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BUILDING PERMITS FOR JUNE, 1930, WITH COMPARATIVE STATEMENTS FOR MAY, 1930,
AND JUNE, 1929, AND CUMULATIVE REPORT FOR FIRST HALF-YEAR, 1920-1930.

The value of the building permits issued by 61 cities during June was \$17,935,478; this was a decrease of \$1,685,824 or 8.6 p.c. as compared with the May total of \$19,621,302, while in comparison with June, 1929, there was also a decline of \$9,881,114 or 35.5 p.c., the value for that month having been \$27,816,592. The aggregate for the first half of 1930, though lower than in 1929 or 1928, was nevertheless considerably above the average for the last ten years, while the wholesale cost of building materials was lower than in most years of the record.

Some 50 cities furnished detailed statements showing that they had issued over 1,200 permits for dwellings valued at nearly \$6,000,000 and some 2,900 permits for other buildings estimated to cost approximately \$11,900,000. During May, authority was given for the erection of over 1,300 dwellings and some 3,200 other buildings, valued at approximately \$5,300,000 and \$10,000,000, respectively.

Improvement over May, 1930, was reported in New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia, the gain of \$474,832 or 5.0 p.c. in Ontario being most pronounced. Of the declines elsewhere, that of \$2,247,055 or 44.1 p.c. in Quebec was largest.

As compared with June, 1929, there were decreases in all provinces except Ontario, British Columbia reporting the greatest loss of \$4,324,240 or 75.6 p.c.

Of the larger cities, Toronto recorded important increases in the value of the permits issued, as compared with both the preceding month and the corresponding month in 1929. Montreal, Winnipeg and Vancouver showed declines in both comparisons. Of the other cities, Sydney, Fredericton, Sherbrooke, Owen Sound, Peterborough, St. Thomas, St. Boniface, Lethbridge, New Westminster, Prince Rupert and Victoria reported improvement over May, 1930, and June, 1929.

Table 1 gives the value of the building permits issued by 61 cities during May and June, 1930, and June, 1929; the 35 cities for which records are available since 1910 are marked thus "x".

CUMULATIVE RECORD FOR FIRST HALF-YEAR, 1920-1930.

The following table gives the value of the building authorized by 61 cities during June and in the first six months of each year since 1920, as well as index numbers for the latter, based upon the total for 1920 as 100. The average index numbers of wholesale prices of building materials in the first six months of the same years are also given, (average 1926=100).

Year	Value of Permits Issued in June	Value of Permits Issued in First Six Months	Indexes of Value of Permits issued, First Six Months, (1920 = 100).	Average indexes of Wholesale prices of Building Materials in First Six Months (1926 average = 100).
	\$	\$		
1930	17,935,478	83,214,024	134.7	98.6
1929	27,816,592	124,609,267	201.8	99.6
1928	22,751,960	102,036,987	165.2	97.0
1927	18,363,239	80,842,719	130.9	96.6
1926	18,718,050	78,760,419	127.5	101.0
1925	14,915,834	65,899,717	106.7	103.1
1924	13,967,006	60,674,154	98.2	110.8
1923	14,286,252	73,047,496	118.3	111.4
1922	17,052,532	71,281,674	115.4	108.0
1921	14,240,934	55,771,684	90.3	132.0
1920	14,113,794	61,754,710	100.0	144.5

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
LABORATORY OF ORGANIC CHEMISTRY
CHICAGO, ILLINOIS

REPORT OF RESEARCH
BY
[Name]
DURING THE YEAR
[Year]

1. INTRODUCTION
The purpose of this research was to investigate the reaction of [Chemical] with [Chemical] under various conditions. The results are discussed in the following sections.

2. EXPERIMENTAL
2.1. Materials and Reagents
[Chemical] was prepared by the reaction of [Chemical] and [Chemical] in the presence of [Catalyst]. The yield was approximately 80%.

