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BUILDING PERMITS FOR NOVEMBER, 1936, WITH COMPARATIVE STATEMENTS FOR OCTOBER, 1936,
AND NOVEMBER, 1935, AND CUMULATIVE FIGURES FOR FIRST ELEVEN MONTHS, 1920-1936.

The aggregate value of the construction represented by the building permits issued by 58 cities during November was \$3,030,425. This was a seasonal decline of \$1,089,991, or 26.5 p.c., as compared with the October figure of \$4,120,416, while the total was also lower by \$417,228, or 12.1 p.c., than in November, 1935, when the estimated value of the building authorized by these cities was \$3,447,653.

The value of the building permits taken out in the first eleven months of the present year was \$36,534,168; this was lower than the aggregate of \$44,158,767 reported in the period January-November, 1935, although it was decidedly higher than in the first eleven months of either 1934 or 1933. The cumulative total for the same period in each of the last five years has been very much lower than in any other year on record; the wholesale prices of building materials since 1931 have also been decidedly lower than in any preceding year since 1920.

Some 50 cities furnished detailed statistics for November, 1936, showing that they had issued over 280 permits for dwellings estimated to cost more than \$1,198,000, and about 1,400 permits for other buildings estimated at almost \$1,600,000. During October, permits were issued for the erection of about 400 dwellings and 2,250 other buildings, estimated to cost approximately \$1,495,000 and \$2,577,600, respectively, while an engineering project valued at \$1,280 was also undertaken.

British Columbia reported a slight increase in the value of the building authorized as compared with October, 1936, but elsewhere reductions were indicated, that of \$396,365, or 19.2 p.c., in Ontario being largest.

As compared with November, 1935, Nova Scotia, New Brunswick, Quebec, Manitoba, Alberta and British Columbia reported increases, of which the greatest was that of \$119,596 or 23.1 p.c. in Quebec. Of the declines in the remaining provinces, that of \$685,986 or 29.3 p.c. in Ontario was most pronounced.

Of the four largest centres, Vancouver recorded an increase in the value of the building authorized in November as compared with the preceding month, and also as compared with November of last year. In Montreal and Winnipeg, the aggregate value was higher than in November, 1935, but lower than in October of this year, while Toronto showed a decrease in both comparisons. Of the other centres, New Glasgow, Sydney, Fredericton, Sherbrooke, Brantford, Galt, Hamilton, Peterborough, St. C. Marines, Sault Ste. Marie, Woodstock, Brandon, St. Boniface, Lethbridge, Kamloops, Nanaimo and New Westminster reported higher building authorizations than in either comparison.

DEPARTMENT OF CHEMISTRY

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Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy

in the Department of Chemistry

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19[Year]

Approved by the Department of Chemistry

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CUMULATIVE RECORD FOR FIRST ELEVEN MONTHS, 1920-1936.

The following table shows the value of the building authorized by 58 cities during November and in the first eleven months of each year since 1920, as well as index numbers for the latter, based upon the total for 1926 as 100. The January-November index numbers of wholesale prices of building materials in these years are also given (average 1926=100).

| Year | Value of permits issued in November | Value of permits issued in first eleven months | Indexes of value of permits issued in first eleven months (1926=100) | Average indexes of wholesale prices of building materials in first eleven months, (Average 1926=100) |
|------|-------------------------------------|--|--|--|
| 1936 | \$3,030,425 | \$36,584,168 | 25.3 | 85.2 |
| 1935 | 3,447,653 | 44,158,767 | 30.5 | 81.2 |
| 1934 | 2,622,534 | 24,935,704 | 17.2 | 82.7 |
| 1933 | 1,624,138 | 19,793,204 | 13.7 | 78.1 |
| 1932 | 2,553,373 | 40,750,142 | 28.1 | 77.4 |
| 1931 | 7,282,117 | 104,327,739 | 72.0 | 82.1 |
| 1930 | 11,821,292 | 150,939,044 | 104.2 | 91.4 |
| 1929 | 16,171,400 | 220,255,867 | 152.0 | 99.1 |
| 1928 | 15,830,836 | 203,010,555 | 140.1 | 96.9 |
| 1927 | 12,857,622 | 172,858,176 | 119.3 | 96.2 |
| 1926 | 9,975,451 | 144,877,789 | 100.0 | 100.1 |
| 1925 | 7,988,765 | 117,665,590 | 81.2 | 102.9 |
| 1924 | 10,212,908 | 120,119,829 | 82.9 | 107.1 |
| 1923 | 8,228,206 | 126,547,365 | 87.3 | 111.8 |
| 1922 | 11,182,030 | 138,698,005 | 95.7 | 108.6 |
| 1921 | 12,192,414 | 111,257,084 | 76.8 | 123.9 |
| 1920 | 5,627,949 | 112,175,268 | 77.4 | 144.3 |

The aggregate for the first eleven months of this year was lower by 17.2 p.c. than in 1935, but was higher than in the same period of either 1934 or 1933. With these exceptions, the 1936 total to date was lower than in any other year of the record. The average index number of wholesale prices of building materials, though slightly higher than in any of the years, 1931-1935, was considerably lower than in the months January to November of other years since 1920.

