

S E R V I C E B U L L E T I N

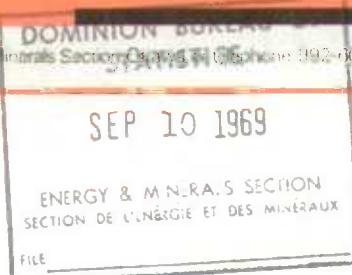


ENERGY STATISTICS

For further information write to DBS Energy and Minerals Section, Ottawa, Ontario K1A 0L2, telephone 399-6014 (Area Code 613)

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FOR REVIEW

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1. Electricity Bills for Domestic, Commercial and Small Power Service 1968, Catalogue No. 57-203

The 1968 Electricity Bills Report which will be released in about two months is based on rate schedules supplied by the power companies and municipalities responsible for the distribution of electric energy in 172 Canadian municipalities. It consists of the actual cost to consumers of definite quantities of electricity for specific uses. The cost to the consumers includes not only the amounts accruing to the distributor but also all federal, provincial and municipal taxes on such purchases. Discounts for prompt payment have been deducted from gross bills wherever granted.

Changes in Bills During 1968

There were no changes in domestic, commercial or power bills in New Brunswick, Quebec, Saskatchewan or British Columbia. Changes in the other provinces were generally upward.

In Newfoundland, four of the six municipalities in the survey experienced increased bills while reductions occurred in Carbonear and Stephenville. The bills are now identical for all six municipalities. An increase in sales tax from 6% to 7% was partially responsible for the increase in bills.

Changes in Prince Edward Island consisted of decreases in electric heating bills and power service loads of 50 Kw and 100 Kw in Summerside.

In Nova Scotia there were increases in domestic, commercial and power service bills in Bridgewater and Glace Bay.

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There were increases in domestic service bills in 26 of the 58 municipalities in the Ontario survey. In 10 other municipalities bills were increased for low monthly energy consumptions and decreased for the higher energy consumptions. Changes in commercial (general service) rates resulted in higher bills in 18 municipalities, lower in 1 municipality (Pembroke) and a mixture of higher and lower bills depending upon billed loads and energy consumptions in 17 municipalities. Power rates were increased in 23 municipalities while a mixture of higher and lower bills occurred as a result of rate changes in 15 municipalities.

With the exception of Winnipeg and The Pas, all municipalities in the Manitoba survey had increased bills for all rate categories of service. Winnipeg bills were unchanged from 1967 and there were reductions in all rate categories in The Pas.

The only changes in Alberta were decreased commercial bills and increased power bills in Calgary.

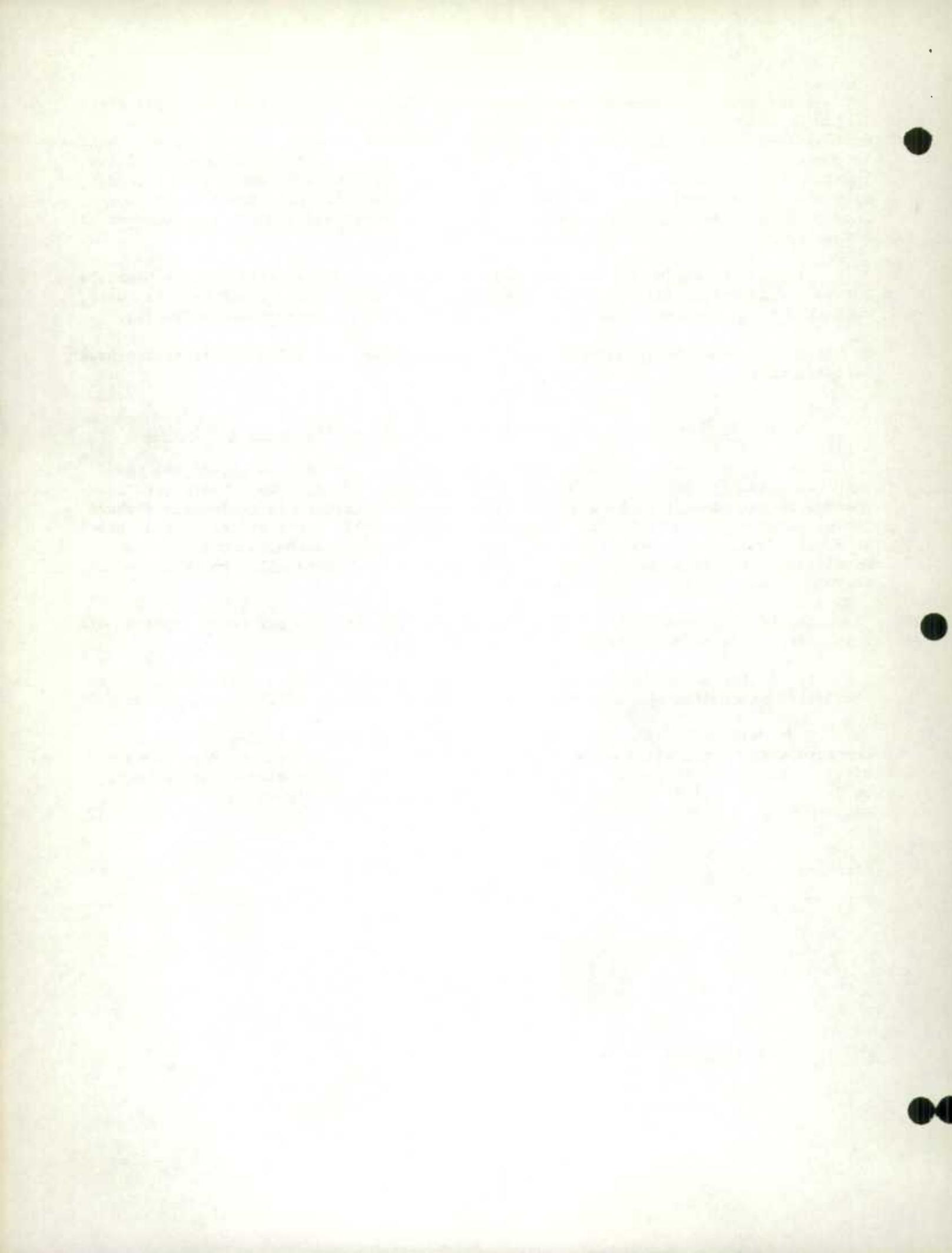
2. Preliminary Electric Energy Statistics, July 1969, Catalogue 57-001

Net generation of electric energy increased 7.8 per cent to 14,504,291 thousand kwh. in July 1969 from 13,452,298 thousand kwh. in July 1968. There were increases in net generation in all provinces with the exception of Newfoundland where labour disputes in the iron ore industry were responsible for a decrease of 33 per cent. In July, as has been the case in the previous few months favourable water conditions resulted in an 8.8 per cent increase in hydro generation while output of thermal plants increased 3.9 per cent.

Imports increased 5.1 per cent and exports were up 50.0 per cent compared with July 1968. Firm energy consumption increased 6.8 per cent.

Total generation for the twelve month period ending July 31, 1969 amounted to 183,398,927 thousand kwh. compared with 182,931,934^r thousand kwh. ending in June.

