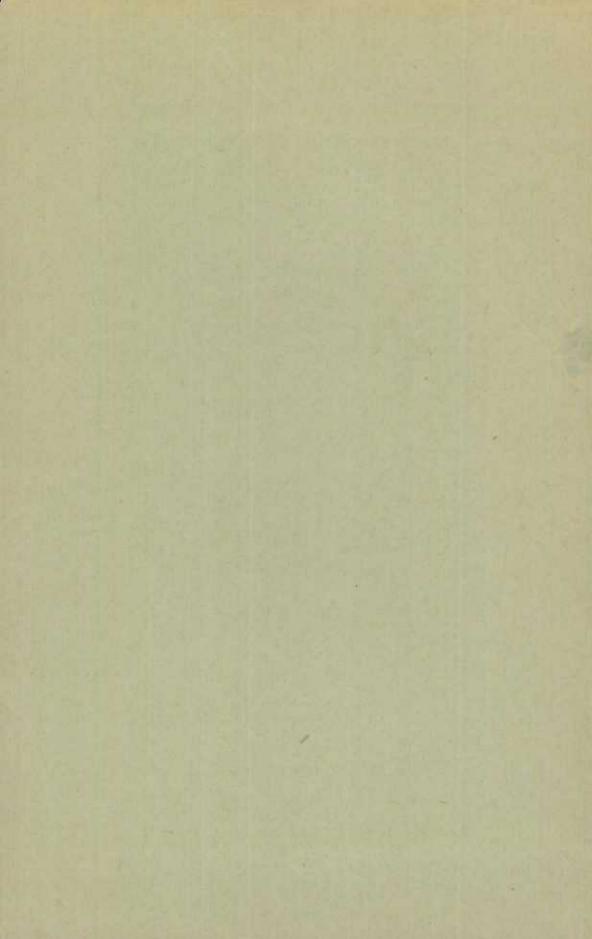
CANADA

DOMINION BUREAU OF STATISTICS

THE MARITIME PROVINCES SINCE CONFEDERATION

A STATISTICAL STUDY OF
THEIR SOCIAL AND ECONOMIC CONDITION
DURING THE PAST SIXTY YEARS

PUBLISHED BY AUTHORITY OF THE HON. JAMES MALCOLM MINISTER OF TRADE AND COMMERCE



CANADA

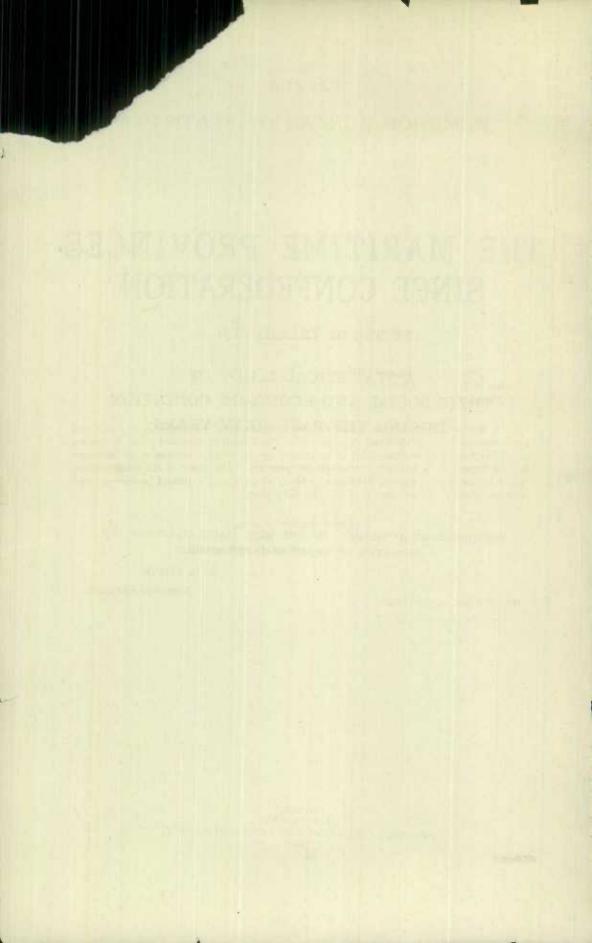
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OTTAWA F. A. ACLAND PRINTER TO THE KING'S MOST EXCELLENT MAJESTY 1927



LETTER OF TRANSMITTAL

To the Honourable James Malcolm, M.P., Minister of Trade and Commerce, Ottawa, Canada.

Sir,—I have the honour to lay before you the accompanying memorandum on social and economic conditions in the Maritime Provinces since Confederation, prepared in the Dominion Bureau of Statistics, and recommended to be printed by the Royal Commission on Maritime Claims (see Report of Commission, paragraph 39, page 44). The object of the memorandum is to assist in the consideration of Maritime problems by providing a general background and the more important economic records of the past sixty years.

I have the honour to be,
Sir,
Your obedient servant,

R. H. COATS,

Dominion Statistician

DOMINION BUREAU OF STATISTICS, OTTAWA, June 1, 1927.

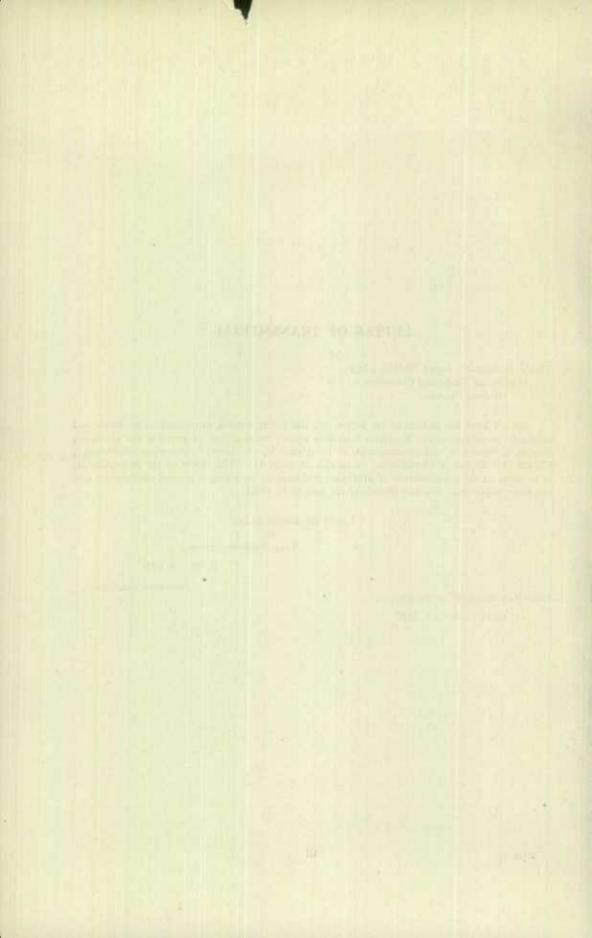


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THE MARITIME PROVINCES SINCE CONFEDERATION

CHAPTER I.—GENERAL DESCRIPTION—PHYSIOGRAPHY AND NATURAL RESOURCES

Of Canada's total area of 3,684,723 square miles, the Atlantic Maritime Provinces—Prince Edward Island, Nova Scotia and New Brunswick—comprise 51,597 square miles, or 1 · 40 per cent.

Geographically the Maritime Provinces form the larger part of the Acadian or Appalachian region of Canada; they possess several of the minerals (notably coal) which have made the Eastern States in the same geological area pre-eminent among mining and industrial communities.

The fisheries of the Maritime Provinces are too well known to require more than mention. The coasts of these provinces are the natural base for perhaps the most extensive and valuable fisheries in the world with the possible exception of those of the North Sea.

Land Area.—There is an abundance of fertile land suitable for general farming in all three provinces: of the total land area of 32,744,550 acres, twenty million acres are estimated to be suitable for farm purposes. Particulars of the land area, estimated possible farm land, farm land occupied, forest areas, etc., and population by provinces, with comparative figures for all Canada, are shown in the following statement:

Brunswick	Provinces	Canada*
(000's omitted	1	
17,863	32,745	1,401,316
10.718	20,068	358, 162
4.270	10,210	140,888
1,368	3,127	70,770
2,902	7,083	70,118
6,448	9,858	217,274
388	1,000	8,788
84	8 6,448	8 6,448 9,858 4 388 1,000

^{*}Nine provinces only.

A brief description of the physical features of each of the provinces is appended:

Prince Edward Island.—This, the smallest province of the Dominion, lies at the south of the Gulf of St. Lawrence and is separated from the mainland of the continent by Northumberland strait. It is 150 miles in length and varies from 4 miles to 30 in width, covering an area of 2,184 square miles, some 200 square miles more than the state of Delaware and slightly more than half the area of the island of Jamaica in the British West Indies. Its rich red soil and red sandstone formation make up a distinctive and even topography, no point in the island attaining a greater altitude than 311 feet above sea level. A climate tempered by the surrounding waters of the gulf, and yet free from the rigours of the Atlantic storms, combined with numerous rivers, sheltered harbours and rolling plains, offers great inducements to the pursuit of agriculture and of fishing. The province is noted for its predominance in the fox-farming industry, its lobster canneries, and its production of oats and potatocs.

Nova Scotia. - The province of Nova Scotia is 386 miles in length by from 50 to 100 miles in width, a long and rather narrow strip of land lying parallel to the Maine and New Brunswick coast and joined to the latter by the isthmus of Chignecto. It includes at its north end the island of Cape Breton, which is separated from the mainland by the strait of Canso. The total area of the province is 21,428 square miles— a little over 2,000 square miles less than the combined area of Belgium and Holland, with which it may well be compared as to climate, natural resources and accessibility. Cape Breton Island, at the mouth of the gulf of St. Lawrence and sheltering Prince Edward Island from the Atlantic, is roughly 100 miles in length with an extreme breadth of 87 miles, its area of 3,120 square miles enclosing the salt-water lakes of Bras d'Or, connected with the sea at the north by two natural channels and at the south by the St. Peter's ship canal. The ridge of mountainous country running through the centre of the Nova Scotian mainland divides it roughly into two slopes, that facing the Atlantic being generally rocky and open to the sweep of Atlantic storms, while the other, facing the bay of Fundy and the gulf of St. Lawrence, consists for the most part of arable and fertile plains and river valleys, and is noted for its farming and fruit farming possibilities. The Atlantic coast is deeply indented with numerous excellent harbours.

New Brunswick.—With a total area of 27,985 square miles, New Brunswick may be compared to Scotland with its area of 30,405 square miles. The conformation of the province is also rather similar to that of Scotland, for the country, although not mountainous, is diversified by the occurrence of numerous low hills and valleys. While New Brunswick is essentially a part of the mainland, the bay of Chalcur at the north, the gulf of St. Lawrence and Northumberland strait at the east, the bay of Fundy at the south and Passamaquoddy bay at the southwest, provide the province with an extensive sea coast. Although larger in area than Nova Scotia, New Brunswick does not cover as many degrees of latitude, its most southern point being a little south of 45° north latitude and its most northern a little north of 48°, while Nova Scotia extends roughly from the 43rd to the 47th parallel. To its southwest is a group of islands belonging to the province, the most important of which are Grand Manan, Campobello and the West Isles. The soil of these islands, similar to much of that on the mainland, is generally fertile, but only a small proportion of it is under cultivation. New Brunswick has been well called the best watered country in the world; numerous rivers provide access to extensive lumbering areas in its interior and to many of the most attractive hunting and fishing resorts in the Dominion.

CHAPTER II.—THE TREND OF MARITIME POPULATION, 1861-1921

Introductory.—Generally speaking, the trend of population, especially in a "new" country, is regarded as an index of its prosperity or the reverse. There are, of course, exceptions. In economically backward countries, an increasing population may be the cause and the symptom of increasing poverty, and in other exceptional cases the inhabitants may be prosperous at a time when the population is stationary or even decreasing. Illustrations of the latter condition may be found in France and perhaps in Prince Edward Island during recent years. Even in such cases, however, the absence of growth of population is significant. It may indicate that, under existing conditions, the country concerned has attained its "optimum" density of populations lation, and that the standard of living can only be maintained by restricting the rate of natural increase or by the emigration of the young as they reach maturity. In any case, the movement of the population is a fact of fundamental importance. The following study of population tendencies in the Maritime Provinces since Confederation may therefore be regarded as illustrating and reflecting the course of their economic development, which is later described in more specific detail.

The increase or decrease of population depends upon two factors: (1) Natural increase, or the relation of births to deaths, and (2) the increase or decrease arising out of the relation of immigration to emigration. There are no comprehensive records under either of these headings back to Confederation, but the facts can be largely established from the results of the decennial census, and it is upon the latter that the present chapter is wholly based. The chapter begins by stating the main facts of population from 1861 to 1921. From these the immigration and emigration movements are deduced. The nature of these movements is then discussed. There follows a treatment of the results upon the character of the resident population of the Maritime Provinces, and the manner in which this character has itself influenced later trends.

The Growth of Population, 1861 to 1921.—The population growth of the Maritime Provinces in its general setting can be seen in the four summary tables presented herewith (Tables 1-1V)*. The central fact upon the most cursory view is that in the fifty years since Confederation the Maritimes have increased in population much less rapidly in every decade than any other province of Canada. One province, Prince Edward Island, has actually been declining in population since 1891.

This is not due to their failure to receive immigrants--for they have received a certain amount of immigration throughout the period. Nor is it due-at least in its initial stages-to failure of natural increase. It is due to the emigration of considerable numbers of native population as well as of immigrants whom they failed to retain. The demonstration of this is in the rest of this chapter.

TABLE I.—Population of Canada and its Provinces and Territories, 1871-1921.

Provinces.	1871	1881	1891	1901	191t	1921
CANADA	3,689,257	4,324,810	4,833.239	5,371,315 73,022	(1) 374,295	588,454
Alberta British Columbia Manitoba New Brunswick	25,228 285,594	62,260 321,233	152,506 321,263	331, t20 459, 574	(3) 461,394 351,889 492,388	610,118 387,876 523,837
Nova Scotia. Ontario. P.E. Island. Quebec.	1,620,851 94,021 1,191,516	1,926,922 108,891	109,078	103,259	(3) 2,005,776	2,361,19
Saskatchewan Yukon Northwest Territories Canadian Navy	48,000	-	98,967	27,219	8,512	4, 15

⁽⁴⁾ As corrected by transfer of population of Fort Smith (368) to Northwest Territories

⁽²⁾ Represents population of area as after formation of Provinces of Saskatchewan and Alberta.
(3) As corrected by Extension of Boundaries Act, 1912.

^{*}From the Census of Canada, 1921, Vol. I, pp. 3-4.

TABLE II.—Per cent distribution of the population, 1871-1921.

Provinces	1871	1881	1891	1901	1911	1921
CANADA. Alberta British Columbia. Manitoba New Brunswick Nova Scotia Ontario Prince Edward Island Quebec. Saskatchewan Yukon. Northwest Territories.	100·00 	100-00 	100·00 2·03 3·16 6·65 9·32 43·74 2·25 30·80 — 2·05	100 · 00 1 · 36 3 · 33 4 · 75 6 · 16 8 · 56 40 · 64 1 · 92 30 · 70 1 · 70 0 · 51 0 · 37	100 · 00 5 · 19 5 · 45 6 · 40 4 · 88 6 · 83 35 · 07 1 · 30 27 · 83 6 · 84 0 · 12 0 · 09	100 · 00 6 · 70 5 · 97 6 · 94 4 · 41 5 · 96 33 · 38 1 · 01 26 · 87 8 · 62 0 · 05 0 · 09

Table III.—Numerical Increase in Population of Canada by Provinces and Territories, 1871-1921.

Devis	Popul.	In	crease by	Popul.	Increase			
Provinces in 187	1871	1871 to 1881	1881 to 1891	1891 to 1901	1901 to 1911	1911 to 1921	in 1921	1871 to 1921
CANADA. Alberta. British Columbia. Manitola. New Brunswick. Nova Scotia. Ontario. P. E. Island. Quebec. Saskatchewan. Yukon. Northwest Territories. Canadian Navy.	36,247 25,228 285,594 387,800 1,620,851 94,021 1,191,516	13, 212 37, 032 35, 639	48,714 90,246 30 9,824 187,399 187 129,508	538,076 73,022 80,484 102,705 9,857 9,178 68,626 -5,819 160,363 91,279 27,219 -78,838	1,835,328 301,273 213,823 206,183 20,764 32,764 344,345 -9,531 356,878 401,153 -18,707 -13,622	1,581,840 214,158 132,102 148,724 35,987 31,499 406,370 -5,112 355,422 265,622 1,481 485	8,788,483 588,454 524,582 610,118 387,870 523,837 2,933,662 88,615 2,361,199 757,510 4,157 7,988 485	5,099,226 588,454 488,335 584,890 102,282 136,037 1,312,811 -5,406 1,169,683 757,510 4,157 -40,012 485

TABLE IV.—Increase per cent of population by provinces, 1871 to 1921.

	Popul.	Per cent.					
Provinces	in 1871	1871 to 1881	1881 to 1891	1891 to 1901	1901 to 1911	1911 to 1921	Increase in 50 years
CANADA Alberta British Columbia Manitoba New Brunswick Nova Scotia Ontario P.E. Island Quebec Saskatchewan Yukon Northwest Territories	387,800 1,620,851 94,021 1,191,516	36·45 146·79 12·48 13·61 18·88 15·82 14·06	11·76 98·49 144·95 0·01 2·23 9·73 0·17 9·53 75·33	11·13 81·98 67·34 3·07 2·04 3·25 -5·33 -0·77 -79·66	34·17 412·58 119·68 80·79 6·27 7·13 15·77 -9·23 21·64 439·48 -68·73 -67·67	21-95 57-22 33-66 32-23 10-23 6-40 16-08 -5-46 17-72 53-83 -51-16 22-76	138-22 1,347-24 2,318-42 35-82 35-08 80-99 -5-75 98-17 -83-36

Increase of the Native-Born.—We may begin with a sketch of the native-born population in the Maritimes during the past six decades, especially significant as an index of prosperity—for the native knows the conditions in his home province, while the immigrant frequently comes because he has not been prosperous elsewhere.§ The facts, derived from the "birthplace" statistics of the Census, are set out in the following tables:—

TABLE V.-Native-born Population of the Maritime Provinces.

Census	Frince Edward Island	Nova Scotia	New Brunswick
1861 1871 1881 1891 1901 1911	63,027 80,271 99,397 102,680 99,006 91,154 86,250	298,192 358,560 412,859 424,081 435,172 456,063 480,332	199,445 248,879 290,165 299,257 313,178 333,576 366,418

TABLE VI.-Percentage Increase of the Native-Born Population

Decade	l rince Edward Island	Nova Scotia	New Brunswick
1861-1871	27·3	$\begin{array}{c} 20 \cdot 2 \\ 15 \cdot 1 \\ 2 \cdot 7 \\ 2 \cdot 6 \\ 4 \cdot 8 \\ 5 \cdot 3 \end{array}$	24·8
1871-1881	23·8		16·6
1881-1891	3·3		3·1
1891-1001	*3·6		4·6
1961-1911	*7·9		6·5
1911-1921	*5·4		9·9

^{*}I er rease.

The outstanding fact in these tables is that the growth of native population began to decline seriously in the seventies, and that it had all but ceased in the eighties, since when it has only slightly recovered. To expand the statement somewhat: the growth of the Maritimes in native population during the decade 1861-71 was still extraordinarily rapid—as rapid, in fact, as that which has recently marked the prairie provinces and Quebec. Even at that time, as we shall see below, a certain number were leaving to seek their fortunes elsewhere, but the population was young, vigorous and rural; it was an age of large families, and the native-born population grew despite a moderate amount of emigration.

During the seventics, the native increase was but two-thirds as great as in the preceding decade. The cause was obviously emigration, as may be seen from later evidence. It therefore appears that the conditions which have recently come into general notice really began during the seventies. The Franco-Prussian war had just ended, leaving depression in its wake; there was reaction from a long period of inflation; reciprocity between Canada and the United States had been terminated; and the wooden ship of the Maritimes was being ousted by the steel. The depression which lasted from 1873 to 1896 was not limited to the Maritime Provinces nor indeed to Canada; but it was in this period and especially in its closing years that the most severe loss of population experienced in the Maritime Provinces occurred. Another factor which must not be overlooked is the fall in the general birth rate which set in during the eighties and which will be specially mentioned later on.

Business conditions in general began to improve about 1896, when investment and development once more became considerable. During the period 1901-1911 the gain of native-born population from the Maritime Provinces became greater, and Nova Scotia obtained a share of the new immigration which was coming to Canada. War conditions hindered emigration between

It should be roted that increases in native-born population in an area which is attracting immigrants are partly due to the replacement in the Census of immigrant parents by native-born children. In such an area the percentage of increase in the native-born population will be greater than the natural increase.

1911 and 1921, and the loss of population by emigration, war, and the influenza epidemic combined was less than that due to emigration alone in any previous decade since 1881. A large number of immigrants came into Nova Scotia and New Brunswick during the years preceding the war, and many of them were still in these provinces in 1921. Only Prince Edward Island, the most typically rural of the three provinces, continued to lose population more rapidly than it could be replaced by natural increase or immigration during the decade 1911-1921.

Since 1921, only estimates are available as to the trend of Maritime population, but the depression which has prevailed elsewhere for most of the period is of the kind which would be severelt felt in such a community. The statistics of school attendance, however, used as a measure of population in general, indicate a slight initial growth, being as follows: 1921, 200,705; 1922, 210,326; 1923, 210,953; 1924, 208,140; 1925, 209,924.††

We may now proceed to the definite measurement of the emigration which has taken place from the Maritime Provinces and of its character:

Emigration from the Maritime Provinces, 1861-1921.—A general measure of the volume and character of the emigration from the Maritime Provinces may be obtained by a study of the age and sex distributions of the population at different dates as disclosed by the census. For example: in 1881 there were enumerated in the three Maritime Provinces 48,147 females aged 15-19. Ten years later the number of females 25-29 was only 32,574. It follows that the remaining 15,573 must have died or left the Maritimes*. From a life table constructed for the state of Massachusetts of date 1890, it may be estimated that the deaths in this group of 48,147 over a period of ten years were 3,653 in number. This leaves the net emigration as 11,029. The gross emigration was of course larger than this, for at least a certain number of immigrants came into the Maritimes from other countries and other parts of Canada during the period.

The results of a calculation made by the method above described are given in the accompanying tables. Table VII, with addenda, provides an estimate of the absolute amount of emigration in different age and sex groups from 1861 to 1921. In Table VIII, the same material has been worked into a percentage form giving the relative loss of population from each group during the same period.† The tables show that gross emigration from the Maritimes in the eighties amounted to 103,785; in the nineties to 111,197; in 1901-1911 to 98,598; and in 1911-1921 to 92,537. In the past fifty years it has reached, say, 450,000. The rate increased from 1861 until the nineties, after which it showed a slight decline. There was an appreciable amount of emigration of the native born even in the sixties, although it did not become large until late in the seventies.**

In proceeding to an examination of the tables, the first point to note is that emigration from the Maritime Provinces, though not confined to any one age, is most common between the ages of 15 and 19, (emigration of children under 10 almost certainly points to the departure of whole families), and that for some thirty years (1881-1911) the Maritime Provinces continued to lose by emigration in each decade about 28 per cent of the young people between 15 and 25 years of age at the beginning of the decade. The existence of considerable emigration at this period of life is not necessarily a sign of an unsound economic condition, for it is natural for the young to seek new fields and better opportunities. There is a considerable amount of such emigration from Ontario and Quebec. The emigration of older people, or of entire families, is more significant. The latter type of migration shows the greatest fluctuations, but appears to have been somewhat less common after 1901. In the decade 1911-1921 the effects of emigra-

t‡Compare this record with that of employment on pages 35, 37-38.

^{*}This assumes, of course, that ages were correctly stated in both censuses. But even if a few misstated their ages, they would be commerciated in other groups, so that the extension of the method to all ages automatically compensates for errors in statement of age.

^{\$1}t may be added that in estimating the number of deaths, in the subjoined calculations, three life tables were used: deaths, 1861-1891, were estimated from Massachusetrs life tables, 1890 (U.S. life tables pp. 132, 138); deaths, 1891-1901, were estimated from life tables for the original registration states 1901 (ibid, 53, 56, 60); and deaths 1901-1921 were estimated from life tables for the original registration states 1910 (ibid, 54, 58, 62). Thus allowance was made for the improvement in expectation of life which has been brought about by improved sanitation, medical science, etc., during the past generation.

[†] Gross loss has not been calculated as a percentage, as the ages of the immigrants taking the places of native-born emigrants in the census is unknown.

^{**} Tables have been prepared to show the estimated emigration from each of the three provinces; these tables may be obtained from the Dominion Bureau of Statistics.

tion are not so easy to isolate, since part of the loss of population was due to deaths in war, the Halifax disaster, and the influenza epidemic of 1918. The enlistment of many young men in the army would tend to retard emigration among the remainder; an epidemic or a catastrophe would have similar results. It is likely then that the loss of population due to special wartine causes was not any larger than would have taken place as a result of emigration alone if there had been no war. However this may be, the loss of population between 1911-1921 due to emigration, war, disaster, and epidemic combined appears to have been less than the loss of population due to emigration alone in any of the three preceding decades.

TABLE VII.—Net emigration from the Maritime Provinces in each sex and age group for the four decades 1881-1921.

(Exclusive of deaths except during 1911-1921, when the deaths from war, influenza, and the Halifax explosion are included with the losses by emigration.)

Age at beginning of decade	1881-91		1891-1901		1901	-11	1911-21		
	Males	Females	Males	Females	Males	Females	Males	Females	
5- 9. 10-14. 15-19. 20-24. 25-29. 30-34. 25-39. 40-44.	4,412 9,269 13,875 11,735 5,713 1,665 1,701	3,995 6,179 11,920 12,629 6,849 2,260 2,170 601	3,378 9,149 14,042 12,062 4,520 1,364 581 455	4,159 8,177 13,419 12,627 6,074 2,309 1,390 1,168	2,256 8,511 13,275 9,769 2,462 107 158* 216*	2,614 6,207 12,032 10,726 3,888 1,532 1,124 837	2,556 8,534 10,799 8,287 1,363 434 385* 1,054*	2,183 5,398 9,539 9,027 2,687 974 1,081 351	
5-44	48,064	46,603	45,551	48,323	36,006	38,960	30,534	31,240	
Total	94	, 667	93,874		74,	966	61,774		

[·] Increase.

Note.—From the above, gross emigration may be calculated for each decade, as follows:*

Net emigration 1881-1891	94,667
7,804. †Esimtated number living in 1891, 100-85-59 of same	9,118
Gross emigration 1881-1891 exceeding	103,785
Net emigration, 1891-1901. Immigrants who came 1891-1901 and were still living in Maritimes in 1901, from 1901 census.	93,874 17,323
Gross emigration 1891-1901 exceeding	111,197
Net emigration, 1901-1911. Immigrants who came 1900-1910 and were still living in Maritimes in 1921, from 1921 Census, 20,227. †Estimated number living there in 1911, 100-85-59 of same	74,966
Gross emigration, 1911-21 exceeding.	98,598
Net emigration, 1911-1921 (including some deaths)	61,774 30,763
Gross emigration 1911-21 (including war, influenza and explosion deaths) exceeding	92,537

^{*}All figures in these calculations are minimum estimates, as the census yields no information concerning the movements of persons born after one census who have left the country before the next one, or immigrants who have come into the country after one census who have left it again before the next one.

[†]Deaths in this group probably overestimated.

Addenda to Table VII

A. Net emigration from Nova Scotia in each sex and age group for the period 1861-1881. Exclusive of deaths, which have been separately calculated on the basis of Massachusetts life tables for 1890.

Age at beginning of decade		1861-	1871		1871-1881			
or detail	Ma	ales	Females		Males		Females	
5-9 10-14 15-19 10-24 25-29 10-34 35-39 10-44 15-49 10-51 15-59 10-64					gain gain loss gain gain	1,003 1,958 2,782 3,859 1,561 485 736 383 547 1,013 747 525	gain gain loss gain gain	476 386 2,703 4,263 2,245 1,060 261 704 410 498 498 661

†Note, in this table, the apparent gain in population at ages over 35 (except in the group 45-49). These seeming anomalies may be due to mis-statement of ages as explained above. On account of the evidence of such mis-statements, the general tables have not been carried beyond age 45, after which age it is not likely that much emigration occurs.

B. Net emigration from New Brunswick in each sex and age group for the period 1861-1871 (deaths excluded)

Age at beginning of decade	1861-	1871
No section of the sec	Males	Females
6-16. 16-21. 21-40. 40-50.	2,384 2,989 3,723 406	gain 2' 3,200 4,176

C. Net emigration from New Brunswick in each sex and age group for the period 1871-81 (deaths excluded).

Age at beginning of decade	1871-1881		
	Males	Females	
5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-84	526 2,086 2,514 3,068 1,160 gain 16 gain 37 gain 126 431 gain 664	38- 511- 2,58: 3,744- 1,68: 29: 15/ gain 22: 45- gain 18:	
60-64	gain 202 gain 205	gain 166	

Note.—For Prince Edward Island it was impossible to construct similar detailed estimates, as the pre-Confederation census of 1871 gives ages only in the broad groups under 5, 5-16, 16-21, 21-45, 45-60, over 60. In the age group 16-21, it is estimated that 1,108 males and 1,543 females left the province between 1871 and 1881.

TABLE VIII.—Net emigration from the Maritime Provinces during each decade as a percentage of the numbers in the initial group from which it was drawn, 1881-1921.

(War deaths included 1911-21; all other deaths excluded).

Age at beginning	1881-	1891	1891-	1901	1901-	1911	1911-	1921
of decade	Males	Females	Males	Females	Males	Females	Males	Females
5- 9	7.74	7.28	6.05	7 - 74	4 · 23	5.07	4.73	4.12
10-14	17.09	12.14	16-84	15-95	16 44	12-69	16 - 63	10.97
15-19	28-20	24 - 76	28 - 09	27.81	26 - 21	25.12	21.76	20-03
20-24	28 - 47	29.73	28-81	30-28	22 - 79	26 - 18	20.01	21 - 95
25-29	17-88	20-69	14-37	18 - 65	7.48	12-14	3.91	7.9
0-34	6-49	8-57	5.30	8.82	0.40	5-85	1.42	3.4
35-39	5.13	9 - 09	2-51	6.02	0 64*	4.69	1.37*	4 - 1 -
10-44	0.95	2.97	2.14	5.47	0.98*	3.86	4 - 34 *	1 · 5-
5-49	10.92	11-84	8.61	6.48	6.75	7.96	5.06	6-99
0-54	16.05*	3.06*	9.71°	0.48*	10-05*	4.93*	6-28*	0.79
55-59	12.08*	1.32*	13.95*	6-43*	10.07*	5.82*	12.46*	5-0
60-64	12.39*	1.56	3.42	2.43	3 - 73	0.85*	2.66	1.9

^{*}Gain or increase; much of this seeming gain is probably due to understatement of age as explained above.

Addenda to Table VIII.

A. Net emigration from Nova Scotia, 1861-1881, as a percentage of the numbers in the initial groups from which it was drawn.

	1861-	1871	1871-1881	
Age at beginning of decade	Males	Females	Males	Females
5- 9	3.00	1.75*	3-81	1.85
0-14	8.76	2.78*	8.22	1 - 69
5–19	14.24	8.74	13 - 75	12.99
0-24	12.60	14 - 53	20.93	21.76
5-29	12.00	14.00	10.30	13.70
0-34	1.16*	4.37	3.96	8.18
5–39,••	1.10	2 00	7-69*	2 - 58
0-44	4.32*	2.49*	4.81*	8.72
5-49	1 02	- 10	7.13	5.33
0-54		-	15 - 45*	7-49
5–59		-	15 · 46*	8 · 63
0-64	April -	-	13.09*	18.8

^{*}Increase.

B. Net emigration from New Brunswick, 1861-1881, as a percentage of the numbers in the initial groups from which it was drawn.

Age at beginning of	1861-1871		Age at beginning of decade	1871-1881		
decade	Males	Females	decade	Males	Females	
6-16	7·19 21·10 11·09 3·78	0·09* 21·73 13·00 5·27	5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64	2·59 11·29 16·06 21·89 10·83 0·19° 0·50° 2·00° 7·70 14·07° 5·17° 6·61°	1 · 99 2 · 94 16 · 26 25 · 76 15 · 11 3 · 46 2 · 17 3 · 73 8 · 69 4 · 36 0 · 71 6 · 63	

Note.—In Prince Edward Island, out of the group 16-21 in 1871, $19\cdot67\%$ of the males and $24\cdot36\%$ of the females emigrated during 1871-1881 (net emigration).

While the Maritimes have lost by emigration in each age group under 50, over 50 there is evidence that the population has been increased by immigration-probably by the return of former residents to their former home. The latter explanation is supported by the fact that such increase of population at the older ages is more common among men than women-as should be expected, since the women who leave the Maritimes probably marry elsewhere. A special peculiarity is noticeable in the age group 45-49, where there appears to be an excessive amount of emigration. The explanation probably is that the number of persons in this group is understated, the age of 45 being a threshold which many of both sexes seem reluctant to cross. Another result of this inaccuracy is that the group of persons between 40 and 44 is always larger than we should expect. Thus it appears from many of the tables as if the population of the Maritimes were being swelled by the arrival of immigrants in their early forties, whereas it is probable that the returning tide (of persons who have done fairly well elsewhere and who return to spend their later years) does not become very great until the fifties. Minor irregularities at the higher ages may be due to the smaller numbers involved, or to differences between the mortality rates employed in the calculation and those of the Maritime Provinces. It will also be noticed from this table that under the age of twenty, males emigrate in greater numbers than females, while above the age of twenty, females emigrate in greater number than males. (By "emigration" is here meant departure to any place outside of the Maritime Provinces. including other parts of Canada).

One of the minor points of interest emerging from this table is the light which it seems to throw on the increasing mobility of women. The loss of women by emigration was small before 1880, and it did not occur except in the later ages. Since then, there is a manifest tendency toward greater freedom of movement on the part of women and toward emigration at earlier ages, although even yet male emigration is on a larger scale than female under the age of twenty.

* * *

At this point it should be emphasized that notwithstanding that, in each of the past four decades, the Maritime Provinces have seen an emigration of some 100,000 population, the gross population has continued to increase. The basic figures are restated in the following:

TABLE IX.—Increase in Maritime population compared with estimated gross emigration.

Decade	Population of	of Maritimes	Increase of	Estimated
27.14664	at begin- ning	at end	population	emigration exceeds
1861-1871 1871-1881 1881-1891 1881-1901 1991-1911	663,761 767,415 870,696 880,737 893,953 937,955	767,415 870,696 880,737 893,953 937,955 1,000,328	103,654 103,281 10,041 13,216 44,002 62,373	30,00 40,00 103,00 111,00 98,00 92,00

The population, it will be seen, continued to increase even during the periods of heaviest emigration. The explanation is, of course, that while the provinces were losing population in the most vigorous age periods, they were constantly being recruited by new births, inmigration, and the return in middle age of people who had formerly resided in the Maritime Provinces. In Nova Scotia and New Brunswick, these factors have always been more than enough to counterbalance the losses by death and emigration; in Prince Edward Island, however, they have not been sufficient since 1891 to prevent the population from diminishing.

* * *

One further method may be used to show how the composition of the population of the Maritimes is affected by emigration and immigration. Using life tables again to estimate the deaths to be expected in a period of 30 years, let us ascertain how many of the male population of the Maritimes in 1891 were still living in the Maritimes in 1921, how many were living elsewhere, and how many had died. The results of the calculation are as follows:

TABLE X.—Emigration and Mortality since 1891.

(Minus sign indicates return of emigrants to the Maritimes in later life, or possibly discrepancies in age returns.)

Age in 1891	1891 Male population	1921 Still living in Maritimes	1921 Laving elsewhere	1921 Dead
5- 9	55, 802 54, 316 49, 985 41, 864 31, 459 25, 744 23, 112 21, 257 19, 412 17, 384 12, 766 13, 423	30,993 27,412 25,453 22,197 17,201 16,260 13,255 9,685 6,623 3,612 1,528 386	16, 881 17, 491 13, 920 9, 044 4, 592 - 364 -1, 204 -1, 057 -1, 275 - 777 - 671 - 270	7, 928 9, 413 10, 612 10, 623 9, 666 9, 849 11, 061 12, 629 14, 064 14, 549 11, 909 13, 307
5—64	366,524	174,605	56,310	135,610

The foregoing table shows that, of 366,524 males between 5 and 65 living in the Maritimes in 1891, some 230,914 were still alive in 1921; of these, however, only 174,605 were in the Maritimes, 56,310 living elsewhere. The calculation is not complete, for in the table the fact is omitted that some of the elderly population reported in 1921 were not identical with the younger population of 1891 but were immigrants who had taken the places of the latter in the census. To correct the calculation for this factor it is necessary to deduct from the number of the original male population still living in the Maritimes, the number of males between 35 and 95 included in their numbers who came to the Maritime Provinces as immigrants since 1891. This number must likewise be added to the 56,310 already ascertained to be living elsewhere. We learn from the census of 1921 that the population of the Maritimes in 1921 included 35,410 immigrant males, of whom more than three-quarters arrived later than 1900. If we estimate that 25,000 of these immigrants arrived later than 1891 and were between 35 and 95 years of age in 1921, the final estimate becomes approximately as follows:

		366.524
Mala population 5-65 in	1891	900,924
		135,000
Died since 1891		
7 1 1 1 10 1-1 100	21, about	150 (HR)
Living in Maritimes in	21, another the second of the	B
		80,000
Living alsowhere 1921	alsut	OU, CIUN

How many former residents of the Maritime Provinces were living elsewhere in 1921? We can make a minimum estimate by the same method as before. Taking as basis the number of persons in each age and sex group who are calculated to have left the Maritimes in each decade, and calculating by means of the same life tables (1901) how many of these emigrants were probably still living in 1921, the following result is obtained:

TABLE XI.—Age and sex distribution in 1921 of the emigrant population formerly residing in the Maritimes, based on net emigration tables.

	Surviving emigrants from Maritam			
Age 1921	Male	Female	Total	
15–19	2,556	2,183	4,739	
20-24	8,534	5,398	13,932	
25-29	12.917	12,000	24,917	
30–34	16,181	14.803	30,984	
35–39	16,459	17,404	33,863	
40-44	16,974	17,756	34,730	
45-49.	16,694	18,955	35,649	
50-54	15,351	16,586	31,93	
55–59	12,758	14,210	26,96	
60-64	8,052	10,655	18,70	
65 69	3,392	4.844	8,238	
70–74	923	1,672	2,59	
75-79	351	725	1,076	
Totals	131.144	137, 185	268,329	

In the preceding table, we have not yet taken into account the additional emigrants whose places were taken in the census by immigrants. For this purpose, we must add to the number of former residents of the Maritimes living elsewhere almost the whole number of the immigrant population of the Maritimes over 15 years of age. The result of this correction is to show that the number of former residents of the Maritimes who were living elsewhere in 1921 was not less than 325,000. The above table shows the age and sex distribution of a large sample of them.*

3k 3k 3

This movement of population interacts with other social and economic conditions. It is itself a result of such conditions as the falling demand for labour on the farms, the attraction of the cities, the opening of the Canadian west, the fluctuating fortunes of the fishing and mining industries of the Maritimes, the rise or decline of the textile industry in New England, and partly of social custom.† At the same time, emigration is also in itself a cause of other social and economic conditions which in their turn affect emigration. We have therefore to consider an interaction of forces rather than a simple relation of cause and effect. The rest of this memorandum is devoted to an expansion of this aspect, the interaction of forces just referred to being dealt with under the six following headings:—

- I. Age Distribution.
- II. Sex and Marital Conditions.
- III. Birth, death and marriage rates.
- IV. Racial elements-The foreign-born.
- V. Rural and Urban distribution.
- VI. Occupations.

The Interaction of Emigration from the Maritime Provinces and the Age Distribution of the Population.

It has been pointed out that the Maritime Provinces have been, for over forty years losing population from the age groups 15-45, and gaining population by births, by the return of the middle-aged, and by new immigration, the latter however being insufficient to repair the losses from the 15-45 groups. The result is that when we compare the population of the Maritimes with that of a province which is receiving immigration and is not losing by emigration, we find that the latter has a larger percentage of population in the vigorous and productive years of life, while the province which is losing has a larger proportion in the dependent years of childhood

^{*}The figures of net emigration, upon which this table is based, are derived from Census data, and we therefore have no estimate of the number of persons who were born in the Maritimes after one census and left them before the next census. Similarly we have no record of immigrants who came to the Maritimes after one census and left before the next one. Had it been possible to include these two classes of emigrants from the Maritimes, it is probable that estimates of emigration from these provinces would be increased. In particular, the estimate of the number of living ex-residents of the Maritimes would be larger.

The importance of social custom is indicated by the fact that the immigrant population of the Maritimes was increasing during 1901-1921 concurrently with a large outward movement of the native-born population. Further, a considerable proportion of the immigrants in recent years (especially since 1911) have remained in the Maritimes. If the economic conditions in the Maritimes had been such as to necessitate all the emigration which has taken place among the native-born, the immigrants would perhaps have been even more likely to emigrate to other provinces or to the United States. For when a man has left his native country to better himself, he has already proved his willingness to sacrifice old associations for economic wellbeing: he has already submitted to change and dislocation in his life—and if his adopted country should prove disappointing, he is not likely to shrink from leaving it for a more attractive one. Most of the emigrants who left Canada between 1911 and 1921 were foreign-born.

and old age. For example, comparing the Maritimes with Ontario, in 1921 out of every hundred persons, the following numbers were in the given age groups:

TABLE XII.—Percentages of Population by Age Groups, 1921.

Age Groups	Prince Edward Island	Nova Scotia	New Brunswick	Ontario
Under 15	32 - 50	33.92	36.04	30 · 20
15-65	57 - 90	58-85	57.78	63 · 93
Over 65	9 - 60	7-23	6-18	5.87

If the population between 15 and 65 be regarded as performing most of the work of the community, and the population outside these limits as depending on the work of the former class, Ontario ought to produce more wealth per 100 of population than the Maritime Provinces, if merely for the reason that more of the hundred are at the productive ages. For—to summarize the figures just given in a slightly different form,—out of each 100 people: In Prince Edward Island, 58 people have to support themselves and the other 42; In Nova Scotia, 59 people have to support themselves and the other 41; in New Brunswick, 58 people have to support themselves and the other 42; in Ontario, 64 people have to support themselves and the other 36. In other words, in Ontario, the crew is larger by 6 people and the passengers less numerous by the same number. The Western provinces are even more favourably situated than Ontario in this respect.