The accompanying tables gives the value of the building permits issued by 58 cities in October and November, 1936, and November, 1935. The 35 cities for which records are available since 1910 are marked thus "x".

Estimated Value of Construction Work as Indicated by Building Permits issued by 58 Cities.

| C i t i e s | November, 1936 | October, 1936 | November, 1935 |
|------------------------------|------------------|------------------|------------------|
| P.E.I. - Charlottetown | \$ 2,250 | \$ 21,440 | \$ 3,650 |
| Nova Scotia | 98,627 | 108,548 | 80,885 |
| x Halifax | 80,727 | 96,340 | 71,235 |
| New Glasgow | 6,000 | 2,778 | 1,900 |
| x Sydney | 11,900 | 9,450 | 7,750 |
| New Brunswick | 66,552 | 78,542 | 11,735 |
| Fredericton | 36,600 | 9,360 | 450 |
| x Moncton | 2,975 | 12,107 | 1,508 |
| x Saint John | 26,977 | 57,075 | 9,777 |
| Quebec | 638,326 | 856,870 | 518,730 |
| x Montreal - x Maisonneuve | 503,773 | 607,895 | 428,115 |
| x Quebec | 43,690 | 87,823 | 60,245 |
| Shawinigan Falls | 3,003 | 43,465 | 200 |
| x Sherbrooke | 44,850 | 44,200 | 16,100 |
| x Three Rivers | 13,010 | 23,862 | 1,400 |
| x Westmount | 30,000 | 49,625 | 12,670 |
| Ontario | 1,670,295 | 2,066,660 | 2,356,276 |
| Belleville | 1,200 | 15,575 | 125 |
| x Brantford | 22,138 | 15,705 | 15,736 |
| Chatham | 4,250 | 25,480 | 2,175 |
| x Fort William | 6,800 | 8,000 | 4,300 |
| Galt | 10,305 | 6,404 | 2,206 |
| x Guelph | 2,420 | 13,637 | 15,846 |
| x Hamilton | 179,805 | 160,814 | 142,305 |
| x Kingston | 7,915 | 35,409 | 15,250 |
| x Kitchener | 31,560 | 75,450 | 77,589 |
| x London | 38,310 | 50,090 | 252,730 |
| Niagara Falls | 5,010 | 23,270 | 280 |
| Oshawa | 3,100 | 4,670 | 2,100 |
| x Ottawa | 76,455 | 127,800 | 358,000 |
| Owen Sound | 5,600 | 8,085 | 4,300 |
| x Peterborough | 31,779 | 19,755 | 9,680 |
| x Port Arthur | 6,526 | 16,738 | 4,889 |
| x Stratford | 4,355 | 9,075 | 850 |
| x St. Catharines | 185,385 | 45,630 | 40,744 |
| x St. Thomas | 825 | 2,620 | 1,005 |
| Sarnia | 4,150 | 7,775 | 55,458 |
| Sault Ste. Marie | 11,655 | 10,940 | 5,995 |
| x Toronto | 821,351 | 1,045,033 | 1,097,798 |
| York and East York Townships | 136,870 | 247,630 | 219,940 |
| Welland | 3,712 | 5,245 | 3,350 |
| x Windsor | 60,872 | 72,955 | 17,665 |
| Riverside | 250 | 9,135 | 350 |
| Woodstock | 7,697 | 3,690 | 5,610 |
| Manitoba | 70,200 | 295,850 | 56,250 |
| x Brandon | 2,700 | Nil | 1,600 |
| St. Boniface | 8,800 | 1,650 | 50 |
| x Winnipeg | 58,700 | 294,200 | 54,600 |
| Saskatchewan | 25,845 | 55,733 | 115,165 |
| x Moose Jaw | 4,520 | 4,613 | 85,225 |
| x Regina | 12,850 | 33,670 | 23,390 |
| x Saskatoon | 8,475 | 17,450 | 6,550 |
| Alberta | 96,116 | 285,515 | 30,663 |
| x Calgary | 68,041 | 219,855 | 15,961 |
| x Edmonton | 13,005 | 51,900 | 6,180 |
| Lethbridge | 14,740 | 12,960 | 4,587 |
| Medicine Hat | 330 | 800 | 3,935 |
| British Columbia | 362,214 | 351,258 | 274,299 |
| Kamloops | 7,120 | 6,900 | 2,951 |
| Nanaimo | 48,685 | 6,270 | 2,931 |
| x New Westminster | 17,000 | 15,950 | 16,425 |
| Prince Rupert | 275 | 3,880 | 3,305 |
| x Vancouver | 254,015 | 251,440 | 216,955 |
| North Vancouver | 1,055 | 3,115 | 370 |
| x Victoria | 34,064 | 63,703 | 31,362 |
| Total -- 58 Cities | 3,030,425 | 4,120,416 | 3,447,653 |
| Total -- x35 Cities | 2,707,763 | 3,639,899 | 3,121,435 |



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