Seasonally adjusted, net generation in July amounted to 15,886 million kwh. compared with 15,659 million kwh. in June and 15,816 million kwh. in May. Firm energy comsumption amounted to 15,581 million kwh. on a seasonally adjusted basis, up from 15,269 million kwh. in June and 15,438 million kwh. in May.

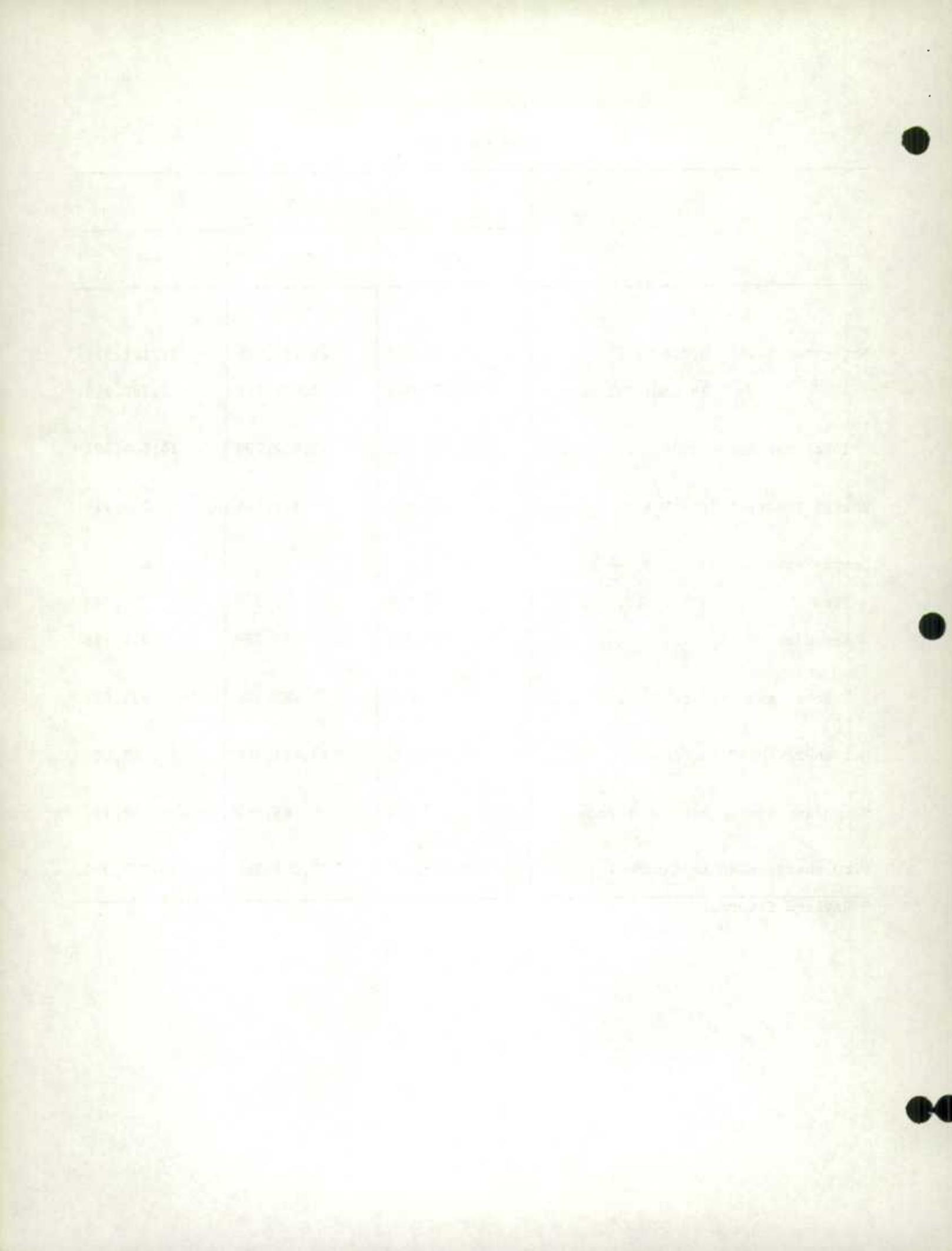


Preliminary Electric Energy Statistics

(thousand kwh)

	July		
	1967	1968	1969
Net generation - Hydro	10,517,165	10,774,036	11,721,326
Thermal	1,931,048	2,678,262	2,782,965
Total net generation	12,448,213	13,452,298	14,504,291
Energy imported from U.S.A.	343,905	222,546	233,916
Energy exported to U.S.A. :			
Firm	43,816	57,330	62,747
Secondary	277,826	165,750	271,828
Total exported to U.S.A.	321,642	223,080	334,575
Net energy used in Canada	12,470,476	13,451,764	14,403,632
Secondary energy used in Canada ...	112,402	89,564	131,272
Firm energy used in Canada	12,358,074	13,362,200	14,272,360

r Revised figures.



3. Energy Supply-Demand Balance, Canada 1958-64

Recently completed statistics indicate that the production of energy in Canada increased by almost 10 per cent per annum in the period 1958-64, with some dramatic changes in the pattern of the energy mix-coal's contribution dropping from 12.2% to 6.6%, while natural gas increased its share from 19.9% to 31.5%. With the substantial growth in the export of energy commodities, particularly natural gas and crude petroleum, the nation's reliance on imports dropped sharply - from a net import of 860 million B.T.U. in 1958 to the 1964 figure of 409 million B.T.U. This was accomplished at a time when the consumption of energy increased from 2,739 million B.T.U. to 3,659 million B.T.U. Regional data show the Prairies as having the highest per capita consumption of energy (232 million B.T.U.) while the Maritimes have the lowest (152 million B.T.U.). Ontario has the highest industrial and domestic consumption.