This contrast between the provinces is the stronger if, instead of regarding all the people between 15 and 65 as producers and the others as non-producers, we concentrate attention on smaller groups at the most vigorous ages who are almost certain to be producers. Thus the following percentages of population consisted of males between 20 and 30:

TABLE XIII.—Percentages of Male Population of age 20-30.

	Canada	Prince Edward Island	Nova Scotia	New Branswick
1881	8-72	8-78	8 · 26	8-49
1891	8-94	8-25	8-48	8-14
1901	8.82	7.63	8.73	8 · 22
1911	10.50	7.46	8 - 33	8.04
1921	7.95	7.35	7.80	7.74

During the first fifteen years of the century, when the youthful population of Canada as a whole was growing very rapidly, that of the Maritime Provinces remained stationary or actually decreased. Since 1911 there has been a general movement in the other direction, due partly to war losses and more largely to general economic conditions which have caused a number of immigrants to leave Canada; this has lessened the difference between the Maritime Provinces and the rest of Canada.

The following statement, however, agrees with the former one in showing how the Maritime Provinces failed to participate in the influx of young people which benefited the rest of Canada before the war. While the latter increased 65 p.c., the Maritimes as a whole stood still (Nova Scotia and New Brunswick gaining, but Prince Edward Island going back):

TABLE XIV.—Population of Age 20-25.

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
1881	429,405	10,893	41,574	31,235
1891	473,057	10,311	43,223	30,032
1901	508,804	9,331	43,788	30,723
1911	706, 290	8,086	43,519	30,935
1921	711,211	7,032	43,781	32,336

While it is clear that this difference in age distribution must prejudicially affect production, only a rough estimate of the extent is possible. Estimates of the net value of production are issued annually by the Dominion Bureau of Statistics, but these estimates are limited to the extractive and manufacturing industries, excluding transportation, merchandising, finance, personal and professional services, and all other activities which do not result in the production of "form utilities" although they are none the less productive and necessary. The Bureau's estimates of production therefore include only some two-thirds of the real income of goods and services annually produced by the community. These estimates, for 1921, are reproduced in Col. 2 of Table XV below.* Dividing the estimates for each province by the population of the province, we obtain the net production per head as shown in Col. 4.

The outstanding fact shown by Col. 4 is that the value of production per head was lower in the Maritimes than in any other province except Manitoba.† If the survey were widened to include the other branches of production mentioned in the preceding paragraph, the position of the Maritime Provinces would be even more unfavourable as compared with that of Ontario and Quebec, since the latter provinces possess more than a proportionate share of the businesses of transportation, merchandising, finance, and professional service.

How far is this difference between the provinces due to the difference in the proportions gainfully employed? Assuming that the number of persons gainfully employed in each province increased from 1911-1921 in the same ratio as the population of the province, it is estimated that the numbers gainfully employed in 1921 were as shown in Col. 3. Column 5 gives the net value of production per person gainfully emptoyed in each province, while Cols. 6 and 7 compare the other provinces with Ontario on a percentage basis. Thus from Cols. 6 and 7 it appears that the production per person gainfully employed in Prince Edward Island was 65 per cent of that in Ontario, while the production per head in Prince Edward Island was only 56 per cent of that in Ontario. The difference measures the extent to which Prince Edward Island was handicapped by having a smaller percentage of population gainfully employed. This handicap was chiefly the result of unfavourable age distribution; i.e. a relatively large proportion of elderly and dependent people and a relatively small proportion of persons at the more productive ages. When all the provinces are compared in this way with the province of Ontario, it is evident that the Maritime Provinces, Quebec, and even Manitoba are measurably handicapped in production by their relatively unfavourable age distribution, while Saskatchewan, Alberta, and especially British Columbia enjoy an advantage over Ontario in this respect.

^{*}See also pages 35-36.

[†]Manitoba had a small crop in 1921.

TABLE XV.—How Age Distribution affects production per head in various Canadian provinces.

Province	Value of net production 1921 (000 omitted) 2	Persons gainfully employed 1921 (est).	Production per head 1921	Production per person gainfully employed	Production per head (Ontario = 100)	Production per person gainfully employed ((Ontario = 100) 7
	\$		\$	8		
Prince Edward Island	18,911	30, 164	213	630	56	65
Nova Scotia	130,280	184,456	249	708	66	74
New Brunswick	85,997	132,818	222	647	58	67
Ouebec	735,446	768,995	311	956	82	99
Ontario		1.160,367	380	962	100	100
Manitoba		235, 509	229	592	60	62
Saskatchewan	D.1.0. 000	320,769	306	723	80	75
Alberta		254,083	262	608	69	63
British Columbia		275, 485	379	723	100	75

Why is it that the Maritime Provinces did not attract a larger share of the immigrants who were coming to Canada in such large numbers from 1900 on, and could not absorb into their labour market their own young people as these reached maturity? The answer is doubtless in part to be found in the industrial situation. It is an economic commonplace that new population arrives on the scene already equipped with wants and prepared to give employment in satisfying these wants. To establish new businesses or to expand existing businesses requires capital and the skill of entreprencurs. The settlement of the Prairie Provinces brought concurrent prosperity and growth to Ontario's industries (the latter's favourable geographical position assisting) to such an extent that they absorbed the young people growing to maturity in Ontario and even more drawn from outside.* The impetus gained in the period before the warin the form of capital accumulation, good will, technical development, trained personnel, and enterprising skill -were sufficient to carry on the industry of Ontario even when conditions had become less favourable. But in the Maritimes, speaking generally, this does not appear to have happened. Whatever the full causes to be assigned, it may be here pointed out that the supply both of skilled labour and of organizing ability, so necessary to industrialization, had been impoverished by the emigration. For the drain of population from this section was as we have just seen a drain of the ages and classes which recruit skill and enterprise. Those who emigrate—at least in North America—are likely to take away with them rather more than their proportionate share of the energy and adaptiveness of the community; and especially is this the case when their ages fall within the category shown for the emigrants from the Maritime Provinces.

Thus emigration of the younger elements, by depleting the supply of labour and enterprise, hinders the establishment of new businesses, and itself becomes a cause of further emigration. The subject of rural and urban distribution, with which this topic is allied, is dealt with further on (pp. 24-27).

For an account of how the opening of the West during 1900-1913 reacted on the industrialism of the East, see report of the Board of Inquiry into the Cost of Living in Canada, 1914, Vol. II., pages 1044-1071.

II. The Relation between Emigration and Sex Distribution and Martial Conditions in the Maritines.

It has been shown (Table VII) that the most common age for emigration from the Maritimes is from 15 to 30. Female emigrants are more concentrated between these ages than are males. More males than females emigrate when under 20; more males than females return to the Maritime Provinces in middle age. Taking all ages together, however, we find that the net loss of male residents by emigration in any decade is slightly less than the net loss of female residents during the same period. Thus emigration is no longer regarded as so great an undertaking that females need shrink from it; or perhaps it is that woman's industrial spere has so expanded that there are as many opportunities for women emigrants as there are for men.

In examining the census*, we note the fact that during most of the history of Canada, males have outnumbered females in almost every age group except in old age, where more favourable mortality rates give women a slight preponderance. This phenomenon, so different from what is found in Europe, is due to the fact that males have formed the majority among immigrants. Generally speaking, where a country has a majority of males at all ages, it is probably receiving immigration; where it has a majority of females at most ages, this is probably due to losses by emigration or by war.

To the previous statement that the males outnumber the females in most age groups in Canada, there is one other striking exception. In 1921 the males were in a minority of 974 to 1,000 between the ages of 20 and 25. In 1911, the males between 10 and 15 were in a majority of 1,027 to 1,000. What has caused this change? Chiefly war tosses, although emigration may have played some part.

In the Maritime Provinces, the sex distribution is somewhat different from that of the rest of Canada. In Prince Edward Island, the males have usually been in the minority in all age groups between 25 and 40 from 1881 to 1911, athough in 1921 the group 25-29 alone still showed this peruliarity. The explanation is that net male emigration has usually been in excess of female emigration from Prince Edward Island, but not from the other two provinces. In Nova Scotia and New Brunswick the emigration of males has been partly counteracted by immigration, but this has not occurred to the same extent in Prince Edward Island.

From the social point of view, the ratio of males to females is of importance in that it affects the possibility of marriage. Where either sex is much in the majority over the other in corresponding age groups, a larger number of the sex which is in the majority must be celibate. But in this connection it should be remembered that men usually marry women two to five years younger than themselves. The ratio which is most important for this purpose is therefore not the number of men of a given age to each thousand of women of the same age but the number of men of a given age to each thousand women two to five years younger. When we examine the age and sex distribution of the Maritime Provinces from this point of view, we find that the women of each age group are more numerous than the men two or three years older.§

But this inequality is much increased by emigration. Women of twenty, who would normally marry among the men of twenty-two or twenty-three, find that the numbers of the latter have been decreased not only by the deaths of two or three extra years, but also by emigration, in which the men have outstripped the women because they arrived first at the emigrating ages. This explains the presence of so many "surplus women" in the Maritimes. If the young men leave the Maritimes in search of better opportunities, this motive is strengthened in the case of the women by the fact that the emigration of the men two or three years older has left them in the majority. It would not be surprising, indeed to find that the women emigrants outnumbered the men on this account, and on looking back at Table VII we find that the female emigrants actually do outnumber the males in each decade subsequent to 1891. The emigration

^{*}See Table 3, Vol. 2, Census of 1921. §See Table 4, Vol. 2, Census of 1921.

of young women is thus promoted both by the search for business opportunities and by the impossibility of marriage if all remain in the Maritimes. In this way, too, male emigration, by disturbing the proportions between the sexes, becomes a cause of female emigration.

The following tables illustrate the excess of females over males three years older in the Maritime Provinces as compared with the other provinces.

TABLE XVI.—Numbers of Females, by ages, compared with males three years older, illustrating Marriage Opportunities for Women.

	Prince Edv	vard Island	Nova :	Scotia	New Br	unswick
Age of females	Number of females	Males 3 years older	Number of females	Males 3 years older	Number of females	Males 3 years older
15-19. 20-24. 25-29. 30-34. 35-39. 40-44.	4,247 3,512 3,067 2,467 2,524 2,250	3,907 3,159 2,716 2,415 2,530 2,013	25,911 22,261 18,922 15,658 15,198 13,101	23,142 20,027 17,704 15,821 16,451 13,574	19,358 16,441 13,953 11,726 11,157 9,546	17,607 14,602 12,789 11,502 10,445 8,545
	Que	ebec	Ont	ario	Mani	itoba
15-19. 20-24. 25-29. 30-34. 35-39. 40-44	122,990 104,578 89,069 77,718 69,035 58,029	105,499 89,372 80,861 72,863 68,052 54,229	126,613 123,382 120,191 110,849 105,813 90,648	120, 363 116, 080 118, 631 110, 752 108, 700 83, 827	26, 912 23, 930 24, 565 22, 686 21, 091 16, 196	25,360 24,087 27,110 26,022 24,685 17,019
	Saskat	chewan	Alb	erta	British C	olumbia
15 19. 20-24 25-29 30-34 35-39 40-44	30, 393 27, 068 27, 802 26, 525 24, 220 18, 004	30,804 32,000 37,715 36,964 23,209 21,681	21,072 21,963 21,564 19,908 15,538 11,130	24,378 24,783 30,522 30,137 28,282 18,818	18,494 17,747 19,092 20,198 20,961 17,067	18, 482 19, 178 26, 417 29, 848 32, 366 22, 759

If the view above expressed is sound, we should expect to find among women of any age group, the largest proportion of unmarried in the Maritimes, and this is borne out in Table XVII.

TABLE XVII.—Percentage of unmarried women in each age group.*

Same	20-24	25-29	30-34	35-39	40-44	45-49
Canada	57 · 0	28-7	17-2	13 · 1	11-9	H-1
Prince Edward Island	68 · 9	38·1	24·7	19·1	16·0	11.9
Nova Scotia	60 · 9	31·7	18·7	13·9	12·6	11.8
New Brunswick	56 · 4	29·4	18·7	14·2	12·7	11.4
Quebec	61 · 6	33·1	20·6	15·3	13·8	12·1
Ontario	59 · 6	31·5	19·6	15·7	14·4	13·6
Manitoba	52·7	24-4	13·7	9·9	8·3	$6.7 \\ 4.5 \\ 5.0 \\ 7.8$
Saskatchewan	41·1	16-0	7·6	5·0	4·8	
Alberta	42·5	16-8	8·6	5·9	5·5	
British Columbia	52·9	24-1	12·8	9·1	7·8	

^{*}Abridged from Table 29, Vol. 11, Census of 1921.

The above table shows that in Prince Edward Island the percentage of women remaining immarried is higher than in any other province, at practically every age. Comparing for example, Prince Edward Island with Saskatchewan: in Saskatchewan only one woman out of

thirteen remains unmarried at the age of 30 to 35; in Prince Edward Island the proportion is one out of every four. Yet this comparison understates the disadvantages of Prince Edward Island, for the main reason why the percentage of the unmarried women here is so small is that so many of the unmarried women have left the province. In Nova Scotia and New Brunswick the percentage of women emigrating is even higher, thereby reducing the percentage of those within the province who are still unmarried; if the unmarried women remained within these provinces, the position would clearly be worse. It may be added that Quebec and Ontario, which also show a high percentage of celibacy, are also losing a considerable amount by male emigration.

In a previous paragraph it was pointed out that the crude birth and marriage rates of the Maritime Provinces were reduced by the emigration of young people at the most vigorous ages of life. We may now say in addition that the birth rate is further reduced by reason of the fact that on account of male emigration, so many of the young female population are obliged to remain celibate. This is another way in which emigration tends to reduce natural increase.

Has this proportion between the sexes any other economic effects? Without minimizing the importance of women in industry and commerce, it may be said that a differential emigration which takes away men in greater numbers than women is particularly serious for the economic development of a country. Certain types of industry (extractive and manufacturing) become almost impossible; others are apt to be more conservatively managed, and the proportion of non-productive persons in the population will be increased. Up to the present, net female emigration from Nova Scotia and New Brunswick has more than kept pace with male, and it is only in Prince Edward Island that the male emigrants have been in the majority and where consequently the females remaining in the island have been in the majority between 25 and 40. Of late years, female emigration even from Prince Edward Island has more nearly kept pace with male, and in certain ways this would appear to be advantageous.

III.—On the Interaction of Maritime Emigration and Birth, Death and Marriage Rate—Review of Natural Increase.

The argument under this heading largely rests on points which have been brought out in the sections on age and sex distribution preceding:

(1) Emigration by reducing the percentage of the young and vigorous, reduces the percentage of possible parents and so lowers both the marriage rate and the birth rate.

(2) By creating a surplus of females over males two or three years older, it leads to increased emigration of females; but as this emigration hardly ever overtakes the emigration of males, the result is enforced celibacy among many of the female remaining in the provinces. This is a familiar phenomenon in countries from which there is a large emigration. One of its results is to decrease the crude birth rate.

(3) By reducing the percentage of young and vigorous people in the Maritimes, emigration increases the percentage of infants and elderly people. Mortality rates are especially high among both of these classes: hence emigration causes a higher crude death rate.

These results are manifest in the following vital statistics:

TABLE XVIII. - Marriage Rates per 1,000 Population.

	Prince Edward Island	Nova Scotia	New Brunswick	Canada
1920. 1921. 1922. 1923. 1924.	6·8 5·8 6·6 5·2 4·6	8·5 6·8 6·0 6·1 5·6	9·8 8·4 7·1 7·4 7·4	9·4 8·0 7·1 7·2

Marriage rates are affected by mode of living and by business fluctuations as well as by the distribution of population, but it is notable that the rates for Prince Edward Island and Nova Scotia are lower for each year than those for Canada as a whole. New Brunswick has not suffered so greatly from emigration as the other two provinces.

TABLE XIX.—Birth Rates per 1,000 Population.

	Prince Edward Island	Nova Scotia	New Brunswick	Canada
1920 1921 1922 1923 1923	24·5 24·5 22·5 20·0	25·3 24·9 24·0 22·0 21·9	29·9 30·2 29·5 27·0 26·7	29·4 29·3 27·8 26·1

The birth rates given above do not show the effects of emigration so clearly as might be expected, but this is explained by other factors. In Prince Edward Island—perhaps on account of rural conditions—the fertility of wives is some 30 per cent greater than that of wives of corresponding ages in the Registration Area of Canada as a whole*. This excess of fertility is more than neutralized by the small proportion of women who are of efficiency and the still smaller proportion of such women who are married. In New Brunswick, where some 31 per cent of the population is of French-Canadian origin, while conditions of life in most of the provinces are rural in addition, wives show fertility about 24 per cent in excess of that of wives of corresponding ages in the Registration Area as a whole. This excess fertility also is nearly neutralized by the distribution of women in that province with respect to age and marital condition; although it is to be observed that New Brunswick has suffered far less in these respects than either Nova Scotia or Prince Edward Island. In Nova Scotia, the fertility of wives is some 10 per cent greater than that of the Registration Area as a whole; and that excess also is neutralized by the unfavourable distribution of females with regard to age and marital condition.

Death rates are closely correlated with birth rates. Since nearly one-tenth of the infants born die in the first year of life, a province with a high birth rate is likely to have a high crude death rate. This no doubt partly explains the slightly higher death rate in New Brunswick as compared with the other Maritime Provinces.

TABLE XX. -Crude Death Rates per 1,000 Population.

	Prince Edward Island	Nova Scotia	New Brunswick	Canada
1920 1921 1922 1923 1024	14 · 4 13 · 6 12 · 6 13 · 0 10 · 8	14·5 12·3 12·6 12·9 12·2	15-6 14-2 13-2 12-6 12-3	13-7 11-6 11-3 11-4

From the above table it appears that the Maritime Provinces have a higher crude death rate for each year than the nine provinces of Canada as a whole. This is true although the figures for the nine provinces, with which comparison is being made, include figures for Quebec province, where, because of the high birth rate, the death rate is also very high.

The comparison which best of all brings out the difference in vital statistics is obtained by placing the rates of natural increase in juxtaposition. The rate of natural increase is calculated by deducting the death rate per thousand from the birth rate per thousand. The comparison is as follows:

TABLE XXI.-Natural Increase per 1,000 Population.

	Prince Edward Island	Nova Scotia	New Brunswick	Canada
	11.5	10-8	13-4	15-6
20	10.7	12.6	15.9	17-8
921922	11.9	11.4	16:3	16 - 5
923	9.5	9.1	14.4	14.7
924	9-1	9-7	14-4	

^{*}From an unpublished report, Dominion Bureau of Statistics.

The foregoing table shows that the rate of natural increase in the Maritime Provinces is substantially less than that in Canada as a whole. It is apparent that emigration from the Maritime Provinces is one of the principal causes of this difference, inasmuch as it has reduced the proportion of potential mothers in the population and increased the proportion of persons subject to high death rates.

Historical Review of the Decline in Natural Increase in the Maritime Provinces, 1861-1921.

Although there are no reliable vital statistics for the Maritime Provinces which go back to 1861, yet it is possible to make an estimate of natural increase from census material, by methods which will be explained below. The data for this estimate are to be found in the summary of conclusions regarding emigration from the Maritime Provinces.

TABLE XXII.-Natural Increase, Maritime Provinces, 1861-1921.

1861-71—Population 1861 Increase during 1861-71	663,761 103,654
Immigrant population decrease	23,000
Total increase of native population Emigration of natives, about	127,000 15,000
Natural increase*	142,000, about 21%
1871-1881—Population 1871 Population increase Immigrant decrease	103,281
	11,000
Increase of native born. Engigration of natives nearly	114,000 40,000
Natural increase*	154,000, about 20%
1881-1891—Population 1881	870,696
A CHARLEST INCLESSE.	10.041
Emigration	104,000
Increase, total	444 300
Increase, total	114,000 9,000
	5,000
Natural increase*	105,000, about 12%
1891-1901—Population 1891	
T AND THE POST OF	880,737
Emigration	13,000 111,000
	-11,000
Tota! increase. Immigrants 1891-1901 present in 1901.	124,000
	17,000
Natural increase*	107,000, about 12%
	101,000, RINGEL 1276
1901-1911—Population 1901.	893,953
Population increase. Emigration	44,000
	99,000
Total increase.	143,000
Immigrants 1901-1911 present in 1911.	24,000
Natural increase*	
	119,000, about 13%
1911–1921—Population 1911	937.955
* OPARTONI INCIENSE.	62,373
Emigration, etc.	93,000
Total increase	150,000
Total increase Immigrants 1911–21 present in 1921	156,000 31,000
Natural increase*	125,000, about 13%

^{*&}quot;Natural increase" includes births to immigrants who have arrived during the decade under review, as explained below. It is thus slightly over-stated in each case, since it is not all due to the population at the beginning of the decade.

In explanation of this calculation it may be said that for each decade we know from the census the increase of population, together with the difference between immigration and emigration. From these two factors we can calculate the surplus of births over deaths. Thus the increase of population between 1911 and 1921 was approximately 62,000. It would have been more had it not been for emigration. We must therefore to obtain total increase add to the increase of resident population the number of emigrants. Deducting that part of the total increase due to immigration, we obtain as residue the natural increase—that is, the surplus of births over deaths occurring in the three provinces during the given period. Expressing this as a percentage of the initial population, we have the natural increase as a percentage of total population. The so-called natural increase includes births to immigrants who have arrived during the decade; the error, however, is relatively small.§

Do these estimates agree with known facts (above quoted)? For the years 1920-1924 we have reliable statistics of the rate of natural increase in the Maritime Provinces. During these years, the average rate is not very far from the estimate of 13% for the ten years 1911-1921, although there is evidently a new decline in the rate of natural increase since the war.

In the late seventies or the early eighties there began a decline in the birth rate in practically all the countries of Europe. We find that a similar decline set in at about the same time in the Maritime Provinces. In the European countries the most rapid decline took place in the period 1870-1890, with a lessening of the rate of decline in the nineties, and a more rapid decline again between 1900-1910. In the Maritime Provinces the decline occurs quite abruptly in the period between 1881-1891 when, in addition to the causes operating in Europe, the country was suffering from economic depression and widespread emigration of the young and vigorous. In the Maritime Provinces there is no evidence of any further serious decline of the birth rate from 1881 to 1921†. Since 1921 there has been a slight decline.‡

IV. Origins and Birthplaces of the People of the Maritime Provinces.

In an historical survey of population in the Maritime Provinces it is of importance to consider what are the sources from which they derive their population, whether the racial composition of the population has been changing, and whether there is any tendency for a native born population to be replaced by an immigrant population or vice versa.

The population of the Maritime Provinces in 1921 was almost entirely of British birth. Less than three per cent of the total number of inhabitants were born in non-British countries. Recent immigration has been largely from England, although there has been a small movement from the other Canadain provinces, and Nova Scotia has received a considerable number of immigrants from Newfoundland. The full particulars for the Maritime Provinces can be compared with those of the other Canadian provinces by reference to the returns of the 1921 Census.*

With regard to the racial origins of the people, there has been little change since 1881 in Prince Edward Island or Nova Scotia, where the population continues to be mainly British, although

[§]Taking the decade 1911-1921, let us suppose that the 31,000 immigrants who arrived during this decade were in the country five years on the average, and that the crude birth rate among them was 40 per thousand—which is considerably higher than the crude birth rate of Quebee. Then the number of births to them during the ten years would be 200, 1000 of 31,000, which is approximately 6,000, or less than 5 per cent of the whole "natural increase" calculated for this period. The "natural increase" for this period we calculated at about 13 per cent. Even if 5 per cent of this estimate be deducted, the corrected estimate would still be between 12 and 13 per cent for the decade.

[†]There must have been a slight decline, since the rate of natural increase did not become higher despite the general fall in death rates.

[‡]The above calculation could be made a little more accurate if all ages from 0-100 had been taken into account in calculating the emigration, instead of only the ages 5-45. The error involved is not large. Ages over 45 were omitted from the calculation because of their inaccuracy, the difficulty of estimating deaths, and the tendency of emigration and immigration to balance after these ages.

[&]quot;See Tables 36 and 37 of Vol. 2, 1921 Census (Birthplaces of the population) and Table 61 of the same volume (Immigrant population classified by year of arrival).

it is noticeable that in these provinces the English stock is gaining at the expense of the Irish and Scottish. Thus in Nova Scotia the change which has taken place during the past forty years may be summed up in the following comparison:

Nova Scotia	1881	1921
Percentage of English origin. Percentage of Scotch origin. Percentage of Irish origin.	29·28 33·14 14·99	38·58 28·25 10·63

A similar process is taking place in Prince Edward Island.

Prince Edward Island	1881	1921
Percentage of English origin. Percentage of Scotch origin. Percentage of Irish origin	19·66 44·94 23·34	26·31 37·73 21·15

In New Brunswick the change is more striking. In 1881, seventeen per cent of the population were of French origin and most of the remainder were of British races. In 1921, the percentage of French had risen above thirty-one, and that of British races had shown a corresponding decline. This change is not due to immigration from the province of Quebec. It is clearly shown by the successive censuses of Canada that the total migration from Quebec to New Brunswick since 1851 does not exceed fifteen thousand persons, and the number is probably even less. The following statement shows the number of residents of New Brunswick returned in each census as having been born in Lower Canada or the province of Quebec:—

1851	None	1891	3,602
1861		1901	4,293
1871 1881	9 440	1911 1921	5,300

The increase in Quebec-born population of New Brunswick during each decade as shown by the above table may be compared with the increase in the number of persons of French origin as follows:—

Decade	Increase in number of residents of New Brunswick born in Quebec	Increase in number of residents of New Brunswick who are of French origin
1871-81. 1881-91 1891-1901 1901-1911 1911-1921	687 475 691 1,007 3,279	23,344 18,632 22,500

From the above figures it is clearly evident that the increase in the population of New Brunswick of French origin is not due to immigration from Quebec, or (as the census shows) from any other French centre. It is due to more rapid natural increase or to less extensive emigration, or perhaps to a combination of the two causes.

The facts appear to lend themselves to the following interpretation: The "British" races, especially the Irish and Scotch, have been steadily declining in New Brunswick, either because of their failure to reproduce or because of their greater tendency to emigrate in search of better opportunities; probably both factors are at work. It would seem, indeed, that these races are especially subject to the attractions of city life. The French also emigrate; but either they

emigrate in small numbers, or their rate of natural increase is so high that it exceeds the emigration rate. Whatever be the causes, the conclusion is clear. If emigration from the Maritime Provinces continues on the present scale, and if there is no considerable change in the rates of natural increase characteristic of the various races, the proportion of people of French origin will increase with constantly greater rapidity.

Is there any tendency for a native born population in the Maritime Provinces to be displaced by an inumigrant population? To answer this question Table XXIII provides the materials:

TABLE XXIII.—Native and Immigrant Population.

	Numbers		Percentages	
Census	Native born (i.e. born in Canada)	Immi- grants	Native born	Immi- grants
Prince Edward Island				
861	63,027	*17,830	77-9	22 - 1
871	80,271	*13,750	85.4	14-6
881	99, 297	9,494	91 · 2 94 · 1	5.9
891	102,680	6,398 4,253	95-8	4.2
901	91, 154	2,574	97.3	2.7
911921	86,250	2,365	97.3	2.7
Nova Scotia				
861	298, 192	32,665	90-1	9.9
871	358,500	29,240	92 - 5	7.1
881	412,859	27,713	93·7 94·2	6-2
891	424,081	26,315 24,462	95.8	4.1
901	435, 172 456, 063	36,275	92-6	7.
911	480,332	43.505	91.7	8-
921	100,002			
NEW BRUNSWICK				
861	199,445	52,602	79-1	20-
871	240 0000	36,715	86.8	13.
881	. 290,165	31,068	90.3	9 ·
891	. 299,257	22,006	93 - 1	5.
901	313, 178	17,942 18,313	94-8	5.
911	333,576	21, 458	94.5	5.

^{*}Including immigration from Canada.

From the above table it is evident that both the absolute numbers and the percentage of immigrants (from other countries) in the Maritime Provinces have been steadily decreasing, except for a slight growth of the immigrant population of Nova Scotia and New Brunswick since 1901, i.e., during the period when Canada as a whole was receiving a large influx of immigrants. This movement has not, however, attained very great relative magnitude.

The loss of population from the Maritimes therefore chiefly affects a population of predominantly British origin; but this population is not being largely replaced by one of different origin except in New Brunswick, where the French section is rapidly growing.

V. The Influence of the Proportions of Rural and Urban Population upon the situation in the Maritime Provinces.

During the last half-century, and throughout almost all the countries of the white man's world, there has taken place a movement of population from the country districts to the cities and towns, resulting in a higher proportion of urban population in each succeeding census. Thus, in the United States the percentage of urban population to the total was 35-4 in 1890, 40-0 in 1900, 45-8 in 1910 and 51-4 in 1920. Similarly, in Canada, the percentage of urban population has increased from 31-80 in 1891 and 37-50 in 1901 to 45-42 in 1911 and 49-52 in 1921, this having taken place in spite of the great increase in the settled rural areas in the western parts of both countries. While the line of distinction between rural and urban population is differently drawn in Canada and in the United States, our census regarding many places as urban which in the United States would be considered as rural, † the general trend in both countries is sufficiently clear.

Again, the census of both countries shows not merely a relative decline in the proportion of rural population to total population, but an absolute cessation of the growth of the rural population throughout all the Eastern parts—that is, everywhere where there is not new land to settle. Thus, in Eastern Canada, in spite of the great growth of the last thirty years, in spite of the new rural areas which are being settled in Northern Ontario and Northern Quebec, the rural population in 1921 was actually less by almost 130,000 than in 1891, the figures for each of the five provinces, and for eastern Canada as a whole, being given in the following table:

TABLE XXIV.—Trend of Rural Population in the Five Eastern Provinces, 1891-1921.

	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Total
1891	78.758	373,403 330,191 306,210 296,799	272,362 253,835 252,342 263,432	988,820 994,833 1,038,803 1,038,630	1,295,323 *1,246,969 *1,198,803 1,227,030	3,024,731 2,014,132 *2,875,047 *2,895,413

^{*}See note on page 120, Canada Year Book, 1925.

Similarly, taking the geographic areas of the United States which are nearest to Eastern Canada, viz., the New England States, the Middle Atlantic States (New York, New Jersey, Pennsylvania), and the East North Central States (Ohio, Indiana, Illinois, Michigan and Wisconsin), we have a very similar state of affairs in the last thirty-years period. The figures are as follows:

TABLE XXV.—Trend of Rural Population in the New England, Middle Atlantic and East North Central States, 1890-1920.

Census Years	New England	Middle Atlantic	East North Central	Total
1890	1,560,850	5, 372, 448	8,381,124	15,314,422
1900	1,538,590	5, 378, 795	8,765,606	15,682,991
1910	1,554,599	5, 592, 519	8,633,350	15,780,468
1910	1,535,836	5, 588, 549	8,426,271	15,550,656

It is thus evident that the same general causes are at work in the rural areas of both countries, even where those rural areas have a ready market for their produce, the five largest cities of the United States (New York, Chicago, Philadelphia, Detroit and Cleveland), besides many smaller cities, being included in the area whose rural populations are given in the above table.

fIn the U.S. census, only places with 2.500 population or more are considered as urban. In Canada, all incorporated cities, towns and villages are considered urban. The population limit therefore varies by provinces.

Even with a remarkably populous and prosperous urban home market at their doors, the rural population of these areas has not increased in recent years. While the lack of increase may to some extent be due to the transfer of growing communities from the rural to the urban class between censuses, yet, in the last decade at least, there has been in certain areas just outside the cities an increase of rural residents who earn their livelihood in the cities, but thanks to the automobile, are able to live in the open country. Thus Connecticut, alone of the New England States, showed an increase of rural population in the decade between 1910 and 1920, this increase being presumably due to the overflow from New York City. We find the same phenomenon in this country in the neighborhood of Toronto and Vancouver.

Newfoundland and Labrador also show a loss of population which may be compared with that of the Maritime Provinces and the New England States. The population of Newfoundland and Labrador in 1901 was 220,984. The surplus of births over deaths, 1901-1911, was 29,833, and the population was also increased by the immigration of 2,692 people, most of whom settled in the capital and smaller towns; but during the same period there was a loss of 10,980 by emigration. In 1911-1921 the surplus of births over deaths was 31,347, the gain by immigration was 1,249, and the loss by emigration was 12,182. In his report on the census of 1921, the Colonial Secretary deplores the loss by emigration of the younger people, and shows how this has resulted in a declining birth rate in the rural districts. Certain districts have shown a constant diminution of population since 1884*.

If then, rural population throughout all the Northeastern portion of the continent is, except in special circumstances, stationary or even on the decline, it is evident that those gengraphic divisions which include both rural and urban areas will reflect this decline in proportion to their percentage of rural population. Areas with a very high proportion of rural population will tend to have a relatively stationary total population, while areas with a low percentage of rural population, may, in spite of a stationary rural population, show a normal increase of total population. Thus in the United States, Vermont, which has a comparatively small proportion of urban population (31·2 p.c. in 1920), recorded an absolute decline of 3,528 in total population between 1910 and 1920, while the neighboring state of New Hampshire, where similar conditions prevailed in the rural areas, was able, by its larger proportion of urban population (63·1 p.c. in 1920), to record an absolute increase of 12,511 in total population.

Now in Canada, the Maritime Provinces are among those with the highest proportion of rural population. Prince Edward Island had in 1921, 78·45 p.e. of rural population, the highest proportion of any province in the Dominion, while New Brunswick came third with 67·92 p.c. of rural population, surpassed by the 71·10 p.e. of Saskatchewan. Even Nova Scotia with 56·66 p.e. of rural population in 1921, was much more largely rural than Ontario or Quebec with 41·83 p.e. and 43·99 p.e. of rural population respectively and almost as rural as Manitoba, with its 57·12 p.c. of rural population. It is therefore evident that the Maritime Provinces, with a relatively high percentage of rural population, must be particularly affected by the conditions which have brought the rural population throughout all the Northeastern portion of the American continent to a standstill. Yet the total recorded increases of 31,499 in Nova Scotia and 35,987 in New Brunswick in the last decade compare very favourably with the increases of 25,643 in the neighboring state of Maine, and 12,511 in New Hampshire, and with the decrease of 3,528 in Vermont.

^{*}The Irish Free State, an agricultural country which does not suffer from lack of markets, has likewise declined 5-3 per cent in population between 1911 and 1926. This decline has been chiefly caused by losses of population from the rural districts. Since 1841, the "country districts" have lost 64 per cent of their population; towns of 200 to 500 residents lost 49 per cent, towns of 500 to 2,000 lost 25 per cent, towns over 10,000 other than Dublin and its suburbs dropped 13 per cent, while the metropolis and its adjacent townships gained 47 per cent. It is true that the loss of population between 1911 and 1926, amounting to 166,886 in all, is partly attributable to deaths in war (27,405 soldiers in addition to officers), to the withdrawal of some 34,000 British soldiers and dependents on the signing of the Irish Treaty, to civil disorders, etc., but these abnormal streams of emigration merely made up for the great dimination during the war of the number of ordinary emigrants. The present population of Ireland morth and south combined is 4,299.124, compared with 4,390.219 in 1911; and the magnitude of the stream of emigration during the past generation duay be judged from the fact that 1.817,457 persons born in Ireland are shown by official statistics to be now living in other countries. This exical population, no less than 43 per cent of the present population of Ireland, "must in itself attract a large number of emigrants" relatives and friends of the exiles every year, no malter how prosperous conditions are in Ireland." (Preliminary Report of the Free State census taken in April, 1926, from which also the figures just quoted have been taken.)

Further, the rate of increase in the comparatively small urban population of the Maritime Provinces during the period and particularly during the past decade has not been very much slower than the rate of increase in the urban population of the other parts of Canada. It is however, a generally observed phenomenon both in Canada and in other countries, that the rate of increase is greatest in the larger cities-which do not exist in the Maritime Provinces. The figures subjoined, show the urban populations of the nine provinces in 1911 and 1921, with the absolute percentage and increases; they indicate that the urban population in New Brunswick and Prince Edward Island increased practically as rapidly during the last decade as that of Ontario, and that the urban population of Nova Scotia increased proportionately as rapidly as that of British Columbia;

TABLE XXVI.—Absolute and Percentage Increase of Urban Population Between 1911 and 1921, by Provinces.

Provinces	1911 Urban	1921 Urban	Numerical increase in decade 1911-21 Urban	Per- centage increase
Prince Edward Island Nova Scotia New Brunswick Quebee Ontario Manitoba Saskatchewan Alberta British Columbia	14,970	19,003	4,123	27 · 54
	186,128	227,038	40,910	21 · 98
	99,547	124,444	24,897	25 · 01
	966,842	1,322,569	355,727	36 · 79
	1,328,489	1,706,632	378,143	28 · 46
	200,365	261,616	61,251	30 · 56
	131,395	218,958	87,563	66 · 64
	137,662	222,904	85,242	61 · 92
	203,684	247,562	43,878	21 · 54

What are the reasons for the comparatively stationary position of the rural population through the whole northeastern portion of the North American continent, whether in Canada or in the United States? Doubtless they are largely social, the desire for the "white lights," for society, the wish to get away from the isolation of rural life, though that isolation has been greatly reduced by the advent of the automobile, the rural telephone and the radio. Nevertheless, the causes of the exodus from the country to the town are preponderantly economic and must be taken account of in any consideration of the population situation in areas where that population is largely rural.

In brief, the population situation in the rural areas of Northeastern America and particularly in the Maritime Provinces of Canada is to be accounted for by three main causes of an economic character:-

- (1) The invention of labour-saving agricultural implements, rendering it possible to cultivate equally well a given area of ground with a diminished number of labourers, and a consequent decline of population, since the majority of people, being dependent on their labour for their living, cannot continue to live where there is no longer a market for their labour*. Thus, one Ontario township in a favoured section of the province near to the Toronto market, declined in population from 6,897 in 1861 to 3,635 in 1921; in other words, there were only 53 people in 1921 for every 100 in 1861‡. This great decline in population by no means implies any decline in production—though in view of the changing character of agricultural production during the period, it would require careful study by an expert to equate the volume of production in 1861 and 1921.
- (2) The migration of agricultural labour from the less fertile lands of the older provinces to the productive prairie lands of the Canadian and American West, where the labourer is not only more productive but receives a higher reward for his labour.

The whole history of the continent, whether in Canada or in the United States, has been a history of the westward progress of settlement. Thus New Englanders played a great part in

of Toronto.

^{*} It has been estimated that in the United States in 1895 it required only 120,000,000 days of human labour to produce the nine principal farm crops of the year, whereas the same amount of production would have required 570,000,000 days of human labour with the methods in vogue in 1850. (See H. W. Quamtanee "Influence of Farm Machinery on Production and Labour." pp. 27-29.)

† The township of Chinquacousy in the county of Peel, which at its nearest point is within 15 miles of Tecanto.

the settlement of the States on the southern borders of the Great Lakes and Iowa, while in this country people from the Maritime Provinces have played an important part in the making of the West. Thus, in 1921 there were some 48,000 persons living in Western Canada who had been born in the Maritime Provinces. There were also in Ontario and Quebec some 22,000 persons who had been born in the Maritimes. Added together, these numbers total about 7 p.c. of the resident population of the Maritime Provinces in the Census year, and this figure takes no account of the descendants of Maritime Provinces people, born clsewhere than in the Maritime Provinces.

(3) The greatest of the economic changes is, however, that which has resulted from the evolution of the methods of production, of transportation and of trade in the past fifty or sixty years. The production of many articles, such as articles of clothing, formerly carried on upon the farm, is now carried on in the city and brings there considerable numbers of young women, who formerly remained on the farm. Again, while fifty or sixty years ago most production was carried on for local and immediate consumption, today it is often for consumption on the other side of the world. Thus a much larger part of the population is engaged in transportation and trade, and this means an increased urban population. Finally, this is the day of the specialist in every line, and the specialist whether in medicine, law or business, has to locate himself where he can find sufficient consumers of his products to enable him to earn a livelihood. These he cannot usually find in rural districts, and consequently he must betake himself where there is an efficient demand for the specialized skill which he has to sell. This, in practice, means that he has to go to the large centres of population. Where, as in the Maritime Provinces, large centres of population do not exist, the student who secures a highly specialized training is, in a very real sense, under sentence of exile. The production of such specialized skill, especially in the fields of intellectual endeavour, has long been implicit in the educational systems of Nova Scotia and Prince Edward Island particularly, and the natural result has been that, as also happens in Scotland, considerable numbers of able and highly-trained men find no field in their own home for the exercise of their skill, and are therefore compelled to seek it elsewhere. Whether the transfer of manufacturing industry from the country to a town is a permanent phenomenon, is in these days of the cheap transmission of electric power, more of a debatable question than in the day of steam. Whether our educational systems should lay less stress upon the purely academic and more upon the practical and technical sides of education, aiming rather to fit the young to take advantage of the opportunities available where they live than to have to seek opportunity elsewhere, is another question which is exercising the minds of educationists. On the answers to these questions depends in considerable measure the future relationship of rural to urban population on this continent and implicitly a large part of the future of the Maritime Provinces.

VI. The Growth or Decline of certain Occupation Groups in the Maritime Provinces, 1891-1921.

Any thoroughgoing comparison of the occupations of the people of the Maritime Provinces at different times is rendered difficult by the changes in classification and nomenclature in the census of occupations. The increasing number and complexity of classifications is due to increasing differentiation in industry itself; to the rise of new occupations (such as those of electricians, motormen, chauffeurs, structural steel workers, etc.), and the disappearance of old occupations; and to the change in importance or status of other occupations (e.g. nursing has risen in a comparatively short time from a form of domestic service to a profession, while banking and insurance, formerly subdivisions of "trade and merchandising" in Canadian census figures

[§]The proportion of all gainfully employed Canadians working at agricultural pursuits declined from 48·1 p.c. in 1881 to 34·3 p.c. in 1911, while those engaged in manufactures increased in the same period from 11·7 p.c. to 18·0 p.c., those engaged in transportation from 2·9 p.c. to 8·0 p.c. and those engaged in trade and merchandising from 5·7 to 10·4 p.c.

now form part of a new "finance" group). Not the least important reason for changes in classification is the desire to know more at each successive census, and the improvement of statistical technique to that end.*

The most striking development since 1891 appears to be the decrease in the number of males gainfully employed in agriculture. In the next preceding section of this memorandum, this was explained by the invention of labour-saving agricultural implements, migration to the west, and the growing importance of urban industry and trade. The latter point is borne out by the increase in the number and percentage employed in manufacturing, trade and transportation throughout the country. But the decrease in the number of male agricultural workers in the Maritime Provinces, though considerable, is not itself sufficient to account for all the emigration which has taken place from these provinces. The number of males gainfully employed in agriculture in 1891 in the three provinces was 131,022. In 1921 it had diminished to 111,800, a decrease of 19,222 in the thirty years. It is true that a decrease in the number of gainfully occupied males involves also a decrease in the population consisting in their wives and children; but even if we supposed that each male lost to the farm involved the loss of four other persons (and this is obviously an over-estimate) the movement away from Maritime farms would not account for a third of the emigration which has taken place since 1891, though unquestionably the farms have been one of the chief nurseries of the emigrants.