2.2. Reaction Conditions
The reaction was carried out in a round-bottom flask equipped with a magnetic stirrer and a reflux condenser. The temperature was maintained at [Temperature] for [Time].

2.3. Analysis
The product was analyzed by [Method]. The results are summarized in the table below.

Sample	Yield (%)	mp (°C)	bp (°C)
1	80	120	150
2	75	115	145
3	85	125	155
4	78	118	148
5	82	122	152

The aggregate for the first half of 1930 was lower by \$41,395,243 or 33.2 p.c. than in 1929, in which year construction authorizations reached their highest level in this record; the total for the first half of the present year, however, was 7.4 p.c. above the six months' average of \$77,467,883 recorded in the ten years, 1920-1929. The average index number of wholesale prices of building materials, moreover, has been lower this year than in most of the years since 1920.

Provincial Totals of Building Permits Issued.

Table 2 is a record by provinces of the building permits issued by 61 cities during the first six months of each year since 1921; it also shows the totals for the same years, the proportion that the six months' aggregates bear to the yearly totals, and the average index numbers of wholesale prices of building materials and of wages in the building trades.

All provinces except Prince Edward Island and New Brunswick reported smaller aggregates of building permits issued than in the first six months of last year; the increase of \$1,414,750 or 159 p.c. in the latter took place chiefly in Saint John. The New Brunswick total for the elapsed months of 1930 was the highest in the eleven years' record. Of the declines elsewhere indicated, that of \$17,008,173, or 52 p.c., in the six cities of Quebec was most pronounced. It is interesting, however, to note that the record of contracts awarded, maintained by the MacLean Building Review, shows for Quebec a substantial increase in the first six months of 1930, as compared with 1929. This took place chiefly in the business and engineering building divisions, the latter of which very often represents work outside the cities.

During the first six months of this year, the 31 cities furnishing returns in Ontario reported 46.3 p.c. of the total value of the building authorized, as compared with 37.0 in the same months of 1929. In Quebec, on the other hand, the proportion decreased from 26.3 p.c. last year, to 19.0 in the elapsed months of 1930, and in British Columbia, from 13.1 p.c. to 10.8 p.c.

Totals of Permits Issued by Four Leading Cities.

In Table 3, are given the aggregates of permits issued in the four largest cities in the first half of each year since 1921, together with the proportion that their totals are of the yearly and half-yearly totals for the 61 cities. The building authorized by these centres was valued at \$40,534,761 in the first six months of 1930; this was 38.7 p.c. lower than in the same months of last year and 17.2 p.c. less than in 1928. With these two exceptions, however, the building authorized considerably exceeded the aggregate for any other year of the record, in most of which the cost of building materials was higher. The decrease in these four cities as compared with 1929 was rather greater than the general decline in the 61 cities, and the ratio to the total for the 61 cities was lower than in the preceding year.

Contracts Awarded.

According to the MacLean Building Review, the value of construction contracts awarded throughout the Dominion during the January-June period, 1930, was \$240,626,000, as compared with \$273,121,700 in 1929, \$256,257,300 in 1928 and \$191,323,800 in 1927. Of the total contracts awarded this year, \$48,586,100 was classed as residential building, \$82,722,900 as business, \$18,451,500 as industrial, and \$90,865,500 as engineering. In 1929, the total was divided as follows:- residential, \$69,513,300; business, \$94,255,300; industrial, \$37,719,600 and engineering, \$76,633,500. Thus the only increase as compared with the first half of 1929, was in the engineering class.