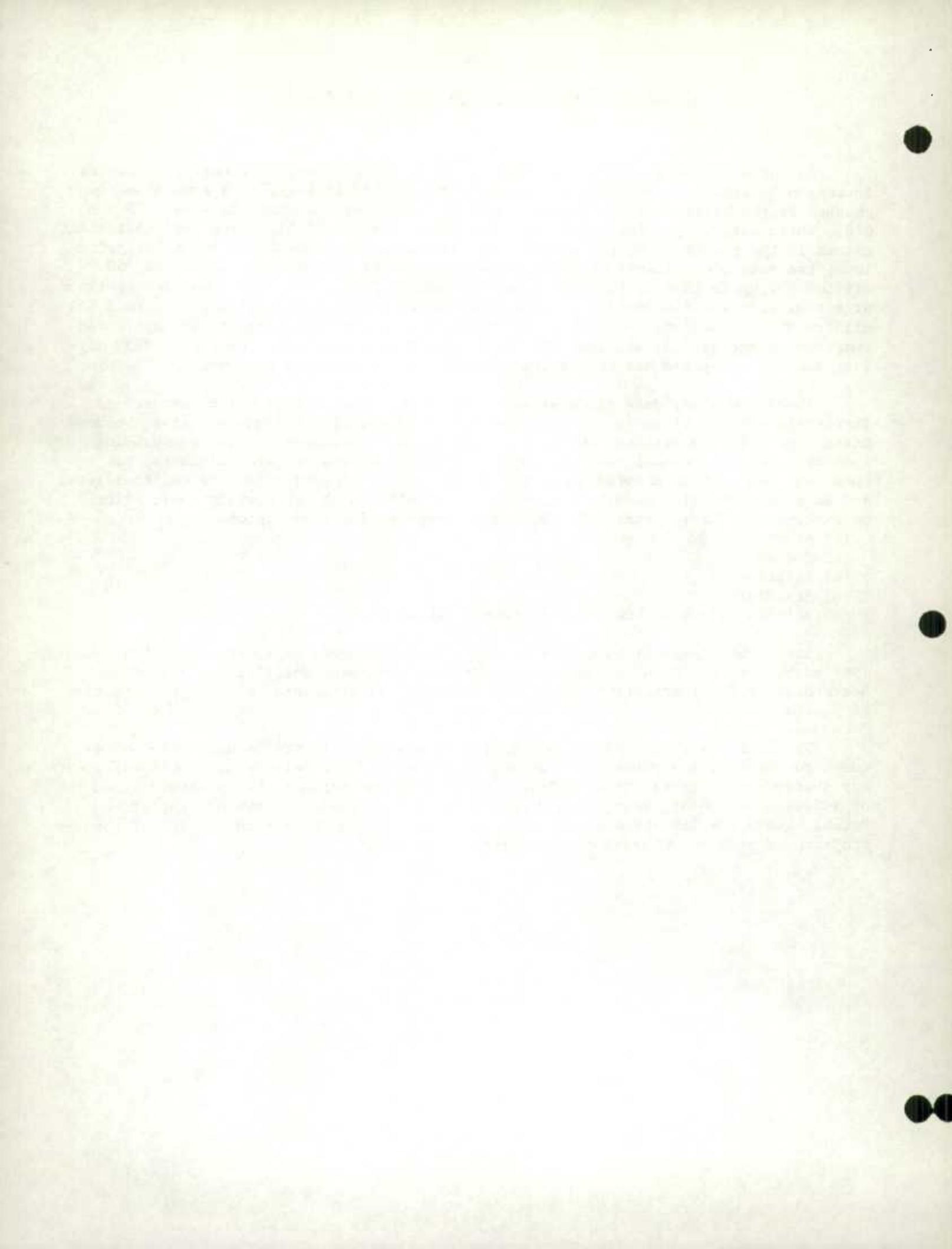
These and other data are available from statistical tables which measure and inter-relate the various energy forms entering the Canadian economy by using a common measuring unit, the British Thermal Unit, or B.T.U. Presented in the accompanying summary form are national data, although a complete series of balance sheets, has been compiled in both natural units and B.T.U.'s, for regions below the national level and in a more detailed form. Because confidentiality problems prevent publication on a provincial basis, statistics have been compiled for five regions:

- (a) Atlantic
- (b) Quebec
- (c) Ontario
- (d) Prairies
- (e) British Columbia, Yukon and Northwest Territories

Background information on the concepts and techniques employed are in the June 1969 edition of the Canadian Statistical Review, Catalogue No. 11-203 and in the Seventh World Power conference Paper 258 Concepts and Principles of Energy Statistics of Canada.

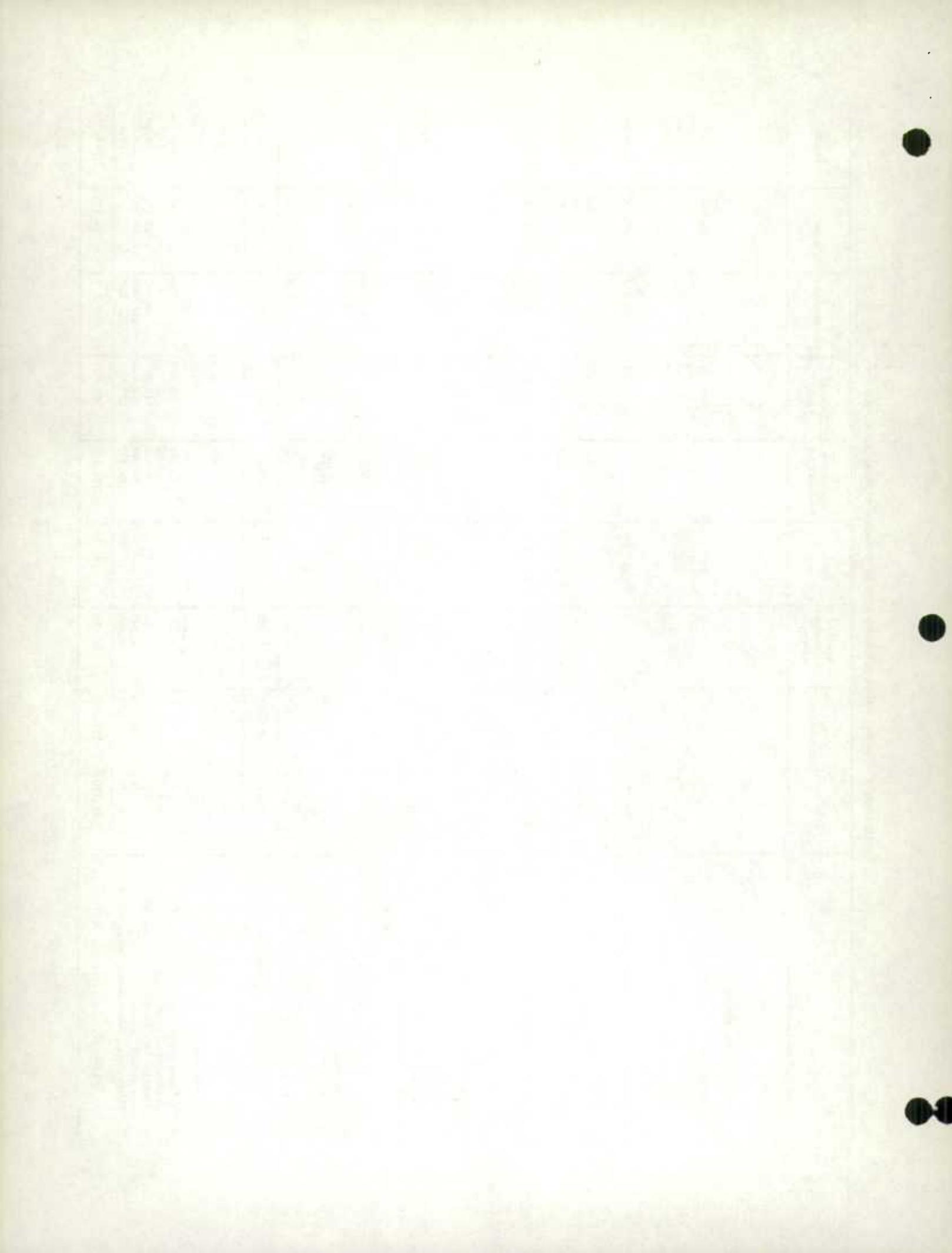
The complete series of balance sheets is available in preliminary form on request to the Dominion Bureau of Statistics, Energy and Minerals Section, Ottawa. Any queries or requests for information concerning the balance sheets should also be addressed to Chief, Energy and Minerals Section, Dominion Bureau of Statistics, Ottawa. Data for 1965-68 are currently under development as a second stage of the project and will be released as they become available.