TABLE XXVII.—Males engaged in Agriculture, with Proportion to all Males Gainfully Employed.

	Numbers			Percentage	of all gainfu males	lly employed
	P.E.I.	N.S.	N.B.	P.E.I.	N.S.	N.B.
1891	21,411	59,331	50,280	67-62	44.1	53 · 3
1901	20,720	52,836	48,304	67 · 45	39 · 1	49.3
1911	19,134	47,167	44,840	68 · 4	31.7	43 · 4
1921	18,057	47,771	45,972	66.8	30.5	40.7

From 1891 to 1911, although the male population engaged in agriculture was decreasing, the area of farm land occupied and the area improved were increasing. This seems to indicate that new machinery or changes in method were enabling a smaller number of people to cultivate and improve a larger area of land. Between 1911 and 1921, however, an opposite tendency appears. The number of males engaged in agriculture increased slightly in Nova Scotia and New Brunswick, but in both of these provinces, farm land began to be abandoned. In Nova Scotia, over 10% of the farm land which was occupied in 1911 had ceased to be occupied in 1921, and during the same period the area of improved farm land was reduced by more than 20%. In New Brunswick, about 6% of the land occupied in 1911 had ceased to be occupied in 1921, while the improved area diminished by more than 5%. In Prince Edward Island, the male farm population continued to decrease, but the occupied area increased a little during this decade, while the improved area nearly held its own. The following tables, abridged from the census of 1921, give the exact figures. The figures for 1871, 1881 and 1891 are not strictly comparable, as before 1901 they show area of lands occupied or improved, and in 1901 the heading changes to farm lands.

^{*} In early censuses the enumeration was limited to such rubrics as "labourer", "clerk", or "factory worker". In the censuses of 1911 and 1921, persons gainfully employed have been classified according to the general main divisions of industry in which they were employed, the class of worker, and the particular trade or calling. The occupational tables of these two censuses will accordingly provide a much more valuable source of information to the economic historian. Nevertheless, it is possible to compare the numbers engaged in various important groups.

TABLE XXVIII.-Farm Population and Areas.

Census year	Male population gainfully employed in agriculture	Area of occupied farms (acres)	Area improved (acres)
PRINCE EDWARD ISLAND 1901	20,720	1,194,508	726,285
	19,134	1,202,354	769,140
	18,057	1,216,483	767,319
NOVA SCOTIA 1901	52,836	5,080,901	1, 257, 468
	47,167	5,260,455	1, 257, 449
	47,771	4,723,550	992, 467
NEW BRUNSWICK 1901	48,304	4, 443, 400	1,409,720
	44,840	4, 537, 999	1,444,567
	45,972	4, 269, 560	1,368,023

TABLE XXIX.—Male population aged 10 years or over, gainfully employed in agricultural occupations, per 100 acres.

	(Occupied lar	nd	Improved land			
Year	Prince Edward Island	Nova Scotia	New Brunswick	Prince Edward Island	Nova Scotia	New Brunswick	
1901	1·7 1·6 1·5	1·04 0·90 1·01	1.09 0.99 1.08	2·9 2·5 2·4	4·20 3·75 4·81	3·43 3·10 3·36	

For every 100 acres of occupied farm land, Prince Edward Island had, in 1921, 1.5 male farm workers, as compared with 1.01 in Nova Scotia and 1.08 in New Brunswick. It is not surprising, therefore, to find that the percentage of occupied land described as improved is much greater in Prince Edward Island, as shown in the following table:

TABLE XXX.-Percentage of occupied farm land improved.

Year	Prince Edward Island	Nova Scotia	New Brunswick
1901	61	25	32
	64	24	32
	63	21	30

In Nova Scotia the percentage of land which is improved is not only the smallest in the Maritime Provinces, but it is actually diminishing. This may indicate that a larger part is being treated as natural pasture.

A comparison of the number of farm workers employed per 100 acres of *improved* land from the above table is interesting. In Nova Scotia the number of farm workers per 100 acres of

improved land has been from fifty to a hundred per cent higher than in Prince Edward Island. This might seem to indicate that the Nova Scotia farmers were less efficient, or that they cultivated the land more intensively; the real explanation, however, is probably that so many Nova Scotia farmers combine work on the land with fishing or other occupations.

Forestry.—This industry is practically non-existent in Prince Edward Island. Its development in the other two Maritime Provinces is indicated in the following table:

TABLE XXXI.-Males engaged in Forestry.

Canona	Nu	mber	Percentage of total gain- fully employed males		
Census	Nova	New	Nova	New	
	Scotia	Brunswick	Scotia	Brunswick	
891	1,512	1,240	1 · 1	1.3	
	1,890	1,615	1 · 5	1.6	
	3,211	4,442	2 · 1	4.3	
	2,437	4,357	1 · 6	3.9 (loggin	

The figures indicate great growth in this industry in the first ten years of the present century, followed by a period of retrogression.

Fishing.—The figures for fishing and hunting are usually given together, but in the Maritime Provinces most of the persons engaged in these occupations are actually fishermen. The figures are as follows:

TABLE XXXII.-Males engaged in Fishing.

Census		Number		Percentage of total gainfully employed males			
Census	Prince Edward Island	Nova Scotia	New Brunswick	Prince Edward Island	Nova Scotia	New Brunswick	
1891	911 1,133 1,352 1,180	14,372 14,146 14,666 12,367	2,913 2,515 2,842 2,948	2·9 3·7 4·8 4·4	10·7 10·3 9·8 7·9	3-1 2-6 2-8 2-6	

The most striking feature is the absolute and relative decline in the fishing industry since 1911, especially in Nova Scotia, its chief centre.

Mining.—The mining figures for Nova Scotia and New Brunswick are given below, (the industry in Prince Edward Island is negligible):

TABLE XXXIII.-Males engaged in Mining.

Census	Nu	mber	Percentage of total gainfully employed males	
	Nova	New	Nova	New
	Scotia	Brunswick	Scotia	Brunswick
1891	5,839	340	4·3	0·3
1901	7,976	187	5·9	0·2
1911	17,134	831	11·5	0·8
1921	15,352	801	9·8	0·7

This table reflects a rapid development of mining in Nova Scotia from 1901 to 1911, but this growth was not maintained. Mining continues, however, to employ nearly a tenth of the gainfully employed males of Nova Scotia.

Manufacturing.—In this table the 1901 figures are omitted as they include skilled labourers employed in the building trades, who have been omitted from the other figures.

TABLE XXXIV.—Males engaged in Manufactures.

Canava		Number		Percentage of total gain- fully employed males			
Census	Prince Edward Island	Nova Scotia	New Brunswick	Prince Edward Island	Nova Scotia	New Brunswick	
1891	2,943 1,807 1,212	14,283 21,601 18,907	11,515 16,230 15,458	9·3 6·5 4·4	10·5 14·5 12·1	12·2 15·7 13·7	

The table shows that manufacturing, once as important in Prince Edward Island as in the other Maritime Provinces, has almost disappeared from the former. In both Nova Scotia and New Brunswick, there was a moderate growth in the absolute and relative importance of manufacturing before the war, with some retrogression since. Even in 1921, however, the percentage employed in manufacturing was a little greater than in 1891. The figures for females employed in manufacturing cannot be given so fully, but they show much the same fluctuations as those for males.

Transportation, Trade and Merchandising .- The figures are as follows:-

TABLE XXXV.-Males engaged in Transportation.

Census		Number		Percentage of total gain- fully employed males			
Census	Prince Edward Island	Nova Scotia	New Brunswick	Prince Edward Island	Nova Scotia	New Brunswick	
1891	1,039 1,119 1,159	9,483 11,098 13,353	5,398 7,772 10,182	3·3 4·0 4·1	7·0 7·5 8·5	5·7 7·5 9·0	

TABLE XXXVI.—Males engaged in Trade and Merchandising.

Consus		Number		Percentage of total gainfully employed males			
Census	Prince Edward Island	Nova Scotia	New Brunswick	Prince Edward Island	Nova Scotia	New Brunswick	
1891 1911 1921	1,371 1,560 1,721	7,684 11,245 13,239	6,014 8,087 9,773	4·3 5·6 6·4	5.7 7.5 8.4	6·4 7·8 8·6	

A few other groups could be followed in a similar manner, but the results would have little value because of changes in classification. Figures for the building trades were not separately given in 1901 (being merged with manufactures and domestic and personal service), and even in the years after 1901 it is difficult to know how many general labourers not otherwise specified should be classed with this group. The service group (including custom and repair businesses, domestic and personal service, professions, public administration, and recreational services) has probably been growing in importance.

Summary of Conclusions

Since Confederation there has been an emigration from the Atlantic Maritime Provinces of approximating 450,000.

During the decade 1861-71, the population of the three Provinces increased from 663,761 to 767,415. This was due to natural increase or arrivals from Canada, since the immigrant population decreased from 103,097 to 79,705 during the same period. There was a moderate emigration of young people during this period—something over 30,000—but at least half of these appear to have been immigrants.

During the decade 1871-1881, population increased from 767,415 to 870,696. This increase also was entirely due to natural increase or arrivals from other parts of Canada, since the immigrant population diminished from 79,705 to 68,275 during the period. Emigration was in excess of 40,000, and most of the emigrants appear to have been natives of the Maritime Provinces. This decade therefore marks the beginning of the pronounced movement of the native born from the Maritimes

During the decade 1881-1891, the population of the Maritimes increased only slightly—from 870,696 to 880,737. During this period, the provinces lost by emigration about 104,000 inhabitants. About 13,000 of these were immigrants who had come to the Maritime Provinces before 1881; the remaining 91,000 appear to have been native-born. This loss was counterbalanced to a slight extent by the addition of about 9,000 new immigrants. Without such addition the population of the Maritimes would have remained practically stationary during the eighties, the native emigration almost cancelling the natural increase.

From 1891-1901, the population of the Maritimes again showed little increase—namely, from 880,737 to 893,953. During this decade the loss by emigration was heavy, exceeding 111,000. Of these, some 18,000 were foreign born residents who had come before 1891, but the remaining 93,000 seem to have been native-born. The departure of the 18,000 immigrants was nearly counterbalanced by the arrival of some 17,000 new ones who remained in the provinces at least long enough to be enumerated in the census of 1901. As in the preceding decade, had it not been for the arrival of these immigrants, the population of the Maritimes would have shown a net loss, the emigration of the native-born being again almost sufficient to cancel the natural increase.

From 1901 to 1911 the population of the Maritimes began to increase more rapidly, namely from 893,953 to 937,955. During this period the Maritimes lost by emigration about 99,000 residents, of whom about 6,000 were immigrants who had arrived before 1901, while the remaining 93,000 were native-born. Meanwhile some 24,000 new immigrants came in. About half of the increase in population during this decade is thus attributable to immigration and about half to natural increase (including, of course, births to immigrants).

From 1911-1921, population increased still more rapidly, from 937,955 to 1,000,328. During these ten years the Maritimes lost, by emigration and war causes combined, about 93,000 residents, including some 13,000 immigrants and some 80,000 native-born. Meanwhile, over 31,000 new immigrants settled.

From this it appears that emigration from the Maritimes has been in evidence in every decade since Confederation, although the most considerable movement occurred in the eighties and nineties. From 1891 to 1901 the immigrant arrivals were not even sufficient to balance the departures of former immigrants; while emigration from the Maritime Provinces almost cancelled the natural increase of the native-born. Since 1901 immigrant population has been increasing at the average rate of about 1,000 a year, but the native-born population is still emigrating in great numbers. The magnitude of this emigration of the native-born may be illustrated by stating that, in each decade since 1881, the three provinces have lost a native-born population practically equal to that of Prince Edward Island.

Of the male population between 5 and 65 who were living in the Maritimes in 1891, over one third of the survivors were living elsewhere in 1921. There were in 1921 at least 325,000 former residents of the Maritimes who were living elsewhere,—about three-quarters in the United States. This emigration of the native-born was not entirely due to the impossibility of making a living in the Maritime Provinces, for since 1901 the immigrant population has been increasing. The latter increase occurred chiefly before the war, but has also been in evidence on a small scale since.

The effects of this emigration upon the Maritime Provinces may be briefly summarized as follows:—

The emigrants are mostly drawn from the most desirable classes of the population, the majority being native-born of British races. Most of the emigrants leave the Maritimes between the ages of 15 and 30, after having been educated at the expense of the provinces, and when they are young, vigorous, ambitious and enterprising. By their departure the Maritime Provinces lose not only the most efficient type of labour power but also enterprising ability on which further development depends.

Under the age of twenty, male emigration is larger than female, while over twenty, female emigrants are slightly in the majority. Nevertheless the percentage of celibate females in the eastern provinces remains undesirably high.

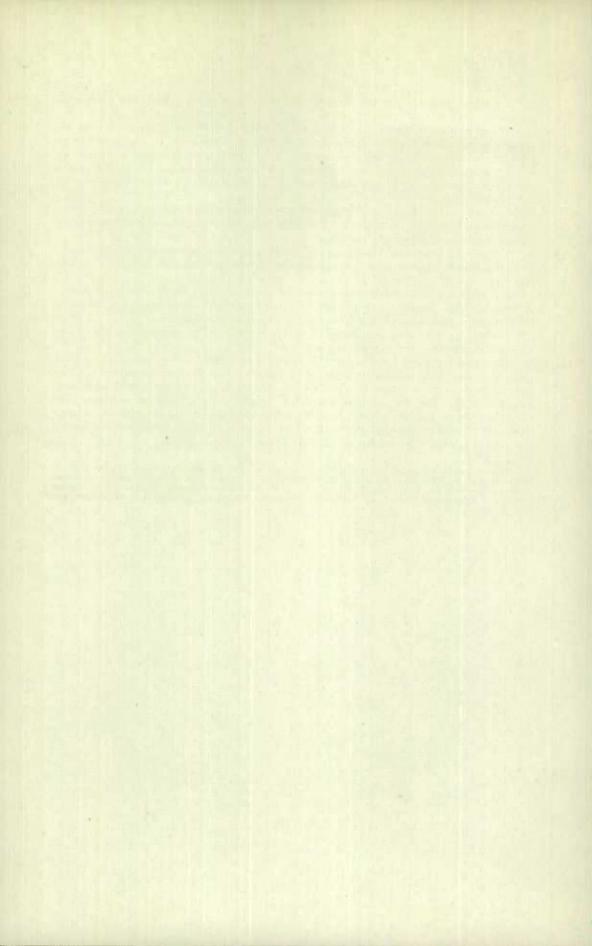
The effect of emigration in removing the younger and more vigorous elements of the population is to decrease crude birth and marriage rates and to increase crude death rates, thus checking natural increase.

Nova Scotia and Prince Edward Island remain the most characteristically British provinces, and migration has done little to change this. In New Brunswick emigration is helping to reduce the proportion of British stock and to increase the percentage of French origin.

Productivity in the Maritime Provinces is adversely affected by emigration, which reduces the percentage of producers in the population.

The emigration movement from the Maritime Provinces finds a close parallel in the New England States. Both movements appear to be connected with the general tendency of population to leave the farms (where the labourer's task has been so largely taken over by machinery) and flock to the urban centres of manufacturing, commerce, and professional activities. The same phenomenon has been observed in Newfoundland and Quebec; the latter has lost a larger number of people by emigration than the Maritime Provinces, although the high rate of natural increase has prevented the loss from being felt so much.* Also in Ireland.

^{*}Quebec's losses by emigration are calculated as follows: 1881-91, 153,000; 1891-01, 161,000; 1901-11, 98,000; 1911-21, 162,000. Thus the immigration from Quebec in each decade since 1881 has exceeded that from the three Maritime Provinces. Relatively, however, the loss has been less, the population of Quebec being twice as great as that of the Maritimes. As in the Maritimes, emigration from Quebec was heaviest in 1881-1901.



CHAPTER III.-PRODUCTION AND INDUSTRY

Part I.-Introductory-General Survey of Production.

A feature of productive industry in the Maritime Provinces is its diversified character—in which respect it stands in strong contrast to a region like the Prairie Provinces. A broad review of Maritime production is given in Table I which shows that several branches of industry contributed major parts to the total net value of \$192,507,000 in 1924, though agriculture outdistanced the others considerably, coming first with a total net production valued at \$65,809,000, or 34 p.c. of the total. Total net value of forestry production amounted to \$41,341,000 of manufactures to \$30,972,000, of mining to \$25,789,000, and of fisheries production to \$15,363,000.*

Employment in the Maritime Provinces, 1921-1926

As a sidelight on productive activity and recent industrial conditions in the Maritime Provinces, the monthly record of employment maintained in the Dominion Bureau of Statistics since January 1920 is of value. This record is based on a circular addressed on the first day of each month to every employer having 15 workmen or over.§

Employment in the Maritime Provinces, as in other parts of Canada, showed great activity during 1920. In 1921 there was a marked recession throughout the Dominion, but it was considerably less in the Maritime and Western Provinces than elsewhere. In 1922, on the other hand, employment in the Maritimes and Quebec was on the whole on a lower level than in the rest of Canada. Ninetcen hundred and twenty-three saw a general recovery, in which the Maritimes shared. In 1924, however, they fell back to the lowest level throughout Canada, and this relative situation has not materially altered since.

The returns for the nine elapsed months of 1926 indicate a situation which is distinctly better than in 1925, and which tends to improve, the index number for all industries on September 1, 1926, being 96.7, as compared with 88.4 on the same date of 1925.

It is significant that in 1921 these provinces were relatively free from industrial disputes, only 128,343 working days having been lost through such cause, as compared with 324,226 in 1922, 321,603 in 1923, 323,600 in 1924, and 1,478,727 in 1925, when the great strike in the coal mines prejudiced the situation. (See appendix to chap. III for note on labour organization and trade disputes in the Maritimes).

In Table II herewith is given a series of index numbers which shows the comparative activity of employment by provinces throughout Canada. In Table III a survey of the employment situation in the Maritime Provinces by industries for the past four years is given as of December, January, April, July and October, with comparative figures for all Canada. A résumé of Table III is as follows:—

Manufacturing.—Employment in manufactures in the Maritime Provinces has recently been at a lower level than elsewhere in Canada; the index averages 88·1 in 1923, 78·0 in 1924, and 75·4 in 1925, while for the January-September period in 1926 it is 77·4, or 2·7 points higher than in the corresponding months of last year. Lumber products in 1926 have shown more recovery than in either of the two preceding years and the seasonal losses last winter were less marked. Pulp and paper has reported a favourable situation during the elapsed months of

§ During 1925 employment data were received from an average of 523 firms in the Maritime Provinces, whose payroll averaged 65,310; for all Canada the corresponding number of firms was 5,900 and the payroll 761,131.

35

^{*}Table I, it may be explained, is designed to give an inclusive statement for each general industry and at the same time prevent duplication in connection with "border-line" products; e.g., dairy factories are included under agriculture, sawnills and pulp mills under forestry, cement and clay products under mining, etc.; these and similar are also included under "manufactures", but the duplication is climinated in the grand total, "Net" production represents an attempt to climinate the value of all material consumed in the production process. The year 1924 is the latest for which the information is uniformly

TABLE I.—Value of Production in Maritime Provinces by Leading Industrial Divisions, 1924.

	Prince E Isla		Nova Scotia		New Brunswick		Maritime Provinces			Canada		
	Gross \$000	Net \$000	Gross \$000	Net \$000	Gross \$000	Net \$000	Gross \$000	Net \$000	Percent- age of net	Gross \$000	Net \$000	Percent age of ne
Agriculture	19,573	15,064	38,006	29,125	00 070	01.000						
Forestry	837	769			28,673	21,620	86,251	65,809	34 - 19	1,530,482	1,140,896	37-9
Fisheries			11,972	10,074	43,147	30,498	55,956	41,341	21-49	433,817	311,266	10 -
	1,624	1,202	11,907	8,777	6,288	5,384	19,819	15,363	7.98	56,015	44,534	1.
Frapping	3	3	198	198	63	63	264	264	0.14	14,786	14,786	0
Mining	-	-	23,820	23,820	1,969	1,969	25,789	25,789	13.39	230, 106	209, 583	6-1
Electric power	137	129	2,352	1,871	1,559	1,231	4,048	3,231	1.68	95, 170	74,617	2.4
Construction	238	154	5,073	3,459	4,323	2,808	9,634	6,421	3.33	287,688	187, 114	
Manufactures (a)	3,721	1,439	64,573	25,642	67,456	26,952	135,750	54,033				6.2
Custom and repair	234	142	2,994	1,954	1,713					2,695,053		(b) 32-3
			_,007	1,001	1,110	1,221	4,941	3,317	1.72	90,837	58,053	1.1
Total (a)	24,378	18, 138	145,356	96,071	124,430	78,298	297, 163	192,507	100.00	4,930,417	3,018,182	100 - (

⁽a) Manufactures includes certain duplication eliminated from total.
(b) Percentage adjusted.

1926, the index averaging 116.8 as compared with 111.9 in 1925, 113.6 in 1924, and 114.8 in 1923. The iron and steel industry, though quiet as compared with the earlier years of the record, has gained during 1926, the index averaging 58.0 in the January-September period, compared with 51.6 in the same period of 1925.

Logging.—Owing to the seasonal nature of logging operations, employment shows a low average; for the completed months of 1926, however, this was slightly higher than in the same three-quarters of 1925 or 1923, although at 24·7 it was lower than in 1924. On Sept. 1 the index was several points higher than in either of the two preceding years.

Mining.—The index number of employment in mining, at 99.4, was higher on Sept. 1 than in any month of last year. On the whole, however, it has averaged successively lower in each of the last four years, partly owing to the strikes that have affected the situation to a marked degree.

Communication during the years of the record has maintained a fairly even volume of employment, activity being rather greater in the autumn of this year than in 1925.

Transportation.—Transportation has been more active during 1926 than in preceding years, the index of employment for the nine elapsed months averaged 95·1, as compared with 87·9 for the same period in 1925, 84·7 in 1924 and 87·7 in 1923. At its peak in April of this year, the index was over six points higher than the previous high level for that date, in 1925.

Construction and Maintenance.—Employment in construction and maintenance has, on the whole, been higher during 1926 than in any other year of the record; the index averages 164.5 in the January-September period, while in the same months of 1925, 1924 and 1923 it was 163.9, 111.8 and 133.6, respectively. Highway work has been exceedingly brisk in both 1925 and 1926.

Trade.—So far this year, trade has been slightly less active, the index averaging 111·5, compared with 112·8 in the January-September period in 1925, 111·2 in 1924 and 115·6 in 1923.

TABLE II.—Index Numbers of Employment by Districts, 1921-1925

Note.—The number employed by the reporting firms in January, 1920, is taken as 100.

	Maritime Provinces	Quebec	Ontario	Prairie Provinces	British Columbia	Canada
RELATIVE WEIGHT	OF EMPLOYMI	ENT BY DIST	RICTS AS AT	SEPT. 1, 1926		
	8.3	28.7	40-4	13-1	9.5	100.0
1921						
n 1	95-9	88-3	83 - 4	95.7	86-6	87-7
	96.3	90-4	88 - 1	93-7	87.2	90 - 1
eb. 1	90.7	88-7	86-2	91-0	87-3	88-0
ar. 1	87.2	80-4	83.5	88-7	88-1	84-1
pril 1	87.5	80.8	83 - 6	86-6	90-1	84 - 1
ay 1	89.5	83-4	84.9	91.9	93-3	86-6
ne 1	00.0	87-2	84-2	94-7	92.6	87-1
dy 1,	91-2	87.8	85.0	97.5	96-3	88-9
ıg. 1	93-5	87.4	83.7	98-5	95 - 6	88 - 7
pt. 1	200	89-2	85.9	100.0	98-4	90 - 5
ct. 1	0 1	87-5	87.0	102-6	94-3	90-5
ov. 1	an #	83.7	85-9	95.6	88-9	87 - 2
lec. 1	00.0	00.1	00.0			
Average	91.2	86 - 2	85 · 1	94-7	91.4	87-8
1922						
	78-1	74-4	78-3	82-8	79.9	77-1
m. I	MO 42	74-6	79.5	83.0	84.3	78 -
об, 1	00 0	80-6	81-7	84.4	85.3	81 -
ar. 1	00.0	77.5	81-1	82-1	85.9	80-
pril 1		81-2	82-4	85-4	91.3	83-
ay 1	DPC 4	88-1	87.8	92.8	96-6	80 -
ne 1	00 0	88.0	89.2	99.7	99.2	91.
ly 1		90.3	90.8	101.5	99.8	93 -
ug. 1		91.6	91.9	101.2	102-0	93.
pt. 1,		92.0	93-6	101.9	100-1	94.
ct. 1		92.0	89.0	105.0	100.2	95
ov. 1		93.9	01.4	101.5	95-6	95 -
ec. 1,	92 · 1	93.8	81.4	101.0	80.0	70
	86-7	85-4	87-1	93-4	93 - 3	87 -

TABLE II.-Index Numbers of Employment by Districts, 1921-1925-concluded

	Maritime Provinces	Quebec	Ontario	Prairie Provinces	British Columbia	Canada
1923						
Jan. 1 Peb. 1 Mar. 1 April 1 May 1 June 1 July 1 Aug. 1 Sept. 1 Oct. 1 Nov. 1 Dec. 1	90·8 90·4 90·7 90·5 90·0 93·9 101·0 97·8 101·4 97·0 95·2 91·2	83-5 87-7 87-9 85-5 90-3 99-1 100-5 101-9 100-1 104-0 103-2 98-5	85 · 6 90 · 0 90 · 8 88 · 4 91 · 6 96 · 8 97 · 2 97 · 1 98 · 1 96 · 0 93 · 4	90·0 91·8 88·9 83·5 90·4 95·5 101·4 104·3 101·1 100·7 99·2 99·3	88-3 88-4 92-0 92-8 97-5 100-4 103-9 107-2 106-6 104-2 102-8 97-8	88-3 89-5 87-6 91-4 97-3 99-5 100-0 100-0 99-5 98-8 95-7
Average	94-2	95-2	93.4	95.5	98-5	94-6
1924 Jun. 1	86-3	90.5	86-1	94 - 3	00.0	00.5
Feb. 1 Mar. 1 April 1 May 1 Iune 1 Iune 1 Iuly 1 Aug. 1 Sept. 1 Oct. 1 Nov. 1 Dec. 1	83·2 82·4 84·6 88·1 90·0 90·6 90·2 86·6 88·3 83·7 79·3	92.8 93.5 91.5 94.1 99.9 100.6 98.7 97.8 97.6 97.1 95.3	90.0 89.8 87.6 89.8 92.1 91.4 90.3 88.9 91.6 90.4 88.4	92.1 89.0 87.0 89.4 94.1 99.1 96.4 93.9 91.4	90 · 9 92 · 7 97 · 1 99 · 6 102 · 9 103 · 4 105 · 8 107 · 1 106 · 0 104 · 0 102 · 1	88.7 90.6 90.7 89.3 91.8 95.2 95.9 94.7 93.1 93.0 90.8
Average	86-1	95.8	89 - 7	92-8	101-0	92-3
1925						
an 1 reb 1 far 1 tpril 1 fay 1 une 1 uly 1 tug 1 tept 1 cov. 1 oo.	78.5 79.1 81.7 83.4 86.6 90.3 99.4 92.2 88.4 88.1 85.5 83.5	85·0 89·1 89·6 89·8 91·2 100·6 101·1 101·3 102·7 101·1 98·5	81·4 83·4 85·0 84·9 87·7 89·8 91·8 90·8 92·7 94·3 93·7 92·6	88 · 1 88 · 4 85 · 0 84 · 1 88 · 0 93 · 1 95 · 9 97 · 3 96 · 0 99 · 8 99 · 1 97 · 5	92.9 95.1 98.1 100.1 105.1 106.5 108.0 112.2 114.2 114.8 111.5	83 · 9 86 · 1 87 · 0 87 · 2 90 · 8 91 · 5 96 · 8 96 · 3 96 · 6 98 · 3 97 · 1 95 · 3
Average	86-4	96-2	89.0	92 · 7	105-6	92.5
1926						
nn. 1. cb. I. lar 1. pril lay 1. mp. lay	84 · 4 85 · 1 88 · 7 84 · 7 83 · 8 87 · 9 91 · 1 94 · 5 96 · 7	90·7 92·6 94·0 95·7 99·0 108·8 112·8 113·5 113·1	86-3 88-1 89-2 88-0 90-4 95-2 97-0 96-7 97-9	95·1 90·7 88·6 88·2 92·5 103·5 107·3 106·6	100·5 103·6 103·3 108·3 113·5 116·6 118·1 120·8	89·6 90·7 91·5 91·4 94·3 101·0 103·7 104·2

TABLE III.—Index Numbers of Employment in Canada and the Maritime Provinces, by Industries, 1921-1926

(January, 1920 = 100)

Note.—The relative weight columns show the proportion that the number of employees in the indicated industry is of the total number of employees reported in all industries by the firms making returns in the Maritime Provinces and Canada, respectively, on Sept. 1, 1926. The October, 1926, returns are not yet available.

				19	21			
Industries	Janus	ry l	Apr	il 1	Jul	y 1	Octo	ber 1
	Maritime Provinces	Canada	Maritime Provinces	Canada	Maritime Provinces	Canada	Maritime Provinces	Canada
A11	86-0	76-4	83 - 1	80.7	83 - 5	80-9	86-0	81-3
All manufacturing Lumber Products. Pulp and Paper. Textile Products. Iron and Steel Other Manufactures. Logging. Mining	67.0	78-4 67-0	51-3	74.3	93 - 0	99-3	111.8	91 · 9 86 · 7
Pulp and Paper	164-2	101 · 8 69 · 2	82·6 77·7	91·6 79·8	101-5	90·9 80·1	82-5 88-0	84-8
Textile Products	86-8 88-8	81-9	89-4	78 - 2	87-1 76-7	70 - 1	75-8	70.0
Other Manufactures	70-7	81 · 9 75 · 7	86-2	82 - 3	87-8	84.9	104 - 5	85·8 48·1
ogging	50·1 107·2	88-6 100-3	2·4 94·8	44 · 5 88 · 0	103.9	35·4 92·2	106-6	96-4
	102 - 1	105 (4	98-1	101.8	105-1	107 - 4	107-0	105-1
Construction	63.3	103 - 0	88-9 79-7	95-5 86-7	70·8 108·2	99-6 126-7	78·5 126·6	109-6 142-5
Construction and Maintenance	103-4	102 · 9 94 · 5	103.9	97-8	154 - 3	108.0	132.9	104-5
Services Prade	153 - 5	100 - 4	124-7	92.5	122 - 7	92-7	119-2	92.4
ALL INDUSTRIES	95.9	87.7	87-2	84 · 1	89.0	87-5	93 - 1	90 - 2
				19	922			
						1		0.0
All Manufacturing	66-1	68.7	70·3 60·8	78·0 76·2	89·2 147·2	84 -2 113 -3	87-0 125-4	86·7 108·3
Lumber ProductsPulp and Paper	51-6 101-5	62·7 85·9	107.6	90-1	120.8	97-3	112-3	96-9
Textile Products	87 - 9	80-1	74.8	90.3	98-5	88-0	96+8 65+8	88-7 92-1
Textile Products	55.7 70.8	49.6 78.3	55·7 79·5	64.9	62·1 95·8	65 · 6 87 · 9	91.4	90-2
Other Manufactures	9.0	59.5	10-2	81-3 27-2	4-2	31-4	0.5	42-1
Lining	92.0	93 - 0	98-0 90-8	88-9 98-2	99·0 88·2	94 - 4	104.5	101-1
Communication	97·5 88·6	101-1	91-8	96.8	82-6	109-2	78-5	114-0
Fransportation	86-6	92-4	72 - 0	81.4	159-2	157 - 4	164-0	166 - 2
Services Prade	82·8 127·3	92-9 96-9	91·2 114·5	94·6 88·6	132·0 113·5	104 · 4 90 · 7	113-2	91-9
ALL INDUSTRIES	78-1	77.9	80.6	80.8	92.6	91-1	91-8	94 - 6
				1	923	1		1
			1	1	1		1	1
All Manufacturing	84.0	78-1	82.3	85-6 88-3	99 · 6 150 · 9	93-6	90-8	91-8
Lumber Products Pulp and Paper Textile Products	77·4 109·4	80·1 95·4	75-8 114-6	97.4	119-0	104-9	116-1	104+
Textile Products	101.5	84-6	101-5	91-1	100.6	87-3	88·0 75·0	86-
Fron and Sylven	() () () m	64-7 81-7	77-4 76-8	77·2 86·5	80.8	85·0 93·0	86-2	92.
Other Manufactures	24.2	87-0	21-2	57 -8	46-3	48-4	13.6	51-
Logging	106-4	100-8	108.5	97.0	110-9	101-6	109-7 94-7	104-
CONTINUEDICATION	86-8 98-7	97.4	84 ·- L	98.0	88·3 73·2	112.2	71.3	116
Transportation	89-6	96-0	90 - 8	85-2	182 - 5	169·I	210.2	171-
Services		92 · 8 98 · 2	93·1 115·8	94.9	128·5 118·0	92-3	117-4	93-
Frade	90.8	86.3	90.5	87.6	101.0	99-5	97-0	99.
Table 1. A De Comment					00.4	1		
					924		1 00 0	1 00
All Manufacturing	74-5	80-1 74-8	75.3	86-5 83-8	89·2 140·7	87-7 111-9	80-6	85 · 107 ·
Pulp and Paper	108-1	98-4	110-8	98-8	120 - 2	99-9	102.0	101 -
Textile Products	94 - 3	80-9	97-4	86.9	84·1 66·6	76-0	95·7 50·4	85.
Pulp and Paper. Textile Products. Iron and Steel. Other manufactures.	68-3 75-7	72.6 82.8	69-4 75-1	82·0 87·5	93.3	90-6	88-0	92 -
Logging	8:3:3	92-1	21.7	54.2	22-6	43-1	27.4	53 -
Mining	95.5	100.5	98 - 5	99.5	103 · 5 93 · 0	99.9	95 · 8 93 · 5	111.
Communication	95-5	104 - 2 107 - 3	87·5 101·4	103 - 7	68-8	110.0	70-1	109 -
Construction and Maintenance	92-6	98-8	75-1	91-4	145.3	175-8	189-9	157 -
Services	89-2 119-0	106-6 99-4	93.6	107.9	137 · 0 107 · 4	122 - 5	112-6	93
Timoda	. 110.0	54.51.47	110.1	07.0	10. 1			
Trade		88-7	84-6	89-3	90-8	95-9	88-3	93-

TABLE III.—Index Numbers of Employment in Canada and the Maritime Provinces, by Industries, 1921-1926—Concluded.

				11	925					
Industries	Janus	ary 1	Apr	il 1	Jul	y 1	Octo	October 1		
	Maritime Provinces	Canada	Maritime Provinces	Canada	Maritime Provinces	Canada	Maritime Provinces	Canada		
All Manufacturing	59-6	75.5	72-1	84 - 3	85.3	89-1	82.7	91.3		
Lumber Products	59-7	70-4	65.5	83.3	138-7	116-2	130-8	113-4		
Pulp and Paper	96-8	95-6	108-8	98-0	122-1	102-1	113.0	102-8		
Textile Products	78-8	80-1	97-1	90-2	96.0	87.7	91.0	89-6		
Iron and Steel	41-9	60.0	59-3	74-6	53.2	72.9	56-3	74.5		
Other Manufactures	71-9	83.3	76-8	86-8	94 - 2	92.9	90-7	97-8		
Logging	48-8	83-4	21.1	47-5	14 - 1	38.2	24.7	49.5		
Mining	94.5	97 - 1	93.3	94-2	97.2	97.2	91.7	96 - 2		
Communication	88-9	108-9	86.8	107-6	89.7	112-6				
Transportation	98-6	99-0	107.2	98-5			88-2	114-2		
Construction and Maintenance	83.7	93-3	77.0		69-1	106-2	71-2	111-3		
Services	90.2	107-1		96-8	351.5	187-5	182 - 5	169-7		
Trade			89-7	107-7	116-2	122-9	107-3	120 - 5		
	116-9	96-3	112.9	93 - 6	111-6	93 · 8	113-I	96 - 7		
ALL INDUSTRIES	78-5	83 - 9	83-4	87-2	99-4	96+8	88-1	98-3		

					15	926					
Industries	Jun	uary	Ap	ril 1	Ju	July 1		September 1		Relative Weight	
	Mari- time Prov- inces	Canada	Mari- time Prov- inces	Canada	Mair- time Prov. inces	Canada	Mari- time Prov. inces	Canada	Maritime Provinces	Canada	
All Manufacturing	70-2	83 - 2	73 - 5	89.3	84-4	95-3	85-2	96-9	38-1	55.3	
Lumber Products	69-5	77-7	64.3	87.7	143 - 6	118-1	142.8	119.5	8-4	6-8	
Pulp and Paper	106 - 5	100-8	116-1	103-3	124-8	110-0	123-7	113.8	3-6	8-7	
Textile Products	88+4	87 - 7	97-7	94-0	91-4	92-2	95-2	92.5	5.0	8.3	
Iron and Steel	57-6	70.0	61-4	81-1	53-4	83 - 5	58-2	82-4	11-4	14.7	
Other Manufactures	74 - 9	88-8	76-8	91-1	94.0	96-6	87.8	100.8	9-7	36.5	
Logging	30.0	71-6	12-6	43-9	26.9	44.3	12.4	37.0	0.7	1.7	
Mining	94 • 0	96 - 5	79.0	88-4	96-5	95-4	99-4	97 - 2	21-8	5.1	
Communication	84 - 7	111-3	83 - 4	110-7	89.7	118-2	92-6	120-1	3.0	2.9	
Transportation	107-1	103-9	113.5	101-2	70.1	111-4	73.0	113 - 4	13.2	13.3	
Construction and Maintenance	97.4	103-3	127-0	113.7	205 - 8	216.8	278 - 9	217-6	17-1	13-0	
Services	90.0	107.8	92 - 1	112-8	126-4	126-0	146-4	132-2	0.9	1.9	
Trade	114-1	102-1	111-4	96-2	110-7	98-4	110-9	98-9	5.2	6.8	
ALL INDUSTRIES	84-4	89-6	84-7	91.4	91-1	103 - 7	96 - 7	104 - 9	100.0	100-0	

Part 2. Agriculture

General Review.—A general view of present-day agriculture in the Maritime Provinces is presented in the accompanying statement of production by items, with totals for the Maritimes and Canada, during the past two years (Table I). It will be seen that field crops and dairy production are the largest items, with fruits and vegetables third and animal husbandry fourth. Agricultural production in the Maritimes in these years represented 5.77 and 5.99 per cent respectively of the total similar production of Canada. A more detailed presentation, with the leading historical data in each case, is given in the rest of this section under the headings "Field Crops," "Live Stock," "Dairying," "Fruit Growing" and "Fur Farming", respectively.

TABLE I.—Agricultural Production.

(000's omitted)

	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces	Canada
1924	\$	8	\$	\$	\$
Field crops	11,990	10 200	40.000		
Farm animals	864	16,786	16,080	44,856	995, 236
WOOI	119	1,956	1,632 201	4,452	98,637
Dairy products	3,073	8,979	7,120	683 19.172	3,771
Fruits and vegetables	250	7.142	1,224	8,616	218,430 44,848
Foultry and eggs	1,029	1.051	1,119	3, 199	60,836
rur iarming	1,475	185	435	2.095	3, 218
Maple products	_	43	44	87	5, 991
Tobacco.	-	-		_	4,359
Flax fibre Clover and grass seed	-	7.	-		712
Honey	39	29	36	104	3,300
		-	22	22	4,339
Total	18,839	36,534	27,913	83, 286	1,443,677
1925					
Field crops	15, 417	10.005	25 004		
Farm animals	1,908	18,885 2,994	25.681	59,983	1, 153, 395
WOOL	127	385	2.682	7,584	151,424
Dairy products	3,406	10.049	7.934	21.389	3,958 253,269
Ffuits and vegetables	250	5,476	1.203	6,929	52, 667
Foultry and eggs	1,144	1,053	1.204	3,401	69, 675
Fur farming	1,600	200	500	2,300	3,600
Brapie products	-	54	30	84	5, 133
1.0193100	-	~	-	-	7,002
Flax fibre. Clover and grass seed.	17		_	-	750
Honey	17	24	33	74	3,594
			20	20	4,100
Total	23.869	39.120	39.506	102, 495	1,708,567

A. FIELD CROPS

Oats comprise the grain crop most extensively grown in the Maritime Provinces, quantities and values in 1925 by provinces being as follows: Prince Edward Island, 5,519,000 bushels valued at \$2,468,000; Nova Scotia, 3,878,000 bushels valued at \$2,911,000; New Brunswick, 6,814,000 bushels valued at \$4,088,000; total 16,211,000 bushels valued at \$9,467,000. Buckwheat is also an important crop in New Brunswick, 1,153,000 bushels valued at \$934,000 being produced in 1925.

The potato is the mostly highly specialized of the field crops, the annual value of the crop in 1925 being estimated at \$18,853,000. The cool moist climate extends the period of growth; hence the firmness, full starch content, good keeping quality and pleasant flavour of the product, whose excellence has gained a high reputation in the large consuming centres of Canada and the New England States, and also in the West Indies, where it finds a ready market. Maritime potatoes are also increasingly in demand for seed purposes in Ontario and parts of the United

States where they have been found to give superior yields. The average yield per acre in Nova Scotia and New Brunswick frequently runs to 120 cwt. (200 bushels) and higher, ranking second only to that of the State of Maine on the American Continent. In the chief producing sections of New Brunswick, the counties of Carleton and Victoria, crops of 155 to 210 cwt., or 275 to 350 bushels per acre, are commonly secured by the application of suitable culture. The production of potatoes, with values, in 1925 was: 3,859,000 cwt. (\$6,753,000) in Prince Edward Island; 2,570,000 cwt. (\$4,575,000) in Nova Scotia; and 4,232,000 cwt. (\$7,525,000) in New Brunswick; making a total of 10,661,000 cwt. (\$18,853,000) for the three Provinces.

The same climatic conditions which are so favourable to the production of roots and vegetables are equally favourable to the growth of clover and grasses. Consequently there is an abundance of pasturage, and a large production of hay, a considerable quantity of which is baled and exported. Quantities and values in 1925 were as follows: Prince Edward Island, 366,000 tons (\$3,755,000); Nova Scotia, 906,000 tons (\$8,365,000); New Brunswick, 954,000 tons (\$10,899,000); making 2,226,000 tons valued at \$23,019,000 in all.