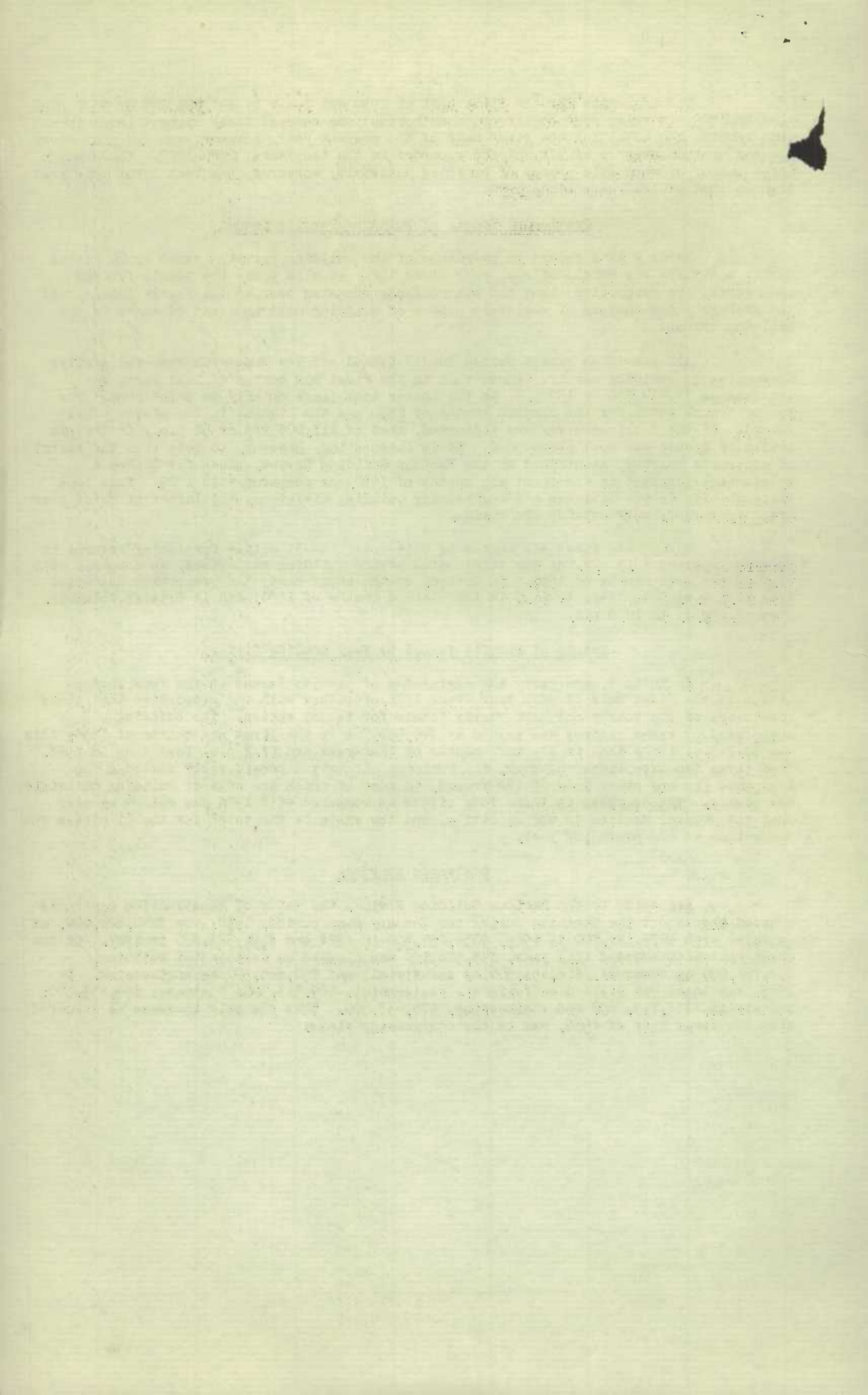


Table 1. Estimated Cost of Building Work as Indicated by Permits Issued by 61 Cities.