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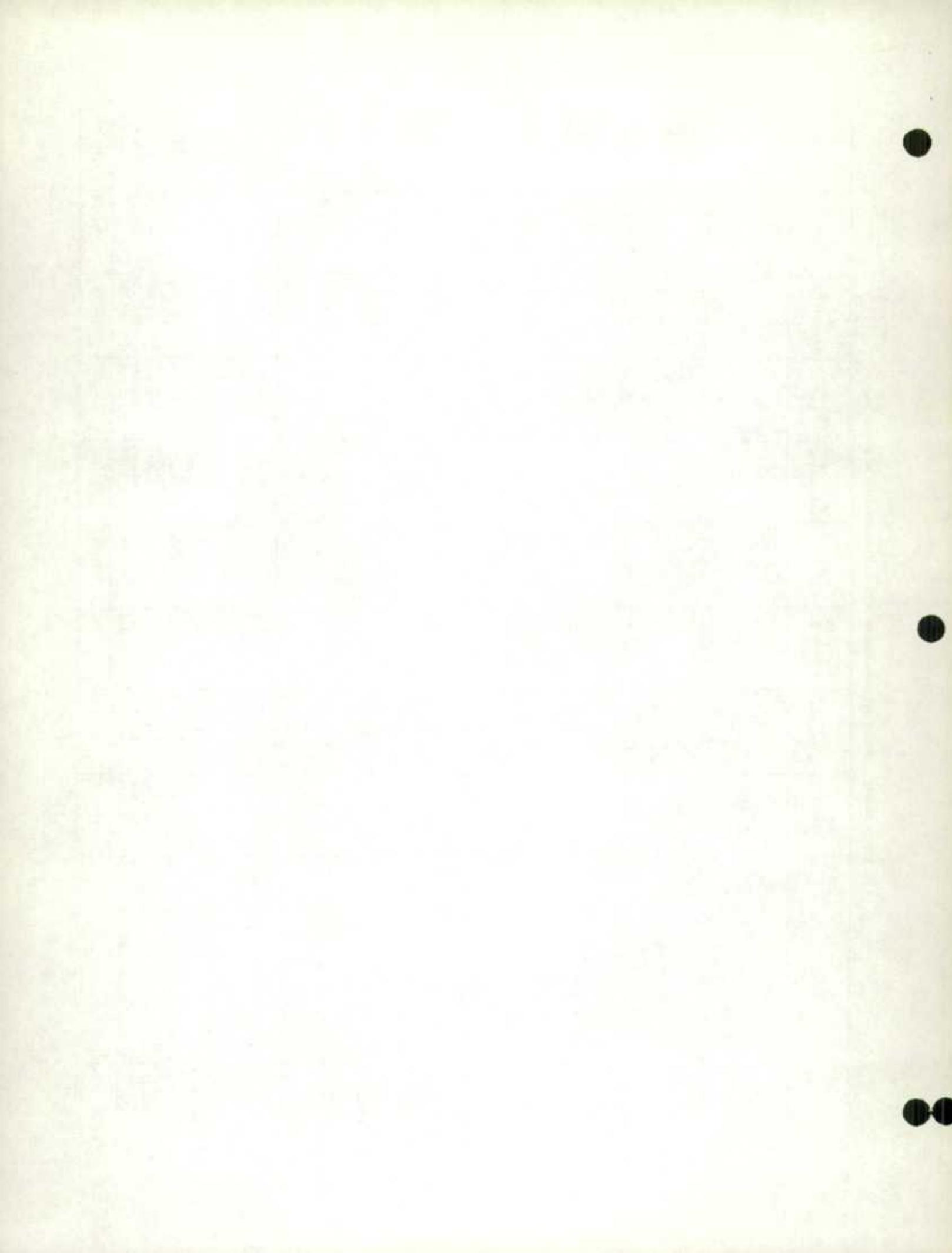
Energy Supply - Demand Balance, Canada 1958 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	250,304	-	7,461	967,992	-	406,991	308,817	106,545	2,048,110
Exports	8,761	-	92	178,352	-	96,370	13,941	48	297,564
Imports	343,516	-	-	623,458	-	34,441	836	-	1,002,251
Other (stock change, etc.)	19,209	-	- 155	-	-	- 4,986	-	-	14,068
Availability	604,268	-	7,214	1,413,098	-	340,076	295,712	106,497	2,766,865
Converted:									
To electricity	45,062	-	-	-	-	34,192	-	6,390	85,644
To coal derivatives	123,096	-	-	-	-	-	-	-	123,096
To refined products	-	-	594	1,406,332	-	-	-	-	1,406,925
Direct consumption	436,110	-	6,620	6,766	-	305,883	295,712	100,107	1,151,199
B. Secondary energy supply:									
Output	-	110,949	10,737	-	1,237,298	-	23,940	-	1,382,924
Exports	-	2,866	661	-	5,594	-	-	-	9,121
Imports	-	7,572	1,690	-	155,527	-	-	-	164,789
Other (stock change, etc.)	-	- 382	- 298	-	68,137	-	-	-	67,456
Availability	-	115,273	11,468	-	1,455,368	-	23,940	-	1,606,048
Transformed:									
To electricity	-	1,542	-	-	17,117	-	-	-	18,659
Direct consumption	-	113,731	11,468	-	1,438,251	-	23,940	-	1,587,390
Total direct consumption	436,110	113,731	18,088	6,766	1,438,251	305,883	319,652	100,107	2,738,589
C. Consumption:									
By fuel producers	3,806	-	1,054	6,528	113,379	30,460	30,514	-	185,741
Transportation	58,853	-	-	-	676,822	-	-	-	735,675
Domestic and farm	119,802	5,414	9,330	-	366,714	78,955	58,997	59,470	698,682
Industrial	218,676	104,224	1,523	-	184,989	62,940	194,062	40,637	807,051
Other (e.g. Government, loss, etc.) ...	34,973	4,093	6,181	238	96,347	133,528	36,079	-	311,439
Totals	436,110	113,731	18,088	6,766	1,438,251	305,883	319,652	100,107	2,738,589