A review of recent field crops in the Maritime Provinces is presented in Tables II, III and IV whilst the historical background is available in Table V. It will be noticed that the yield of oats, the principal grain crop in the Maritimes ever since Confederation, has increased almost steadily to about twice the amount produced in 1871. The production of other grains, however, has remained much the same since 1871, buckwheat, mixed grains and wheat following oats in order of importance. The yields of root crops have also been more or less stable till 1925, when some decrease is shown. The general tendency in the production of field crops seems to be towards stabilization, a decrease in one year being often followed by an increase in the next.

TABLE II.—Quantity and Value of Field Crops, 1925.
(000's omitted)

	Quantity						
Item	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada		
Wheat Bush Oats " Barley " Rye " Peas " Beans " Buckwheat " Mixed Grain " Potatoes Cwt. Turnips and Mangolds " Hay and Clover Tons Fodder Corn."	554 5,519 124 4 61 749 3,859 2,531 366 7	170 3,878 177 2 14 32 160 131 2,570 3,272 906 11	226 6,814 152 4 24 23 1,153 92 4,232 2,140 954 35	950 16,211 453 6 42 55 1,374 972 10,661 7,943 2,226 53	411, 376 513, 384 112, 668 13, 689 3, 411 1, 501 10, 449 34, 301 42, 380 36, 868 16, 141 5, 429		
Wheat	798 2,468 110 - 6 - 52 438 6,753 1,012 3,755 25	292 2,911 197 3 32 114 160 131 4,575 2,061 8,365 44	Value 415 4.088 114 5 66 64 934 83 7,525 1,348 10,899 140 25,681	1,505 9,467 421 8 104 178 1,146 652 18,853 4,421 23,019 209	459, 149 201, 051 57, 820 9, 722 5, 616 3, 877 8, 881 21, 901 83, 615 20, 964 164, 585 23, 260 (a) 1, 153, 395		

⁽a) Includes some items not enumerated.

TABLE III.—Quantity and Value of Field Crops, 1924. (000's omitted)

			Quantity		
Item	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
Wheat Bush Onts " Barley " Rye " Peas " Beans " Buckwheat " Mixed Grain " Potatoes Cwt. Turnips and Mangolds " Hay and Clover Tons Fodder Corn "	535 5,065 138 - 4 - 49 766 5,776 2,336 372 4	168 3,856 4 10 30 168 114 3,112 2,963 808 7	205 5,902 150 7 21 24 1,004 76 7,203 2,280 595 22	908 14,823 474 111 35 54 1,221 956 16,091 7,579 1,775 33	262, 097 405, 976 88, 807 13, 751 3, 240 1, 194 11, 412 31, 995 56, 648 40, 597 14, 960 5, 741
Wheat. \$ Oats. \$ Barley \$ Rye. \$ Peas. \$ Beans. \$ Buckwheat. \$ Mixed Grain \$ Potatoes. \$ Turnips and Mangolds \$ Hay and Clover \$ Fodder Corn \$	850 3,004 135 - 8 - 49 574 2,558 701 4,090 21	271 2,988 195 4 222 112 186 128 1,867 1,482 9,494	Value 364 3,751 150 11 46 85 771 57 3,025 7,140 110	1, 485 9, 743 480 15 76 197 1, 006 7, 450 2, 753 20, 724 168	320, 362 200, 688 61, 760 13, 679 5, 676 3, 307 10, 149 22, 626 47, 956 17, 884 165, 587 29, 380

(a) Includes some items not enumerated.

TABLE IV.—Average Quantity and Value of Field Crops, 1918-22.

(000's omitted)

			Quantity		HHHH
	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
Wheat Bush. Oats " Barley " Rye " Peas " Beans " Buckwheat " Mixed Grain " Potatoes Cwt Turnips and Mangolds " Hay and Clover Tons Fodder Corn "	589 5,725 147 6 - 90 629 3,175 2,553 332 4	470 4,847 295 11 24 87 315 178 5,106 4,883 979 20	570 8,443 196 7 46 71 1,476 126 7,662 3,508 954 31	1, 629 19, 015 638 18 76 6 158 1, 881 933 15, 943 10, 944 2, 265	269, 234 453, 776 65, 712 16, 769 3, 438 1, 722 9, 770 29, 183 67, 681 51, 848 14, 063 5, 523
			Value		
Wheat \$ Oats \$ Barley \$ Rye \$ Peas \$ Beans \$ Buckwheat \$ Mixed Grain \$ Potatoes \$ Turnips and Mangolds \$ Hay and Clover \$ Fodder Corn \$	1,078 3,691 168 - 15 - 109 587 3,051 1,282 6,443 29	1, 046 4, 549 441 18 83 521 414 221 7, 923 4, 833 21, 253 176	1, 247 6, 333 251 10 136 362 1, 934 138 10, 218 2, 778 18, 829 297	3,371 14,573 860 28 234 883 2,457 946 21,192 8,893 46,525 502	369,822 252,084 52,223 15,231 8,486 7,457 12,158 27,628 96,680 41,186 278,174 36,280
All Field Crops \$	16,453	41,478	42,533	100,464	(a) 1, 248,686

(a) Includes some items not enumerated.

TABLE V.—Production of Field Crops as shown by Census Returns 1871-1921
(000's omitted)

(000's omitted)								
	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada			
1871	269 3, 129 176 1 1 1 75 2 3, 376 395 3 68	228 2, 190 296 34 20 15 234 23 5,501 468 151 444	205 3,044 71 24 27 18 1,231 28 6,562 604 98 345	702 8,363 543 58 48 34 1,540 53 15,499 1,467 252 857	16,724 42,480 11,496 1,064 9,906 221 3,726 3,803 47,330 24,339 3,553 3,819			
Wheat bush Oats "	547 3,538 119 - - 3 90 3 6,042 1,198 43 144	529 1,873 229 48 37 340 14 7,378 1,007 326 598	3,298 84 18 43 1,587 18 6,961 990 159 414	1,598 8,709 432 66 83 2,017 35 20,381 3,195 528 1,156	32, 350 70, 493 16, 845 2, 097 13, 750 4, 901 9, 025 55, 268 39, 059 9, 192 5, 056			
1891	613 2,923 148 - 5 2 84 3 7,071 2,005 133	166 1,560 228 24 20 25 184 1,5,114 1,349 632	210 3,025 101 6 21 20 1,137 21 4,828 974 476	989 7,508 477 30 46 47 1,405 41 17,013 4,328 1,241	42, 145 82, 515 17, 148 1, 329 14, 718 797 4, 886 10, 676 52, 654 49, 556 7, 694			
1901	738 4.558 105 - 2 2 - 50 1 226 4,960 3,925 168	248 2,342 180 16 3 15 196 9 91 4,270 2,058 647	381 4.812 99 3 17 13 1,390 12 28 4,588 2,061 511	1, 367 11, 712 384 19 22 28 1, 636 22 345 13, 818 8, 044 1, 326	55,563 151,414 22,216 2,315 12,346 857 4,543 25,753 7,260 53,842 75,784 7,824			
Wheat. bush	5, 213 114 1 44 1 1 227 4, 203 2, 884	224 2,974 142 5 2 12 206 3 78 3,531 3,114 13 724 5	7 5 1,151 2 20 5,219 2,457 7 669 2	12,953 8,455 23 1,649 9	132,078 245,393 28,848 1,542 4,789 826 7,103 14,418 13,086 55,461 47,371 1,179 10,406 2,705 458			

TABLE V.—Production of Field Crops as shown by Census Returns 1871-1921—concluded (000's omitted)

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1921					
Wheat bush. Oats " Barley " Rye " Pens " Beans " Buckwheat " Corn " Mixed grain " Potatoes " Turnips " Other field roots tons Cultivated hay " Prairie lay " Corn for forage " Grains cut for hay " Other forage crops "	360 3,687 80 5 - 1 26 1 258 4,832 2,769 5 212	222 2,732 152 5 1 12 90 2 64 4,390 2,979 8 603 17 2	225 5,431 98 5 5 8 726 7 8 8,411 2,575 2 581 5	807 11,850 330 15 6 21 842 10 330 17,633 8,323 15 1,396 22 4 4	226, 500 364, 989 42, 95 6, 214 1, 85; 10, 822 20, 21; 62, 23; 40, 682 722 8, 836 2, 15; 3, 425 990

B. LIVE STOCK

The history of the live stock industry in the Maritime Provinces up to the present is shown in outline in Table VI. It will be seen that there has been little final change in the number of live stock on farms, although considerable fluctuations have taken place during the period 1871-1925.

TABLE VI.-Live Stock on Farms as shown by Census Returns 1871-1921.

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1871					
Horses Colts and fillies. Working oxen. Milch cows. Other horned cattle. Sheep. Swine. Poultry.	25, 329 62, 984 147, 364 52, 514	41, 925 7, 654 32, 214 122, 688 119, 065 398, 377 54, 162 Not	36, 322 8, 464 11, 132 83, 220 69, 335 234, 418 65, 805 available	119,694} - 457,292 780,159 172,481	643, 171 193, 572 139, 635 1, 251, 209 1, 233, 446 3, 155, 509 1, 366, 083
1881				100	
Horses Colts and fillies. Working oxen. Milch cows Other horned cattle Sheep. Swine. Poultry	25, 182 6, 153 84 45, 895 44, 743 166, 496 40, 181	46,044 11,123 33,275 137,639 154,689 377,801 47,256 No	43, 957 9, 018 8, 812 103, 965 99, 788 221, 163 53, 087 t available	115, 183 28, 294 42, 171 287, 499 299, 220 765, 460 140, 624	857,855 201,503 132,593 1,595,800 1,786,596 3,048,678 1,207,619
1891					
Horses. Colts and fillies. Working oxen. Milch cows. Other horned cattle. Sheep. Swine. Poultry.	25,674 11,718 116 45,849 45,730 147,372 42,629 534,962	52,210 12,837 28,424 141,684 154,664 331,492 48,048 792,184	46,115 13,658 7,510 106,649 90,533 182,941 50,945 662,433	123,999 38,213 36,050 294,182 290,927 661,805 141,622 1,989,579	1,068,584 401,988 123,563 1,857,112 2,139,911 2,563,781 1,733,850 14,105,102

TABLE VI.-Live Stock on Farms as shown by Census Returns 1871-1921-concluded

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1901	-				
Horses, 3 yrs. and over	26,555	48,489	48, 481	123,525	1,150,938
	6,803	6,685	7, 396	20,884	259,577
	55,694	127,945	105, 992	289,631	2,292,120
	56,118	173,757	114, 938	344,813	3,080,384
	125,175	278,549	180, 626	584,350	2,465,565
	47,624	42,015	50, 243	139,882	2,292,675
	581,790	798,145	714, 131	2,094,066	17,922,658
Horses, 3 yrs and over. " ander 3 yrs. Milch cows. Other horned cattle. Sheep. Swine. Poultry.	26, 238	52,132	54,413	132,783	1,991,841
	9, 697	9,288	10,996	29,981	607,117
	52, 109	129,274	108,557	289,940	2,595,255
	61, 334	158,218	113,671	333,223	3,930,828
	91, 232	221,074	158,316	470,622	2,474,300
	56, 377	63,380	87,393	207,150	3,634,778
	760, 939	954,251	982,654	2,697,844	31,793,261
Horses. Milch cows. Other cattle. Sheep. Swine. Poultry.	32.026	54, 439	62,448	148,913	3, 451, 752
	48,114	119, 733	106,486	274,333	3, 228, 633
	61,834	146, 630	123,826	332,290	5, 140, 856
	105,884	271, 742	187,524	565,150	3, 200, 467
	39,172	47, 457	75,905	162,534	3, 324, 291
	869,064	1, 196, 434	1,164,164	3,229,662	50, 325, 248
Horses. Mileh cows. Other cattle. Sheep. Swine. Poultry.	32,752	53,352	50,782	136,886	3,554,041
	56,295	137,273	111,225	304,793	3,830,175
	56,899	154,699	105,263	316,867	5,477,123
	87,219	273,499	151,349	512,067	2,755,556
	52,114	44,670	60,376	157,160	4,426,148
	941,490	860,225	951,063	2,752,778	48,133,969

The number of horses on farms was reported as 119,694 in 1871; the number increased to 142,477 in 1881 and to 162,212 in 1891. A decrease however is shown in the next ten year period to 144,409 in 1901, rising again to 162,764 in 1911. In 1921 a decrease is again recorded, the number having fallen to 148,913. The annual returns show this decrease has been maintained, the number reported for 1925 being 136,886.

The number of milch cows in Nova Scotia and New Brunswick in 1871 were 122,688 and 83,220 respectively. At this time milch cows in Prince Edward Island were not shown separately, but total cattle of all kinds in Prince Edward Island in the census of 1871 numbered 62,984. In the census of 1881 the number of milch cows in Prince Edward Island was 45,895, placing the total number of milch cows in 1871 in the three provinces at 253,000. The comparative figure for 1920 as shown in the census of 1921 was 274,333; in the meantime however the number of milch cows on farms increased, the number being 274,182 in 1891. The figures for 1901 and 1911 were 289,631 and 289,940 respectively. The estimated number for 1925 was 304,793. It must be remembered, however, that the dairying industry in the Maritime Provinces, particularly in Nova Scotia, has developed considerably during the last few years, e.g., the production of creamery butter in Nova Scotia has increased from 1,240,485 lbs., in 1915 to 4,521,814 pounds in 1925.

A considerable decrease has taken place in the number of sheep on farms. This has been common throughout the entire period from 1871 to 1911 and is shown by the following figures: 1871, number of sheep on farms 780,150; 1881, 765,460; 1891, 661,805; 1901, 584,350; 1911, 470,622; during the decade 1911 to 1921 the number of sheep on farms increased to 565,150, but fell off again to 512,067 in 1925.

Similarly in the case of swine, the number reported in 1871 was 172,481, as compared with 162,534 in 1921. During the decade from 1871 to 1881 a considerable reduction in the number of swine on farms apparently took place, the number for 1881 being reported at 140,524. The 1891 and 1901 figures show a maintenance of the 1881 position, the number of swine on farms being shown at 141,622 in 1891 and 139,882 in 1901. In the following decade, however, the number increased considerably, to 207,150, dropping back again to 162,534 in 1921. From an examination of the estimated number of animals on farms as shown by the June surveys it would appear that with the discontinuance of the export demand of bacon and other cured pork products overseas the number of swine on farms was not maintained. These figures show that the peak was apparently reached in 1919. The number of swine estimated on farms in the Maritime Provinces in 1925 was 157,160.

C. DAIRYING

Dairying has been carried on in the Maritime Provinces for many years. Natural conditions are decidedly favourable, inasmuch as soil and climate produce all kinds of fodder crops in large quantities. In the early years butter and cheese making was largely carried on on the farm. According to the census of 1851, 3,050,939 lb. of dairy butter were produced in New Brunswick and 3,613,890 lb. in Nova Scotia. Nova Scotia also made 652,069 lb. of homemade cheese. The production as shown in the census records for later years is given in the following table.

TABLE VII.—Production of Dairy Butter and Home-made Cheese in the Maritime Provinces as shown by Census Returns, 1861-1921.

DAIRY BUTTER-POUNDS

Census of	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces
1861 1871 1881 1881 1891 1901 1911 1921	711,487 981,939 1,688,690 1,969,213 1,398,112 2,309,691 2,087,739	4,532,711 7,161,867 7,465,285 9,011,118 9,060,742 10,978,911 8,746,067	4,591,477 5,115,947 6,527,176 7,798,268 7,842,533 9,053,394 8,387,606	9,835,675 13,259,753 15,731,151 18,778,599 18,301,387 22,341,996 19,221,412

HOME-MADE CHEESE-POUNDS

1861.	109,133	901,296	218,067	1, 228, 496
1871.	155,527	884,853	154,758	1, 195, 138
1881.	176,273	501,655	172,144	870, 072
1891.	123,708	589,363	39,716	752, 787
1901 1911 1921	9,422 986	Not give 199, 250 89, 777	3,567 9,521	212, 239 100, 28 4

It will be seen that the farm production of butter increased steadily up to the census of 1911 when a total of 22,341,996 lb. was produced. The census of 1921 however, shows a reduction of this total to 19,221,412 lb. The making of cheese on the farms in the meantime declined to very small proportions.

During the decade 1911 to 1921 the development of dairy factories in the Maritime Provinces was very marked. The production of creamery butter and factory cheese for the years 1915 and 1920 and later years is shown in the following statement, added to which is a table giving a more detailed view of this industry at the present time.

TABLE VIII.—Recent Dairy Factory Production.

CREAMERY BUTTER-POUNDS

	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces
1915.	539,516	1,240,483	776,416 1,053,649 1,152,168 1,224,930 1,231,471 1,225,615 1,279,417	2,556,415
1920.	1,166,032	2,503,188		4,722,869
1921.	1,109,546	3,094,768		5,356,482
1922.	1,262,006	3,329,426		5,816,362
1923.	1,537,437	3,550,666		6,319,574
1924.	1,560,250	4,139,469		6,925,334
1925.	1,724,283	4,530,028		7,533,728

FACTORY CHEESE—POUNDS

1915	2,081,277 52,638 1,235,008 1,681,779 29,440 1,100,382 1,752,233 31,820 926,052 1,811,537 34,332 825,369 2,048,937 34,475 942,220	2,811,601 2,710,105 2,671,238 3,025,632
1924. 1925.	0 004 040 040 4 400 770	

TABLE IX.—Principal Statistics of Dairy Factories in the Maritime Provinces, with comparative figures for all Canada.

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1924 Establishments	33 189,359	29 664,007	34 611,958	96 1,465,324	2,933 41,585,586
Employees No. Salaries and wages \$ Cost of materials \$	95 55,113 778,283	196 169,164 1,555,602	147 142,905 809,868	438 367,182 3,143,753	10,818 10,857,300 92,492,423
Quantity of products— Butterlb. Cheeselb. Value of products—	1,560,250 2,048,937	4,139,469 34,475	1,225,615 942,220	6,925,334 3,025,632 2,532,715	178,893,937 149,707,530 60,494,826
Butter. \$ Cheese \$ Other. \$	567,986 322,597 61,346	1,502,793 5,939 1,014,770	461,936 155,003 563,015	483,539 1,639,131	24,201,923 37,330,432
Total\$ 1925 Establishments	951,929	2,523,502	1,179,954	4,655,385	122,027,181
Capital. \$ Employees. No. Salaries and wages. \$	216, 197 98 62, 413	732,448 224 213,710	683,497 159 163,300 1,027,812	1,632,142 481 439,423 3,805,470	44,307,558 11,334 11,518,198 * 106,985,278
Cost of materials. \$ Quantity of products— Butter. lb. Cheese. lb.	917,056 1,724,283 2,001,242	1,860,602 4,530,028 34,856	1.279,417 1.130,773		* 183,524,314 * 177,139,113
Value of products— Butter \$ Cheese \$ Other \$	632,547 413,545 61,711	1,782,414 7,435 1,088,156	469, 153 230, 434 743, 026	2,884,114 651,414 1,892,893	* 63,658,167 * 36,671,556 * 37,617,576
Totals\$	1,107,803	2,878,005	1,442,613	5,428,421	* 137,847,299

^{*} Subject to revision.

D. FRUIT GROWING

Apple growing in Nova Scotia is a well known and stable industry. The Annapolis Valley and the Cornwallis Valley are considered the most suitable region, but other parts of the Province are also well adapted to this industry. The danger in certain districts lies in late spring frosts and in severe winters.

The French introduced the apple in 1633. From 300,000 barrels in 1880, the pack increased to 1,821,064 barrels valued at \$8,012,682 in 1923, but it has fallen off during the past two years. (see Table X). The principal market is in Great Britain, but considerable quantities are also shipped to the United States and Newfoundland.

TABLE X .- Survey of Apple Production in Maritime Provinces and Canada, 1870-1925.

Year	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1870 bbl. 1880 " 1890 " 1890 " 1900 " 1910 " 1921 bbl. 1922 bbl. 1923 bbl. 1924 bbl. \$ 1924 bbl. \$ 1925 (a) bbl. \$ \$	Not given 10,500 17,339 51,877 53,458 54,707 145,939 Not given	114,171 302,840 350,531 659,578 555,659 1,414,655 3,860,142 2,036,065 11,096,554 1,891,852 7,851,185 1,821,064 8,012,682 1,274,742 6,118,761 956,056 4,302,252	42,132 77,032 86,538 163,478 90,961 122,438 367,015 138,589 692,945 173,236 779,562 69,292 329,137 86,615 454,728 69,292 367,247	156,303 390,372 454,408 874,933 700,078 1,591,800 4,373,096 2,174,654 11,789,499 2,065,088 8,630,747 1,890,356 8,341,819 1,361,357 6,573,489 1,025,348 4,669,499	2,121,772 4,459,218 2,506,638 5,796,595 3,339,555 5,497,143 14,150,565 5,367,700 35,821,009 5,048,405 24,692,182 4,493,183 24,489,350 3,375,084 19,747,772 3,580,770 20,057,417

(a) Preliminary figures.

The values of apples (green or ripe) exported through the Port of Halifax during the fiscal years 1901-2 to 1925-6 inclusive were as follows:

Fiscal year Ended June 30 1901-2	187,886
1905–6	882.058
Ended March 31	
1906-7 (nine months)	747,288
1907-8	804 583
1908-9	1.190,431
1909-10	1,359.454
1910-11	871,112
1911-12	3,408,929
1912–13 1913–14	., 2,350,843
	2,020,152
1914–15	1,472,612
	1,084,189
1916–17	1,374,760
1917–18. 1918–19.	
1919–20.	1,125,679
1920-21	2,435,532
1921–22	
1922-23	4,988,433
1923-24	4,652,195 5,455,020
1924–25	4,625,084
1925–26	3,328,559
	0,020,000

Small fruits are also grown in the Maritime Provinces, quantities and values for 1925 being as follows:—

TABLE	XIP	roduction	of Small	Fruits,	1925.
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	Nova Scotia	New Brunswick	Maritime Provinces	Canada
Strawberries— Quantity qts. Value \$	195,000	590,000	785,000	8,070,000
	31,200	100,300	131,500	1,458,950
Raspherries— qts. Value. \$	30.000	17,000	47,000	1,947,000
	4,800	2,890	7,690	401,690
Other berries— Quantity	100,000	20,000	120,000	2,470,000
	15,000	3,200	18,200	524,700

E. FUR FARMING

The fur farming industry in Canada owes its establishment to experiments in the raising of foxes in captivity carried on by Prince Edward Island farmers. Since the early days of the fur trade it had been the custom in Canada for trappers to keep foxes caught in warm weather alive until the fur was prime, and this practice led to offorts being directed towards the domestication of the fox.

The first authentic record of the raising of foxes in captivity comes from Prince Edward Island where about fifty years ago a number of litters of foxes were raised on a farm near Tignish. The beauty of the fur of the silver fox and the consequent high prices realized from the sale of the pelts, caused attention to be directed chiefly to this breed, a colour phase of the common red fox, which has been established by experiments in breeding carried on by pioneer fox farmers. In 1890 began a period of rising prices for furs, and the fox farming industry grew rapidly in Prince Edward Island. Experiments were also being carried on in Nova Scotia, and by 1910 the industry had become firmly established in the Maritime Provinces. In 1913 an enumeration by the Commissioner of Agriculture of Prince Edward Island showed 277 fox farms in that province with a total of 3,130 foxes. In 1919 the Dominion Bureau of Statistics commenced the collection of annual returns of fur farms, and in 1920 the number of fox farms in the Maritime Provinces is shown to have been 418 with a total of 12,434 foxes of which 11,666 were silver foxes. The latest figures available, viz: those for the year 1924, show a total of 716 fox farms in the Maritime Provinces with a total of 20,855 foxes, 20,102 of these being silver foxes.

Although the chief branch of the fur-farming industry in Canada is fox farming, other kinds of wild fur-bearing animals are now being raised in captivity—mink, raceoon, skunk, martin, fisher, beaver and muskrat. In the Maritime Provinces in 1924 there were 5 mink farms and 1 raceoon farm, all of these being situated in Nova Scotia. There were also 4 muskrat farms, but statistics of these are omitted as the operators of such farms are in most cases unable to furnish exact particulars.

The total number of all fur bearing animals on Maritime farms at date of December 31, 1924, was 20,967 valued at \$4,438,256. The foxes on these farms numbered 20,855 valued at \$4,435,881; mink, 97, valued at \$1,775; and raccoon 15, valued at \$600. The distribution of foxes on farms, by provinces, was as follows: Prince Edward Island, 13,973 valued at \$3,148,975; Nova Scotia, 2,609, valued at \$477,085; and New Brunswick, 4,273, valued at \$809,821. Of the mink, 17 animals valued at \$425 were located on fur farms in Prince Edward Island and 80 valued at \$1,350 on fur farms in Nova Scotia. All of the raccoon were located on farms in Nova Scotia. The following table (Table XII) shows the principal statistics of fur farms for 1920, 1923 and 1924.

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TABLE XII.-Statistics of Fur Farms, 1920-1924.

		Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
Number of farms	1920	309	55	57	421	587
	1923	448	133	89	670	1,227
	1924	458	158	106	722	1,551
Value of land and buildings \$	1920	640,489	67.875	101,354	809,718	1,202,591
	1923	791,636	97,713	186,580	1,075,929	2,072,226
	1924	809,593	143,065	192,542	1,145,200	2,576,923
Employees	1920	203	20	36	259	327
	1923	257	30	57	344	500
	1924	247	47	66	360	606
Salaries and wages\$	1920	131,650	12,728	29,145	173,523	223,519
	1923	164,051	16,783	45,645	226,479	331,923
	1924	164,074	26,650	52,115	242,839	408,643
Animals born during yearNo.	1920	6,960	698	1,131	8,789	11,100
	1923	10,309	1,763	3,287	15,359	22,079
	1924	10,888	1,947	3,995	16,830	28,713
Animals died during year, No.	1920	1,061	104	78	1,243	1,818
	1923	1,684	490	354	2,528	5,257
	1924	1,472	444	510	2,426	4,768
Animals killed for pelts dur- ing yearNo.	1920 1923 1924	2,977 4,752 3,660	334 823 548	284 1,915 766	3,599 7,490 4,974	4,322 9,621 8,304
Animals sold during yearNo.	1920	1,523	134	336	1,993	2,347
	1923	4,059	351	432	4,842	7,030
	1924	5,748	801	2,349	8,898	13,041
Value\$	1920	464,218	28,381	108,315	600,914	763,221
	1923	726,401	54,342	62,400	843,143	1,314,493
	1924	1,151,614	141,015	350,295	1,642,924	2,553,430
Pelts sold during yearNo.	1920	1,714	194	173	2,081	2,470
	1923	4,599	841	1,914	7,354	9,212
	1924	3,112	535	843	4,490	7,339
Value\$	1920	302,412	21,381	18,897	342,690	388,335
	1923	469,161	69,156	186,039	724,356	859,872
	1924	323,320	45,359	84,337	453,016	664,620
Animals on farms December 31	1920	9,759	971	1,771	12,501	16,529
	1923	13,384	2,198	3,497	19,079	29,282
	1924	13,990	2,704	4,273	20,967	37,102
Value\$	1920	3,089,970	209,150	532,250	3,831,370	4,722,905
	1923	2,689,372	377,973	714,985	3,782,330	6,308,232
	1924	3,149,400	479,035	809,821	4,438,256	8,389,387

The Fur Trade.—The value of the total raw fur production of Canada amounts to many millions of dollars annually, and only a small proportion of this is contributed by fur farms. The value of raw fur production for the season 1924-25 was \$15,441,564. This amount represents the market value of pelts of fur bearing animals taken in Canada during the season, comprising pelts of animals taken by trappers and pelts of ranch bred animals, the value of the latter constituting approximately 4 per cent of the total. In the Maritime Provinces, however, the larger proportion of pelts is supplied by the fur farms. In the season 1924-25 the value of raw fur production of the Maritime Provinces was \$844,513, over half of which was comprised in the value of pelts of ranch bred animals. The value of raw fur production in the Maritime Provinces and in the whole of Canada for the seasons 1920-21, 1923-24, and 1924-25 is given in the following table:

TABLE XIII.—Value of Raw Fur Production, 1920-25.

Season	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1920-21	256, 137	\$ 112,948 266,935 271,753	72,500	441,585	10,151,594
1923-24	471, 772		248,547	987,254	15,643,817
1924-25	326, 669		246,091	844,513	15,441,564

Part 3. Fisheries

Introductory.—One of the greatest fishing areas of the world is situated off the coast of Eastern Canada. From Grand Manan to Labrador, the coast line commanding these fisheries, not including the lesser bays and indentations, measures over 5,000 miles. The Bay of Fundy is 8,000 square miles in extent, and the total fishing grounds 200,000 square miles.

Still more important than the extent of the fishing grounds of the Maritime Provinces is the quality of their product. It is an axiom among authorities that food fishes improve in proportion to the purity and coldness of the waters in which they are taken. Judged by this standard, the Canadian cod, haddock, halibut, herring, mackerel, salmon, lobster and oyster are the peer of any in the world.

The Atlantic fisheries were the first Canadian fisheries to be developed in point of time, and until 1918 they remained the most important for aggregate value of product.

The inshore or coastal fishery is carried on in small boats, usually motor driven, with crews of two or three men, and in a class of small vessels with crews of four to seven men. The means of capture employed by boat fishermen are gill nets and hooks and lines, both hand lines and trawls; whilst trap nets, haul seines and weirs are operated from the shore. Haddock as well as cod is a staple product; during the spring and summer they are split and salted, but the important season comes with the autumn, when the fish are either shipped fresh or smoked and sold as finnan haddie.

The deep-sea fisheries are worked by vessels of from 40 to 100 tons, carrying from twelve to twenty men operating with trawl lines from dories. The fleets operate on the various fishing banks, such as Grand Bank, Middle Ground and Banquereau. The vessels, built by native hands, remain at sea sometimes for months at a time. When they return, the fish, which have been split and salted on board, are taken on shore, washed and dried. The West Indies are the chief market for this product; no cod fish in the world stands the tropical climate like that cured by Nova Scotian fishermen. Steam trawling, as it is carried on in the North Sca, was introduced on the Atlantic Coast of Canada several years ago. There were ten steam trawlers operating from Nova Scotia ports in 1925. They operate practically the year round and their catches are utilized entirely for the fresh fish trade.

Lobster trapping is another distinctive industry. In 1870, there were three lobster canneries on the Atlantic coast of Canada; in 1925 the canneries numbered 478 and gave work to nearly 7,000 people; 30,000,000 lobsters is a normal catch. Oysters, once plentiful everywhere, are now found in somewhat diminished quantities. The canning of sardines, which are young herrings and not a distinct type of fish, in New Brunswick is second only to lobstering.

The fishing population of the Maritime Provinces is a specialized and stable industrial class. The coastwise fisheries are operated from April to November, or to January in sheltered districts; and though the larger vessels work all winter, several thousand men are available for a time each year for other employment. This they find about the small plots of land which most of them own or occupy, in the lumber camps of New Brunswick, or in the collicries of Nova Scotia. A few from Lunenburg and other centres engage in the West Indian Trade. Apart from restrictions of weather and close seasons, the prevailing method of paying the men on shares has a further tendency in years of low catches or prices to drive them into secondary occupations.

Historical.—An historical review of the total values of the fisheries of the Maritime Provinces from 1870 to 1925 is presented in Table I (production) and Table II (capital) herewith.* Taking the three Maritime Provinces as a unit, the total value reported for 1873, the first year for which complete figures for all three provinces are available, was \$9,070,342, out of a grand total for Canada of \$10,754,997. In 1870, the total value of fisheries in Nova Scotia amounted to \$4,019,425, New Brunwsick \$1,131,433, a total of \$5,150,858 for these two provinces out of a grand total for all Canada of \$6,577,391. At this time, the sea fisheries of the Maritime Provinces, the sea and inland fisheries of Quebec, and the inland fisheries of Ontario, were the only items included in making up the total of fisheries for Canada. In 1880 out of a total of \$14,499,979, the total value of fisheries in the Maritimes, while larger absolutely, amounted to a smaller proportion than in 1870, British Columbia fisheries being included in the total, and the Quebec fisheries having increased. In 1890, the total for the Maritimes amounted to \$10,376,608 out of a grand total of \$17,714,900 for all Canada, the value of British Columbia fisheries having increased by this time to \$3,481,432. In 1900, the value of the Maritime fisheries was \$12,638,087, out of a grand total for all Canada of \$21,557,639; in 1910, \$15,407,095 out of a total of \$29,965,433; in 1920, \$18,875,127 out of \$49,241,339; and in 1925, \$16,610,487 out of \$47,942,131. In the meantime the value of British Columbia fisheries had increased to \$4,878,829 in 1900; \$9,163,235 in 1910; \$22,329,161 in 1920; and \$22,414,618 in 1925.

In addition to changes in the volume of the catch a further element enters into the figures of value quoted above, namely changes in price. The index number of wholesale prices of fish computed by the Bureau as a criterion of these changes, (average prices in 1913 being used as a base or equal to 100), was in 1890, 65·4; in 1920, 173·5; and in 1925, 152·7. In Table III the gross values above referred to have been corrected on the basis of this index number, and revised valuations for the total fisheries in the Maritime Provinces and for all Canada constructed. An examination of this table shows that whereas in 1890 Maritime fisheries aggregated \$15,866,373 out of a total of \$27,087,003, in 1925 the proportion was only \$10,877,857 out of a total of \$31,396,287. After reaching \$20,800,369 in 1897, a decline set in and the figures dropped to \$17.975,996 in 1899. They remained at about this level until 1905, the revised valuation for that year being \$19,269,258, since when they have fallen off considerably. It should be added that the revised valuations for all Canada show somewhat similar tendencies, the highest total being recorded in 1905. In 1921 low points in both cases were reached, namely, \$10,115,164 in the Maritime Provinces and \$24,548,092 in all Canada.

TABLE I.—Total Value of Fish in the Maritime Provinces, with Comparative figures for all Canada, 1870-1925.

Year	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces	Canada
1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1883 1884 1885 1886 1887 1888	Not Known " 207, 595 288, 863 298, 927 494, 967 763, 036 840, 344 1, 402, 301 1, 675, 089 1, 955, 290 1, 855, 687 1, 272, 468 1, 085, 619 1, 293, 430 1, 141, 991 1, 037, 426 876, 862	\$ 4,019,425 5,101,030 6,016,835 6,577,085 6,652,302 5,573,851 6,029,050 5,527,858 6,131,600 5,752,937 6,291,061 6,214,782 7,131,418 7,689,374 8,763,779 8,283,922 8,415,362 8,379,782 7,817,030	\$ 1,131,433 1,185,033 1,965,459 2,285,662 2,685,794 2,427,654 1,953,389 2,133,237 2,305,790 2,554,722 2,744,447 2,930,904 3,192,339 3,185,674 3,730,454 4,005,431 4,180,227 3,559,507 2,941,863	\$ 5,150,858 6,286,063 7,982,294 9,070,342 9,626,959 8,300,432 8,477,406 8,424,131 9,277,734 9,709,960 10,710,597 11,100,976 12,179,444 12,147,516 13,579,852 13,582,783 13,737,580 12,976,715 11,635,755	\$ 6,577,391 7,573,199 9,570,116 10,754,997 11,681,886 10,350,385 11,117,000 12,005,934 13,215,678 13,529,254 14,499,979 15,817,162 16,958,192 17,766,404 17,722,973 18,679,288 18,386,103 17,418,508

^{*}From the last annual report on the Fisheries Statistics of Canada by the Dominion Bureau of Statistics.

TABLE I.—Total Value of Fish in the Maritime Provinces, with Comparative figures for all Canada, 1870-1925—concluded

Year	Prince Edward Island	Nova Scotia	New Brunswick	Total Muritime Provinces	Canada
	8	S	\$	8	\$
1890	1,041,109	6,636,444	2,699,055	10,376,608	17,714,900
1891	1,238,733	7,011,300	3,571,050	11,821,083	18,977,874
1892	1,179,856	6,340,724	3,202,922	10.723,502	18,941,169
1893	1,133,368	6,407,279	3,746,121	11,286,768	20,686,659
1894	1,119,738	6,547,387	4,351,526	12,018,651	20,719,570
1895	976.836	6,213,131	4,403,158	11,593,125	20, 199, 338
1896	976, 126	6,070,895	4, 799, 433	11,846,454	20, 407, 42
1897	954,949	8,090,346	3,934,135	12,979,430	22,783,54
1898	1.070,202	7,226,034	3,849,357	12, 145, 593	19,667,12
1899	1,043,645	7,347,604	4,119,891	12,511,140	21,891,700
1900	1,059,193	7,809,152	3,769,742	12,638,087	21,557,639
1901	1,050,623	7,989,548	4, 193, 264	13, 233, 435	25, 737, 153
1902	887.024	7,351,753	3,912,514	12, 151, 291	21,959,43
1903	1.099,510	7,841,602	4, 186, 800	13, 127, 912	23, 101, 87
1904	1,077,546	7,287,099	4,671,084	13,035,729	23,516,43
1905,	998,922	8, 259, 085	4,847,090	14, 105, 097	29, 479, 56
1906	1,168,939	7,799,160	4,905,225	13,873,324	26,279,48
1907	1,492,695	7.632,330	5,300,564	14, 425, 589	25,499,34
1908	1,378,624	8,009,838	4,754,298	14, 142, 760	25,451,08
1909	1,197,557	8,081,111	4,676,315	13,954,983	29,629,16
1910	1,153,708	10,119,243	4,134,144	15,407,095	29,965,43
911	1,196,396	9,367,550	4,886.157	15, 450, 103	34,667,87
912	1,379,905	7,384,055	4,264.054	13,028,014	33,389.40
913	1,280,447	8,297,626	4,308,707	13,886,780	33,207,74
914	1,261,666	7.730,191	4,940,083	13,931,940	31,264,63
915	933,682	9, 166, 851	4,737,145	14,837,678	35,860,70
916	1,344,179	10,092,902	5,656,859	17,093,940	39,208,37
917	1,786,310	14,468,319	6,143,088	22,397,717	52,312.04
918	1,148,201	15,143,066	6,298,990	22,590,257	60, 259, 74
1919	1,536,844	15, 171, 929	4,979,574	21,688,347	56,508,47
1920	1,708,723	12,742,659	4,423,745	18,875,127	49,241,33
1921	924,529	9,778,623	3,690,726	14,393,878	34,931,93
1922	1,612,599	10,209,258	4,885,660	16,507,517	41,800.21
1923	1,754,980	8,448,385	4,548,535	14,751,900	42,565,54
1924	1,201,772	8,777,251	5,383,809	15,362,832	44,534,23
1925	1,598,119	10,213,779	4,798,589	16,610,487	47,942,13

TABLE II.—Value of the Capital Investment of the Fisheries of the Maritime Provinces and of Canada, 1880·1925.

Includes value of vessels, boats, nets, traps, piers and wharves, etc., also of fish canning and curing establishments, and working capital.

Year	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces	Total for Canada
	\$	\$	\$	8	\$
1880	74,305	2,895,259	552,110	3,521,674	3,936,582
1885		3,010,000	1,075,879	4,579,022	6,697,459
1890		3,243,310	1, 184, 745	4,776,375	7,372,641
1895		3,139,968	1,710,347	5,329,954	9,253,848
1900		3,278,623	2,361,087	6,081,830	10,990,125
1901		3,319,334	2,233,825	5,978,718	11,491,300
1902		3,485,489	1,943,654	5,824,791	11,305,959
1903		3,937,428	2,005,391	6,407,611	12,241,454
1904	111 000	4,016,661	2,113,377	6,574,906	12,356,942
1905		4,496,897	2,182,059	7,096,907	12,880,897
1906		4,529,301	2,171,083	7, 161, 078	14,555,565
1907	100 000	4,469,041	2,332,455	7,290,401	14,826,592
1908	AV 4 000 PO 9 4	5.062,148	2,365,563	7,975,425	15,508,274
1909	4-0 000	5,014,909	2,346,467	7,930,204	17, 357, 932
1910	ODE MED	5, 334, 083	2,576,795	8,512,631	19,019,870
1911	444 204	5,645,276	2,894,795	9,181,802	20, 932, 904
1912	101 000	6,531,590	3,508,899	10,891,559	24,388,459
1913	0.40 0.00	7,110,210	3,600,547	11,659,424	27,464,033

TABLE II.—Value of the Capital Investment of the Fisheries of the Maritime Provinces and of Canada, 1880-1925—concluded

Year	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces	Total for Canada
	S	S	S	\$	9
1914	1.030,464	7,568,821	3,765,020	12,364,305	24,733,162
1915	1,024,268	7,899,112	3,958,714	12,882,094	25, 855, 575
1916	1,178,148	8,661,643	4,487,601	14,327,392	28,728,962
1917	1,770,949	11,702,311	5,733,071	19,206,331	47, 143, 125
1918	1,529,184	13,084,412	6,960,327	21,573,923	60.221,863
1919	1,528,541	13,971,628	5,878,652	21,378,821	54,577,026
1920	1,309,179	13,347,270	4,931,856	19,588,305	50,405,478
1921	970,798	12,265,465	4,436,076	17,672,339	45,669,477
1922	1,161,325	12,860,960	4,614,008	18,636,293	47,764,988
1923	1,278,491	12, 188, 808	4,574,617	18,041,916	47,672,865
1924	1,211,858	10,990,472	5, 357, 891	17,560,221	43,857,350
1925	1,237,972	11,674,790	5,247,448	18, 160, 210	46,872,630

TABLE III.—Valuations of Fisheries in Maritime Provinces and all Canada corrected for price changes.