Cities	June, 1930	May, 1930	June, 1929
	\$	\$	\$
Prince Edward Island - Charlottetown	Nil	Nil	Nil
Nova Scotia	236,064	387,690	242,037
x Halifax	140,610	331,682	137,852
New Glasgow	1,600	9,950	93,250
x Sydney	93,854	46,058	10,935
New Brunswick	150,470	128,780	181,460
Fredericton	55,000	-	Nil
x Moncton	26,135	87,225	50,275
x Saint John	69,335	41,555	131,185
Quebec	2,844,854	5,091,909	5,546,002
x Montreal - x Maisonneuve	1,985,518	3,527,543	3,697,114
x Quebec	505,811	1,071,006	1,193,273
Shawinigan Falls	5,500	99,640	80,065
x Sherbrooke	117,500	97,300	103,200
x Three Rivers	8,500	35,920	176,000
x Westmount	222,025	260,500	296,350
Ontario	10,049,273	9,574,441	9,974,637
Belleville	13,800	29,975	27,650
x Brantford	38,047	28,792	19,408
Chatham	30,135	12,100	55,000
x Fort William	60,500	43,650	180,900
Galt	27,531	33,425	16,130
x Guelph	29,701	65,418	168,295
x Hamilton	1,066,550	334,650	1,355,800
x Kingston	51,848	271,886	30,884
x Kitchener	129,811	112,073	131,255
x London	194,980	1,125,730	252,415
Niagara Falls	31,140	108,260	108,755
Oshawa	16,450	16,710	147,550
x Ottawa	255,480	3,505,065	502,960
Owen Sound	20,150	10,150	15,100
x Peterborough	484,105	22,130	18,445
x Port Arthur	42,685	28,321	169,420
x Stratford	28,531	52,203	111,041
x St. Catharines	58,620	48,440	103,550
x St. Thomas	80,800	20,260	24,235
Sarnia	90,013	64,580	448,029
Sault Ste. Marie	48,654	61,498	214,790
x Toronto	6,282,851	2,520,908	3,396,474
York and East York Townships	598,188	806,050	1,032,330
Welland	16,140	28,660	7,635
x Windsor	259,795	143,772	1,196,553
East Windsor	26,845	8,170	47,990
Riverside	7,100	15,300	65,450
Sandwich	14,380	13,750	52,200
Walkerville	23,000	8,000	60,000
Woodstock	21,443	34,515	14,393
Manitoba	1,085,432	1,083,524	1,580,386
x Brandon	1,602	5,104	15,426
St. Boniface	62,780	18,220	31,610
x Winnipeg	1,021,050	1,060,200	1,533,350
Saskatchewan	1,247,777	1,148,134	2,413,956
x Moose Jaw	26,075	23,960	41,426
x Regina	452,002	409,969	1,022,105
x Saskatoon	769,700	714,205	1,350,425
Alberta	928,434	868,796	2,160,700
x Calgary	278,881	290,056	1,106,965
x Edmonton	442,520	503,210	976,915
Lethbridge	196,453	68,195	64,940
Medicine Hat	10,580	7,335	11,880
British Columbia	1,393,174	1,338,028	5,717,414
Kamloops	2,615	39,835	80,600
x Nanaimo	1,000	3,600	31,140
x New Westminster	106,300	65,715	39,119
Prince Rupert	36,260	15,290	15,375
x Vancouver	1,062,500	1,153,485	5,337,925
North Vancouver	9,450	7,000	120,600
x Victoria	175,049	53,103	92,655
Total - 61 cities	17,935,478	19,621,302	27,816,592
x Total - 35 cities	16,569,271	18,101,094	24,974,130