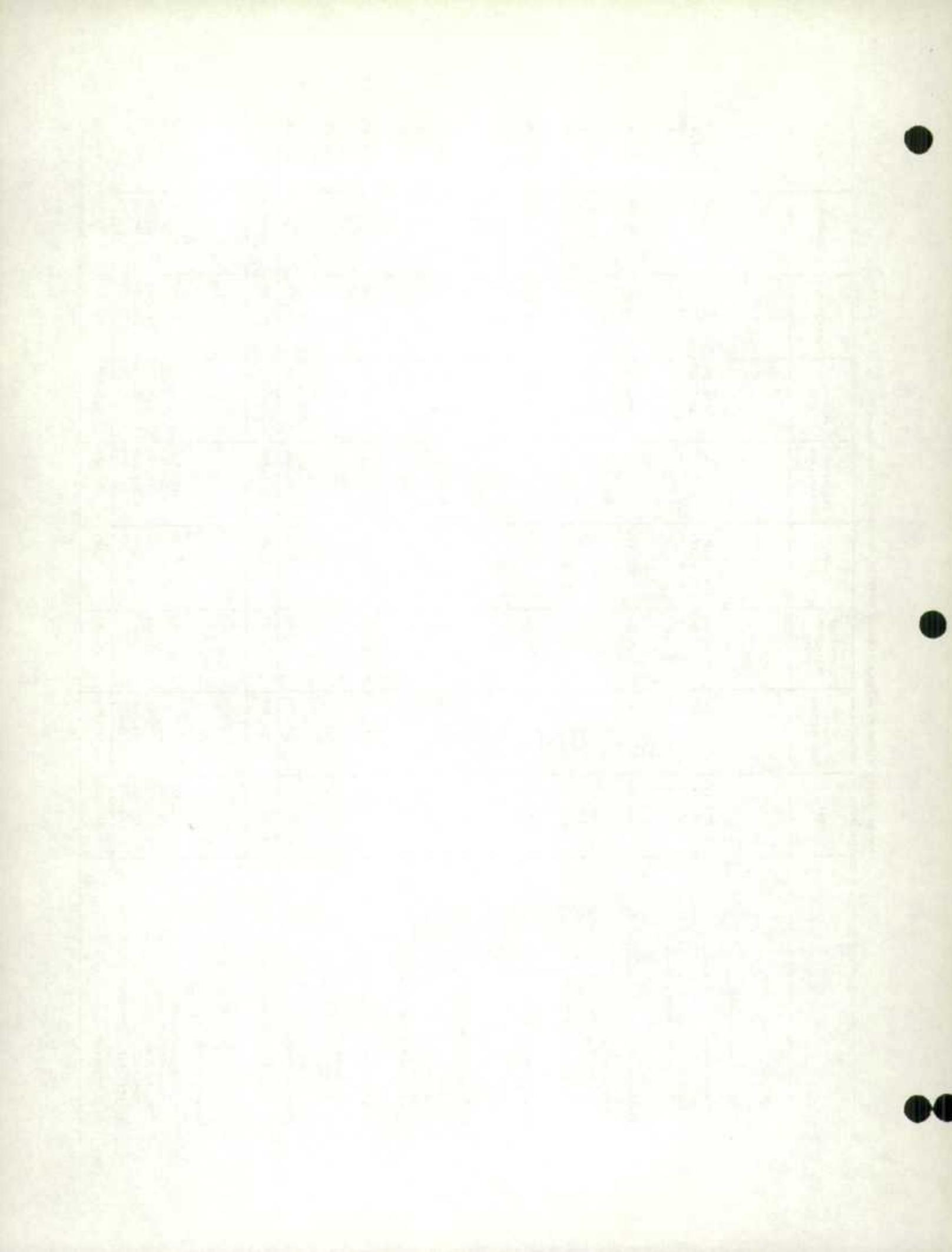
Energy Supply - Demand Balance, Canada 1959 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	226,928	-	12,869	1,085,353	-	477,645	331,100	101,834	2,235,729
Exports	11,805	-	2,457	201,480	-	89,007	15,671	56	320,476
Imports	350,576	-	-	675,134	-	12,528	1,747	-	1,039,985
Other (stock change, etc.)	27,237	-	- 194	-	-	- 344	-	-	26,698
Availability	592,936	-	10,218	1,559,007	-	400,822	317,175	101,778	2,981,936
Converted:									
To electricity	40,994	-	-	-	-	44,565	-	6,840	92,399
To coal derivatives	145,416	-	-	-	-	-	-	-	145,416
To refined products	-	-	696	1,555,225	-	-	-	-	1,555,922
Direct consumption	406,526	-	9,522	3,782	-	356,257	317,175	94,938	1,188,199
B. Secondary energy supply:									
Output	-	130,732	11,575	-	1,401,547	-	26,036	-	1,569,890
Exports	-	2,737	997	-	9,450	-	-	-	13,184
Imports	-	9,490	457	-	209,862	-	-	-	219,809
Other (stock change, etc.)	-	- 1,535	- 633	-	- 13,403	-	-	-	- 15,571
Availability	-	135,950	10,402	-	1,588,555	-	26,036	-	1,760,944
Transformed:									
To electricity	-	1,705	-	-	19,445	-	-	-	21,150
Direct consumption	-	134,245	10,402	-	1,569,110	-	26,036	-	1,739,793
Total direct consumption	406,526	134,245	19,924	3,782	1,569,110	356,257	343,211	94,938	2,927,993
C. Consumption:									
By fuel producers	2,857	-	1,671	3,536	124,279	38,738	33,540	-	204,621
Transportation	35,367	-	-	-	707,429	-	-	-	742,796
Domestic and farm	109,420	3,940	10,757	-	408,855	102,871	64,852	56,528	757,224
Industrial	204,306	127,780	1,748	-	205,540	102,433	203,820	38,410	884,037
Other (e.g. Government, loss, etc.) ...	54,576	2,524	5,748	246	123,007	112,215	40,999	-	339,315
Totals	406,526	134,245	19,924	3,782	1,569,110	356,257	343,211	94,938	2,927,993



