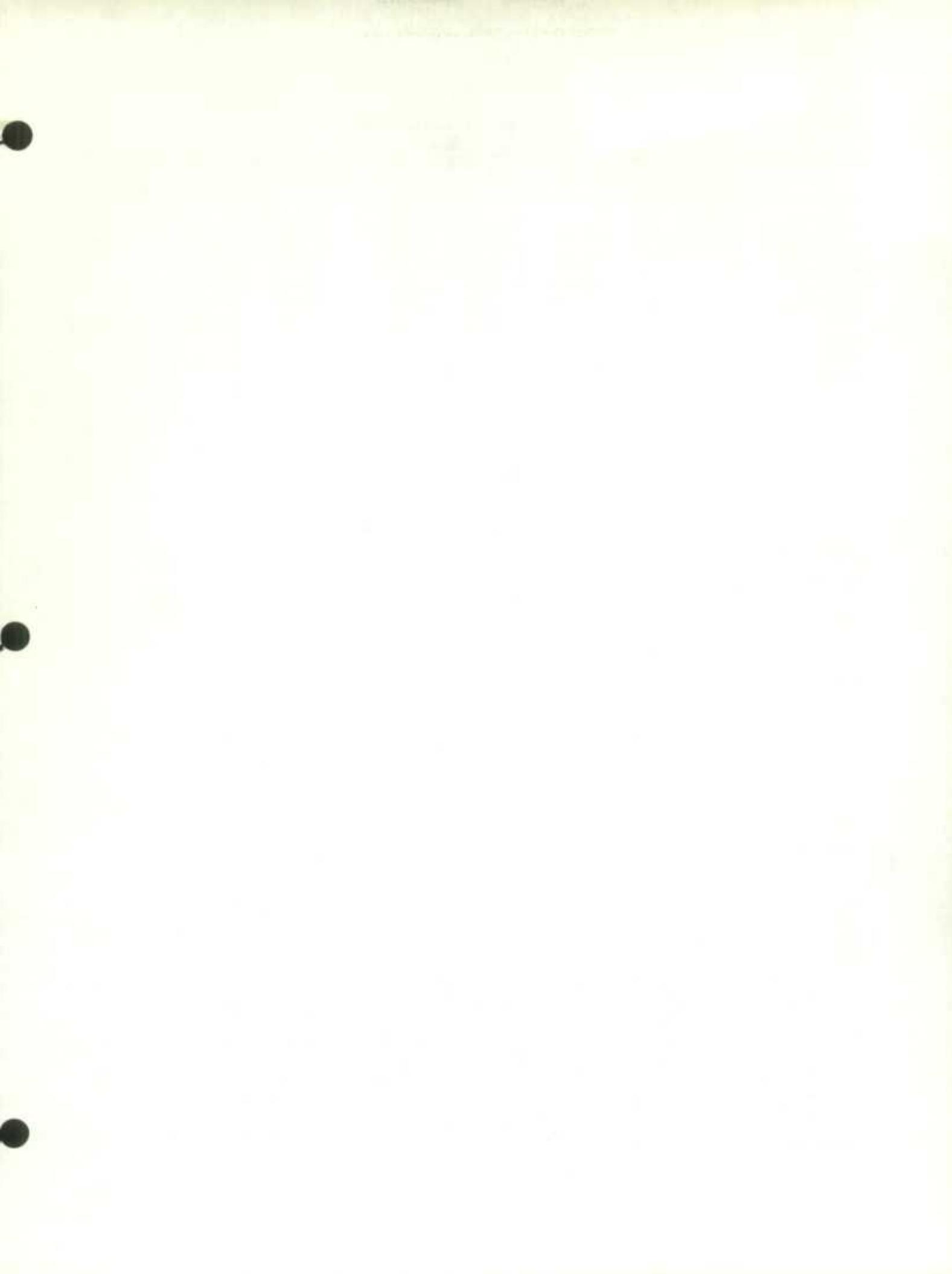
(1) Many utilities cannot distinguish between domestic and farm, as they do not keep separate records.

TABLE 5. Net Generation, 1960-64

CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
thousand kwh.							
1960 .....	83,024,886	5,957,979	88,982,865	22,743,499	2,313,010	25,056,509	114,039,375
1961 .....	82,014,614	7,049,079	89,063,693	21,660,132	2,497,588	24,157,720	113,221,413
1962 .....	80,861,406	10,781,660	91,643,066	22,789,817	2,570,288	25,360,105	117,003,171
1963 .....	80,214,421	15,428,726	95,643,147	23,102,958	2,811,630	25,914,588	121,557,735
1964 .....							
1964 - January ..	7,431,032	1,738,748	9,169,780	2,224,468	280,633	2,505,101	11,674,881
February ..	6,974,373	1,511,183	8,485,556	2,086,693	284,238	2,370,931	10,856,487
March .....	7,469,733	1,360,388	8,830,121	2,226,810	299,010	2,525,820	11,355,941
April .....	7,145,512	1,227,732	8,373,244	2,178,439	287,542	2,465,981	10,839,225
May .....	7,327,904 <sup>r</sup>	857,423 <sup>r</sup>	8,185,327 <sup>r</sup>	2,255,020 <sup>r</sup>	291,724 <sup>r</sup>	2,546,744 <sup>r</sup>	10,732,071 <sup>r</sup>
June .....	6,871,959 <sup>r</sup>	928,685	7,800,644 <sup>r</sup>	2,372,617 <sup>r</sup>	278,364 <sup>r</sup>	2,650,981 <sup>r</sup>	10,451,625 <sup>r</sup>
July .....	6,842,234	1,090,081	7,932,315	2,427,533	273,558	2,701,091	10,633,406
August .....	6,569,172	1,361,238	7,930,410	2,480,664	298,929	2,779,593	10,710,003
September ..	6,475,386	1,645,820	8,121,206	2,441,809	284,140	2,725,949	10,847,155
October .....							
November .....							
December .....							

<sup>r</sup> Revised figures.



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