	Index	Total	
	Number	Maritime Provinces	Canada
		Frovinces	
		\$	\$
1890	65 - 4	15,866,373	27,087,003
1891	61 - 6	19, 189, 940	30,808,237
1892	57-3	18,714,663	33,056,141
1893	63 - 1	17,887,113	32,783,929
1894	61.0	19,702,707	33,966,508
1895	64.2	18,057,827	31,463,143
1896	64-9	18,253,396	31,444,413
1897	62-4	20,800,369	36,512,090
1898	63.0	19,278,719	31,217,652
1899	69.6	17,975,776	31, 453, 601
1900	67-3	18,778,733	32,032,153
1901	71.6	18,482,451	35, 945, 744
1902	69-7	17,433,703	31,505,643
1903	73 - 5	17,861,105	31, 431, 127
1904	75-6	17,243,028	31, 106, 401
1905	73.2	19,269,258	40, 272, 626
1906	76-5	18, 135, 064	34, 352, 268
1907	82.0	17,592,482	31,096,767
1908	76-3	18,535,727	33,356,599
1909	84.8	16, 456, 348	34,940,058
1910	89.3	17,253,186	33,555,916
1911	80.8	16,996,813	38, 138, 473
1912	98 - 5	13,226,410	33,897,933
1913	100.0	13,886,780	33, 207, 748
1914	98.8	14, 101, 154	31,644,363
1915	100.3	14,793,298	35,753,448
1916	107 - 1	15,960,728	36,609,130
1917	136-8	16,372,600	38, 239, 798
1918	172 - 5	13,095,801	34, 933, 185
1919	177 - 5	12,218,787	31,835,763
1920	173-5	10,879,036	28, 381, 175
1021	142-3	10, 115, 164	24,548,092
1922	142.7	11,567,987	29, 292, 369
1923	129 - 9	11,356,351	32,767,933
1924	143.7	10,690,906	30,991,117
1925	152.7	10,877,857	31,396,287

Taking the total value of all fisheries in 1890 as equal to 100, the comparative increases in the Maritime Provinces, and in all Canada since 1890 may be expressed as follows, the present importance and the relatively rapid growth of the British Columbia fisheries being reflected in the figures for Canada:—

Year	Maritime	Provinces	Canada		
Lear	At current valuations	Corrected	At current valuations	Corrected	
1890	100 ·	100	100	100	
895	111-72	113-81	114.02	116-16	
900	121-79	118-36	121-69	118-26	
905	135-93	121-45	166-41	148-68	
910	148 - 48	108 - 74	169-15	123-88	
915	142.99	93 - 24	202-43	131.99	
920,	181-90	68 - 57	277 - 97	104-78	
924,	148 - 05	67-38	251.39	114 - 41	
925	160-07	68 - 56	270.01	115.91	

The Present Fishing Industry.—A more detailed review of current conditions in the industry is as follows.*

The total value of Canadian fisheries in 1925 was \$47,942,131. Of this amount the Maritime Provinces contributed \$16,610,487, Nova Scotia holding second place with \$10,213,779 or 21.30 p.c.; New Brunswick third place with \$4,798,589 or 10.00 p.c. and Prince Edward Island sixth place with \$1,598,119 or 3.33 p.c.

Lobster trapping was the principal branch of the industry in the Maritime Provinces as a whole with products valued at \$5,173,397 distributed by Provinces as follows:—

Prince Edward	Island	 	 \$1,088,712
Nova Scotia		 	 3,014,963
New Brunswic	k	 	 1,069,722

Cod occupied first place in Nova Scotia with a value of \$3,760,833, with lobster second. Sardines ranked second in New Brunswick with a value of \$1,016,325, while lobsters ranked first.

The principal varieties and values of fish for the Maritime Provinces with comparative figures for all Canada for 1924 and 1925 are given in the following table:—

TABLE IV.—The fish catch, 1924 and 1925.

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
	S	8	9	S	\$
Lobsters19	777, 301	1.904.407	1.203.564	3,885,272	4, 169, 171
10	151 1 DVX 719	3,014,963	1,069,722	5, 173, 397	5,552,977
Cod19	81.885	3,309,209	643,321	4,034,415	5,443,814
19	251 150, 135	3,760,833	512,013	4,422,981	6, 232, 821
Haddock19	554	975,660	37.039	1,013,253	1,013,253
19		1,134,327	32,546	1,168,525	1,171,555
Sardines19		-	1,241,508	1,241.508	1,244,514
19	25	350	1,016,325	1,016,675	1,017,206
Smelts	133,747	131,523	844.730	1,110,000	1,154,641
Herring		130, 182 542, 658	718,149 367,037	990,827 968,359	1,035,504
nerring		434, 130	385,354	903, 339	3,147,123
Salmon	1,550	181,966	425,800	609, 316	13,784,920
19	1.800	157, 124	428,558	587,482	15,760,630
Mackerel	37,448	688.350	49, 166	774,964	1.021.242
19	25 23.246	445, 185	63,968	532,399	663,628
Hake and cusk	24 27,081	203, 352	85,360	315,793	316,508
19	25 22,981	183, 465	87, 146	293, 592	295,720
Halibut19		441,113	1,561	442,674	5,878,870
19	25 210	282, 118	1,829	284, 157	4, 185, 391
Oysters	63,840	16,477	103,040	183,357	212,408
19	251 52.780	20,773	88,693	162, 246	185, 353
Polloek19		90,768	16,923	107,691	107,691
71		89,393	38,022	127,415	127,415
Clams and quahaugs	24 4,973	11,709	137,099	153,781	320,241
Alewives	25 9,758 600	13,361 18,958	88,426	111,545 60,057	290,063 60,132
Alewives19	24 000		40,499		104, 834
Swordfish	20 220	39,014 96,157	65, 295	104, 534 96, 157	96, 157
Swordhan	25	78, 209		78, 209	78, 209
19	9.51	10,209	_	10,200	10, 200

^{*}For full details of the catch and marketing of Canadian fish products by provinces and fishing districts see the annual report on Fisheries of the Dominion Bureau of Statistics, prepared in collaboration with Dominion and Provincial Fisheries Departments.

The domestic consumption of fish is relatively small in Canada, and the trade depends largely upon foreign markets. Perhaps sixty per cent of the total annual capture for all Canada is an average export, of which the United States takes approximately one-half and Great Britain one-sixth. In the fiscal year 1926, total exports amounted to \$37,487,517, of which \$14,115,596 went to the United States and \$7,264,516 to Great Britain. The most important single export was canned salmon (to Great Britain and European markets)., the value of these exports in 1926 amounting to \$10,467,680. Other important items and principal countries to which exported were—cod, dry salted (to the West Indies, South America, Italy and United States), \$5,246,462; lobsters, canned (to the United Kingdom and the United States), \$4,037,259; lobsters, fresh (to the United States), \$1,255,876; herring, sea, dry-salted (to China and Japan), \$2,405,279.

The preserving of fish is the premier manufacturing industry in Prince Edward Island and ranks second in Nova Scotia and fifth in New Brunswick. Statistics follow (Table V):

TABLE V.—The Fish preserving Industry, 1925.

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
Establishments No. Capital \$ Employees No. Salaries and wages \$ Cost of materials \$ Value of products \$	156	249	194	599	846
	262,680	3,794,654	1,556,624	5,613,958	21,139,985
	1,732	3,604	2,401	7,737	16,272
	126,409	1,006,287	346,935	1,479,631	4,971,167
	737,899	4,237,119	1,535,269	6,510,287	18,680,686
	1,101,820	6,257,683	2,468,055	9,827,558	30,380,992

Prices in Canada and the United States.—In view of the discussion as to markets, the following tables of current comparative prices in Canada and the United States are appended:

AVERAGE PRICES PAID TO FISHERMEN FOR FRESH OR GREEN FISH IN THE YEAR 1925 IN NOVA SCOTIA, NEW BRUNSWICK, PRINCE EDWARD ISLAND, BOSTON, GLOUCESTER AND PORTLAND.

Сор	cts.	
Boston, average		per lb.
Ciloucester		- 66
Portland		44
N. C. C.		44
Nova Scotia		66
New Brunswick. Prince Edward Island.		46
ALL		44
A.L.	. 4.1	
HADDOCK	ets.	
Boston		46
Gloucester		66
Portland,.		44
Ald		64
Nova Scotia		
New Brunswick		66
Prince Edward Island		66
ALL	. 1.9	
HATTOTA	nta	
Halibut	ets.	44
Boston	. 18-9	46
BostonGloucester	. 18·9 . 10·5	
Boston. Gloucester Portland	. 18·9 . 10·5 . 17·7	44
BostonGloucesterPortlandAll.	. 18·9 . 10·5 . 17·7 . 18·4	44
Boston Gloucester Portland All. Nova Scotia.	. 18·9 . 10·5 . 17·7 . 18·4 . 10·7	44 44 46
Boston. Gloucester Portland ALL Nova Scotia. New Brunswick.	. 18·9 . 10·5 . 17·7 . 18·4 . 10·7 . 13·7	66 66 66
Boston Gloucester Portland ALL Nova Scotia New Brunswick Prince Edward Island	. 18·9 . 10·5 . 17·7 . 18·4 . 10·7 . 13·7 . 12·0	66 66 64
Boston. Gloucester Portland ALL Nova Scotia. New Brunswick.	. 18·9 . 10·5 . 17·7 . 18·4 . 10·7 . 13·7 . 12·0	66 66 66 66
Boston. Gloucester Portland ALL Nova Scotia New Brunswick Prince Edward Island ALL	. 18·9 . 10·5 . 17·7 . 18·4 . 10·7 . 13·7 . 12·0	66 66 66 66
Boston Gloucester Portland ALL Nova Scotia New Brunswick Prince Edward Island	. 18·9 . 10·5 . 17·7 . 18·4 . 10·7 . 13·7 . 12·0 . 10·7	66 66 66 66
Boston Gloucester Portland ALL Nova Scotia New Brunswick Prince Edward Island ALL MACKEREL	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 13.7 . 12.0 . 10.7	66 66 64 64 64 64
Boston. Gloucester Portland ALL Novs Scotia. New Brunswick. Prince Edward Island ALL Boston. MACKEREL	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 13.7 . 12.0 . 10.7 cts. . 4.6 . 3.3	66 64 64 66 66 66 66 66 66 66 66 66
Boston. Gloucester Portland ALL Nova Scotia. New Brunswick Prince Edward Island ALL Boston. Gloucester	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 13.7 . 12.0 . 10.7 . ets. . 4.6 . 3.3 . 3.4	44 44 44 44 44 44
Boston. Gloucester Portland ALL Nova Scotia New Brunswick Prince Edward Island ALL Boston. Gloucester Portland	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 13.7 . 12.0 . 10.7 . ets. . 4.6 . 3.3 . 3.4 . 3.4	44 44 44 44 44 44 44 44 44
Boston. Gloucester Portland ALL Nova Scotia. New Brunswick Prince Edward Island ALL Boston. Gloucester Portland ALL	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 12.0 . 10.7 . ts. . 4.6 . 3.3 . 3.4 . 4.3 . 2.5 . 2.8	44 44 44 44 44 44 44 44 44 44 44 44
Boston. Gloucester Portland ALL Nova Scotia. New Brunswick Prince Edward Island ALL Boston. Gloucester Portland ALL Nova Scotia.	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 12.0 . 10.7 . ets. . 4.6 . 3.3 . 3.4 . 4.5 . 2.5 . 2.8	44 44 44 44 44 44 44 44 44 44 44 44 44
Boston. Gloucester Portland ALL Nova Scotia. New Brunswick Prince Edward Island ALL Boston. Gloucester Portland ALL Nova Scotia. New Brunswick.	. 18.9 . 10.5 . 17.7 . 18.4 . 10.7 . 13.7 . 12.0 . 10.7 ets. . 4.6 . 3.3 . 3.4 . 4.3 . 2.5 . 2.8	44 44 44 44 44 44 44 44 44 44 44 44

NEW YORK WHOLESALE DEALERS' PRICES FOR SALT FISH

DRIED, COD FISH	
January, 1926	\$11 00—12 50 ewt.
February	11 00-11 50 "
March	
May	4 00
June	
MACKEREL, AMERICAN 1925 SHORE	\$22 00—24 00 cwt.
January, 1926. February	
March	22 00-24 00 "
April	. 22 00-24 00 "
May	
June	. 20 00—22 00 "
MACKEREL, NOVA SCOTIAN 1925 SHORE	
January, 1926	. \$16 00-17 00 cwt.
February,	. 17 00—18 00 "
March	
April	
June	
out.	
HALIFAX PRICES	
Cod. Dry Salted	
January, 1926	
January, 1926. February	. 9 00 "
January, 1926. February March	. 9 00 . 8 00
January, 1926. February March April	. 9 00 " . 8 00 " . 6 00 "
January, 1926. February March	. 9 00 " . 8 00 " . 6 00 " . 6 00 "
January, 1926. February March April May June	. 9 00 " . 8 00 " . 6 00 " . 6 00 "
January, 1926. February March April. May June Spring Mackerel, Salted	- 9 00 " - 8 00 " - 6 00 " - 6 00 "
January, 1926. February March April. May June. SPRING MACKEREL, SALTED January, 1926.	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 5 00 "
January, 1926. February March April. May June Spring Mackerel, Salted	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 50 per barrel 9 50 #
January, 1926. February March April May June Spring Mackerel, Salted February.	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 9 50 per barrel 9 50 " 10 00 " 11 00 "
January, 1926 February March April May June Spring Mackerel, Salted January, 1926 February March April May May	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 0 00 " 8 9 50 per barrel 9 50 " 10 00 " 10 00 "
January, 1926. February March April. May June Spring Mackerel, Salted January, 1926. February March April	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 0 00 " 8 9 50 per barrel 9 50 " 10 00 " 10 00 "
January, 1926 February March April May June Spring Mackerel, Salted January, 1926 February March April May May	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 0 00 " 8 9 50 per barrel 9 50 " 10 00 " 10 00 "
January, 1926 February March April May June SPRING MACKEREL, SALTED January, 1926 February March April May June	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 50 per barrel 9 50 " 10 00 " 10 00 " 10 00 " 10 00 "
January, 1926. February March April May June Spring Mackerel, Salted January, 1926 February March April May June Fat Fall Mackerel, Salted January, 1926 February	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 0 00 " 8 9 50 per barrel 9 50 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 "
January, 1926 February March April January, 1926 February March April May June SPRING MACKEREL, SALTED January, 1926 February March April May June FAT FALL MACKEREL, SALTED January, 1926 February March April May June	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 0 00 " 8 9 50 per barrel 9 50 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 "
January, 1926 February March April May June Spring Mackerel, Salted January, 1926 February March April May June Fat Fall Mackerel, Salted January, 1926 February March April May June	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 7 6 00 " 8 9 50 per barrel 9 50 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 "
January, 1926 February March April January, 1926 February March April May June SPRING MACKEREL, SALTED January, 1926 February March April May June FAT FALL MACKEREL, SALTED January, 1926 February March April May June	9 00 " 8 00 " 6 00 " 6 00 " 6 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 " 10 00 "

Part 4. Forestry.

Introductory.—From the earliest times, lumbering has been the premier industry of New Brunswick, forest products holding first place in the province's exports. Although a large section of the province is admirably suited for agriculture, the settled districts are confined principally to the river valleys and the coast line, the interior forming a vast timber reserve. Of the seventeen and a half million acres in the province, about seven and a half million acres are Crown Lands and are mostly timbered. New Brunswick is everywhere drained by large rivers with numerous branches, so that logs can be driven by water from practically all points in the province to market.

In Nova Scotia fifty-four per cent of the land carried forest growth, according to a report by the Commission of Conservation in 1912. Including the brulés and barrens, which are of potential value for forest production, more than sixty per cent of the total land area of the province can be considered as primarily forest land.

The forest resources of Nova Scotia have recently been estimated to consist of 11,010,000 M. ft. b.m. of saw material and 36,236,000 cords of pulpwood, cordwood, poles, posts and ties, making a total equivalent to 6,210,685,000 cubic feet. A similar estimate places the saw material in New Brunswick at 20,300,000 M. ft. b.m. and the pulpwood, etc., at 49,192,000 cords or a total equivalent to 9,791,173,000 cubic feet.

Historical.—The development of the forest industries of New Brunswick may be divided into four periods. During the first, from the landing of De Monts at St. John in 1604 to the end of the French rule in 1765, the industry was confined to the cutting of masts and spars for the French navy, the first shipment being recorded in 1700. During the colonial period, under English rule from 1763 to 1837, the industry developed more rapidly. The cutting of white pine suitable for masts and spars was first restricted and later prohibited except for naval purposes. but these restrictions were removed toward the end of the period. The first cargo of spars was shipped to England in 1780 and the export trade which began with these shipments later developed with the shipment of square timber. The first saw mill, a tidal mill, was built at St. John in 1766 and the first steam saw mill was built in the same place in 1822. The production and exportation of white pine lumber and shingles and oak staves followed, and later the trade in spruce deals developed. The arrival of the Loyalists in 1783 caused an increase in the activity of the industry. Shipbuilding and settlement increased the local demand, and the building of steam sawmills and steam ships accelerated this development by increasing the facilities for manufacturing lumber and exporting it in home built ships. The maximum of the white pine export trade was reached in 1825, but during the same year the disastrous Miramichi fire caused a serious setback to the lumbering industry. In 1833 there were 233 saw mills in operation in the colony.

In 1837 the administration of New Brunswick was taken over, and the early provincial period began. During this period, from 1837 to 1850, there was a fairly steady development of the industry with increased shipbuilding and increased exportation of spruce deals. The exportation of hemlock tanbark began at this time. During the modern period, from 1850 to the present time, the industry has had its ups and downs. Railroad construction since the fifties has opened up many new sources of timber supply. The Civil War in the United States caused a boom and a subsequent depression similar to that from which the country is now emerging. The export trade with Great Britain in spruce deals reached considerable importance when the Crimean War caused the closing of the Baltic Ports. This trade improved during the nineties and reached its maximum in 1897. During the sixties and seventies many American companies built mills on the St. John River where they sawed logs floated down the river from timber limits in the State of Maine. This lumber was admitted to the United States duty free under an agreement which was later repealed by the United States Government.

In the province of Nova Scotia, which was first settled in 1605 with the colony at Port Royal, the lumber industry developed earlier than in New Brunswick, but the different stages in its development were largely similar. In 1761 there were 31 mills operating in the province. Trade with the United States was at one time of considerable importance and the shipbuilding industry stimulated exportation to the West Indies and Great Britain.

Prince Edward Island originally possessed forests of considerable value but these were soon removed by lumbermen, shipbuilders and forest fires, and also in the process of clearing land for agriculture. As the island is so largely agricultural in nature the forest industries have, during late years, been of local importance only.

The Lumber Industry.—In 1871 there were 1,144 sawmills in Nova Scotia capitalized at \$955,220 employing 2,858 men with a payroll of \$330,417 and products valued at \$1,397,137. The number of mills and the value of their output in the following decades were as follows: in 1881, mills in operation, 1,190—value of products, \$3,094,137; in 1891, mills, 1,172—products, \$4,083,980; in 1901, mills, 228—products, \$2,940,107; in 1911, mills, 472—products, \$7,927,873.

In New Brunswick in 1871 there were 565 sawnills operating with a total capital of \$2,843,108 employing 7,134 men with a payroll of \$1,400,562. Their products were valued at \$6,575,759. The number of mills and the value of their products for the next four decades were as follows: in 1881, mills in operation, 478—value of products, \$6,532,826; in 1891, mills, 496—products, \$6.673,701; in 1901, mills, 236—products, \$7,041,848; in 1911, mills 334—products, \$12,199,305. The principal statistics of the industry from 1920 to 1924 inclusive, for the Maritime Provinces and for Canada as a whole, are shown in Table I.

The present tendency toward a decline in the importance of the lumber industry in the Maritime Provinces is due to a large extent to the increased cost of manufacture brought about by the longer distance logs must be transported as more accessible supplies are exhausted. This condition of affairs is general throughout eastern Canada.

The quantity and value of lumber cut in the Maritime Provinces and in Canada during 1924, classified by kinds of wood, are shown in Table II, in connection with which may be read the following statement of lath and shingles cut in the Maritime Provinces and in Canada during 1924:

LATH	М	9
Prince Edward Island	677 45,799 391,099	3,265 $226,914$ $2,095,686$
Maritime provinces	437,575	2,325,865
Canada	1,165,819	5,975,253
SHINGLES	2.6	
Prince Edward Island	4,775 16,261 240,325	13, 166 47,590 779,270
Maritime provinces	261,361	840,026
Canada	3,129,501	10,406,293

The Pulp and Paper Industry.—The pulp and paper industry in the Maritime Provinces is a comparatively recent development. One small mill manufacturing paper from rags was reported in Nova Scotia in the census of 1861, and two such mills in 1871, one in Nova Scotia and one in New Bruaswick. The manufacture of wood pulp, which was developed during the seventies and eighties, resulted in the building of pulp mills in the Maritime Provinces, two of which were reported in Nova Scotia and one in New Brunswick in the census of 1891. These three mills were capitalised at \$298,395, employed 120 men with a payroll of \$45,270 and produced pulp and other products valued at \$108,760. During the following two decades the industry developed so that in 1901 there were four mills in each province with a total production of \$973,988, in 1911 there were six mills in each province with a production of \$311,311 for Nova Scotia and \$1,149,313 for New Brunswick. Table III shows the principal statistics of this industry in the Maritime Provinces and in Canada as a whole from 1920 to 1925. From the time of the closing down of the rag paper mills during the ninetics until 1923 no paper was made in this region, but in 1923 the Bathurst Company Limited began the production of news print paper.

Dominion and provincial legislation and regulations practically prohibit the exportation of unmanufactured pulpwood cut on Crown Lands in every province in Canada but Nova Scotia. During 1924 and 1925 the exports of raw pulpwood formed 28.6 and 28 per cent respectively of the total apparent production. Since 1902 exports of raw pulpwood have gone exclusively to the United States.

Canadian Trade in Lumber.—Figures showing the exportation of forest products through the ports of the Maritime Provinces are available, but on account of the extensive interprovincial movement of these products, specially in the case of pulpwood, are not a Maritime index.

The total value of the exports of forest products from Canada in 1924 amounted to \$112,-836,017. Sawn lumber formed 56-7 per cent of the total value or \$63,941,129, and pulpwood came second with 12 per cent or \$13,536,058. The quantity of sawn lumber exported amounted to 2,051,925 M. ft. b.m. while 1,330,250 cords of pulpwood were exported. Other principal items were:—shingles 2,645,305 M valued at \$9,441,760; lath 1,676,029 M valued at \$9,952,918; logs 343,559 M ft. b.m. valued at \$5,861,378; timber 127,773 M. ft. b.m. valued at \$3,317,225.

Exports to the United States were valued at \$91,249,482, exports to the United Kingdom at \$10,953,643 and exports to other countries at \$10,632,892. These manufactured and partly manufactured wood products formed 10-7 per cent of the total value of Canada's exports in 1924. The wood and paper group of exports which includes all commodities manufactured and unmanufactured, of forest origin, was valued at \$255,389,780 in 1924 and formed the most valuable group next to agricultural and vegetable products, making up 24-2 per cent of the total.

TABLE I.—Principal Statistics of the Lumber Industry in the Maritime Provinces and in Canada during the period, 1920 to 1924.

_		Number of establish- ments	Capital	Em- ployees	Salaries and wages	Cost of materials	Value of products
		No.	8	No.		8	\$
1924	Canada Maritime Provinces. Prince Edward Island. Nova Scotia. New Brunswick.	2,761 592 42 348 202	177,480,084 26,322,295 126,679 3,557,927 22,637,689	35,494 6,100 33 1,565 4,502	34,783,780 4,343,137 14,922 815,122 3,513,093	12,365,599	141,929,559 20,927,184 126,667 3,705,011 17,095,506
1923	Canada	2,883	155,638,050	35,070	33,490,501	73,325,718	139,894,677
	Maritime Provinces.	560	26,100,912	5,787	4,123,020	9,919,287	19,234,036
	Prince Edward Island	42	147,669	38	13,429	46,132	89,614
	Nova Scotia	331	2,666,589	1,363	661,710	1,418,598	2,755,748
	New Brunswick	187	23,286,654	4,386	3,447,881	8,454,557	16,388,674
1922	Canada	2,922	162,835,219	31,891	27,621,691	60,812,017	114,324,580
	Maritime Provinces.	557	30,942,266	5,578	3,600,487	8,450,238	15,760,868
	Prince Edward Island.	34	128,460	46	12,793	52,607	112,757
	Nova Scotia	320	3,457,450	1,284	696,061	1,702,428	3,446,180
	New Brunswick	203	27,356,356	4,248	2,891,633	6,695,203	12,201,931
1921	Canada	3,126	186,019,994	- 30,336	26,707,689	57,242,686	116,891,191
	Maritime Provinces.	640	43,607,803	4,569	3,085,375	7,448,949	14,778,881
	Prince Edward Island.	50	153,305	68	32,652	92,892	187,965
	Nova Scotia.	390	4,574,512	1,520	716,260	2,269,932	4,339,961
	New Brunswick	200	38,879,983	2,981	2,336,463	5,086,125	10,250,955
1920	Canada	3,481	199,651,576	41,158	44,728,675	103,077,980	168,171,987
	Maritime Provinces.	753	41,828,121	8,007	6,545,939	17,722,850	27,893,943
	Prince Edward Island	53	187,327	70	40,718	135,540	243,883
	Nova Scotia	476	8,203,251	2,577	1,656,128	5,136,093	9,275,934
	New Brunswick.	224	33,437,543	5,360	4,849,093	12,451,227	18,374,126

TABLE II.—Production of Lumber in the Maritime Provinces and in Canada, 1924.

Kinds of Wood	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
Quantities	M ft. b.m.	M ft. b.m.	M ft. b.m.	M ft. b.m.	M ft. b.m.
Total quantity (c)	4,138	120,760	466,929	591,827	3,878,942
Spruce. Balsam fir. White pine. Hemlock. Cedar.	2,710 823 228 91	81,842 2,269 12,103 15,934	396, 289 23, 400 26, 203 10, 436 555	$\begin{array}{r} 480,841 \\ 26,492 \\ 38,534 \\ 26,461 \\ 555 \end{array}$	1,260,673 70,466 614,532 291,665 115,185
Yellow birch. White birch. Jack pine (a) Tamarack. Maple.	154 19 10 - 43	3,861 568 305 - 2,277	3,805 1,557 905 10 522	7,820 2,144 1,220 10 2,842	64,313 12,096 101,077 52,068 52,017
Poplar (b) Red pine Basswood	30 -	115 107	275 1,432 65	393 1,569 65	10,473 124,289 24,080
Beech Elm	27	1,249	124 5	1,400	7,063 17,814
Ash Oak Butternut. Unspecified.	-	17 113 	12 - 10 1,324	29 113 10 1,324	5,752 2,783 212 2,609

⁽a) Total for Canada includes lodge pole pine.(b) Total for Canada includes cottonwood.(c) Includes some kinds of wood not enumerated.

TABLE II.—Production of Lumber in the Maritime Provinces and in Canada, 1924—concluded

Kinds of Wood	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada	
Values	\$	\$	s	\$	8	
Total value (c)	101,286	2,621,105	12,407,262	15,129,653	104.444,622	
Spruce. Balsam White pine. Hemlock Cedar	62.846 19,392 8.260 2,235	1,764,509 46,595 295,401 333,340	10, 459, 542 555, 503 845, 762 242, 159 14, 571	12, 286, 897 621, 490 1, 149, 423 577, 734 14, 571	32,451,904 1,591,866 21,307,256 6,255,404 4,673,247	
Yellow birch	5,012 575 400 - 1,311	84,329 12,662 7,625 44,661	140,997 51,276 16,747 250 12,835	230,338 64,513 24,772 250 58,807	2.365,886 449,457 2,330,673 1,141,415 2,016,089	
Poplar (b) Red pine Basswood Beech Elm	70 750 - 435	2,230 2,316 23,012	5,615 33,722 1,699 2,770 125	7,915 36,788 1,699 26,217 125	224,278 3,974,009 828,088 199,455 667,579	
AshOak. Butternut Unspecified	-	425 4,000 -	300 250 23, 139	725 4,000 250 23,139	200,356 132,347 7,848 48,610	

TABLE III.—Principal Statistics of the Pulp and Paper Industry in the Maritime Provinces and in Canada during the period, 1920 to 1925.

-		Number of establish- ments	Capital	Em- ployees	Salaries and wages	Cost of materials	Value of products
		No.	\$	No.	\$	8	
1925	Canada	11·i	460,397,772	28,031	38,560,905	76,514,990	193,092,937
	Maritime Provinces	13	23,235,916	1,818	1,935,218	4,396,214	8,639,483
	Nova Scotia	8	5,799,099	457	331,526	478,913	1,140,023
	New Brunswick	5	17,436,817	1,361	1,603,692	3,917,301	7,499,460
1924	Canada Mritime Provinces Nova Scotia New Brunswick	115 14 9 5	459,457,696 30,567,950 9,440,339 21,127,611	27,627 1,667 426 1,241	37,649,528 1,695,177 216,025 1,479,152		179,259,504 7,698,252 830,633 6,867,619
1923	Canada.	110	417,611,678	29,234	38,382,845	66,339,043	184,414,675
	Maritime Provinces.	12	23,831,908	1,756	1,717,052	3,674,751	7,638,592
	Nova Scotia.	7	6,611,071	479	235,734	301,013	838,358
	New Brunswick.	5	17,220,837	1,277	1,481,318	3,373,738	6,800,234
1922	Canada.	104	381,006,324	25,830	32,918,955	60,238,665	155,785,391
	Maritime Provinces.	13	22,978,186	1,739	1,555,850	3,594,852	7,372,061
	Nova Scotia.	8	6,667,234	509	256,798	429,517	1,166,749
	New Brunswick.	5	16,310,952	1,230	1,299,052	3,165,235	6,205,312
192	Canada Maritime Provinces. Nova Scotia New Brunswick	100 11 6 5	379,812,751 29,515,901 6,121,630 23,394,271	24,619 1,305 254 1,051	34,199,090 1,314,056 162,827 1,151,229	58,327,632 2,593,765 253,040 2,340,725	5,919,751 676,449
1920	Canada	100	347,553,333	31,298	45,253,893	84,208,788	232,032,227
	Maritime Provinces	11	25,254,363	1,989	2,179,570	4,218,683	12,732,441
	Nova Scotia	6	5,948,012	531	332,795	335,033	1,067,445
	New Brunswick	5	19,306,351	1,458	1,846,775	3,883,650	11,664,996

⁽a) Total for Canada includes lodge pole pine,(b) Total for Canada includes cottonwood.(c) Includes some kinds of wood not enumerated.

Part 5. Mining

General.—The total value of mineral production in Canada was in 1923, \$214,079,331; in 1924, \$209,583,406, and in 1925, \$226,583,333. To these totals the Maritime Provinces contributed in 1923, \$32,111,350, or 14·9 per cent; in 1924, \$25,789,612, or 12·3 per cent; and in 1925, \$19,369,470, or 8·5 per cent. Of the 1925 production of Canada, Nova Scotia accounted for \$17,625,612, or 7·8 per cent; and New Brunswick for \$1,743,858, or 0·7 per cent. There are no mines in Prince Edward Island, but there is a small annual production of sand and gravel for railway ballast, and also a small output of clay products. A summary of the principal statistics relative to the mining, metallurgical, structural materials and clay products industries in the Maritime Provinces in 1923 and 1924 is given in Table I.

TABLE I.—Principal Statistics relating to the Mining, Metallurgical, Structural Materials and Clay Products Industries, 1923 and 1924.

	Nova Scotia (a)	New Brunswick	Maritime Provinces (a)	Canada
Number of active operators			124	2,295 2,214
Number of operating plants or mines	23 113		192 188	8, 150 7, 840
Capital employed19		\$ 3,300,139		\$578,837,012 632,443,946
Salaries and wages paid	23 17,613,514	1,339,229	18,952,743	91,334,877
Number of employees.		1,334	15,352,300 16,614	82,787,421 66,952
Miscellaneous expenses(b)	9,994,001	484,363	15,362 10,478,364	64,328 50,400,287
Cost of fuel and electricity	23 2,927,317	154,823	356,069 3,082,140	28,493,006 21,257,336
Total expenditures	23 30,534,832	1,978,415	2,893,545 32,513,247	19,587,452 162,992,500
Value of production	23 29,648,893	2,462,457	18,601,914 32,111,350 25,789,612	130,867,879 214,079,331 209,583,406

(a) Includes a small production of railway ballast and clay-products from Prince Edward Island.
 (b) No miscellaneous expenses item collected for coal in 1924.

For a general view of the trend of mineral production in the Maritimes back to Confederation (the survey for certain products going back prior to Confederation), the reader is referred to the historical tables at the close of the present section (Table VIII and Table IX). A brief reference to present and past conditions by provinces and principal mineral products is as follows:

Nova Scotia.—Because of the geographical position of Nova Scotia on the Atlantic seaboard, this province was among the first in Canada to have its mineral resources explored. In mining, and especially in the production of bituninous coal, Nova Scotia has had a widespread reputation for over 200 years, while its gypsum deposits, which are among the most extensive in Canada, are only in the primary stage of development. In addition to these resources, there are deposits of iron, gold and antimony that have added much to the mineral wealth of the province. Non-metallics, such as dolomite, limestone, salt, and building stone, also have their place.

A protective tariff designed to promote the coal-mining industry in Nova Scotia was adopted in 1877, when a duty was placed on American soft coal entering Canada; this made it profitable for the Nova Scotia mine operators to compete with United States producers in the markets along the St. Lawrence river. With the advent of the steel industry, using the iron ore from the neighbouring country of Newfoundland, the consumption of coal was further increased.

Gold was discovered in Nova Scotia about the year 1860, and the auriferous area has been variously estimated to represent from 3,000 to 5,000 square miles. Considerable work has been done on these gold ores, many of which contain arsenic, but of late there has been little activity of production except in the year 1923 when the price of arsenic was high.

A purview of the mineral production of Nova Scotia for 1923, 1924 and 1925 is afforded by Table II.

TABLE II.-Mineral Production of Nova Scotia, 1923, 1924 and 1925.

75 1 1	Unit	1923		1924		1925	
Product	of Measure	Quantity	Value	Quantity	Value	Quantity	Value
			8		\$		\$
Metallic-		4.5.000	0.050	001 000	15 014		
Arsenic	lb.	45,000					00 010
Gold,	fine oz.*	680	13,556		21,672	1,626	33,612
Manganese ore	tons	200	1,400	-	-	-	_
Silver	fine oz.	-	-	-	-	86	59
Non-Metallic-							
Barytes	tons	209			3,308		
Coal	tons	6,597,838	28, 170, 458		22,280,554		
Grindstones	tons	256					16,725
Gypsum	tons	341,705	747,934	441,752	915,845	551,230	
Quartz	tons	-	_	-	-	1,352	6,760
Salt	tons	4,480	39,151	4,551	37,469	6,598	49,889
Tripolite	tons	130	3,250	33	838	-	-
Structural Materials and Clay							
Products-							
Clay products		_	413.974	_	1359,288	-	1425.710
Lime	bush.	42,370					3.46
Stone		138,682					134,686
Sand and gravelt		224,016					55,369
came and provention							
Total		-	29,648,893	-	23,820,352	_	17,625,613

^{*}Includes a small amount of silver in 1923 and 1924.

Coal.—Coal is the principal mineral product of the Maritime Provinces. The coal fields, though not so extensive as those of some of the western provinces, are more highly developed. The estimated coal resources of Nova Scotia are shown in Table III:

TABLE III.—Estimated Coal Resources of Nova Scotia—From Report of Mr. D. B. Dowling (Memoir 59, Geological Survey Publication, 1915).

County	Actual Reserve Tons	Probable Additional Reserve Tons
Cumberland. Colchester. Pietou.	390,440,000	250,000,000 1,000,000 450,000,000
Antigonish Richmond. Inverness—Land. Marine.	61,800,000 86,000,000	20,000 000 12,360,000 22,000,000 73,000,000
Cape Breton—Land	60,000,000	4,063,457,000 2,639,000,000
TotalGrand total	2,188,151,000	7,530,817,000 9,718,968,000

[†]Includes railway ballast for P.E.I.

[#]Includes small production from P.E.I.

Production of coal during 1923 was valued at \$28,170,458, or 95.0 per cent of the total mineral production of Nova Scotia; during 1924 it amounted to \$22,280,554, or 93.5 per cent; and in 1925 this figure stood at \$15,826,680, or 89.7 per cent. The output of the Nova Scotia mines was distributed by districts as below. These figures are supplemented by Table IV.

	1923	1924	1925
Cape Bretontons	4,661.373	4, 135, 693	2,568,071
Cumberland	862,087	674,806	518,733
Inverness"	164,681	88,474	149,668
Pictou"	909,697	658,468	606, 506
Totaltons	6,597,838	5,557,441	3,842,978

TABLE IV.—Principal Statistics of the Coal Mining Industry in Nova Scotia and New Brunswick, 1923-1924-1925.

	Nova Scotia	New Brunswick
Number of firms	 21 20 19	9 9 11
Number of operating mines	 56 50 47	17 16 16
Capital employed	 \$ 58,099,321 54,708,244 54,149,478	\$ 1,694,138 1,808,354 1,722,576
umber of employees	 14,119 12,994 8,853	643 637 640
laries and wages	 \$ 16,744,365 13,354,904 11,673,653	\$ 816,163 648,425 595,907
Value of products	 \$ 28,170,458 22,280,554 15,826,680	\$ 1,196,772 932,185 815,367

Iron and Steel.—A great industrial development has taken place in the iron and steel industry at Sydney and New Glasgow, based on the local available fuels and fluxes and the iron ores of Newfoundland. Iron ore occurs in the province of Nova Scotia in small beds and pockets, but it cannot compete with the hematite ore from the neighbouring colony. The Londonderry mines which were opened in 1849 have been idle since 1908, and those of the Nictaux-Torbrook district in Annapolis county although yielding 350,000 tons between 1891 and 1913 are no longer worked. Another deposit is in the Pictou iron ranges. No iron ore is reported as having been mined in Nova Scotia since 1918.

TABLE V.—Principal Statistics of the Iron, Steel and Ferro-Alloy Industry of Nova Scotia and Canada, 1923, 1924 and 1925.

	Nova Scotia	Canada
Number of establishments	3 4	26 29
1924 1925	4	31
Capital employed		\$82,880,333 79,805,201 80,757,625
Number of employees	973 1,303 1,190	6,049 5,325 4,946
Salaries and wages	937,383	\$10,816,201 7,201,588 7,079,099
Value of products (*)	6,949,982	\$66,070,771 33,553,443 32,909,463

^(*) In 1923 the figures include the value of products for sale and inter-plant transfers; in 1924 and 1925 products for sale are shown.

Gypsum.—Gypsum is also an important mineral product of the province. Prior to 1833, activities in the gypsum industry in Nova Scotia consisted principally of the mine operations carried on by individual producers. The crude material was shipped to mills located in the United States. At the present time there are 9 companies operating gypsum properties. One firm ships crushed gypsum to Montreal; 3 firms ship calcined gypsum; and 5 ship crude gypsum to the United States. No calcined gyspum is exported except a small amount to Newfoundland.

TABLE VI.—Principal Statistics of the Gypsum Industry, in Nova Scotia, 1923-1924-1925.

	1923	1924	1925
Number of establishments. Capital employed Number of employees. Salaries and wages. Cost of fuel and electricity. Miscellaneous expenses Value of products.	\$1,961,223 651 \$ 487,192 \$ 60,699 \$ 184,291	9 \$2,219,940 785 \$ 616,658 \$ 69,176 \$ 147,106 \$ 915,845	\$ 70,683 \$ 331,434

Other Mine Products.—Gold is also found in this province; during the years 1862-1925 there have been 914,130 fine ounces recovered valued at \$18,896,826. The metal has been derived almost entirely from quartz ores, but it also occurs in deposits of arsenical pyrites which when the price warrants, is mined for the recovery of arsenic as well.

Mining of gold reached its peak in 1902 when the output amounted to 30,348 fine ounces. There has been little activity of late years, but it has been stated by mining authorities that with the later knowledge of the metallurgy of gold, with the newer mining methods at present prevailing in up-to-date mining camps, and with the application of hydro-electric power there is a possibility that Nova Scotia may again become one of the gold-producing provinces of the Dominion.

Manganese ores and barytes are being mined, and there have been important recent developments in the discovery and exploitation of valuable beds of rock salt, while there is also a fairly steady production of grindstones, pulpstones and scythestones. Tripolite deposits have been worked from time to time. From the widely-distributed clays of the province there is an

annual production of brick, tile and semi-refractory clay products. Marbles, granites and sandstones of excellent quality for building and ornamental purposes are to be found, as well as limestone for building, fluxing ore and lime-making.

New Brunswick.—Although there are many important economic minerals in the province of New Brunswick, development of these resources has not been as rapid here as in other provinces of the Dominion, probably because of the general concealment of the rocks by forests, which adds to the difficulty of locating mineralized areas suitable for commercial development. Actual mining has not progressed therefore to the extent that geological indications would warrant, and very little of the province has been prospected.

At present, activities are restricted mainly to the mining of bituminous coal, the quarrying of gypsum and stone, and the production of petroleum, natural gas and lime.

Coal is found at several places in the broad carboniferous belt, extending westward from the coast in Albert and Kent counties through Kings, Queens, Sunbury and York. There is a well-known deposit near Minto, Grand Lake district, at Beersville, on the coal branch of the Richibucto river, and at Dunsinane, thirty miles southwest of Moneton, but it has been worked economically only in the vicinity of Minto. Here, the seam runs from sixteen to thirty inches in thickness and is found at various depths down to 120 feet. The production of coal in 1924 amounted to 217,121 tons which was valued at \$932,185, and in 1925 to 208,012 tons worth \$815,367.

Gypsum ranks next to coal and is found in localized deposits. It is quarried at Hills-borough and part of the production is there made into plaster by the Albert Manufacturing Company, who have a large and well-equipped plant. Owing to the excellent water transportation facilities, considerable quantities of crude gypsum are exported to mills in the United States.

Natural gas and petroleum produced in New Brunswick come from the Stoney Creek district south of Moncton. Extensive deposits of bituminous or oil shales occur in Albert and Westmoreland counties near Moncton, but as yet these have not been worked commercially.

Other materials such as wolframite (the ore of tungsten), copper in the form of chalcopyrite, iron ore in the form of silicious magnetite, antimony, manganese and tripolite have also been located.

The total mineral production of New Brunswick during 1925 was valued at \$1,743,858, of which coal amounted to \$815,367 or 46.7 per cent, and gypsum to \$408,917 or 23.4 per cent. Other mineral products obtained in the province, were, natural gas, petroleum, grindstones, clay products, stone, sand and gravel. Details of the mineral production in New Brunswick during 1923, 1924 and 1925 are given in the accompanying table.

TABLE VII.-Mineral Production of New Brunswick, 1923, 1924 and 1925.

Mineral	Unit	1923		1924		1925	
STELENIAN AC	Measure	Quantity	Value	Quantity	Value	Quantity	Value
Metallic— Manganese ore	tons		\$	584	\$ 4,088	_	\$
Petroleum	tons tons tons M. cu. ft.	276,617 1,758 104,740 640,300 8,826	1,196,772 72,177 564,680 126,068 35,642	217,121 2,113 86,738 599,972 5,561	932,185 99,299 476,804 113,577 21,31 3	208,012 1,642 71,745 639,235 5,376	815,367 79,661 408,917 122,394 18,756
Structural Materials and Clay Products— Clay products. Lime. Stone. Sand and gravel. Total.	tons tons	329,548 22,448 608,528	62,587 143,814 166,083 94,634 2,462,457	208, 180 19, 229 141, 897	74,994 108,890 114,111 23,999	202,106 25,391 70,156	69,473 92,216 124,743 12,331 1,743,858

TABLE VIII.—Historical—Principal Mineral Products of the Maritime Provinces.