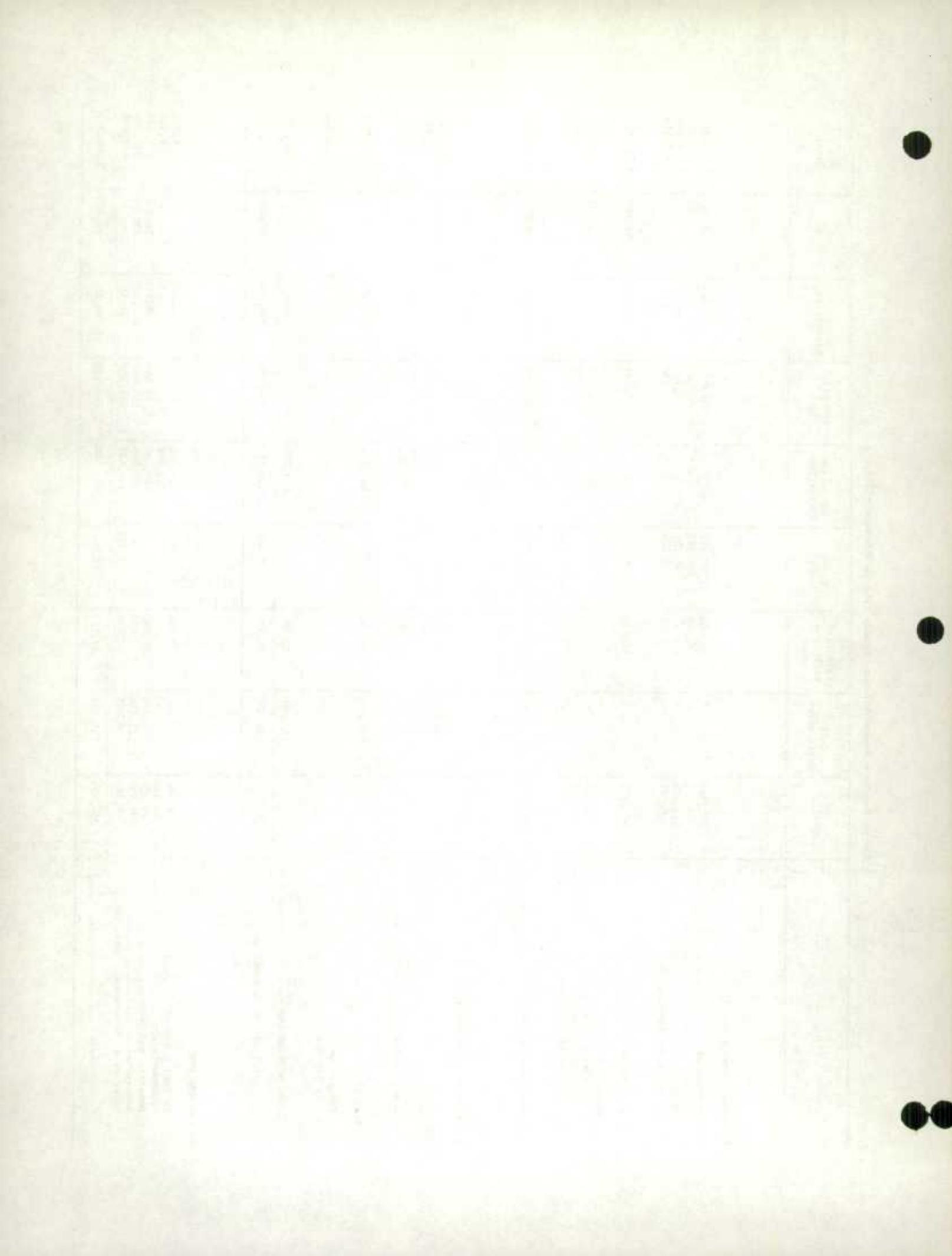
Energy Supply - Demand Balance, Canada 1960 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	231,760	-	13,841	1,130,556	-	578,577	361,272	96,645	2,412,651
Exports	22,183	-	3,790	240,081	-	117,422	18,807	50	402,333
Imports	316,639	-	-	735,804	-	5,939	1,218	-	1,059,600
Other (stock change, etc.)	4,107	-	357	-	-	- 6,362	-	-	- 1,898
Availability	530,323	-	10,408	1,626,279	-	460,732	343,683	96,595	3,068,020
Converted:									
To electricity	47,098	-	-	25	-	45,105	-	7,740	99,968
To coal derivatives	135,912	-	-	-	-	-	-	-	135,912
To refined products	-	-	1,310	1,619,825	-	-	-	-	1,621,135
Direct consumption	347,313	-	9,098	6,429	-	415,627	343,683	88,855	1,211,005
B. Secondary energy supply:									
Output	-	123,176	12,873	-	1,435,172	-	29,256	-	1,600,477
Exports	-	2,672	1,888	-	11,233	-	-	-	15,793
Imports	-	7,383	488	-	197,319	-	-	-	205,190
Other (stock change, etc.)	-	293	610	-	29,575	-	-	-	30,478
Availability	-	128,180	12,083	-	1,650,833	-	29,256	-	1,820,352
Transformed:									
To electricity	-	1,918	-	-	24,939	-	-	-	26,857
Direct consumption	-	126,262	12,083	-	1,625,894	-	29,256	-	1,793,495
Total direct consumption	347,313	126,262	21,181	6,429	1,625,894	415,627	372,939	88,855	3,004,500
C. Consumption:									
By fuel producers	2,332	-	1,446	6,122	131,840	43,531	33,846	-	219,117
Transportation	21,429	-	-	-	724,162	-	-	-	745,591
Domestic and farm	91,850	3,082	13,242	-	420,063	115,907	69,594	54,326	768,064
Industrial	190,203	120,049	2,022	-	202,277	128,673	226,397	34,529	904,150
Other (e.g. Government, loss, etc.) ...	41,499	3,131	4,471	307	147,552	127,516	43,102	-	367,578
Totals	347,313	126,262	21,181	6,429	1,625,894	415,627	372,939	88,855	3,004,500