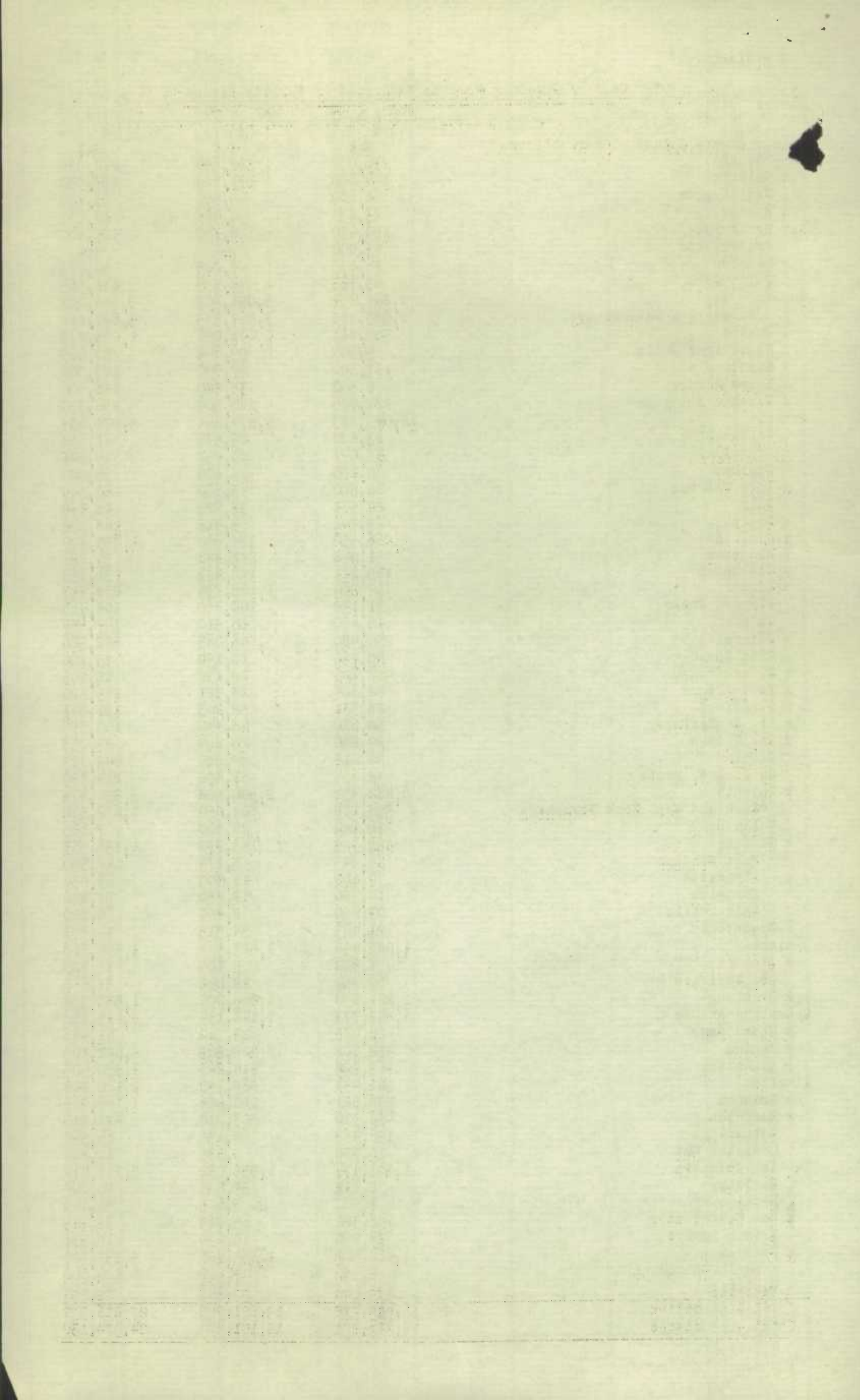


Table 2.- Provincial Totals of Building Permits Issued by 61 Cities during First Half-Year, 1921-1930.