(Representative figures illustrating the trend of production of the more important minerals of the Maritime Provinces)

	Nov	a Scotia	New Brus	nswiek
	Quantity	Value	Quantity	Value
	tons	\$	tons	8
COAL (a)		-0 800 000		
	8,053,670	12,583,860		-
	1,177,009	1,840,108	mr0	
	1,547,990	2,418,735	m 440	10 050
	2,181,033	3,407,864	7,110	13,850
	2,225,145	3,476,790	9,500	14,250
	3,023,030	8,088,250	10,000	15,000
	5,040,080	10,083,184	29,400	58,800
	0,461,142	12.919,705	55,455	110,910
	7,400,370	16,659,308	127,391	309,612
	1 0,912,140	18,514,662	143,540	386,016
	0,327,091	19,410,737	189,095	708,010
	5,818,002	21,095,470	268,212	1,331,710
	. 5,790,190	22,350,157	166,377	735, 386
	6,437,156	32,314,523	171,610	1,091,440
	. 5,734,928	27,782,050	187, 192	920,666
	. 5,569,072	24,629,921	287,513	1,107,643
		28, 170, 458	276,617	1,196.772
		22,280,554	217,121	932, 185
	D 0110 000	15,826,680	208,012	815,367

(a) For the years 1919 and 1923 the tonnage shown is the total output from all mines; for previous years the figures include only sales, colliery consumption and coal used by operators.

GYPSUM	41.3	am 000	00 104		
74	(b)	67,830	68,164	10 055	10.98
80		125,685	111,833	10,375	
85	(b)	81,887	77,898		27,730
90		181.285	154,972	39,024	30,98
		156,809	133,929	66,949	63,83
		138,712	108,828	112,294	145,85
00		272, 252	298, 248	163,553	232,58
05		400, 455	458,638	90.236	213,57
10		298,864	339,857	74,501	184.93
15		238, 212	278, 160	39.546	153.00
16		215, 472	301, 261	38, 556	191,63
17			115,976	27,225	214.1
18		49,365		42,409	315.6
19		163,852	250,174		428.1
20		260,661	573,712	49,405	360.2
21		206,831	511,883	54,030	
22		332,404	580, 148	82,462	517.6
23		341,705	747,934	104,740	564,6
24		441,752	915,845	86,738	476,8
25		551,230	1,070,408	71,745	408,9

(b) Export figures, production figures not being available.

1876 15,274 1880 51,193 1885 48,129 1890 49,206 1895 18,940 1900 18,940 1905 84,952 1910 18,134 1913 20,436 1915 86,416 1915 3,683 1916 130 1917 130 1918 130 1919 100 pro- 1920-1925 no pro-	Iron Ore				
1880. 51,193 1885. 48,129 1890. 49,206 1895. 83,792 1900. 18,940 1905. 84,952 1910. 18,134 1913. 20,436 1915. 3,683 1916. 3,683 1917. 130 1918. 130 1919. 1920-1925. 190-1925. 10 pro-				-	
1885. 48,129 1890. 49,206 1895. 83,792 1900. 18,940 1905. 84,952 1910. 18,134 1913. 20,436 1915. 3,683 1916. - 1917. - 1918. 130 1919. - 1920-1925. no pro-			-	-	
1890. 49,206 1895. 33,792 1960. 18,940 1905. 84,952 1910. 18,134 1913. 20,436 1915. 3,683 1916. - 1917. - 1918. 130 1919. - 1920-1925. no pro-					
1895. 83,792 1900. 18,940 1905. 84,952 1910. 18,134 1913. 20,436 1915. - 1916. - 1917. - 1918. 130 1919. - 1919. - 1920-1925. no pro-			-		
1900. 18,940 — 5,336 1905. 18,134 — 5,336 1910. 18,134 — 86,416 1913. 20,436 — 3,683 1915. — 1916. — — 1917. — 1918. 130 — — 1919. 1919. 1920-1925. 190 pro- 1900-1925.					
18, 134					
1910					
1913.					
1915. 1916. 1917. 1918. 1919. 1919. 1920-1925. 1900-1925. 1900-1926. 1900-1926.					
1917 1918 1919 1920–1925 no pro-			_		
1918. 130 — — — — — — — — — — — — — — — — — — —			_	-	
1919. no pro-		130	_		
1920–1925 no pro-				-	
		no pro-	-		
duction duction	1020 1020	duction		duction	

TABLE VIII. - Historical - Principal Mineral Products of the Maritime Provinces - continued

Years	Nova S	cotia	New Brunswick	
	Quantity	Value	Quantity	Value
CLAY PRODUCTS	tons	\$	tons	\$
1910. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924.	пинини	204,782 221,881 238,470 331,542 303,515 432,900 541,114 361,761 (a) 431,618 413,974 (a) 359,288 (a) 425,710		56, 475 35, 780 42, 881 51, 304 39, 055 52, 941 73, 484 66, 600 75, 425 62, 587 74, 994 69, 473

(a) Includes a small production of clay products from P.E.I.

Lime	Bushels		Bushels	
1906. 1910. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925.	915,086 (b) 911 534	13,600 13,490 183,017 182,506 197,344 149,663 73,309 40,300 6,085 7,199 936 3,464	405, 450 470,050 369,117 424,113 532,251 482,548 468,533 701,859 562,447 560,834 329,548 208,180 202,106	94,290 105,593 93,797 104,635 171,248 221,935 223,193 365,030 203,084 187,895 143,814 108,890 92,216

(b) Includes a small production from P.E.I.

Stone	Tons		Tons	
1910 1915 1916 1917 1918 1919 1919 1920 1921 1922 1923 1924 1925	58,923 87,955 138,682 67,535 102,125	227,635 367,924 459,298 569,521 478,721 413,194 420,175 116,602 119,492 177,090 111,824 134,686	15,125 12,027 22,448 19,229 25,391	58, 988 153, 512 112, 257 111, 150 99, 044 125, 294 280, 167 97, 290 104, 730 166, 083 114, 111 124, 743

TABLE VIII.-Historical-Principal Mineral Products of the Maritime Provinces-concluded

Years	Nova S	Scotia	New Bru	nswick
1 cars	Quantity	Value	Quantity	Value
Gold	Fine Ozs.	\$	Fine Ozs.	8
1862	6.863	141,871	-	-
1870	18,740	387,392	400	-
1875	10,576	218,629	-	-
1880	12,472	257,823	-	- der
1885	20,945	432,971	-	
1890	22,978	474.990		
1895	21,919 28,955	453,119 598,553		
1900	13,707	283,353		_
1905	7,928	163,891	-	44
1910	6,636	137,180		400
1915	4,562	94,305	-	-
1917	2,210	45,685	-	-
1918	1,176	24,310	-	-
1919	850	17,571	-	
1920	690	14, 263	-	-
1921	439	9,075	- 1	_
1922	1,042	21,540 13,540		_
1923	655	21, 643		_
1924	1.626	33,612		
1925	2,020	00,000		
Petroleum			Barrels	
1010	-	_	1,485	1,826
1910 1915	200	244	1,020	1,423
1916	_		1,345	2,663
1917	_		2,341	5,460
1918	-	-	3,009	7.402
1919	-	-	4,225	13,141 19,963
1920		-	5,148	33,022
1921	_	-	7,479	32,732
1922	_	-	8,826	35,642
1923		-	5,561	21,313
1924	_	_	5,376	18,756
1920				
	100		M. Cu. Ft.	
NATURAL GAS			ME, CAME E CO	
1912	-	-	173,903	36,549
1915	-	911	430,692	60,383
1916	-	944	610,118	79,628
1917		_	796,775	103,735
1918	-	-	792,396	107,842 120,510
1919	-		682,890 682,502	130,506
1920	-		708, 743	139,375
1921			753,898	148,040
1922		***	640, 300	126,068
1923		-	599,972	113,577
1925		-	639,235	122,394
WED.		1		

TABLE IX.—Values of Mineral Production of Maritime Provinces with totals for all of Canada, 1900, 1905, 1910, 1915, 1920--25.

Years	Nova Scotia	New Brunswick	Total Maritime Provinces	CANADA
	\$	\$	8	8
1900. 1905. 1910. 1915. 1920. 1921. 1922. 1923. 1924. 1925.	(a) 9, 298, 479 11, 507, 047 14, 195, 730 18, 088, 342 34, 130, 017 28, 912, 111 25, 923, 499 29, 648, 893 23, 820, 352 17, 625, 612	439,060 559,035 581,942 903,467 2,491,787 1,901,505 2,263,692 2,462,457 1,969,260 1,743,858	Provinces 9,737,539 12,066,082 14,777,672 18,991,809 36,621,804 30,813,616 28,187,191 32,111,350 25,789,612 19,369,470	64, 420, 877 69, 078, 999 106, 823, 623 137, 109, 171 227, 859, 665 171, 923, 342 184, 297, 242 214, 079, 331 209, 583, 406 226, 583, 333

(a) Includes a small production from Prince Edward Island.

Part 6. Water Powers-Central Power Stations

The water powers of the Maritime Provinces are capable of developing a minimum of 74,000 horse power, and by the creation of storage basins can develop six or seven times that amount. In Nova Scotia for example, where the minimum continuous water power is estimated at 20,750 h.p., there are already installed, through the establishment of storage basins, water wheels and turbines with a total capacity of 65,327 h.p.

In Prince Edward Island the individual falls are of small capacity, and many were developed before the days of electricity, to drive saw mills, grist mills, etc.; of a total of 2,274 horse power developed in all industries, only 236 horse power is developed in central electric stations. In Nova Scotia 28,765 horse power, or 44 per cent, is developed in central electric stations out of a total of 65,327 h.p., and in New Brunswick central electric station development is 21,085 horse power, or 47 per cent of the total of 44,631 h.p.

The total installation of water wheels in central electric stations in the three Maritime Provinces is 50,086 horse power; the next largest installation is in pulp and paper mills where 29,639 horse power is developed; the remaining 27,522 horse power is developed in various other industries.

Water power has not been developed in the Maritimes since 1890 as rapidly as in the rest of Canada, where improvements in long distance transmission gave a great impetus to development. In Prince Edward Island many small falls were already being used for local industries; in Nova Scotia and New Brunswick cheap domestic coal for use in both central electric stations and in the power houses of other industries had a deterring effect on the investment of capital in hydro electric plants; whereas in Quebec and Ontario the coal supply was distant, and abundant waterpower awaited only the means of transmission. Conditions somewhat similar to those of Ontario and Quebec existed also in Manitoba and British Columbia, and to a less extent in Alberta. The rate of development of water power is therefore not as significant in the Maritimes as in the other provinces.

For the same reasons the growth of central electric stations in the Maritimes is not as good a barometer of business development as in Quebec and Ontario. There were no electric light and power stations recorded in the Census of 1881. The Censuses of 1891, 1901 and 1911 recorded capital invested but not the production in k.w. hrs. It is only therefore with the institution of the Industrial Census in 1917 that complete records become available. The figures of total hydraulic installations and of capital investment in central electric stations are brought together in the accompanying tables (Table I and Table II). Much of the increase shown in late years was due to the activities of the provincial power commissions of Nova Scotia and New Brunswick. The general status of the central electric station industry is outlined in Table III.

TABLE I.—Hydraulic Installation of Maritime Provinces (horse power).

Year	New Brunswick	Prince Edward Island	Nova Scotia	Maritime Provinces	Canada
1890	2,405 2,475 2,500 2,540 2,540 2,550	1,283 1,283 1,312 1,312 1,312 1,312	12,308 12,383 12,383 12,503 13,849 13,964	15,996 16,151 16,195 16,355 17,701 17,826	70,796 71,219 72,353 78,268 84,623 86,754
1896. 1897. 1898. 1899.	2,550 2,576 2,596 2,671 4,601	1,325 1,325 1,361 1,441 1,521	13,999 14,087 14,093 17,166 19,810	17,874 17,988 18,050 21,278 25,932	93,837 98,912 127,511 141,192 170,359
1901 1902 1903 1904 1905	4,601 4,636 7,427 8,459 8,594	1,581 1,641 1,641 1,641 1,663	20, 132 21, 944 23, 518 26, 228 26, 563	26,314 28,221 32,586 36,328 36,820	235,946 269,621 295,503 352,493 451,553
1906. 1907. 1908. 1909. 1910.		1,701 1,701 1,701 1,734 1,760	26, 952 27, 977 28, 419 29, 381 31, 476	38,787 39,850 40,527 41,622 44,433	606,316 725,900 818 559 888,468 975,150
1911. 1912. 1913. 1914.	15, 185 15, 185 15, 380	1,760 1,785 1,825 1,843 1,942	32,226 32,773 32,964 33,469 33,596	47,621 49,743 49,974 50,692 50,943	1,358,333 1,476,715 1,683,984 1,946,429 2,100,677
1916 1917 1918 1919 1920	16,251 18,371 19,126	1,962 1,989 2,198 2,233 2,233	33,656 34,051 34,318 35,193 37,623	51,098 52,291 54,887 56,552 61,832	2,217,354 2,282,570 2,375,412 2,463,035 2,508,454
1921 1922 1923 1924 1925	42,051 42,551 44,631	2,252 2,274 2,274 2,274 2,274	48,783 48,951 50,056 65,327 65,717	82,011 93,276 94,881 112,232 109,537	2,706,738 2,999,030 3,186,624 3,571,444 4,290,428

TABLE II.—Total Capital invested in Central Electric Stations.

Year	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritimes	Total Canada
	s	8	\$	\$	\$
1891 1901 1911 1917 1918 1919 1920 1921 1922 1923 1023	31, 200 114, 000 211, 900 403, 761 354, 725 406, 033 502, 488 487, 755 506, 089 509, 207	503.110 175,400 3,846,457 3,376,405 3,977,311 4,934,369 5,870,668 5,451,899 8,304,858 7,885,763 9,000,729	346,005 615,455 2,561,084 3,443,848 3,564,542 3,979,956 4,455,293 4,524,647 4,986,933 8,591,312 9,650,794	880, 315 790, 855 6, 521, 541 7, 032, 153 7, 945, 614 9, 269, 050 10, 731, 994 10, 479, 034 13, 779, 546 16, 983, 164 19, 160, 730	4,113,771 11,891,025 110,838,746 356,004,168 404,942,402 416,512,040 448,273,642 484,669,451 568,068,755 581,780,611 628,565,093

TABLE III.—Central Electric Stations, 1924.

	Prince Edward Island	Nova Scotia	New Brunswick	Total
Capital invested	\$ 509,207	\$ 9,000,729	\$ 9,650,794	\$ 19,160,730
Gross revenue.	\$ 136,905		\$ 1,559,307	
Number of employees	29	449	277	755
Salaries and wages	\$ 29,320	\$ 494,924	\$ 325,062	\$ 849,306
Installation—				
Hydraulich.p.	279	16,944	23,485	40,708
Steam engines				
Steam turbines h.p.	1,598	20,978	12,573	35, 149
Internal conbustion engines				00,120
Totalh.p.	1,877	37,922	36, 058	75,857
Outputk.w.hrs.	1,555,000	39, 106, 000	39, 967, 000	80, 628, 000
Number of customers	3,717	40.315	27,759	71,791
Domestic light	3,061	31,667	21,955	56.683
Commercial light	586	7,345	5,040	12,971
Power	70	1,303	764	2, 137

Part 7. Manufactures

Manufacturing stands second to agriculture in the Maritime Provinces in the net value of production. The Census of Industry of these provinces for 1924, conducted by the Bureau of Statistics, included 2,325 establishments, representing a total capital investment of \$199,530,935, employing 34,455 persons who received as salaries and wages a total of \$24,960,978. The gross value of products amounted to \$135,749,992. The cost of materials entering into manufactures was \$81,715,817, leaving the net value of manufacturing production in the three Maritime Provinces of Canada at \$54,034,175. Fuel consumed in manufacturing represented a value of \$4,918,650. The figures are given by provinces in Table I.

TABLE I.-Principal statistics of Manufactures for 1924 by Provinces.

	Prince Edward Island	Nova Scotia	New Brunswick	Total
Establishments. No. Capital. \$ Employees (a) No. Salaries and wages. \$ Cost of fuel. \$ Power h.p. Cost of materials \$ Gross value of products \$ Net value of products. \$	313 2,637,844 2,271 548,496 94,413 4,872 2,281,398 3,720,874 1,439,476	108, 535, 273 16, 132 11, 557, 213 2, 943, 309 188, 095 38, 930, 734 64, 573, 092	88, 357, 818 16, 052 12, 855, 269	2,325 199,530,935 34,455 24,960,978 4,918,650 323,326 81,715,817 135,749,992 54,034,175

⁽a) Including outside piece-workers.

In Table II, statistics are given of the ten leading industries in each of the Maritime Provinces during the calendar year 1924, the industries being ranked in descending order according to the value of their product. The percentage of the total value of production in each province represented by these industries was approximately as follows: Prince Edward Island 83 p.c., Nova Scotia 48 p.c., New Brunswick 58 p.c. It will be noted that none of the industries of Prince Edward Island reach a product of over a million dollars, whilst all ten industries in the other provinces are above that figure.

TABLE II.—The ten Leading Industries of each Province, 1924.

Industries	Estab- lishments	Capital	Employees	Salaries and wages	Cost of materials	Value of products
Prince Edward Island	No.	\$	No.	8	\$	\$
Butter and cheese Fish curing and packing Slaughtering and meat pack-	33 149	189,359 276,930	95 1,668	55,113 102,158	778, 283 497, 445	951,929 769,688
ing (1)	1 22	112, 135	22	8.775	169,914	201,489
Castings and forgings Tobacco, chewing, smok- ing, etc	3	346, 950 81, 163	63 39	63,430 34,006	54,996 68,054 26,783	171,408 156,231 139,990
Printing and publishing Electric light and power Sawmills	3 11 42	234, 029 509, 207 126, 679	75 28 33	57, 085 29, 320 14, 922	67,602	136, 905 126, 667
Bread and other bakery products	5	50,450 2,637,844	2,271	14,616 548,496	48,659 2,281,398	94,228
Total all industries Nova Scotia	313	2,001,022	2,241	010,100	do gardina y construir	0,720,01
Sugar, refined (1)		16,577,765	1.303	937, 383	6,618,617	6,949,982
ferro-alloys, pig iron, etc. Petroleum (1) Fish curing and packing Sawmills	1 246	3,488,807 3,557,927	3,359 1,565	880,656 815,122	3,568,215 2,033,036	5, 222, 492 3, 705, 011
Biscuits and confectionery. Railway rolling stock. Electric light and power. Butter and cheese. Printing and publishing.	11 3 60 28	1,935,245 5,354,438 9,000,729 664,007 1,397,001	1,116 488 444 196 548	752, 452 561,008 494,924 169,164 672,222	1,694,418 2,081,156 1,555,602 323,369	3,159,883 3,124,310 2,351,449 2,006,597 1,652,006
Total all industries		108, 535, 273	16,093	11,553,900	38,930,734	64, 573, 092

(1) Statistics of individual industries cannot be given.

New Brunswick Sawmills	202 1 5 4 12 5 195 37 5 34	22,637,689 21,127,611 5,348,674 2,043,149 1,422,290 1,681,091 9,650,794 990,059 611,958	4,502 1,241 1,797 668 173 2,130 277 451 147	3,513,093 1,479,152 1,263,883 536,919 229,324 284,070 325,062 412,343 142,905	10, 264, 961 3, 612, 889 2, 179, 061 1, 403, 368 1, 771, 577 1, 379, 861 700, 820 809, 868	17,095,506 7,697,234 4,197,298 2,562,383 2,298,271 2,210,403 1,559,307 1,430,457 1,179,954
Total all industries	846	88,357,818	15,805	12,812,718	40,503,685	67,456,026

⁽¹⁾ Statistics of individual industries cannot be given.

Historical.—The general trend of manufacturing in the Maritime Provinces since Confederation is illustrated by Table III, which is based on the decennial Censuses of 1871 to 1911, and on the Industrial Censuses of 1921 and 1924. In Table IV, an enumeration is made of the principal industries in each province in order of importance from decade to decade. It will be seen that while manufacturing has increased in Canada as a whole by. say, twelve times since Confederation, the increase in the Maritimes has been about four times.*

TABLE 1II.—Principal Statistics of Manufactures in the Maritime Provinces, 1871-1921.

				TOTILICES, A	772.1741.
	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	Canada
1871					
Capital invested. \$ Employees. No. Value of products. \$	en en en	6,041,966 15,595 12,338,105	5,976,176 18,352 17,367,687	=	77,964.020 187,942 221,617,773
1881					
Capital invested\$ EmployeesNo. Value of products\$	2,085,776 5,767 3,400,208	20,390	8,425,282 19,922 18,512,658	20,694,118 46,079 40,488,192	165,302,623 254,935 309,676,068
1891					
Capital invested. \$ Employees. No. Salaries and wages. \$ Cost of materials. \$ Value of products. \$	2, 257, 790 4, 606 644, 502 1, 490, 923 2, 879, 705	16,804,824 22,628 5,269,395 12,545,910 23,634,631	14, 260, 485 19, 170 4, 744, 309 10, 837, 700 20, 103, 610	33, 323, 099 46, 404 10, 658, 206 24, 874, 533 46, 617, 946	272, 033 79, 234, 311 368, 696, 723
1901					
Establishments No. Capital invested \$ Employees No. Salaries and wages \$ Cost of materials \$ Value of products \$	334 2,081,766 3,804 445,998 1,319,058 2,326,708	1,188 34,586,416 23,284 5,613,571 13,161,077 23,592,513	919 20,741,170 22,158 5,748,990 10,814,014 20,972,470	2,441 57,409,352 49,246 11,808,559 25,294,149 46,891,691	14,650 446,916,487 330,808 113,249,350 266,527,858 481,053,375
1911				1100	
Establishments	2,013,365 3,762 531,017 1,816,804 3,136,470	1,480 79,596,341 28,795 10,628,955 26,058,315 52,706,184	1, 158 36, 125, 012 24, 755 8, 314, 212 18, 516, 096 35, 422, 302	3,080 117,734,718 57,312 19,474,184 46,391,215 91,264,956	19, 218 1,247,583,609 515, 203 241,008, 416 601,509,018 1,165,975,639
1921			11192		
Establishments No. Capital invested \$ Employees No. Salaries and wages \$ Cost of materials \$ Value of products \$	339 2,308,216 893 522,488 2,516,415 3,873,355	1, 208 105, 254, 364 14, 521 14, 400, 509 41, 099, 835 77, 484, 561	867 99, 204, 791 12, 441 10, 678, 721 32, 151, 631 55, 345, 193	2,414 206,767,371; 27,855 25,601,718 75,767,881; 136,703,109;	456,076 518,785,137 1,366,893,685
1924					
Establishments No. Capital invested \$ Employees No. Salaries and wages \$ Cost of materials \$ Value of products \$	313 2,637,844 2,271 548,496 2,281,398 3,720,874	1,166 108,535,273 16,093 11,553,900 38,930,734 64,573,092	88,357,818 15,805 12,812,718 40,503,685 67,456,026	2, 325 199, 530, 935 34, 169 24, 915, 114 81, 715, 817 135, 749, 992	508, 503 559, 884, 045 ,438,409,681

^{*}The Statistics for 1921 and 1924 are exclusive of certain hand-trades and repair and custom establishments included in the carlier years.

TABLE IV.—Industries having a production of over \$100,000 value, in order of importance.

Prince Edward Island-

1851-Lumbering, Fish Canning and Curing.

1861-Lumbering, Fish Canning and Curing, Flour Milling.

1871-Lumbering, Fish Canning and Curing, Flour Milling, Ship and Boat Building.

1881-Fish Canning and Curing, Lumbering, Flour Milling, Ship and Boat Building.

1891-Flour Milling, Meat Packing, Lumbering, Fish Canning and Curing, Carriages.

1901-Dairying, Fish Canning and Curing, Foundry Castings and Forgings, Planing Mills.

1911-Fish Canning and Curing, Dairying, Flour Milling, Lumbering, Planing Mills.

1921—Meat Packing, Dairying, Fish Canning and Curing, Flour Milling, Planing Mills, Foundry Castings and Forgings.

New Brunswick-

1851-Lumbering, Fish Canning and Curing, Flour Milling.

1861-Lumbering, Fish Canning and Curing, Ship and Boat Building.

1871-Lumbering, Fish Canning and Curing, Leather Tanneries, Flour Milling.

1881-Lumbering, Fish Canning and Curing, Sugar Refining, Leather Tanning, Flour Milling.

1891—Lumbering, Cottons, Foundry Castings and Forgings, Flour Milling, Sugar Refining, Fish Canning and Curing, Boots and Shoes.

1901—Lumbering, Cottons, Fish Canning and Curing, Leather Tanning, Wood Pulp, Biscuits and Confectionery, Foundry Castings and Forgings, Iron and Steel Products.

1911—Lumbering, Cottons, Foundry Castings and Forgings, Fish Canning and Curing, Flour Milling, Biscuits and Confectionery, Wood Pulp, Iron and Steel Products.

1921—Sugar Refining, Lumbering, Cottons, Wood Pulp, Biscuits and Confectionery, Fish Canning and Curing, Boots and Shoes, Electric Power, Wire Goods, Foundry Castings and Forgings, Flour Milling, Planing Mills, Meat Packing.

Nova Scotia-

1851-Lumbering, Fish Canning and Curing, Ship Building, Flour Milling.

1861-Lumbering, Fish Canning and Curing, Ship Building, Flour Milling.

1871-Lumbering, Fish Canning and Curing, Ship and Boat Building, Flour Milling.

1881—Lumbering, Fish Canning and Curing, Ship and Boat Building, Sugar Refining, Flour Milling, Leather Tanning.

1891—Lumbering, Sugar Refining, Fish Canning and Curing, Ship and Boat Building, Foundry Castings and Forgings, Boots and Shoes, Flour Milling, Smelting, Leather tanning, Furniture, Carriages.

1901—Smelting, Iron and Steel Products, Fish Canning and Curing, Lumbering, Sugar Refining, Clothing, Boots and Shoes, Biscuits and Confectionery, Cottons, Foundry Castings and Forgings, Planing Mills.

1911—Iron and Steel Products, Sugar Refining, Lumbering, Fish Canning, and Curing, Foundry Castings and Forgings, Planing Mills, Biscuits and Confectionery, Boots and Shoes, Cottons, Cordage, Flour Milling.

1921—Iron and Steel Products, Petroleum Refining, Sugar Refining, Fish Canning and Curing, Lumbering, Railway Rolling Stock, Biscuits and Confectionery, Foundry Castings and Forgings, Electric Power Plants, Dairying, Knitting Mills, Fertilizer, Planing Mills, Wood Pulp, Boilers and Engines, Cooperage.

APPENDIX TO CHAPTER III.

Labour Organization in the Maritime Provinces-Trade Disputes.

No special or extended treatment is possible here of labour in its organized capacity in the Maritime Provinces, though the subject forms one of the most interesting chapters in the annals of Canadian trade unionism. In the Provincial Workmen's Association, Nova Scotia saw the rise of a purely indigenous organization, racy of the soil, which won its way to a position of marked influence by a prolonged and bitter struggle with the dominant international type of labour organization in Canada, only to be displaced by another exponent of the latter principle. Though not without great local significance, the history of these events is best treated as an incident of the general record of trade unionism in Canada. The student may be referred to "Canada and Its Provinces," Volume I, Section II ("The Labour Movement in Canada"), for the leading facts in their general setting. Assembled herewith (Table I), are the main statistics of labour organizations in the Maritime Provinces, in so far as they are available, i.e. since 1911—also the leading statistics of trade disputes since 1901 (Table II). Brief comments on these tables follow:—

Recent Progress in Labour Organizations.—According to returns furnished annually to the Department of Labour by local trade unions, organized labour attained its greatest numerical strength in the Maritime Provinces during 1919, whereas 1920 was the "peak" year in other parts of the Dominion. Nova Scotia unions reported 20,067 members and New Brunswick 12,133 members in 1919, from which there were declines of 10 p.c. and 12 p.c., respectively, in 1920, while in Canada as a whole there was an increase of 8 p.c. in the membership reported by the locals furnishing data.

Between 1919 and 1925, there were declines of approximately 42 p.c. and 49 p.c., in the reported membership of local organizations in Nova Scotia and New Brunswick, respectively, as compared with an 18 p.c. drop in Canada. The subjoined statement shows that the reduction was most severe in unions other than mine workers; the latters' loss was comparatively slight. More specificially, there was a general decrease of 44.6 p.c. in the reported membership of local trade unions in Nova Scotia and New Brunswick during the last seven years, but of only 17.7 p.c. in the membership of District 26. In connection with this decline, it is worthy of note that the production of coal in the two provinces was 5,899,481 short tons in 1919 and 5,774,562 in 1924. As this was a loss of only 2 p.c., it may be inferred that the productivity of mine workers has increased, perhaps to some extent as a result of improved machinery and methods. The figures of unemployment given below among the members of reporting unions of mine workers in Nova Scotia and New Brunswick also throw light upon the industrial conditions in the coal areas; the averages exclude unemployment due to industrial disputes, siekness, etc.

Year	Reported membership of trade unions in Nova Scotia and New Brunswick	Membership of District 26, U.M.W. (Nova Scotia and New Brunswick)	Percent of unemployment reported by unions of mine workers in Nova Scotia and New Bruns- wick (average for year)
1919	32,200	13.365	1·2
	28,677	12,200	0·6
	17,530	13.000	9·8
	18,133	13.000	7·6
	19,688	13,500	2·7
	20,989	12,000	5·4
	17,850	11,000	8·6

Trade Disputes.—The Department of Labour has maintained a record of industrial disputes since 1901. For Nova Scotia, this shows that no less than 4,290,640 working days have been lost through strikes in the last 25 years, an average of 171,626 working days per year. During the same period the aggregate number of days lost in industrial disputes in Canada was 24,862,845, of which Nova Scotia, with 5.96 p.c. of the Dominion's population in 1921, reported 17.3 p.c. The effect of so heavy a time loss in a province whose population varied between 459,574 in 1901

and 523,837 in 1921 is evidently far-reaching. A large proportion of the recorded unrest was of course in the mining industry, which in 1911 ranked third in the number of male workers employed in Nova Scotia, yielding place only to agricultural and factory employees.

New Brunswick reported a total time loss of 421,334 working days, or 1·7 p.c. of the total for Canada, while in Prince Edward Island, 0·01 p.c. of the total loss took place. The Maritime Provinces together have reported 18·95 p.c. of the total days lost in industrial disputes throughout the Dominion.

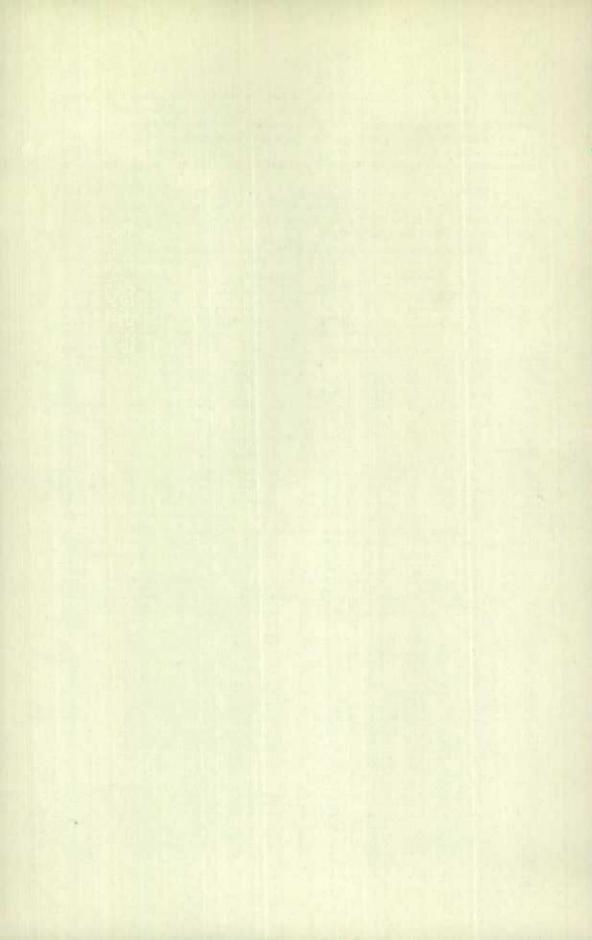
For a description of the more recent phases of the prolonged unrest in the coal fields and in the iron and steel industry of Nova Scotia, which in the end reached an intensity almost unparalleled previously in Canada, see the Report of the Provincial Royal Commission on the Coal Mining Industry in Nova Scotia, 1925.

TABLE I.—Local Trade Unions in the Maritime Provinces, 1911-1925.

	Nova Scotia New Brunswick					Prince Edward Island						
	Num		Men	aber-	Number of Member- Unions ship		Number of Unions		Member- ship			
Year	In pro-	Re- porting mem- ber- ship	Re- ported in pro- vince	P.c. to total re- ported for Canada	In pro- vince	Re- porting mem- ber- ship	Re- ported in pro- vince	P.c. to total re- ported for Canada	In pro-	Re- porting mem- ber- ship	Re- ported in pro- vince	P.c. to total re- ported for Canada
1911	142 136 118 125 107	69 51 63 49 52	7,331 6,065 4,394 5,434 4,428	3·4 5·6	74 83 91 93 87	44 52 54 40 55		4·5 3·6 3·4	10 9 10 11 10	8 7 8	533 670 584 543 472	0.5
1916 1917 1918 1919 1920	100 116 128 157 167	56 92 114		6·1 8·7 8·4		43 70 85	3,859 7,944 12,133	2·7 3·8 5·1	8 7 7 8 10	6 5 7 8	568 650 276 683 455	0·5 0·1 0·3
1921 1922 1923 1924 1925	151 147 134 126 131	93 94	12,954	7·1 6·7 7·0	114 114 106	60 74 76	5,417 6,734 6,731	3·0 3·5 3·3	10	5 5 8	261 328 326 412 534	0·2 0·2 0·2

TABLE II.—Trade Disputes in the Maritime Provinces, 1901-1925.

		Nova	Scotia			New Br	unswick		Pr	ince Edw	ard Islan	nd
Year	Num-	Num-	Time	loss	Num-	Num-	Time	loss	Num-	Num-	Time	loss
1 ear	ber of dis- putes	em- ployees in- volved	In work- ing days	P.c. of total for Canada	ber of clis- putes	em- ployees in- volved	In work- ing days	P.c. of total for Canada	ber of dis- putes	em- ployees in- volved	In work- ing days	P.e. of total for Canada
1901. 1902. 1903. 1904. 1905.	5 9 6 9 7		28,215 12,962 10,770 71,194 33,562	4-4 10-0 0-8 26-8 15-1	3 7 3 2 5	124 382 901 11 1,925	639 5,993 16,741 22,620	0-1 4-1 1-3 10-1	2	- 49 -	819	0.6
1906. 1907. 1908. 1909.	11 10 3 6	6,134	31,560 140,725 2,806 522,062 361,615	0·2 59·9	9 8 6 2 1	823 1,480 1,485 65 150	29,935 2,515			-	-	40
1911. 1912. 1913. 1914. 1915.	2 4 4 4 8	104 1,015	193,230 1,790 18,324 10,683 24,025	0-1 1-4 2-4	7 8	134 872 2,362 230 100	406 13,274 154,136 2,789 600	0.2	-	18	36	-
1918	2 7 13 9 20	1,415 15,694 1,583	48.774	0-8 9-9 1-2	2 8 16	3,285 2,484	42,828	2·3 1·0	-	270	1,010	0.1
1921 1922 1923 1024 1925		5 15,136 20,989 12,747	321,062 319,434	16-3 41-6 18-2		52	2,109	0.1	1 -	9 80 - -		



CHAPTER IV.—TRADE AND TRANSPORTATION

1. Maritime Trade prior to Confederation

Prior to Confederation the Maritime Provinces were largely self-contained. Though the crises of 1848 and 1854 were felt, especially in New Brunswick, those of 1837 and 1857 were without serious effect. From a condition of stagnation, noted by Lord Durham, the colonies emerged into one of considerable industrial and trade activity during the fifties, assisted to some extent by the Crimean War, and more especially by the reciprocity treaty with the United States and This continued without material abatement over most of the sixties, the American Civil War. though the 1871 Census does not show as great a relative advance during the preceding decade as does that of 1861. Agriculture, the fisheries, lumbering and coal mining were the basic sources of wealth. Most of the exports of the Maritimes went to the United States and the West Indies, whilst Great Britain supplied them with the hardware, clothing and general manufactures, which (with sugar, rum, tobacco, etc., from the West Indies and the United States), made up the bulk of their imports. With the Canadas, trade was restricted to a small export of fish and coal, but there were considerable imports of flour in bond through the United States. The average pre-Confederation tariff in Nova Scotia was 10 p.c., in Prince Edward Island 11 p.c., and in New Brunswick somewhat under 15 p.c.

A summary of the foreign trade of Nova Scotia, New Brunswick and Prince Edward Island prior to Confederation, back to 1850, compiled from the Blue Books of these Colonies, is presented in the accompanying table (Table I).*

It will be noted from the table that a persistent excess of imports over exports prevailed in this period in all three colonies. Altogether this excess during the 18 years from 1850 to 1867 inclusive amounted to \$101,973,881. It should be pointed out, however, in considering this figure, that the export returns do not include wooden ships, one of the most considerable industries of the Maritime Provinces in these years, the sale of which was chiefly in Great Britain, though the imports include certain rigging and sails which went into the manufacture of these vessels. In 1866 alone, New Brunswick launched 118 new ships, Nova Scotia 300, and Prince Edward Island 127, with an aggregate tonnage of 132,382, valued at \$5,401,060. Doubtless the prosperity of the shipbuilding trade at this time was partly due to the decline of the American merchant marine as a consequence of the Civil War. The imports and exports of Ontario and Quebec during these years similarly showed an excess of imports over exports, the excess for the 18 years amounting to \$134,153,727.

Trade conditions in the Maritimes changed abruptly in 1866 with the abrogation of the Reciprocity Treaty with the United States, which closed their most important market. Some index of the severity of the blow may be seen in the figures for 1867 compared with those of 1865 and 1866 in Table I. The coal, lumber and fish trades were especially affected. Confederation, which followed in 1867, with the building of the Intercolonial and the establishment of a considerably larger trade with the Canadas, undoubtedly was of assistance in mitigating the abrogation of reciprocity, though the interaction of the two forces with the adoption of the general Canadian tariff is difficult, if not impossible, of measurement. The local trade of certain strategic distributing centres, including Halifax, was at the same time disturbed.

The student desirous of obtaining within convenient space a purview of Maritime trade, by countries and leading commodities, at a typical pre-Confederation date, may consult the report on intercolonial reciprocity made by Hon. W. P. Howland, Canadian Minister of Finance in 1862. Several trade tables are included, together with the tariffs of the colonies (see Sessional Papers, Province of Canada, 1863).

^{*}These figures are given with reservation, owing to the imperfect manner in which trade records were maintained in the early colonies; they are considerably at variance in places with the corresponding import and export records of the United States and Great Britain, with whom the bulk of the trade was transacted.

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TABLE I.-Statement of Total Imports and Exports of Nova Scotia, New Brunswick and Prince Edward Island, showing Balances of Trade, 1850 to 1868.

		Nova Scotia		Ne	w Brunswick	01.3	Princ	ce Edward I	sland	Mari	time Province	ces
Years	Imports into	Exports from	Excess Imports over Exports	Imports into	Exports from	Excess Imports over Exports	Imports into	Exports from	Excess Imports over Exports	Imports	Exports from	Excess Imports over Exports
	\$	8	\$	8	8	\$	\$	\$	\$	\$	8	8
1850 1851 1852 1853 1854 1855 1856 1857 1856 1857 1860 1860 1862 1863 1864 1864 1865 1866 1867	3,600,000 3,741,933 7,085,431 5,970,878 8,955,410 9,412,515 9,349,160 9,680,880 8,075,590 8,100,955 8,511,549 7,613,227 8,445,042 10,201,391 12,604,642 14,381,662 14,381,008 (b)9,345,490	1,550,000 1,599,245 3,033,590 4,853,903 6,238,340 7,832,855 6,864,790 6,967,830 6,321,490 6,889,130 6,619,534 5,774,334 5,774,334 5,646,961 6,546,488 7,172,816 8,830,693 8,043,095 (b)5,474,328	2,050,000 2,142,688 4,051,841 1,116,975 2,717,070 1,580,660 2,484,370 2,713,050 1,754,100 1,211,825 1,892,015 1,892,015 1,898,893 2,798,081 3,654,903 5,431,826 5,550,969 6,337,913 3,871,162	4, 077, 655 4, 901, 500 5, 553, 005 8, 580, 540 10, 343, 865 7, 156, 650 7, 605, 890 7, 994, 715 5, 813, 855 7, 080, 170 7, 233, 700 6, 199, 701 7, 658, 462 8, 945, 352 7, 086, 595 10, 000, 794 (a) 3, 820, 167	3, 290, 090 3, 860, 120 3, 981, 675 5, 362, 495 5, 521, 075 4, 131, 905 5, 366, 735 4, 588, 875 4, 053, 895 5, 367, 110 4, 581, 860 4, 546, 039 3, 856, 538 4, 940, 781 5, 534, 726 6, 373, 705 (a) 2, 407, 889	787,565 1,041,380 1,571,330 3,218,045 4,822,790 3,024,745 2,239,135 2,505,840 1,759,960 1,713,060 2,651,840 1,397,000 2,343,163 2,717,681 3,891,473 3,891,473 1,551,869 3,627,889 1,412,278	630, 480 669, 410 859, 855 1, 053, 390 1, 369, 645 1, 342, 030 1, 426, 260 1, 293, 640 931, 145 1, 173, 490 1, 150, 270 1, 049, 678 1, 056, 205 1, 467, 156 1, 689, 638 1, 905, 075 2, 162, 435 1, 472, 168	325, 992 343, 022 531, 285 636, 735 756, 067 735, 573 671, 881 672, 325 765, 355 893, 400 1, 007, 171 815, 571 752, 745 1, 013, 340 1, 457, 727 1, 915, 541 1, 861, 581	304, 488 326, 388 328, 570 416, 655 613, 578 606, 457 754, 379 621, 315 165, 790 280, 090 143, 099 234, 107 303, 460 419, 794 676, 298 447, 348 246, 894 (c)	8, 308, 135 9, 312, 843 13, 498, 291 15, 604, 808 20, 668, 920 17, 912, 195 18, 381, 310 18, 669, 235 14, 820, 590 16, 354, 615 16, 895, 519 14, 605, 944 15, 700, 948 19, 327, 009 23, 239, 632 23, 373, 332 26, 544, 237 14, 637, 825	5, 166, 082 5, 802, 387 7, 546, 550 10, 853, 133 12, 515, 482 12, 700, 333 12, 903, 426 12, 229, 030 11, 140, 740 13, 149, 640 12, 208, 565 11, 135, 944 10, 256, 244 12, 534, 631 13, 240, 035 15, 823, 146 16, 332, 341 9, 743, 798	3,142,053 3,510,456 5,951,741 4,751,675 8,153,438 5,211,862 5,477,884 5,840,205 3,679,850 3,204,975 4,686,954 3,470,000 5,444,704 6,792,378 9,999,597 7,550,186 10,211,896 4,894,027

⁽a) Six months ended June 30.
(b) Nine months ended June 30.
(c) Excess Exports over Imports \$389,413.