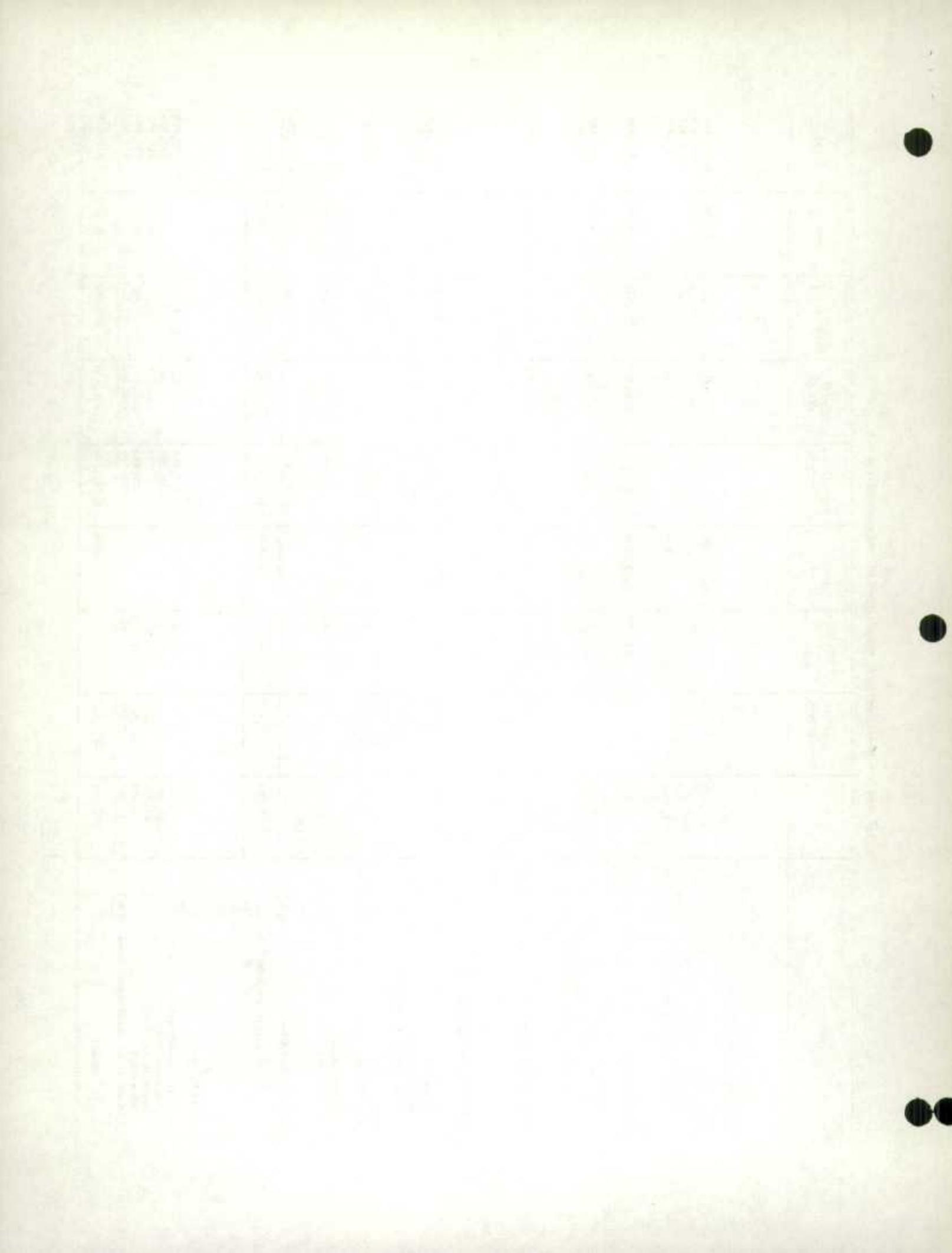
Energy Supply - Demand Balance, Canada 1961 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	222,345	-	16,464	1,332,177	-	718,327	354,572	91,707	2,735,593
Exports	24,562	-	4,149	390,339	-	180,737	14,185	41	614,013
Imports	312,422	-	-	773,339	-	5,865	4,756	-	1,096,382
Other (stock change, etc.)	9,088	-	116	- 5,570	-	- 6,557	-	-	- 2,923
Availability	519,293	-	12,431	1,709,607	-	536,898	345,143	91,666	3,215,039
Converted:									
To electricity	55,215	-	-	47	-	48,716	-	7,092	111,070
To coal derivatives	137,148	-	-	-	-	-	-	-	137,148
To refined products	-	-	2,103	1,707,391	-	-	-	-	1,709,494
Direct consumption	326,930	-	10,328	2,169	-	488,182	345,143	84,574	1,257,327
B. Secondary energy supply:									
Output	-	124,040	15,688	-	1,475,652	-	33,417	-	1,648,797
Exports	-	3,305	116	-	6,762	-	-	-	10,183
Imports	-	7,163	401	-	158,683	-	-	-	166,247
Other (stock change, etc.)	-	3,532	- 4,589	-	53,581	-	-	-	52,524
Availability	-	131,430	11,384	-	1,681,154	-	33,417	-	1,857,385
Transformed:									
To electricity	-	1,994	-	-	27,770	-	-	-	29,764
Direct consumption	-	129,436	11,384	-	1,653,384	-	33,417	-	1,827,621
Total direct consumption	326,930	129,436	21,713	2,169	1,653,384	488,182	378,561	84,574	3,084,949
C. Consumption:									
By fuel producers	1,525	-	1,326	232	128,998	52,877	34,819	-	219,777
Transportation	16,280	-	-	-	743,588	-	-	-	759,869
Domestic and farm	81,608	2,575	14,065	-	423,408	128,088	74,981	55,004	779,729
Industrial	177,932	122,470	3,876	-	202,486	159,657	219,577	29,570	915,568
Other (e.g. Government, loss, etc.) ...	49,585	4,391	2,446	1,937	154,904	147,560	49,183	-	410,006
Totals	326,930	129,436	21,713	2,169	1,653,384	488,182	378,561	84,574	3,084,949



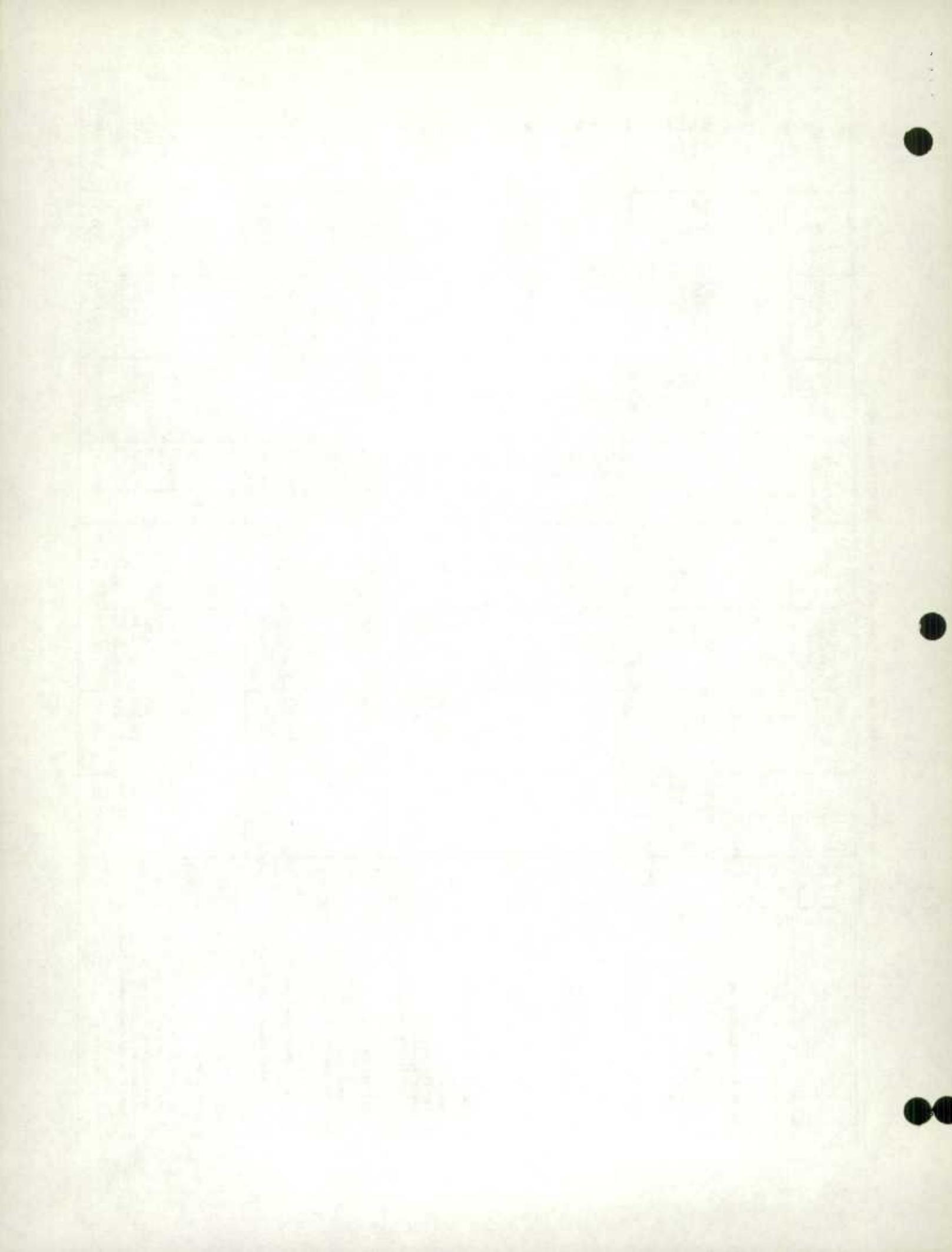
Energy Supply - Demand Balance, Canada 1962 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	217,709	-	21,064	1,518,878	-	968,947	355,021	83,235	3,164,854
Exports	22,728	-	5,259	499,798	-	363,381	14,032	53	905,251
Imports	317,033	-	264	785,430	-	5,806	9,481	-	1,118,014
Other (stock change, etc.)	15,886	-	339	224	-	208	-	-	15,979
Availability	527,900	-	15,730	1,804,734	-	611,580	350,470	83,182	3,393,596
Converted:									
To electricity	88,979	-	35	27	-	52,045	-	5,976	147,062
To coal derivatives	140,325	-	3,337	1,793,881	-	-	-	-	1,937,543
To refined products	-	-	-	-	-	-	-	-	-
Direct consumption	298,596	-	12,358	10,826	-	559,535	350,470	77,206	1,308,991
B. Secondary energy supply:									
Output	-	128,152	13,946	-	1,586,916	-	45,782	-	1,774,796
Exports	-	2,917	-	-	19,011	-	-	-	21,928
Imports	-	6,133	80	-	165,913	-	-	-	172,126
Other (stock change, etc.)	-	1,523	- 2,371	-	56,595	-	-	-	55,747
Availability	-	132,891	11,655	-	1,790,413	-	-	-	1,980,741
Transformed:									
To electricity	-	1,421	-	-	29,081	-	-	-	30,502
Direct consumption	-	131,470	11,655	-	1,761,332	-	45,782	-	1,950,239
Total direct consumption	298,596	131,470	24,013	10,826	1,761,332	559,535	396,252	77,206	3,259,230
C. Consumption:									
By fuel producers	1,066	-	1,541	5,273	136,788	77,229	36,919	-	258,816
Transportation	14,255	-	-	-	780,789	-	-	-	795,044
Domestic and farm	69,530	2,208	17,576	-	449,719	143,074	80,837	51,449	814,393
Industrial	169,398	127,037	2,535	-	229,981	174,852	233,480	25,757	953,040
Other (e.g. Government, loss, etc.)	44,347	2,225	2,361	5,553	164,055	164,380	55,016	-	437,937
Totals	298,596	131,470	24,013	10,826	1,761,332	559,535	396,252	77,206	3,259,230