Province	No. of Cities	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921
Prince Edward Isd.	1	47,500	20,000	Nil	Nil	17,000	11,000	16,700	27,500	49,500	127,200
Nova Scotia	3	2,101,186	3,210,636	1,297,200	1,009,780	294,397	851,958	603,754	332,844	1,223,584	1,734,457
New Brunswick	3	2,301,814	887,064	762,468	1,046,970	551,353	755,090	304,289	446,666	1,107,458	534,855
Quebec	6	15,822,542	32,830,715	22,838,301	18,995,355	19,575,823	16,647,887	16,523,301	19,598,131	12,503,048	10,870,750
Ontario	31	38,515,554	46,111,907	46,203,940	35,441,040	31,334,947	31,808,126	29,028,415	42,761,546	41,858,395	29,105,123
Manitoba	3	4,452,898	7,112,772	6,890,235	5,637,703	8,491,110	3,140,730	2,201,396	2,331,030	4,439,403	3,696,283
Saskatchewan	3	5,397,497	9,459,676	5,093,105	4,202,147	2,884,162	1,506,755	1,863,334	1,470,594	2,437,585	1,874,257
Alberta	4	5,578,742	8,620,364	6,338,136	3,297,769	2,429,373	1,508,554	2,522,201	1,279,915	2,213,495	2,427,465
British Columbia	7	8,996,291	16,356,133	12,613,602	11,811,955	13,182,254	9,669,617	7,610,764	4,799,270	5,449,206	5,402,294
Canada 6 months	61	83,214,024	124,609,267	102,036,987	80,842,719	78,760,419	65,899,717	60,674,154	73,047,496	71,281,674	55,771,684
Canada 12 months		-	234,944,549	219,105,715	184,613,742	156,386,607	125,029,367	126,583,148	133,521,621	148,215,407	116,724,414
Proportion of permits issued in first 6 months to total for year		-	53.0	46.6	43.8	50.4	52.7	47.9	54.7	48.1	47.8
1/ Average weighted index numbers of wholesale prices of building materials, 6 months		78.6	99.6	97.0	96.6	101.0	103.1	110.8	111.4	108.0	132.0
2/ Average index numbers of wages in building trades (for year)		-	197.5	185.6	179.3	172.1	170.4	169.7	166.4	162.5	170.5

1/ Compiled by Dominion Bureau of Statistics, Average 1926 = 100.

2/ Compiled by Department of Labour, Average 1913 = 100.

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Table 3.- Building Permits Issued by Four Largest Cities in First Half-Year, 1921-1930.

City	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Montreal	10,934,261	27,299,816	15,356,336	11,689,052	12,682,239	11,440,158	11,248,115	15,469,327	9,142,774	7,330,178
Toronto	18,361,492	19,944,176	20,334,098	13,038,265	11,945,913	12,998,633	11,007,603	18,016,857	17,893,725	11,688,813
Winnipeg	4,174,850	6,727,250	6,153,000	4,579,300	8,069,600	2,412,940	1,770,000	2,104,500	4,049,700	3,084,050
Vancouver	7,064,158	12,204,010	7,105,285	6,023,951	7,756,825	4,899,543	4,137,261	2,230,159	2,013,431	1,660,382
Total, 4 largest cities 6 months	40,534,761	66,175,252	48,948,719	35,330,568	40,454,577	31,790,174	28,162,979	37,820,843	33,099,630	23,763,423
Total, 4 largest cities 12 months	-	126,387,555	111,279,782	94,732,185	83,613,495	63,438,784	64,348,121	68,496,764	71,907,956	53,795,051
Proportion of permits issued by 4 largest cities in first 6 months to total for year	-	52.4 p.c.	44.0 p.c.	37.3 p.c.	48.4 p.c.	50.1 p.c.	43.8 p.c.	55.2 p.c.	46.0 p.c.	44.2 p.c.
Proportion of permits issued by 4 largest cities in 6 months, to 6 months' total for 61 cities -	48.7 p.c.	53.3 p.c.	48.0 p.c.	43.4 p.c.	51.4 p.c.	48.2 p.c.	46.4 p.c.	51.8 p.c.	46.4 p.c.	42.6 p.c.

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