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ESTIMATES OF POPULATION, CANADA, AS OF JUNE 1,
1922, 1923 and 1924.

Note.— For the estimation of post-censal population the method of arithmetical progression is widely used in the older countries and also in the United States. It is not yet applicable to Canada where immigration is still relatively heavy and population growth rapid. The method of geometrical progression is also generally inapplicable to Canada, there having been only two decades since 1871 in which it proved approximately accurate. The Bureau has accordingly adopted the method of fitting a system of curves to Provincial populations, using the curve that is found on trial to fit each Province best, and adding the results to obtain the population of the Dominion.

The estimates by provinces since the Census of 1921 are printed over-leaf, together with the formula used for each province. It will be seen that where a geometric progression showed approximately as good results as any other curve, a preference was given to it in view of its widespread use.



ESTIMATES OF POPULATION, CANADA, AS OF JUNE 1, 1922, 1923 and 1924.

| Province | Formula | Origin of x | Census Population 1921 | Estimates | | |
|-------------|--|---|---------------------------|-----------|-----------|-----------|
| | | | | 1922 | 1923 | 1924 |
| 1. P.E.I. | $y = 101,620 + x - 33 \frac{1}{3} \log x$ | $x_{1922} = 3.1 \text{ etc.}$ | 88,615 | 88,400 | 88,020 | 87,700 |
| 2. N.B. | (g.p.) yearly log = .0026934x | x | 523,637 | 527,105 | 530,600 | 533,600 |
| 3. N.B. | (g.p.) yearly log = .0042291 | | 337,876 | 391,700 | 395,500 | 399,400 |
| 4. Quebec | (g.p.) yearly log = .0070345 | | 2,361,199 | 2,400,000 | 2,439,000 | 2,460,000 |
| 5. Ontario | $y = 1151.5 + 986.4x - 33.8x^2$ $- 2710 \log x$ | | x1921 = 4; x1922=4.1 etc. | 2,933,662 | 2,976,000 | 3,019,000 |
| 6. Man. | $\log y = 2.6641 + .254 \log x$ | $x_{1921} = 3; x_{1922}=3.2 \text{ etc.}$ | 610,118 | 627,000 | 637,400 | 647,000 |
| 7. Sask. | $y = 446.4 + 45.6x + 184 \log x^2$ | $x_{1921} = 3; x_{1922}=3.2 \text{ etc.}$ | 757,510 | 773,000 | 797,000 | 815,000 |
| 8. Alta. | $y = 327.8 + 46.2x + 128 \log x^2$ | $x_{1921} = 3; x_{1922}=3.2 \text{ etc.}$ | 588,454 | 605,000 | 621,000 | 637,000 |
| 9. Br. Col. | $y = 392 + 443.3 \log x$ | $x_{1921} = 2; x_{1922}=2.1 \text{ etc.}$ | 524,582 | 535,000 | 544,000 | 553,000 |
| 10. Yukon | $y = 13.8 + 13.2x - 52 \log x^2$ | $x_{1921} = 3; x_{1922}=3.1 \text{ etc.}$ | 4,157 | 3,800 | 3,500 | 3,500 |
| 11. N.W.T. | (g.p.) yearly log = .0089057 | | 7,988 | 8,150 | 8,320 | 8,490 |
| • • • | | | | | | |
| Canada | | | 8,788,483 | 8,940,150 | 9,064,870 | 9,229,740 |
| | | | | | 9,082,740 | 9,226,740 |

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