2. Trade through Maritime Ports since Confederation

A record of imports and exports by provinces in continuation of the above subsequent to Confederation is not available. Trade between the Maritime Provinces themselves and between the Maritimes and Ontario and Quebec ceased to be recorded after 1867. The statistics obtained by adding together the port returns within each province (which are frequently used as a measure of "provincial" trade), include in the case of exports certain goods originating in Canada outside the province, and in the case of imports certain goods not destined for consumption within the province. It is difficult, therefore, if not impossible, to compare the trade of the Maritimes before Confederation and afterwards. In Table II, however, the totals of port entries are brought together at five-year intervals for their general significance, though, as just said, this significance pertains rather to transportation and the volume of port business than to provincial trade. In addition, from the same point of view, a table showing total imports and exports year by year since 1890 through Halifax, St. John, Quebec, Montreal, and Vancouver, is given (Table III), for special comparative purposes.

Immediately following Confederation, trade with Ontario and Quebec increased, it is estimated, by 100 per cent, and in the next three years made still further gains, though these were only a fraction of the loss of U.S. trade, which is estimated to have declined by nearly one-half. It was not in fact for several years that the trade of the Maritimes with Ontario and Quebec became considerable. During the later seventies depression prevailed, special factors in which were the disappearance of the wooden shipbuilding industry, the failure of the carrying enterprises which many of the shipbuilding concerns had undertaken with insufficient experience, unsettled trade conditions in the West Indies, and the prevailing low prices for lumber. It may be noted that trade with Prince Edward Island, which did not enter Confederation until 1873, likewise declined following the abrogation of reciprocity. The post-Confederation declines in the other provinces were particularly noticeable in exports. Considerable declines in imports through Maritime ports were also noted following the tariff legislation of 1878, though coal exports increased. (See also pp. 92-93 hereunder).

TABLE II .- Trade through Maritime Ports since Confederation.

Years	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritime Provinces	Total Canada
Imports 1870	\$ 1,928.662 1,983,419 799,287 778,444 585,859 530,713 506,374 590,371 655,202 930,467 1,014,875	\$,008,031 10,672,981 6,138,938 8,192,381 9,304,148 8,991,559 10,369,943 12,385,520 14,121,615 16,257,305 33,057,422	\$ 6,532,827 9,853,652 3,996,698 6,124,264 6,620,394 4,528,564 6,580,995 8,100,033 10,743,781 12,736,708 33,809,948	\$ 16,469,520 22,510,052 10,934,923 15,095,089 16,510,401 14,050,836 17,457,212 21,075,924 25,520,598 20,924,480 67,942,245	\$ 73,166,265 119,618,657 71,782,349 102,710,019 112,765,584 105,252,511 180,804,316 261,925,554 375,833,014 1,064,528,123
1925. Exports 1870. 1875. 1880. 1885. 1890. 1895. 1900. 1905. 1910. 1915. 1920. 1925.	930,719 2,154,203 1,308,464 1,736,533 1,494,469 887,755 1,039,493 1,349,529 654,512 441,836 542,087 326,442	22, 068, 108 5, 803, 417 6, 979, 130 7, 543, 684 8, 894, 085 9, 468, 409 11, 723, 534 12, 608, 973 15, 289, 772 19, 557, 188 29, 712, 618 78, 029, 938 43, 940, 356	25,702,617 5,303,206 6,443,050 5,863,955 6,489,293 6,977,855 6,368,657 14,165,506 17,930,703 32,110,811 54,322,440 141,874,056 78,251,919	13, 260, 826 14, 830, 647 15, 144, 172 16, 877, 847 17, 334, 019 19, 131, 684 28, 124, 008 33, 874, 987 52, 109, 835 84, 577, 195 220, 230, 436 122, 771, 431	796, 932, 537 75, 727, 693 77, 886, 979 87, 911, 458 89, 238, 361 90, 749, 149 113, 638, 803 191, 894, 723 203, 316, 872 301, 358, 529 490, 808, 877 1, 286, 658, 709 1, 081, 361, 043

Note.—Observe the decline of the proportion of our exports going out through the Maritimes from 17 per cent in 1910, 1915 and 1920 to 11 per cent in 1925.

TABLE III.—Total Value of Imports and Exports via Principal Canadian Sea and River Ports, Fiscal Years 1905 to 1926.

Fiscal Years	Via Halifax N.S.	Via Montreal Que.	Via Quebec Que,	St. John N.B.	Via Vancouver B.C.
Imports	\$	\$	\$	\$	\$
1905	7,728,027 8,867,759	76.332,640 80,821,740	8,860,273 9,136,774	5,560,764 6,352,339	6,106,952 8,193,647
907 (9 months) 908	6, 298, 692 8, 811, 494	72,098,846 95,326,862	7,818,059	5,611,180	6,654,828
909	8,608,396	79, 329, 078	12,845,550 8,603,370	7,354,202 6,305,629	13,056,069 11,723,640
910	8,743,255	94,573,491	10.012,035	7,349,763	17, 265, 068
912	9,890,801 11,512,546	111,424,805 135,019,357	11,270,860 11,775,466	7,732,244 8,522,548	25, 250, 463
913	12,196,236	145,629,791	14,719,547	9,845,221	32,505,431 43,475,412
914 915.	11,546,554 10,709,544	141,728,705	14,599,652	9,373,675	37, 628, 156
916.,	9,873,309	102,198,355 129,139,817	11,801,600 11,945,964	8,847,049 11,057,022	25,055,487 19,956,534
91(13,885,665	222,118,617	16,898,120	14,956,948	27, 189, 375
918	13,118,337 15,071,155	197,403,279 186,311,914	15,572,070 19,360,371	16,783,567	40,762,996
920	20, 532, 135	246,898,636	19, 951, 075	15,701,479 26,990,916	46,736,318 49,256,913
921 922	24,749,731	286,597,463	26,663,862	32,857,033	64,731,912
923	13,476,769 16,956,623	167,812,273 173,938,311	16,629,548 14,332,753	21,369,385	48, 235, 845
924,	17,051,617	191,867,086	16,240,993	20, 622, 689	46, 965, 214 53, 808, 630
925 926	15, 106, 817 14, 437, 382	171,116,753	14,403,267	19,245,490	53, 350, 269
V	17, 201, 002	192,662,398	16,318,355	20,151,989	59,843,051
Exports					
905	8,444,149	59, 411, 278	3,717,471	13,548,041	5, 331, 402
906 907 (9 months)	10, 192, 631 6, 983, 555	81,589,542	4, 163, 567	18,532,039	7,283,155
908	9.769,143	70,510,144 89,782,587	4,518,354 4,768,403	13,342,838 20,304,281	3,542,955 6,734,726
909	10,015,509	77, 199, 743	4,838,596	20,668,517	5,848,378
910 911	11,595,755 12,514,420	77,501.549 74,330.938	5,751,375	24,988,519	7,769,129
912	15,857,184	74,944,869	7,103,300 6,641,512	21,659,514 21,895,963	7,320,425 8,148,697
914	15, 173, 250	85,080,238	8.592.177	25,594,721	11,077,421
910,616	19,157,170 17,247,719	99, 238, 107 119, 349, 025	9,603,192 7,310,185	21,359,760 43,872,932	17, 058, 893
916	26,843,487	191, 170, 656	3,991,861	120,042,590	15,172,233 15,848,281
917	34,175,832 71,428,208	384,313,755	15, 212, 135	190,586,561	22,575,907
919	41,697,142	524, 365, 343 396, 976, 269	13,331,114 9,650,803	200, 783, 647 149, 986, 167	28,488,674 37,373,971
f2U	54, 562, 947	353, 138, 249	22,464,945	114, 257, 976	39,535,283
921	36, 669, 918 24, 893, 710	263,743,335 159,039,309	28,799,768 12,984,029	81,440,495	50,049,502
120	29,584,386	173, 758, 813	15, 382, 000	49,749,273 55,127,568	42,777,949 62,230,665
924 925	30,822,995	190, 282, 115	15,960,228	57,326,588	99,001,740
26	30,564,483	192, 298, 083	11,828,917	58,841,556	105, 303, 103

3. Railway Traffic in the Maritime Provinces as an Index of External Trade, 1925

An index of external trade, by provinces, is afforded by the series of monthly railway traffic returns inaugurated by the Dominion Bureau of Statistics in 1921. These returns show all freight loaded and unloaded in each province, classified for seventy different staple commodities. For a province whose entire traffic is handled by rail the difference between freight loaded and unloaded in these statements is presumably of the nature of an import into or export from the province, and some valuable deductions as to the province's trade relations are thus available. In the case of the Maritime Provinces, however, the validity of the figures is

impaired by the fact that no similar records are available for goods handled by water carriers. It is therefore impossible to arrive at definite conclusions regarding net imports and exports. Nevertheless the following résumé and table (Table IV) of railway traffic may be of interest, though they cover only the past five years.

During 1925 the freight loaded on cars at stations in the Maritime Provinces amounted to 6,588,100 tons and the freight unloaded to 5,347,620 tons. The largest single item was 2,995,017 tons of bituminous coal loaded and 2,741,666 tons unloaded. About two thirds of this was for local consumption; the rest was reloaded on vessels for Quebec, Newfoundland and other points. Potatoes loaded amounted to 299,593 tons, apples 87,717 tons, practically all for outside points, and hay and straw 60,547 tons, mostly for local points; other agricultural products were of lesser importance. Animal products loaded amounted to 30,689 tons, the principal items being horses, 3,053 tons, and cattle and calves, 7,141 tons, which were for local delivery. Sheep loaded were 4,275 tons, of which 2,396 tons were unloaded within the provinces. Eggs showed an export of 1,004 tons, 1,516 tons being loaded and 512 tons being unloaded; these included carload shipments only. The heavy imports were dressed meats, 2,407 tons loaded and 15,459 tons unloaded, and other packing house products, 328 tons loaded and 6,300 tons unloaded. In the mine products group, besides bituminous coal, the only large items were clay, gravel, sand and crushed stone, 153,272 tons loaded and 168,505 tons unloaded; undoubtedly the bulk of this was for local use for the construction of roads and buildings. Of coke, 28,417 tons were loaded and 27,541 tons unloaded, and of other mine products 32,252 tons were loaded and 31,439 tons unloaded.

The heaviest exports via rail were forest products, lumber heading the list with 1,070,405 tons loaded and 291,663 tons unloaded, or an export of 778,752 tons. Pulpwood came next with 327,885 tons loaded and 163,939 tons unloaded, or an export of 163,946 tons; logs, posts, and cordwood showed 63,435 tons exported. Wood pulp among manufactured products recorded 159,379 tons loaded and 31,064 tons unloaded, or 128,315 tons exported. Other heavy exports were sugar, 121,236 tons loaded, 33,565 tons unloaded, or 87,671 tons exported; lime and plaster 59,330 tons loaded, 24,275 tons unloaded, or 35,055 tons exported; fish (fresh, frozen, cured) 42,443 tons loaded, 13,817 tons unloaded, or 28,626 tons exported. Iron, pig and bloom, showed 11,511 tons exported by rail, and paper 11,433 tons.

The imports via rail in manufactured goods were, cement 2,502 tons loaded, 38,544 tons unloaded, 36,042 tons imported; fertilizers 44,925 tons loaded, 70,550 tons unloaded, 25,625 tons imported; automobiles 16,248 tons imported, and merchandise 64,527 tons imported. These figures, to repeat, are railway data alone and do not include commodities forwarded by water. Total car loadings and unloadings, and net imports and exports via rail, 1921-1925, are shown in the attached table. (Table IV).

Comparison of 1925 traffic with that of 1923, the heaviest of these five years, shows the largest decrease to be in loadings of bituminous coal, which amounted to 5,139,452 tons in 1923 as against 2,995,017 tons in 1925. Iron and steel products also showed decreases as follows: iron, pig and bloom 71,201 tons, rails and fastenings 38,922 tons, bar sheet iron, structural iron and iron pipe 51,577 tons, castings, machinery and boilers 11,927 tons—the total loadings for these four commodity groups being 280,325 tons in 1923 and 106,698 tons in 1925. Lumber decreased from 1,190,803 tons in 1923 to 1,070,405 tons, and the total for forest products was less by 202,680 tons. Wood pulp, however, showed increased loadings of 28,782 tons and paper of 12,991 tons. Canned goods, other than canned meats, fell off by 8,635 tons, whereas general merchandise increased by 56,327 tons. The increase in agricultural products of 55,780

tons was more than made up of heavy loadings of potatoes which totalled 299,593 tons in 1925 compared with 194,957 tons in 1923, or an increase of 104,636 tons. Oats were approximately the same; flour decreased by 7,506 tons, hay and straw by 15,704 tons, and apples by 36,780 tons.

TABLE IV.—Railway Revenue Freight Tonnages, 1921-1925

otal nada
743,986
273, 169
962, 401
148,937
714, 207
940,963 548,578
134,032
972,558 303, <mark>255</mark>
-
-
-
-

4. Shipping

A record of the number and tonnage of steam and sailing vessels entered inwards and outwards is available annually by ports back to Confederation, the 1923 report including some eighty-five individual places in the Maritime Provinces. In reducing this record to measurable proportions, an examination was made of the reports for 1870, 1900 and 1923, and the more important ports selected, in order that in computing the general trend, ports of present importance but unknown many years ago should not be included at the expense of others more prominent in former years. The tonnages entered and cleared by ten-year periods for these selected

ports were then tablulated, (see Table V), the record for 1924 and 1925 being added. Provincial totals of the tonnages entered and cleared at these ports were also made up,§—also the statistics for Quebec, Montreal, Vancouver and Victoria for purposes of comparison. A more inclusive statement for 1925 is added (Table VI).

In 1870, tonnages entered and cleared at the port of Halifax totalled 311,357 and 275,062 respectively. Similar figures for the port of Montreal for the same year totalled 228,121 and 243,167, while the port of Quebec showed 756,078 and 674,894 respectively. From this it will be seen that in 1870 Halifax in point of tonnage was of more than equal importance with Montreal, but of less importance than the city of Quebec. Traffic viâ the Pacific ports of Canada was at this time, of course, in its infancy. Since that time, Montreal has achieved the leading position as the grain shipping port of America, outdistancing even the port of New York in this trade, and handling a considerable quantity of United States grain as well as grain of Canadian origin, in addition to large amounts of other freight originally produced in the United States (e.g.—packing-house products). Similarly, the port of Vancouver has recorded phenomenal development, not only as an exit for Canadian grain, but for lumber, fish and other commodities. With the extraordinary development of these channels of trade, the comparative increase along these routes far outstrips the average increase in the total shipping trade of Canada. As a corollary, trade through other channels (e.g.—Maritime Provinces) shows a relatively smaller increase*.

Taking tonnages cleared during 1870 as equal to 100, tonnages cleared in 1925 showed an increase to 828.26. (See Table VII). Clearances for the selected ports in Nova Scotia increased to 590.35, and in New Brunswick to 196.52.

Charlottetown and Summerside were selected as the representative ports in Prince Edward Island; in 1925, clearances at these two ports totalled 59.83 per cent of the total tonnages cleared in 1880.†

In individual cases the development has exceeded the general average for all Canada, Halifax showing 1218.71 in 1925. The similar figure for North Sydney was 995.25. In certain other cases, we have normal conditions during the war, and in the years immediately following a temporary boom. Clearances from Louisburg in 1920 amounted to 3,758.64 per cent of the clearances in 1890 (the first year this port was included in the records), dropping back to 626.93 per cent in 1925. North Sydney clearances amounted to 2,043.13 per cent of the clearances in 1870, dropping to 995.25 per cent in 1925. On the other hand, certain ports seem to have lost their early importance. In this class are Pictou, Port Hawkesbury, Sandy Point in Nova Scotia, and Newcastle and Chatham in New Brunswick. While Summerside totals were never very large, they have become of little importance in the past few years.

[§] The selected ports represented about 98 p.c. of total clearances of sea-going vessels outwards.

^{*} Other factors tending to lessen the importance of Maritime ports have been the substitution of steam vessels for sailing ships and of steel for wooden boats. Larger vessels carrying greater and more diversified cargoes, with the ability to reach river and other ports inaccessible to sailing vessels, extensively modified the channels of water traffic. Simultaneously, the lower freight rates on the water routes have tended in most classes of commodities to force traffic to the longest water and the shortest rail haul. Montreal has been particularly favourably situated in this regard.

[†] Figures for 1870, of course, were not included in the Canadian records.

TABLE V.—Total tonnages of sea-going vessels entered and cleared from principal Maritime ports during fiscal years ending June 30, 1870, 1880 and 1890.

Prince Educard Island		18	70	18	80	189	90
Charlottetown		Entered	Cleared	Entered	Cleared	Entered	Cleared
Charlottetown	Prince Edward Island—						
Total			_	64 281	69 594	90 710	20.50
Nova Scotia	Summerside	-	-				3,56
Nova Scotia	Total	-	top	73,404	80.915	31.079	43,07
Amherst. 17, 497 (28, 817) (25, 468) (29, 365) (30, 40) (30, 40) (41, 40) (Nova Scotia—						20,01
Annapolis. 12,342 12,921 20,210 21,418 55,141 55,141 Arichat. 22,961 2,554 11,933 2,512 13,683 9,8 Baddeck. 1,999 2,100 2,208 3,350 3,049 9,8 Bridgewater 4,088 5,8 Canso 4,084 4,6 Cornwallis. 17,166 18,326 19,129 20,032 - 1,084 4,6 Cornwallis. 1,084 14,06 14,0		17,497	28.817	25, 468	29 365		
Arichat. 22,961 1,999 2,100 2,208 3,330 3,049 9,3 Bridgewater.	Annapolis	12,342				55 141	58 47
Bardices. 1,999 2,100 2,208 3,350 3,049 9,750 2 Canso 4,088 5,8	Arichat						9,80
Canso Cornwallis	Baddeck	1,999	2,100	2,208	3,350		9,34
Cornwalias	Canac	_		-			5,82
Cow Bay.	Cornwallis	17 166	10 200	10 100		4,084	4,04
Digby 14,754 12,024 13,065 11,729 51,344 47,0	Cow Bay	17,100	10,020	19,129	20,032	00 001	40.00
Halifax	Digby	14,754	12.024	13 065	11 720		
Hantax Hantax Hantsport. Joggins. La Have. Liverpool. La Have. Liverpool. Lockeport. Louisburg. 17,514 17,374 8,571 1,662 6,823 11,662 10,188 11,831 11,662 10,188 11,832 11,662 10,713 10,188 11,833 11,662 10,713 10,188 11,833 11,662 10,713 10,173 11,662 10,713 10,713 10,713 10,713 11,662 10,713	Glace Bay	-	-	-	- 11,720		
Hantsport	Halifax	311,357	275,062	529,663	478.875		
Joseph	Hantsport		-		-		1,00
Liverpool	Joggins	7	-				18,39
Louisburg		17 514	17 074	0 781	-		1,89
Louisburg. 17, 663 22, 216 26, 572 36, 523 23, 971 27, 787 North Sydney 29, 034 21, 252 87, 670 47, 808 41, 41 58, 2 Parrsboro. 7, 583 3, 657 14, 861 14, 065 48, 419 48, 8 Picton. 187, 097 12, 341 78, 282 50, 422 39, 593 22, 0 Port Hastings. 187, 097 12, 341 78, 282 50, 422 39, 593 22, 0 Sandy Point. 1, 690 3, 550 15, 832 9, 732 39, 721 35, 5 Sydney. 57, 330 88, 425 63, 650 461, 175 108, 295 155, 2 Sydney. 57, 330 88, 425 63, 650 461, 175 108, 295 155, 2 Sydney. 57, 330 88, 425 63, 650 461, 175 108, 295 155, 2 Sydney. 35, 544 52, 228 59, 718 71, 963 71, 122 67, 5 Sydney. 35, 544 52, 228 59, 718 71, 963 71, 122 67, 5 Sydney. 35, 544 52, 228 59, 718 71, 963 71, 122 67, 5 Sydney. 10, 20, 381 12, 207 12, 207, 373 20, 207, 207, 307, 307, 307, 307, 307, 307, 307, 3		17,014	17,374				25,36
Lunenburg				10,055	11,002		10, 17
North Sydney		17,663	22,216	26 572	36 593		6,92
Partsboro 7,583 3,657 14,861 14,065 46,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410 48,8 48,000 48,410	North Sydney						
Preton	Parrsboro		3,657				
Fort Hiswkesbury	Pictou	187,097	162,541	78,282			29,61
Sandy Point. 1,690 3,550 15,832 9,732 39,721 35,55 Sydney. 57,330 88,425 63,650 46,175 108,295 155,2 Weymouth 18,854 21,620 20,381 21,071 7,541 7,2 Windsor. 35,544 52,228 59,718 71,963 71,122 67,5 Yarmouth 29,809 27,845 30,226 29,127 93,732 90,2 Total 867,124 834,052 1,076,062 929,833 1,506,360 1,437,60 Vew Brunswick—Baie Verte. 2,820 2,796 - 17,690 16,1 Bathurst 8,818 12,346 12,297 11,572 16,191 15,9 Campo Bello 3,485 3,485 3,443 4,872 2,513 13,44 Campo Bello 3,485 3,443 16,199 108,678 76,682 73,5 Dalhousie 13,342 16,623 16,940 18,451 22,773 15,1	Port Hastings	pp ppn	0+ 510			1,786	19
Shelburne	Sandy Point	00,000	01,040	37,938	17,738	29,959	22,07
Sydney. 57,330 88,425 63,650 46,175 108,295 155,5 Weymouth. 18,854 21,620 20,381 21,071 7,541 7,2 Windsor. 35,544 52,228 59,718 71,963 71,122 67,5 Yarmouth. 29,809 27,845 30,226 29,127 93,732 90,2 Total. 867,124 834,052 1,076,062 929,833 1,506,360 1,437,60 Vew Brunswick—Baie Verte. 2,820 2,796 — — 17,690 16,1 Baithurst. 8,818 12,346 12,297 11,572 16,191 15,9 Campbellton. 3,485 3,443 4,872 3,038 2,7 Campbellton. 3,485 3,443 4,872 3,038 2,7 Chatham. 37,963 44,246 110,499 108,678 76,682 73,5 Darchester. 7,347 7,663 6,377 7,472 1,63 3 Ha	Shelburne		3,550	15,832	9.732	39.721	35.50
weymouth. 18,854 bigs 21,620 bigs 20,381 bigs 21,071 bigs 7,541 bigs 7,2 bigs Yarmouth. 29,809 bigs 27,845 bigs 30,226 bigs 29,127 bigs 33,732 bigs 67,5 bigs Total. 867,124 bigs 834,052 bigs 1,076,062 bigs 929,833 bigs 1,506,360 bigs 1,437,60 bigs Vew Branswick—Baite Verte. 2,820 bigs 2,796 bigs - - 17,690 bigs 16,19 bigs	Sydney		88,425		46,175		155, 220
Total	Weymouth		21,620			7,541	Ph 45 An 1
Total 867,124 834,052 1,076,062 929,833 1,506,360 1,437,60	Yarmouth						67,53
New Brunswick—Baie Verte. 2,820 2,796 — — — 17,690 16,191 15,99 Campbellton. 3,485 3,485 3,485 3,443 4,872 3,038 2,7 13,342 16,191 15,99 15,79 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,17 15,423 15,18 15,17 15,17 15,17 15,17 15,17 15,17 15,17 <td></td> <td>867, 124</td> <td></td> <td></td> <td></td> <td></td> <td></td>		867, 124					
Baie Verte 2,820 2,796 17,690 16,11 Bathurst 8,818 12,346 12,297 11,572 16,191 15,90 Campo Bello 3,485 3,485 3,443 4,872 3,038 2,735 Chatham 37,963 44,246 110,499 108,678 76,682 73,5 Dathousie 13,342 16,623 16,940 18,451 22,773 15,1' Dorchester 7,347 7,663 6,377 7,472 1,63 3' Grand Manan - - - 2,024 1,5' 1,5' Harvey - - 2,024 1,5' 1,5' 1,7' 3,2' 2,224 1,5' Hillsboro 10,659 12,862 12,770 17,445 17,32 2,3' 5,8' Newcastle 28,185 28,982 34,847 30,401 37,910 39,3' North Head 18,361 2,633 17,754 18,642 18,984 <t< td=""><td>Non Rrunssrick</td><td></td><td></td><td></td><td></td><td></td><td>-1.00100</td></t<>	Non Rrunssrick						-1.00100
Bathurst 8,818 12,346 12,297 11,572 16,191 15,9 Campbellton 3,485 3,485 3,443 4,872 3,038 2,7 Chatham 37,963 44,246 110,499 108,678 76,682 73,5 Dathousie 13,342 16,623 16,940 18,451 22,773 15,17 Dorchester 7,347 7,663 6,377 7,472 1,163 3 Grand Manan - - 24,480 25,33 Harvey - - 2,024 1,57 Hillsboro 10,659 12,862 12,770 17,445 17,342 23,90 Moncton 979 1,176 1,945 1,717 5,423 5,80 North Head 28,185 28,982 34,847 30,401 37,910 35,80 North Head 28,185 28,982 34,847 30,401 37,910 35,80 North Head 18,361 22,633 17,754 18,642 18,984 16,6 St. Andrew's 12,994 7		2.820	2 796		-	17 000	10.11
Campbellton. 3,485 3,485 3,443 4,872 2,513 13,4 Chadham. 37,963 44,246 110,499 108,678 76,682 73,5 Dalhousie. 13,342 16,623 16,940 18,451 22,773 15,17 Dorchester. 7,347 7,663 6,377 7,472 1,163 3 Grand Manan - - - 24,480 25,33 Harvey. 10,659 12,862 12,770 17,445 17,342 23,99 Moncton. 979 1,176 1,945 1,717 5,423 5,8 Newcastle. 28,185 28,982 34,847 30,401 37,910 39,3 North Head. - - 18,361 22,633 17,754 18,642 18,984 16,6 Shediac. 47,137 49,334 10,107 8,727 14,687 14,55 St. Andrew's. 12,994 7,355 100,062 97,120 123,908 12	Bathurst			12, 297	11 572		
Chashbam. 37,963 44,246 110,499 108,678 76,682 73,5. Dalhousie. 13,342 16,623 16,940 18,451 22,773 15,17 Dorchester. 7,347 7,663 6,377 7,472 1,163 23,33 Grand Manan 24,480 25,33 Harvey. 10,659 12,862 12,770 17,445 17,342 23,99 Moncton. 979 1,176 1,945 1,717 5,423 5,88 Newcastle. 28,185 28,982 34,847 30,401 37,910 39,3 North Head	Campbellton	_	-	-	11,012		
Chatham 37,963 44,246 110,499 108,678 76,682 73,5 Dalhousie 13,342 16,623 16,940 18,451 22,773 15,1' Dorchester 7,347 7,663 6,377 7,472 1,163 3' Grand Manan - - - - 24,480 25,3' Hillsboro 10,659 12,862 12,770 17,445 17,342 23,99 Moncton 979 1,176 1,945 1,717 5,423 5,80 Newcastle 28,185 28,982 34,847 30,401 37,910 39,3 North Head 18,361 22,633 17,754 18,642 18,984 16,6 Shediac 47,137 49,334 10,107 8,727 14,687 14,5 St. Andrew's 12,994 7,355 100,062 97,120 123,908 121,4 St. George 14,300 19,836 3,564 5,033 2,907 2,66 <	Campo Bello			3,443	4,872		
Total for Capada 13,342	Chatham						73,55
Grand Manan - 24,480 25,33 Harvey 10,659 12,862 12,770 17,445 17,342 23,90 Moneton 979 1,176 1.945 1,717 5,423 5,88 Newcastle 28,185 28,982 34,847 30,401 37,910 39,3 North Hoad 18,361 22,633 17,754 18,642 18,984 16,6 Shediac 47,137 49,334 10,107 8,727 14,687 14,5 St. Andrew's 12,994 7,355 100,062 97,120 123,908 121,45 St. John 471,297 417,388 462,880 458,880 500,641 504,44 St. Martin's 6,556 7,074 8,372 6,587 13,752 10,86 Total 684,243 653,799 801,857 795,597 902,108 904,11 Quebec 756,078 674,894 675,634 572,562 617,510 439,06 Ancouver <	Dorchester						15, 17
Harvey. Hillsboro. 10,659 12,862 12.770 17,445 2,024 1,55 Moneton. 979 1,176 1.945 1,717 5,423 5,88 Newcastle. 28,185 28,982 34,847 30,401 37,910 39,3 North Hoad. Richibueto. 18,361 22,633 17,754 18,642 18,984 16,6 Shediac. 47,137 49,334 10,107 8,727 14,687 14,55 St. Andrew's. 12,994 7,355 100,062 97,120 123,908 121,44 St. George. 14,300 19,836 3,564 5,033 2,907 2,66 St. John. 471,297 417,388 462,880 458,880 500,641 504,49 St. Martin's	Grand Manan	1,021	1,000	0,377			37.
Hillsboro. 10,659 12,862 12.770 17,445 17,342 23,90 Moncton 979 1,176 1.945 1,717 5,423 5,88 Newcastle 28,185 28,982 34,847 30,401 37,910 39,3 North Head. 18,361 22,633 17,754 18,642 18,984 16,6 Shediac 47,137 49,334 10,107 8,727 14,687 14,55 St. Andrew's 12,994 7,355 100,062 97,120 123,908 121,44 St. George 14,300 19,836 3,564 5,033 2,907 2,6 St. John 471,297 417,388 462,880 458,880 500,641 504,44 St. Stephen 6,556 7,074 8,372 6,587 13,752 10,86 Total 684,243 653,799 801,857 795,597 902,108 904,11 2006c. 756,078 674,894 675,634 572,562 617,510 439,00 for Capada 228,121 243,167 427,057 484,671 603,551 650,44 236 2000 10,80 353,687 662,217 652,4 16 277,542 288,88 20 10,0		_				24,480	
Moncton. 979 1,176 1,945 1,717 5,423 5,80 Newcastle. 28,185 28,982 34,847 30,401 37,910 39,3 North Head. 18,361 22,633 17,754 18,642 18,984 16,6 Richibueto. 18,361 22,633 17,754 18,642 18,984 16,6 Shediac. 47,137 49,334 10,107 8,727 14,687 14,5 St. Andrew's. 12,994 7,355 100,062 97,120 123,908 121,44 St. John. 471,297 417,388 462,880 458,880 500,641 504,44 St. Martin's. 6,556 7,074 8,372 6,587 13,752 10,86 Total. 684,243 653,799 801,857 795,597 902,108 904,11 Quebec. 756,078 674,894 675,634 572,562 617,510 439,06 Anterial 228,121 243,167 427,057 484,671 <t< td=""><td>Hillshoro</td><td>10,659</td><td>12,862</td><td>12,770</td><td>17,445</td><td></td><td></td></t<>	Hillshoro	10,659	12,862	12,770	17,445		
North Hoad	Moneton			1.945			5,889
Richibueto 18,361 22,633 17,754 18,642 18,984 16,6 Shediae 47,137 49,334 10,107 8,727 14,687 14,55 St. Andrew's 12,994 7,355 100,062 97,120 123,908 121,46 St. George 14,300 19,836 3.564 5,033 2,907 2,6 St. John 471,297 417,388 462,880 458,880 500,641 504,41 St. Martin's 6,556 7,074 8,372 6,587 13,752 10,80 St. Stephen 684,243 653,799 801,857 795,597 902,108 904,11 Quebec 756,078 674,894 675,634 572,562 617,510 439,06 Contreal 228,121 243,167 427,057 484,671 603,551 650,41 Zancouver - - 356,649 353,687 662,217 624,18	Newcastle	28, 185	28,982	34,847	30,401		39,31:
Shediac 47,137 49,334 10,107 8,727 14,687 14,587 St. Andrew's 12,994 7,355 100,062 97,120 123,908 121,48 St. George 14,300 19,836 3,564 5,033 2,907 2,6 St. John 471,297 417,388 462,880 458,880 500,641 504,49 St. Martin's 6,556 7,074 8,372 6,587 13,752 10,80 Total 684,243 653,799 801,857 795,597 902,108 904,11 Quebec 756,078 674,894 675,634 572,562 617,510 439,06 fontreal 228,121 243,167 427,057 484,671 603,551 650,41 Zacouver - - 356,649 353,687 662,217 624,18		10 261	99 699	17 774	40.010		10
St. Andrew's. 12,994 7,355 100,062 97,120 123,908 121,44 St. George. 14,300 19,836 3.564 5,033 2,907 2,66 St. John. 471,297 417,388 462,880 458,880 500,641 504,44 St. Martin's. - - 7,074 8,372 6,587 13,752 10,80 Total. 684,243 653,799 801,857 795,597 902,108 904,11 Quebec. 756,078 674,894 675,634 572,562 617,510 439,06 fontreal. 228,121 243,167 427,057 484,671 603,551 650,41 Zancouver. - - 356,649 353,687 662,217 624,18 Total for Canada 2,608,510 2,476,354 3,487,775 0,000,000 0,000	Shadiac						16,618
St. George 14,300 19,836 3.564 5,033 2,907 2,66 St. John 471,297 417,388 462,880 458,880 500,641 504,49 St. Martin's 6,556 7,074 8,372 6,587 13,752 10,86 Total 684,243 653,799 801,857 795,597 902,108 904,11 Juebec 756,078 674,894 675,634 572,562 617,510 439,06 fontreal 228,121 243,167 427,057 484,671 603,551 650,41 fancouver - 356,649 353,687 662,217 624,18 Total for Canada 2,608,510 2,476,354 3,487,775 0,000,070 0,000,070	St. Andrew's						14.53
St. John 471,297 417,388 462,880 458,880 500,641 504,44 St. Martin's 6,556 7,074 8,372 6,587 13,752 10,86 Total 684,243 653,799 801,857 795,597 902,108 904,11 quebec 756,078 674,894 675,634 572,562 617,510 439,06 fontreal 228,121 243,167 427,057 484,671 603,551 650,41 ancouver - - 356,649 353,687 662,217 624,18 Total for Canada 2,608,510 2,476,354 3,477,775 3,000,000 3,000,000 624,18							
St. Martin's 6,556 7,074 8,372 6,587 13,752 10,80 Total 684,243 653,799 801,857 795,597 902,108 904,11 puebec 756,078 674,894 675,634 572,562 617,510 439,06 fontreal 228,121 243,167 427,057 484,671 603,551 650,41 fetoria - 356,649 353,687 662,217 624,18	St. John	471,297				500 641	504 40
Total 684,243 653,799 801,857 795,597 902,108 904,11 10,65 Duebec 756,078 674,894 675,634 572,562 617,510 439,06 Indicated 228,121 243,167 427,057 484,671 603,551 650,41 Indicated 228,121 243,121 643,12		6 556	7 074	-	-	_	-
Quebec. 756,078 674,894 675,634 572,562 617,510 439,06 Iontreal. 228,121 243,167 427,057 484,671 603,551 650,41 fancouver. - 277,542 288,88 feetoria. - 356,649 353,687 662,217 624,18						13,752	10,89
Interval 228,121 243,167 427,057 484,671 603,551 650,41 Interval - 356,649 353,687 662,217 624,18	I OURI	084, 243	053,799	801,857	795, 597	902,108	904,110
Interval 228,121 243,167 427,057 484,671 603,551 650,41 Interval - 356,649 353,687 662,217 624,18	Duebec	756 078	874 904	87F 624	E70 F00	045	
Vancouver	Iontreal						439,093
7ictoria 356,649 353,687 662,217 624,18		-	-20, 201	201,001	404,071		650,414
Total for Canada 2 808 510 2 475 254 2 407 707 2 200 070		-	-	356,649	353,687		288,884 624,182
10tar for Canada 2,008,519 2,476,354 3,487,735 3,298,979 5,215,476 5,112.80	Total for Canada	2,608,519	2,476,354	3,487,735	3,298,979	F 015	5, 112, 809

TABLE V.—Total tonnages of sea-going vessels entered and cleared from principal Maritime ports during fiscal years ending June 30, 1900 and Mar. 31, 1911 and 1920.

	190	90	191	1	1920		
	Entered	Cleared	Entered	Cleared	Entered	Cleared	
Prince Edward Island-							
Charlottetown	64,055 266	90,542 5,521	48,326 2,047	85,863 9,492	3,363	4,005	
Total	64,321	96,063	50,373	95,355	3,456	4,005	
Nova Scotia—							
Amherst	15,113	16,896	19,237 3,743	18,692 11,008	1,735	460	
Arichat	4,872	2,274	4,776	4,585 2,294	1,972	1.776	
Baddeck Bridgewater	1,624 10,223	5,517 13,312	2,159 24,296	38,129	1,233 4,736	14,061 6,481	
Canso	43,297	33,552	44,398	49,826	17,717	17,717	
Cornwallis		_	~			-	
Cow Bay	3,346	2,283	22,634	19,953	3,484	5,574	
Digby	149	-	277	4,383	733	132	
Halifax	866,989	840,796	1,285,858	1,193,171	1,904,067	2,426,734	
Hantsport	14,898	7,592	16,393	6,981	26,196 1,123	3, 194 2, 177	
La Have	9,691	292	4,591	4,483	12,412	10,937	
Liverpool	17,202	21,284	23,528	31,032	13,135	27,305	
Lockeport	8,625 269,730	$\frac{8,041}{271,561}$	4,771 156,067	4,866 194,899	$\frac{1,645}{287,217}$	1,901 260,436	
Lunenburg	24,805	24,185	25,695	25,178	33,007	28,347	
North Sydney	158,255	146,411	270,963	183,337	402,426	434,206	
Parrsboro	38,747 24,225	40,538 21,065	47,053 9,501	50,327 27,736	16,490 4,153	27,731 9,249	
Port Hastings	_	1,770	15,015	18,235	187	3,700	
Port Hawkesbury	72,698	75,683	53,021	53,233	7,582	7,584	
Sandy PointShelburne	28, 139	24,512	18,187 7,374	20, 191 9, 132	10,241 3,928	8,775 4,728	
Sydney	217,907	184,924	426,000	388, 166	767, 107	849,859	
Weymouth	7, 184	9,035	8,677	12,285	1,194	2,210	
WindsorYarmouth	53,302 253,906	65,695 256,711	136,968 161,737	152,306 154,964	58,830 245,018	91,184 236,558	
Total	2,144,927	2,073,929	2,792,919	2,679,392	3,827,568	4,483,079	
New Brunswick-							
Baie Verte	11,502	12,013	2,971	7,663		40.00	
Campbellton	22,019 3,608	13,441 19,052	797 10,472	10,730 44,270	6,833 14,972	10,088 $26,778$	
Campo Bello	20, 152	9,679	17,925	22,843	30,819	25,05	
Chatham	64,720	71,103	65,090	81,785	24,335	41,66	
Dalhousie	44,694 5,153	27,010 2,426	36,885 15,160	50,781 5,078	7,610 319	18,00:	
Grand Manan	-	_	-	-	-	010	
Harvey	16,580	13,252	90 042	00 000	F 100	44 70	
Hillsboro Moncton	49,875 14,081	68,832 12,716	28,843 10,006	28,882 6,876	5,129 3,665	11,700 10,860	
Newcastle	45,116	45,951	14,474	24,702	16,099	19,73	
Newcastle North Head	11,400	10,705	23,771	22,253	26,492	28,33	
Richibucto	8,779 14,046	9,262 11,186	1,700 8,907	4,981 5,030	826 1.874	64	
St. Andrew's	40,303	36,831	35,085	39,440	34,317	33,95	
St. George	2,914	2,621	9,164	10,120	7,020	7,43	
St. John	684, 207	529, 091	1,232,360	935,822	1,107,806 15,035	1,038,40	
St. Stephen	7,318	6,323	19,495	17,416 18,763	2,038	15,85 1,44	
Total	1,066,467	901,494	1,552,011	1,337,435	1,307,189	1,290,27	
	nom tre	404 482	1 051 800	POO 10/1-	m /m		
Quebec	627,451	461,176	1.851,730	589,769	776,819	2 016 25	
Montreal	1,018,902 450,252	474, 992	1,509,445	1,609,337 1,010,658	1,674,666 1,769,999	2,016,35 $1,429,75$	
T COALLY OF THE STREET							
Victoria	906,631	889,700	1,322,890	1,759,861	1,673,470	2,249,42	

TABLE V.—Total tonnages of sea-going vessels, entered and cleared from principal Maritime ports during fiscal years ending March 31, 1924 and 1925.