Energy Supply - Demand Balance, Canada 1963 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	227,253	-	27,452	1,621,272	-	1,041,785	354,573	76,840	3,349,175
Exports	26,554	-	6,116	525,923	-	377,587	12,327	54	948,561
Imports	381,088	-	405	850,979	-	7,165	9,841	-	1,249,478
Other (stock change, etc.)	- 14,634	-	- 639	- 2,566	-	- 8,901	-	-	- 26,740
Availability	567,153	-	21,102	1,943,762	-	662,462	352,087	76,786	3,623,352
Converted:									
To electricity	128,469	-	33	18	-	56,477	-	6,491	191,488
To coal derivatives	147,658	-	-	-	-	-	-	-	147,658
To refined products	-	-	4,881	1,927,323	-	-	-	-	1,932,204
Direct consumption	291,026	-	16,188	16,421	-	605,985	352,087	70,295	1,352,002
B. Secondary energy supply:									
Output	-	136,207	33,508	-	1,743,632	-	62,504	-	1,975,851
Exports	-	3,153	1,506	-	18,880	-	-	-	23,539
Imports	-	5,818	54	-	181,456	-	-	-	187,328
Other (stock change, etc.)	-	- 1,042	- 20,226	-	- 5,292	-	-	-	- 26,560
Availability	-	137,830	11,830	-	1,900,916	-	62,504	-	2,113,080
Transformed:									
To electricity	-	1,317	-	-	32,620	-	-	-	33,937
Direct consumption	-	136,513	11,830	-	1,868,296	-	62,504	-	2,079,143
Total direct consumption	291,026	136,513	28,018	16,421	1,868,296	605,985	414,591	70,295	3,431,145
C. Consumption:									
By fuel producers	1,198	-	1,419	4,948	144,368	84,341	37,843	-	274,117
Transportation	13,480	-	-	-	822,909	-	-	-	836,389
Domestic and farm	62,246	2,385	20,601	-	477,333	153,199	86,397	48,995	851,156
Industrial	170,262	134,940	3,418	-	216,551	193,050	226,901	21,300	966,422
Other (e.g. Government, loss, etc.)	43,840	- 812	2,580	11,473	207,135	175,395	63,450	-	503,061
Totals	291,026	136,513	28,018	16,421	1,868,296	605,985	414,591	70,295	3,431,145



Energy Supply - Demand Balance, Canada 1964 in Thousand Million B.t.u.'s

	Coal	Coal derivatives	Liquefied petroleum gases	Crude oil	Petroleum derivatives	Natural gas	Electricity	Wood	Total
A. Primary energy supply:									
Production	240,228	-	45,406	1,740,458	-	1,144,715	387,212	75,476	3,633,495
Exports	32,978	-	16,967	590,268	-	405,968	14,192	54	1,060,427
Imports	382,609	-	270	834,679	-	9,979	10,649	-	1,238,188
Other (stock change, etc.)	- 1,359	-	- 868	- 1,550	-	- 8,991	-	-	- 12,769
Availability	588,500	-	27,841	1,983,319	-	739,735	383,669	75,422	3,798,487
Converted:									
To electricity	153,765	-	14	37	-	54,531	-	7,407	215,755
To coal derivatives	150,972	-	-	-	-	-	-	-	150,972
To refined products	-	-	9,310	1,978,561	-	-	-	-	1,987,872
Direct consumption	283,763	-	18,517	4,721	-	685,204	383,669	68,015	1,443,889
B. Secondary energy supply:									
Output	-	139,551	34,678	-	1,781,356	-	73,363	-	2,028,948
Exports	-	2,215	2,385	-	20,461	-	-	-	25,062
Imports	-	7,831	104	-	248,283	-	-	-	256,216
Other (stock change, etc.)	-	288	- 18,963	-	19,351	-	-	-	679
Availability	-	145,455	13,434	-	2,028,529	-	73,363	-	2,260,781
Transformed:									
To electricity	-	2,173	-	-	43,228	-	-	-	46,401
Direct consumption	-	143,282	13,434	-	1,985,301	-	73,363	-	2,215,380
Total direct consumption	283,763	143,282	31,951	4,721	1,985,301	685,204	457,032	68,015	3,659,269
C. Consumption:									
By fuel producers	1,227	-	2,697	3,112	143,724	108,110	40,499	-	288,368
Transportation	13,841	-	-	-	870,093	-	-	-	883,933
Domestic and farm	53,860	2,008	23,905	-	500,342	169,388	93,071	48,918	891,493
Industrial	176,469	142,689	3,945	-	242,679	214,653	247,360	19,097	1,046,891
Other (e.g. Government, loss, etc.) ...	38,366	- 1,415	1,404	1,609	228,463	193,053	76,102	-	537,584
Totals	283,763	143,282	31,951	4,721	1,985,301	685,204	457,032	68,015	3,659,269

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