Market Charles and the second	15	924	195	25
	Entered	Cleared	Entered	Cleared
rince Edward Island—				
Charlottetown	23,054	49,941	14, 100	48.31
Summerside	428	-	428	20,01
Total	23,482	49,941	14,528	48.41
		20,011	14,020	40,41
va Scotia— Amherst				
Annapolis	1,505	907	1,552	99
Arieliat	1,950	958	853	9(
Baddeck	2,389	11,197	39,921	39.80
Bridgewater	2,389 2,863	7,478	2,808	9,9
anso	30,994	29,464	22,583	21,9
rnwailis	-		-	201,00
w Bay	_			
ngby	6,754	14,848	3,974	8,9
lace Bay	1,105	1,205	1,112	1.2
lalifax	2,426,054	2,426,779	3,201,480	3,352,2
iantsport	43,582	898	34,086	2,2
oggins Mines	2,412	2,811	1,334	1,6
a Have	13,519	11,956	14,182	10.9
Laverpool	18,671	23,853	17,656	18.7
Lockeport	2,397	2,040	1,449	1,0
Louisburg,	88,248	72,110	50,683	43.4
Lunenburg	43,017	40,477	63,389	48.5
North Sydney	196,213	220,470	213,591	211.5
l'arrshoro	28,056	38,555	33,069	42.9
Pictou	4,103	8,215	6, 429	11.5
Port Hastings	15,737	8,176	27	2
l'ort Hawkesbury	10,713	13,094	9,351	12,3
Sandy Point	13,317	14,529	10,099	12,1
Shelburne	8,604	_14,238	4,812	6,4
Sydney	472,189	714,522	376,356	637,2
Weymouth	3,980	3,703	5,731	6,8
Windsor	157,688	191,724	199,797	223,6
Yarmouth	171,635	166,000	199,053	196, 1
Total	3,767,695	4,040,207	4,515,377	4,923,8
Brunswick—				
Baie Verte	-	_	_	
Bathurst	17,548	17,548	7,170	7,1
Campbellton	11,772	43,240	11,185	26,0
Campo Bello	34,527	27,021	35,497	27,2
Chatham	35,137	41,848	12,492	28,1
Dalhousie	26,544	10,380	22,639	13,0
Dorchester	-	-	-	
Grand Manan	-	-	-	
Harvey	97 000	47 000		0.7
Hillsboro	27,998 2,367	47,858	17,593	35,4
Moneton Newcastle . •	19,857	2,608 29,295	378	3
North Head	28,460	26,987	4,033	7,7
ichibueto	243	6,591	31,026	29,3
edine	210	0,001	2,254	3,8
. Andrew's.	32.953	32,576	38,956	39,3
. George	32,953 7,513	9,022	14.919	10,7
t. John	1,093,300	1,012,240	1,192,042	1,028,3
t. Martin's	13,802	13,413	26,386	27, 2
. Stephen	5,972	3,242	3,939	6
Total	1,357,993	1,323,869	1,420,509	1,284,86
pee	1,481,234	772,533	1,842,319	940,20
treal	3,051,448	772,533 3,117,327	3,421,452	3,539,3
ouver	4, 125, 310	3,729,624	4,022.142	3,862,2
8	2.841,142	2,985,062	3,160,129	3,320,13
Total for Canada		40.00		
	18, 497, 025	18,521,377	20,470,379	20,510,64

TABLE VI.—Statement showing the Total Number and Tonnage of all Vessels arrived and departed in the Maritime Provinces, by Provinces during the Fiscal Year ended March 31, 1925

	Sea-	going			Coas	twise			То	tal		
The state of the s	Arrived		Dep	arted	Arrived		Dep	parted	Arrived		Departed	
Provinces	Vessels	Tona register	Vessels	Tona register	Vessels	Tons register	Vessels	Tons register	Vessels	Tons register	Vessels	Tons register
Nova Scotia	4,946 77 4,294	4,553,404 16,527 1,435,789	5.372 122 3,627	4,967,427 51,679 1,302,413	1.527	3,550,040 259,576 601,621		3,479,794 226,211 737,338	1,604	8, 103, 444 276, 103 2, 037, 410	1,614	8,447,221 277,890 2,039,751
Total Maritime Provinces	9,317	6,005,720	9, 121	6,321,519	26,739	4.411.237	26.904	4,443,343	36.056	10,416,957	36,025	10,764,862
Grand total for Canada	20.436	20.470.379	20.420	20,510,617	87, 185	40.480.372	87.091	40.139.447	154,033	78,566,856	154.522	79,992,014

TABLE VII.—Index Numbers showing trend of clearances in principal Maritime Ports, 1870-1925

Port	1870	1880	1890	1900	1911	1920	1921	1922	1923	1924	1925
Charlottetown	-	100	57-65	132 · 13	125 - 30	5.85	25.04	59-40	87 - 49	72.88	70 - 50
Halifax Liverpool Louisburg Louisburg North Sydney Pietou Port Hawkesbury Sandy Point Sydney Windsor	100 100 100 100 100 100 100	174·10 35·72: 164·39 225·23 31·02 28·82 52·22 137·79	239-34 145-98 100-00 124-95 274-24 18-22 35-87 175-54 129-31	305-68 122-50 3.919-19 108-86 688-93 12-96 122-98 209-13 125-79	433 · 78 178 · 61 2 · 812 · 80 113 · 33 862 · 68 17 · 06 86 · 50 100 · 00 438 · 98 291 · 62	892·25 157·16 3.759·64 127·60 2.043·13 5·69 12·32 43·45 961·11 174·59	580 · 49 131 · 56 2 · 341 · 03 104 · 00 1 · 413 · 73 7 · 90 26 · 32 44 · 73 1 · 052 · 88 252 · 90	061-70 119-68 588-61 128-40 1,350-22 1-24 19-04 72-18 752-32 213-14	869 · 90 166 · 03 1, 711 · 24 151 · 42 1, 308 · 18 5 · 25 16 · 46 67 · 26 955 · 07 337 · 69	882-27 137-29 1.040-70 182-20 1.037-41 5-05 21-28 71-96 808-05 367-09	1,218-71 107-90 626-93 218-58 995-25 70-98 20-93 60-33 720-64 428-26
Yarmouth Campbellton Campo Bello Chathum North Head Newcastle Richibucto St. Androw's St. John. St. Martin's	100 100 100 100 100	104-60 139-80 245-62 104-90 82-37 1,320-46 109-94	324-08 100-00 78-71 166-24 135-64 73-42 1,651-87 120-87	921-93 141-97 277-73 160-70 100-00 158-55 40-92 500-76 126-76	329 · 88 655 · 47 184 · 84 207 · 87 85 · 23 22 · 01 536 · 23 224 · 21	849-55 109-52 718-94 94-16 204-65 68-11 - 461-71 248-79 91-06	584-37 227-88 746-74 119-09 205-50 44-68 44-68 539-31 218-95 104-71	667 · 096 152 · 91 771 · 94 31 · 56 265 · 27 30 · 06 6 · 91 453 · 23 196 · 83 76 · 15	573-39 601-13 755-04 106-00 259-45 84-73 54-90 407-33 245-79 89-52	596-16 322-21 775-35 94-58 252-10 101-08 - 442-91 242-52 77-02	704-42 194-22 780-81 63-63 274-5 26-91 535-22 246-31 156-30
Quebec Montreal Vancouver Victoria	100 100 -	84 · 85 189 · 32	65-06 267-48 100-00 176-48	68·33 431·56 164·42 251·55	87·39 661-82 349·85 497·58	65 · 56 829 · 21 494 · 92 635 · 99	78.89 827.36 611.03 526.82	44·31 1,066·98 899·36 702·75	88-70 1,382-91 1,062-06 854-47	114·47 1·281·97 1·291·05 843·98	139 · 3 1, 455 · 5 1, 336 · 9 939 · 7
Prince Edward Ialand Nova Scotia New Brunswick	100·00 100·00	100·00 111·48 121·69	53-23 172-37 138-29	118·72 248·66 137·89	117·85 321·25 204·56	4-95 537-51 197-35	21·20 425·72 182·70	50·41 396·39 155·82	74-09 442-82 209-24	61·72 494·41 202·49	59-8 590-3 196-5
Canada	100-00	133-22	206-47	279-14	419-08	534-43	500 - 75	564-31	693-86	747-93	828 - 2

Reverting to Tables II and III, it may be pointed out that values of imports and exports should be "corrected" in terms of the fluctuations in the purchasing power of the dollar, if they are to be used as a measure of the volume of traffic. In Table VIII the leading import and export figures have been thus corrected back to 1890 in accordance with the official index number of wholesale prices, which dates from that year.

TABLE VIII.—Imports and Exports corrected as to Price Changes, 1890-1925 IMPORTS

Year	Maritime	Provinces	Total I	mports	Index
A COM	Original Valuations	Corrected Valuations	Original Valuations	Corrected Valuations	Number of Wholesale Prices(1)
1890 1895 1900 1905 1910 1915 1920 1925	16,510,401 14,050,836 17,457,212 21,075,924 25,520,598 29,924,480 67,942,245 48,701,444	17,753,110 17,651,800 20,346,400 24,004,460 27,063,200 27,228,821 27,902,359 30,381,437	112,765,584 105,252,511 180,804,316 261,925,554 375,833,016 587,439,304 1,064,528,123 796,932,537	121, 253, 300 132, 226, 700 210, 727, 600 298, 320, 600 398, 550, 300 534, 521, 650 437, 177, 800 497, 150, 670	93.0 79.6 85.8 87.8 94.3 109.0 243.5

^{(1) 1890-1913} unweighted. 1913-1925 weighted.

EXPORTS

Year	Maritime	Provinces	Total F	Index	
T CON	Original Valuations	Corrected Valuations	Original Valuations	Corrected Valuations	Number of Wholesale Prices(1)
1890 1895 1900	17.334,019 19,131,684 28,124,008 33,874,987	18,638,730 24,034,779 32,778,564 38,581,990	96,749,149 113,638,803 191,894,723	104,031,340 142,762,310 223,653,523	93 - 4 79 - 4 85 - 3
1910 1915 1920 1925	52,109,835 84,577,195 220,230,436 122,771,431	55, 259, 634 76, 958, 321 90, 443, 711 76, 588, 541	203,316,872 301,358,529 490,808,877 1,286,658,709 1,081,361,643	231,568,191 319,574,261 446,595,884 528,401,933 674,586,177	87 · 94 · 109 · 243 · 160 ·

^{(1) 1890-1913} unweighted. 1913-1925 weighted.

INDEX NUMBERS]

Imports—Index Numbers	Maritime Provinces		All Canada	
1890=100	Actual Valuation	Revised Valuation	Actual Valuation	Revised Valuation
Year 1895 1900 1905 1910 1915 1920 1925	85·10 105·73 127·65 154·57 181·25 411·51 294·97	99 · 43 114 · 61 135 · 21 152 · 44 153 · 37 157 · 17	93·34 160·34 232·27 333·29 520·94 944·02 706·72	109·05 173·79 246·03 328·69 440·83 360·55 410·01

Exports—Index Numbers	Maritime 1	Provinces	All Ca	nada
1890=100	Actual Valuation	Revised Valuation	Actual Valuation	Revised Valuation
Year				
1895	110.37	128 - 95	117-46	137-2
1900,	162 - 25	175.86	198-34	214.9
1905	195 - 42	207.00	210-15	222.5
1910	300 - 62	296 - 48	311.48	307 - 1
1915	487-93	412.89	507 - 30	429.2
920	1.270.51	485 - 25	1.329-89	507 - 9
1925	708 - 27	410.91	1.117.70	648 - 4

Taking the original valuation of exports through the Maritime Provinces in 1890 as a base or equal to 100, we find that these exports increased in quinquennial periods as follows: 1895, 110·37; 1900, 162·25; 1905, 195·42; 1910, 300·62; 1915, 487·93; 1920, 1,270·51, 1925, 708·27. Correcting these figures, however, by the index number of wholesale prices we find that exports through the Maritimes for later years, expressed in percentages of 1890, were as follows: 1895, 128·95; 1900, 175·86; 1905, 207·00; 1910, 296·48; 1915, 412·89; 1920, 485·25; 1925, 410·91. Similarly in the case of all Canada the increase on the corrected basis is much less than when the original valuations have been used.

From the above it will be seen that not only on the basis of the prices current in the various years but also on the basis of the valuations as revised, exports through the Maritime Provinces up to 1920 lag but slightly behind the total increase for all Canada. In other words the growth of the Maritime export trade, as shown by these figures of valuation, was practically equal to the growth of the export trade of all Canada. This is not only true of 1915 and 1920 which were abnormal years but is also true for 1910. In 1925, however, the revised figures of valuation show the exports in the Maritimes were 410.91 per cent of the exports in 1890, while the exports from all Canada based on revised valuations were 648.45 per cent of those of 1890. This would seem to indicate that this trade through the Maritimes has seriously declined in the last five years. In the matter of imports the volume handled through Maritime ports has not grown on an equal basis with the total importations into Canada. In 1925, on the basis of the revised figures, imports into the Maritimes were 171.13 per cent of those of 1890, whereas total importations into Canada were 410 per cent of those of 1890.

5. Intercolonial and Prince Edward Island Railway Records

The accompanying table (Table IX) shows the number of passengers and tons of freight carried on the Intercolonial and Prince Edward Island Railways, in comparison with all Canadian Railways, back to 1876, the first year for which statistics are available. The statistics of the Prince Edward Island and Intercolonial were included with those of the National Transcontinental and other Canadian Government railways in 1920, and with the Canadian National System from 1923 on; they consequently cannot be separately recorded beyond 1919.*

Freight traffic, it will be noted, did not increase relatively as rapidly on the Prince Edward Island Railway as on Canadian railways as a whole, but on the Intercolonial the rate of increase was very similar from 1897 to 1915, and more rapid from 1915 to 1919. This no doubt was partly due to shipments of war materials which passed through the Maritime Provinces but did not wholly originate in them.

Since 1921, a record by provinces of the tons of freight originated by the railways and received from foreign connections is available. Table X contains the figures for the Maritime Provinces. They show approximately the same rate of decrease in 1924 from the peak of 1923 as all Canada, but they continued to decrease in 1925 when Canada as a whole recovered. The record is of originating tonnage only and is less than total tonnage by the amount of freight originated on one railway and delivered to another for furtherance.

The Intercolonial of course does not handle all the freight of Nova Scotia and New Brunswick; since the Canadian Pacific Railway entered the field the Intercolonial has possibly carried an increasingly smaller proportion of the total. The record, however, shows, as above stated, that its freight traffic in the two provinces has developed up to 1919 at least as rapidly as in Canada as a whole, while for 1921-1925 the tonnage originating in these provinces was not greatly below its usual proportion of the total for Canada.

^{*} The "all Canadian railways" tonnage in the table includes duplication where two or more railways handled the same freight.

TABLE IX.—Number of Passengers and tons of Freight carried by the Intercolonial and Prince
Edward Island Railways

		iward Islan	a realiways			
Year Ended June 30	Intered Rail		Prince Edw Rail			nadian ways
	No. of Passengers Carried	Tons of Freight Carried	No. of Passengers Carried	Tons of Freight Carried	No. of Passengers Carried	Tons of Freight Carried
1876	547,930	342,196	93,968	28,358	5,544,814	6,331,757
1877	613,428	421,327	93,478	41,039	6,073,233	6,859,796
1878	618,957	522,710	111,428	38,923	6,443,924	7,883,472
1879 1880	640,101 581,483	510,861 561,924	105,046	38,668	6,523,816	8,348,810
1881	631,245	725,577	90,533 102,937	37,208 45,336	6,462,948 6,943,671	9,938,858 12,065,323
1882	779,994	838,596	118,436	48,315	9,352,335	13,575,787
1883	878,600	970,961	117, 162	51,920	9,579,984	13, 266, 255
1884	920,870	.1,001,163	118,988	51,841	9,982,358	13,712,269
1885	914,785	970,069	130,423	57,346	9,672,599	14,659,271
1886	889,864	1,008,545	120,374	57,913	9,861,024	15,670,460
1887	940, 144 996, 194	1,131,334 1,275,995	130,067	53,587	10,698,738	16,356,335
1889	1,091,189	1,275,995	131,246 152,780	59,603 55,682	11,416,791 12,151,105	17, 172, 759
1890	1,170,249	1,353,417	133,099	51.604	12, 131, 103	17,928,626 20,787,469
1891	1,298,304	1,304,534	145,508	59,511	13,222,568	21,753,021
1892	1,297,732	1,264,575	139.389	51,064	13,533,414	22, 189, 923
1893	1,292,878	1,388,080	132,111	56,718	13,618,027	22,003,599
1894	1,30(,062	1,342,710	123,727	53,577	14, 462, 498	20,721,116
1895 1896	1,352,667 1,471,866	1,267,816 1,379,618	125,089	48,525	13.987,580	21,524,421
1897	1,501,690	1,296,028	122,586 121,498	46,395 52,147	14,810,407 16,171,338	24, 266, 825
1898	1,528,444	1,434,576	126,510	57,539	18, 444, 049	25,300,331 28,785,903
1899	1,603,095	1,750,761	129,667	57,968	19,133,365	31,211,753
1900	1,791,754	2,151,208	147,471	62,247	21,500,175	35,946,183
1901	2,025,295	2,111,310	157,793	73,696	18,385,722	36,999,371
1902	2,186,226 2,404,230	2,385,816 2,790,737	184,748 205,265	75,381	20,679,974	42,376,527
1904	2,663,156	2, 664, 149	224, 567	106,519 86,286	22,148,742 23,640,765	47,373,417 48,097,519
1905	2.810.960 1	2,782,257	235, 194	73,969	25, 288, 723	50,793,957
1906	2,737,160	3, 156, 189	256.092	87,162	27,989,782	57,966,713
1907	2,672,926	3,695,641	303,437	92,347	32,137,319	63,866,135
1908	2,866,408	4,008,541	323,935	98,590	34,044,992	63,071,167
1909	2,933,754 3,176,154	3,552,739 3,984,054	331,777 352,528	111,440 103,100	32,683,309	66,842,258
1911	3, 286, 942	4,254,803	361,458	109,345	35,894,575 37,097,718	74,482,866 79,884,282
1912	3,473,273	4,674,692	404,564	124,242	41,124,181	89,444,331
1913	3,867,735	5,316,461	436.833	122,714	46,230,765	106,992,710
1914	3,927,559	5,082,484	443,129	116,426	46,702,280	106,393,989
1915	3,626,897	4,442,510	404,598	122,257	46,322,035	87, 204, 833
1917	4,305,441	6, 182, 949 7, 120, 511	424,467 393,758	116,856 159,041	49,027,671	109,659,088
1918	4,632,016	8, 177, 862	376, 891	193,470	53,749,680 44,948,638	121,916,272 127,543,687
1919	4,809,142	8,159,265	365,333	216,007	43,754,194	116, 699, 572
						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Year Ended Dec. 31					17 01- 17-	
1919		-	-	-	47,940,456	111,487,780
1921		_			51,318,422 46,793,251	127, 429, 154 103, 131, 132
1922	_			_	44,383,620	108, 530, 518
1923			-	and a	44.834,337	118,289,604
1924		Aug.	-	_	42,921,809	106, 429, 355
1925,	-	-	-		41,458,084	109,850,925

TABLE X.—Railway Freight traffic—Tons of Freight Originated and Received from Foreign Connections

Year Ended Dec. 31	Prince Edward Island	Nova Scotia	New Brunswick	Total Maritimes	CANADA
1921	92,411	5,565,494	2,193,474	7,851,379	83,894,436
1922	102,536	5,621,299	2,535,483	8,259,318	88,854,800
1923	95,263	6,526,241	2,774,749	9,396,253	103,757,559
1924	112,375	5,943,907	2,764,864	8,821,146	93,650,916
1925.	138,231	4,221,222	2,713,063	7,072,516	96,239,379

CHAPTER V.—WEALTH AND INCOME OF THE MARITIME PROVINCES

Wealth.—The total estimated capital wealth of the Atlantic Maritime Provinces of Canada in 1921, as computed by the so-called "inventory" method of adding together the values of material property of various kinds, amounted to \$1,470,206,415, or \$1,470 per capita. Of this total, \$119,912,060, or \$1,353 per capita, was allocated to Prince Edward Island; \$752,697,986, or \$1,437 per capita, to Nova Scotia; and \$597,596,369, or \$1,541 per capita, to New Brunswick. The national wealth of Canada in 1921 by this method of estimation was \$22,195,000,000, or approximately \$2,525 per capita, so that the wealth of the Maritime Provinces is 6-6 p.c. of that of the Dominion as a whole. (Figures are given in Table 1.)*

The capital invested in farms, including implements and live stock, as determined by the last decennial census (1921) was the largest item, aggregating \$327,645,210, or 22·29 per cent of the whole. The value of agricultural production in 1921, \$114,123,000, is included as representing the average stocks of agricultural goods in the possession of farmers and traders and the amount invested in the preparation for the new crop. Thus the agricultural wealth of the three Maritime Provinces may be totalled as \$441,768,210, or 30·05 per cent of the entire estimated capital wealth of that section.

The second largest element in total estimated capital wealth was urban real property. This includes the assessed valuations of taxed and exempted property, to which was added one-third to provide for under-valuation by assessors, and for roads, bridges, sewers, and other public works. The estimated value, as based on returns for 1921 received in the Dominion Bureau of Statistics from the municipalities, was \$239,799,606, or 16.31 per cent of the total wealth of the Maritimes.

The wealth invested in steam railways, computed from the cost of road and equipment, and distributed by provinces on the basis of mileage, constituted the next largest item, amounting to \$200,947,000, or 13.67 per cent of the total.

Other important items include the capital invested in forest industries, amounting to \$158,990,000, or 10·81 per cent; household furnishings and other personal property, including automobiles, amounting to \$102,200,000, or 6·95 per cent; raw materials, stocks in process and finished products of manufacturing establishments, to which was added 100 per cent as an estimate of the value of manufactured goods in the hands of dealers, the whole amounting to \$86,627,018, or 5·89 per cent; and capital employed in mines, which totalled \$85,269,026, or 5·80 per cent

On the basis of the 1921 population of 1,000,328, per capita wealth invested in farms and equipment was \$327; in urban real property, \$240; in railways \$201; in forests, etc., \$159; and in household furnishing, clothing and motors \$102. Further details may be examined in Table I. Historical data on a comparable basis are not available.

[•] The inventory method of computing national wealth includes, as above stated, only natural wealth which has been appropriated. It does not include the values of undeveloped natural resources, nor does it make any allowance for mortgages, stocks, bonds, etc., which merely represent material property. Thus for Nova Scotia it includes the value of the machinery and other capital equipment used in coal mining, but not the coal in the mine; it includes the boats used for fishing but not the fish which the boats are used to catch; it includes the turbines and dynamos used in developing water power, but not the waterfalls themselves. In the case of forest wealth, partial exception is made by the inclusion of accessible raw materials. Such an estimate has a distinct value; but when the purpose is comparative as between different provinces, it tends to understate the wealth of any province which is especially rich in mines, fisheries or water power. The capital employed in the Nova Scotia coal mines is probably equivalent only to about three years' purchase of the coal output. It appears probable also that this method of estimating wealth hardly does justice to the Maritimes, or allows for all the property values owned by their people. Since the Maritimes are one of the oldest parts of Canada, their people have had more time to accumulate wealth, and in all probability own considerable wealth which is physically situated in other parts of the country or elsewhere.

TABLE I.—Estimated Capital Wealth of Canadian Maritime Provinces by Provinces and Chief Items, 1921

(000's omitted)

	Prince Edward Island	Nova Scotia	New Brunswick	Maritime Provinces	CANADA
	2	8	S	. 8	s
Farm Values (land, buildings, imple-			The state of the s		
ments and machinery, and live stock:					
census 1921)	58,978	136,842	131,826	327,646	6,586,648
Agricultural Products in the possession	01 401	11 001	50 450	444 400	4 000 000
of farmers and traders, 1921	21,431	44,234	48,458	114,123	1,396,223
Total Agricultural Wealth, 1921	80,409	181,076	180,284	441,769	7,982,871
a contragation from the annual and a contragation of the contragat	00, 200	101,010	100,201	211,700	1,502,011
Mines (capital employed, 1921)	_	82,284	2,985	85,269	559,514
Forests (estimated value of accessible					
raw materials, pulpwood, and capital					
invested in woods operations)	-	58,150	100,840	158,990	1,197,660
Fisheries, (capital invested in boats,	Eco	0 707	0.010		25.010
gear, etc., in primary operations, 1921).	780	8,765	3,316	12,861	25,649
Central Electric Stations (capital invest-	435	3,987	2,523	6,945	239,676
ed, 1921) Manufactures—machinery and tools, 1921	416	23,466	23.678	47,560	610,069
Manufactures—materials on hand, stocks	210	20,100	20,010	11,000	010,000
in process; estimate for amount in					
dealers' hands, 1921	863	32,924	52,840	86,627	1,362,536
Steam railways (investment in road and					
equipment)	15, 197	79,320	106,430	200,947	2,159,298
Electric Railways (investment in road		40.000	2 000	40 505	100 #10
and equipment)	6+0	10,628	2,899	13,527	186,519
to March 31, 1922)		648		648	141, 425
Telephones (cost of property and equip-		020		030	131, 340
ment)	599	6,371	2,914	9,884	158,678
Urban Real Property (assessed valua-					
tions and exempted property, and					
estimated for under valuation by	0.004				
assessors, and for roads, sewers, etc.).	8,931	177,891	52,978	239,800	5,751,505
Shipping estimated from 1918 census and distributed according to tonnage owned	781	12,538	3,305	16,624	100.000
Imported Merchandise in store being one	101	12,000	0,000	10,024	100,000
half imports during year 1921	501	9,450	13,604	23,555	373,902
Household furnishings, clothing, car-	001	0,100	20,002	20,000	010,002
riages, motors, etc	9,000	53, 100	40,100	102,200	1,144,000
Specie held by Government Chartered					
Banks and estimated for public hold-	0.000	10 100	0.000	00.000	000 000
ings (a)	2,000	12,100	8,900	23,000	202,000
Total estimated wealth, 1921	119,912	752,698	597,596	1,470,206	22,195,302
- Comes Distriction Control and Miles	220,012	102,000	001,000	4,210,200	22/100/002
Percentage	0.5	3-4	2.7	6.6	100
Percentage distribution of Canadian					
Population by provinces and territories,	1.00	2 00		44.00	
1921	1.01	5.96	4.41	11.38	100

⁽a) The specie holdings are here distributed among the several provinces according to population.

Income.—We have no direct statistics of total income in Canada, and perhaps the best measure on the subject is that of general production. As shown elsewhere (Chapter III), the net value of production in the Maritime Provinces in 1924 was \$192,501,000. These values were created by approximately two-thirds of the gainfully employed persons, i.e., those engaged in the various kinds of "production proper" such as agriculture, forestry, fisheries, trapping, mining and manufacturing. But the remaining one-third of the gainfully employed are also "producers" in the larger sense of the word, being engaged in activities such as transportation, trade, administration, the professions, domestic and personal service. We may thus add one-half to the total value of production as shown above, as a rough estimate of the value in dollars of the total productive activity of the Maritime people, according to the economist's definition

of production,—which approximates to the concept of national income.* According to this broader interpretation, Maritime production in 1924 represented created values of approximately \$288,760,000.

In order to arrive at the figure of national income, however, certain considerable deductions from the above amount must be made—deductions especially connected with the maintenance of the industrial equipment of the country, providing not only for depreciation but for obsolescence or replacement by new and improved apparatus. After these deductions have been made the 1923 income of the Maritime people is estimated at somewhere in the neighbourhood of \$270,000,000 in 1924, or \$265 per capita. The similar figure for all Canada is approximately \$4,200,000,000, or \$455 per capita.†

Income Tax Statistics.—A table is appended (Table II) showing income reported to the Income tax authorities for each of the Maritime Provinces, 1924 and 1925. Such data are often used in comparing the prosperity of different localities, and when used with care they have a value for this purpose. It is necessary, however, to observe the following cautions among others:—

- (1) The income reported to the income tax authorities is mainly taxable income, i.e. income of persons or corporations which exceeds the limit of exemption. This limit has frequently been changed, with the result that the income passing under survey changes also. Persons whose incomes are too small to be taxable are not ordinarily required to make returns. Under the present law, a community containing a few rich men and many poor ones would appear more prosperous by this criterion than one containing a large population of families with moderate incomes.
- (2) Much of the income received in kind is not reported to the income tax authorities, e.g. home-grown produce consumed on the farm. Similarly the person who owns a house and rents it to another must report the net rent as a part of his income; but the person who owns a house and occupies it himself is not required to pay income tax on its rental value.
- (3) There is doubtless considerable understatement of income.
- (4) Corporate incomes are usually reported at their head offices although they may be earned and distributed elsewhere. This consideration doubtless reduces the income of the Maritime Provinces as shown in tax returns.
- (5) A country may collect income taxes on income arising within its borders which is subsequently paid to foreign capitalists or workers. Thus the difference between the income of Ontario per capita and that of Nova Scotia may be partly due to investments of foreign (extra-provincial) capital in Ontario, and may be partly counterbalanced by interest payments due from Ontario enterprises to the owners of capital.

TABLE II.-Income Assessed for Income Tax.

1923–24	Estimated Population	Total Assessment, 1923–24	Per Capita 1923-24
Prince Edward Island Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba Saskatchewan. Alberta. British Columbia.	88,020 530,000 395,500 2,439,000 3,019,000 637,400 797,000 621,000 544,000	\$ 2,301,305 33,785,631 22,809,357 296,331,345 473,015,674 92,286,842 50,778,824 53,310,467 81,525,976	\$ 26.15 53.75 57.67 121.49 156.68 144.79 63.71 85.84 149.86

^{*}This method, however, probably adds too much to the value of rural production and too little to the value of urban production, seeing that transportation, banking and finance, retail and wholesale merchandising, and professional and domestic services are particularly characteristic of the larger cities.

[†]As in the case of capital wealth, this estimate of income, being based upon production, probably underestimates the income of the Maritime Provinces, since their people, as an old-established and "creditor" type, doubtless receive considerable income arising out of investments in the newer parts of the country and elsewhere.

TABLE II.-Income Assessed for Income Tax, 1923-24 and 1924-25-Concluded

1924-25	Estimated Population	Total Assessment, 1924-25	Per Capita 1924-25
		\$	\$
Prince Edward Island	87,700	1,590,134	18.13
Nova Scotia	533,600	22,613,331	42.38
New Brunswick	399,400	19,500,707	48.82
uebec	2,480,000	288, 731, 449	116.42
TRUEFIO,	3,062,000	436,971,432	142 71
lanitoba,	647,000	73,497,253	113.60
askatchewan	815,000	40,415,300	49.59
lberta	637,000	41.874.721	65.74
British Columbia	553,000	72,390,078	130.90

Indexes of Prosperity

As akin to the subject of wealth and income certain other data may be employed for comparing the general level of prosperity in the Maritime Provinces with that of the other provinces.

Use of Motor Vehicles.—Motor vehicle registrations are an indirect index of prosperity.* A comparison of the various provinces for 1924 shows that there was one registered car for the following number of persons:

Province			Number of persons	per car registered.
Prince Edward Island	db		***************************************	34.0
Nova Scotia				25.7
New Brunswick Quebec				20.0
Ontario				9-9
Manito ba				14.6
Saskatchewan				11.5
British Columbia				11.4
Yukon Territory		* * * * * * * * * * * * * * * * * * * *		33.5

The above comparison includes commercial vehicles and dealers' cars. Passenger cars are perhaps a better index, and the following statement presents the figures relating thereto:

Province	Percentage of cars which are passenger cars	Or proceeds
Prince Edward Island	05.0	95.0
Nova Scotia	95·2 87·8	35.8
New Brunswick	91.7	29.3
Quebec	83.1	21·8 35·0
Ontario	88.0	33.0
Manitoba	92.1	15.9
Saskatchewan	91.5	
Alberta	93.7	12.6
British Columbia	81.1	13.3
Yukon	91.1	14.1
A MANUAL 2 PROBLEM 1 TO THE TOTAL 2 PROBLEM 2	68 - 5	49-0

These figures must of course be interpreted in the light of local considerations, such as the proportion of rural population prevented by lack of roads or other considerations from using motor cars,—also the presence of urban populations among whom commercial vehicles are much in use.

^{*}See the Canada Year Book 1925, p. 621, for tables showing the number of motor vehicles registered in each province from 1907 to 1924, together with a classification of the types of motor vehicles registered in 1924.

In Prince Edward Island, where the registration is low, the use of automobiles did not begin until 1913, when it was already well under way in other provinces. In a conservative community the use of automobiles may lag behind the development of the wealth of the community.

Use of Telephones.—The following data are taken from the Annual Report on Telephone Companies of the Dominion Bureau of Statistics.

Province	Instruments in use	Persons per telephone
Prince Edward Island Nova Scotia New Brunswick. Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	5,437 38,498 28,128 202,392 473,247 67,022 99,035 67,330 91,177	16·15 14·01 14·20 12·28 6·47 9·65 8·23 9·46 6·08

Telephones are particularly necessary for the business and professional classes, manufacturers, bankers, brokers, and generally for people who depend on speedy communication. They are therefore likely to be found in greater numbers in cities. The great use of telephones in Ontario and British Columbia is therefore not so much a sign of exceptional prosperity in these provinces as a result of urbanization. It has probably more meaning in comparisons between the prairie provinces and the Maritimes.

Sales of Life Insurance.—Monthly figures published by the Life Insurances Sales Research Bureau of Hartford, Conn., give the sales of new paid-for ordinary life insurance (excluding group policies) in each province as reported by 15 companies which were doing 83 per cent of all business in Canada in January, 1923. The figures for one year have been taken, to eliminate the seasonable fluctuation, increasing them by one-fifth to allow for business transacted by the smaller companies which do not report to the Hartford bureau. The totals thus obtained are still incomplete, since they fail to allow for business done by friendly societies and fraternal organizations; but they have some value for comparative purposes.

The per capita sales of life insurance in the nine provinces of Canada for the twelve months ending June, 1926, as estimated in this way were as follows:

Prince Edward Island\$	28 - 6
Vana Saatia	32 1
New Brunswick	55.5
Quebec Ontario	66.8
Manitoba	62.8
Contratabarran	48.7
All-outo	01.0
British Columbia	$67 \cdot 1$

On the basis of this comparison it appears that the leading market for life insurance is at present found in British Columbia, followed by Ontario, the Prairie Provinces and Quebec. It would be preferable to take the figures for a number of years, as they would be less likely to be distorted by temporary business conditions such as a good crop, but the Canadian figures have only recently been begun.

A weakness of this index lies in the fact that life insurance sales depend largely on the constitution of the population. The best "prospects" for life insurance are probably young married men. But the emigration which is taking place from the Maritime Provinces is removing precisely these "prospects". For this reason, and also for the reason that urban communities are, on the whole, better fields for insurance, the sales of life insurance probably lead to an underesitmate of the savings of the Maritime Provinces. A somewhat better index might be provided by the amount of life insurance in force at any given time, but this is not available by provinces.

Building.—Building contracts awarded may be taken as an index of prosperity. They are doubtless more accurate than building permits, which may cover work that is eventually not carried out. Building contracts per head, for the years 1923-1925, were as follows (figures for the principal cities):

	1923	1924	1925
Maritime Provinces. Quebec. Ontario. Western provinces.	\$ 8,58 41,40 51,00 17,65	\$ 8.43 36.10 44.50 15.87	\$ 8.70 50.20 39.65 10.35

Rapidly changing prices before 1923 and the large amount of extra building which was necessitated in Halifax by the explosion vitiate earlier records. The figures seem to show greater prosperity in Ontario and Quebec than in the eastern and western provinces. Here, too, there are limits to the value of the comparison. Part of the new building in Ontario and Quebec is to accommodate an increasing population; yet a stationary population might still be enjoying prosperity. Moreover, part of the new building may represent speculative over-production. Again, office buildings in the cities of Ontario and Quebec are largely occupied by enterprises which carry on business in all parts of the country and draw their profits from a wide area; the erection of a new factory or office building in Toronto or Montreal may therefore reflect a successful selling campaign in the Prairie Provinces or in the Maritimes, and may indicate prosperity in the cast or west as well as in Ontario. Wherever the initial purchasing power may have been, the industrial and commercial centres will share the result in the form of building contracts.

Other.—An index which is used in the Dawes plan of estimating Germany's ability to pay reparations, is the consumption of various luxuries, such as tobacco, sugar, tea, coffee, alcohol, etc. None of these tests can be applied to the Maritime Provinces, as provincial statistics of consumption are not available. Various plans have been proposed to measure consumption, such as the use of sales tax collections, luxury taxes, gasoline taxes, taxes on theatre tickets, etc. but for obvious reasons they are not applicable under the methods of collection followed in Canada. Bank clearings are also inapplicable because of lack of similarity in the local conditions they reflect, e.g presence of stock or grain exchanges.

CHAPTER VI.-PRICES AND COST OF LIVING IN THE MARITIME PROVINCES-PRODUCERS' COSTS.

In the present chapter a review is given of recent trends in the Cost of Living in the Maritime Provinces, compared with similar conditions elsewhere in Canada and also in contiguous regions of the United States. Added to this are the results of a special investigation conducted by the Bureau of Statistics into living costs and also costs of production on fruit farms in the Maritime Provinces, compared with similar costs in apple-growing districts of New York State, applegrowing being selected as a fairly typical industry.

General Trends since 1913

The general trend of the cost of living in the Maritimes as compared with other provinces since 1913 is shown in the accompanying table of index numbers (Table I), which includes foods, fuel, lighting and rentals. A typical family budget in terms of average prices for the whole Dominion in the year 1913 was first worked out, the numbers being percentages of that total. It

TABLE I.—Index Numbers of a Family Budget of Staple Foods, Fuel and Lighting, and Rent, by Provinces in Canada

Dominion Average 1913=100 STAPLE FOODS

						1017	1010	1919	1920	1921	1922	1923	1924	1925
	Province	1913	1914	1915	1916	1917	1918	1919	1920	1951	1000	7.540	.,	
1 2 3 4 5 6 7 8 9	Nova Scotia Prince Edward Island New Brumswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	99.3 86.4 96.0 93.6 98.2 107.3 112.4 113.5 124.4	112.7	106 · 7 90 · 2 104 · 7 100 · 7 104 · 6 110 · 0 113 · 1 111 · 9 118 · 6	118-7 103-2 118-6 115-5 120-5 118-3 120-8 119-8 127-9	155 · 3 133 · 4 152 · 9 151 · 9 158 · 1 146 · 8 151 · 4 157 · 4 161 · 2	178 · 8 156 · 4 175 · 8 172 · 3 177 · 8 171 · 0 180 · 0 186 · 5	188-3 192-7 191-3	221-0 193-4 214-1 206-7 225-2 220-2 215-6 218-0 232-0	169 · 3 152 · 2 167 · 1 158 · 0 170 · 4 162 · 6 164 · 7 163 · 6 180 · 2	129-5 142-5 135-2 140-4 437-3 138-6 137-4	148 · 8 130 · 0 146 · 6 137 · 0 142 · 7 136 · 4 144 · 1 138 · 2 155 · 5	144 · 1 128 · 9 144 · 7 132 · 2 139 · 5 133 · 1 137 · 7 139 · 4 154 · 1	149.5 134.8 147.7 139.3 145.0 144.7 148.2 149.9 164.6
				FUEL	AND	LIGH	TING							
1 2 3 4 5 6 7 8 9	Nova Scotia Prince Edward Island New Brunswick. Quebec. Ontario Manitoba Suskatchewaa. Alberta British Columbia	80·1 77·2 88·0 93·7 95·2 122·6 139·2 86·6 117·8	94-3 94-6 124-0 136-7 89-6		95 · 2 97 · 4 123 · 8 129 · 0 91 · 0	134·0 123·7 141·7 142·6 92·0	130 · 3 146 · 4 145 · 3 157 · 6 157 · 4 158 · 4 159 · 4 101 · 3 135 · 8	158 · 1 161 · 8 156 · 5 165 · 9 174 · 1 178 · 8 119 · 5		194 · 0 193 · 9 198 · 1 197 · 6 203 · 1 221 · 4 216 · 5 140 · 4 184 · 5	174 · 6 173 · 1 183 · 1 190 · 2 194 · 5 205 · 8 129 · 7	163-8 196-6 174-8 183-8 194-1 203-9 201-7 134-8 156-1	175-4 183-0 195-3 195-2	174 · 3 164 · 9 172 · 8 179 · 6 188 · 5 186 · 4 128 · 3
					RE	NT								
1 2 3 4 5 6 7 8 9	Nova Scotia Prince Edward Island New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	36 - 63 - 73 - 6 84 - 6 152 - 198 - 156 - 156 - 1	30-2 70-4 73-0 88-2 137-8 159-1 145-4	36-2 71-5 73-7 79-8 102-3 114-3 114-9	43.5 72.2 78.5 79.2 100.9 106.5 106.5	46-6 76-1 80-2 90-1 109-7 110-8 111-3	55-8 85-0 77-2 98 117-0 128-1 120-1	70-3 99-2 75-7 110-7 121-1 2 157-8 6 134-0	84-5 119-8 93-0 154-8 159-6 178-1 154-7	128-1 106-2 147-2 181-2 180-8 158-3	1 131-1 1 131-1 2 113-4 2 152-6 2 181-2 3 182-5 5 161-2	121-7 138-7 118-0 151-7 181-2 184-8 157-7	123 - 8 112 - 1 121 - 1 154 - 5 184 - 2 187 - 0 150 - 8	122.5 142-1 120.8 152.8 184.2 184.2 148.0
				GI	RAND	TOTA	AL.							
1 2 3 4 5 6 7 8 9	Saskatchewan	68 83 86 93 124 145 124	70 - 1 8 89 - 6 5 88 - 2 96 - 1 9 122 - 6 5 132 - 6 7 120 - 6	70-3 91-3 7 90-3 91-9 108-9 115-3 109-9	80 - 100 - 100 - 100 - 100 - 100 - 100 - 110 - 110 - 1117 - 117 - 117 - 1	101-7 122-3 122-3 124-9 2 130-6 1 136-3 1 136-3 5 132-8	120-1 6 140- 9 137- 1 147- 2 151- 3 157- 149-	132 · 1 5 152 · 0 7 140 · 1 7 158 · 1 0 163 · 1 8 178 · 1 0 162 ·	154-5 177-8 166-0 187-1 197-4 1 197-4 1 188-6	138 - 157 - 145 - 163 - 176 - 177 - 158 -	3 131-3 9 143-6 6 134-3 5 151 8 160- 2 162-3 7 144-	136-1 147-1 136-1 152-1 1 160-1 8 163-1 5 144-1	2 133 1 7 146 1 7 13-0 5 150 1 7 158 1 9 162 1	135.6 147.9 137.4 152.2 162.2 165.3 146.0

will be noted that tendencies have not differed materially in the Maritime Provinces from elsewhere, variations in the figures being explanable on special or local rather than on general grounds.

Comparative Living Costs, 1925

The actual costs of the family budgets which are the bases of the above index numbers for 1925 are given in Table II, and will be useful for comparisons of outlays in that year troughout Canada.**

TABLE II.—Average Weekly Cost of Family Budget of Foods, Fuel and Lighting and Rent by Provinces in Canada, 1925

Province	Foods	Fuel and Lighting	Rent	Total
Nova Scotia. Prince Edward Island. New Brunswick Quebec. Ontario Manitoba. Saskatchewan. Alberta. British Columbia.	\$ 10.97 9.89 10.84 10.22 10.64 10.40 10.87 11.00 12.08	\$ 3.00 3.33 3.15 3.30 3.43 3.60 3.56 2.45 2.81	\$ 5.58 5.82 6.75 5.74 7.26 8.75 8.75 7.03 6.43	\$ 19.55 19.02 20.74 19.27 21.34 22.75 23.18 20.48 21.32

Comparative Food Prices, 1926

We may next directly compare the current prices of certain staple food products in typical cities of the Maritime Provinces and nearby cities in Canada and the United States (Tables III and IV). It will be seen that Maritime prices are not materially different from those of Montreal and Toronto, though higher in some cases, but are considerably lower than those of the larger neighbouring cities of the United States—a statement which applies to most Canadian cities.

TABLE III.—Cost of a Food Budget, comprising specified articles and quantities mentioned, in certain cities of the United States, January, 1926

		1		Juliani y, 15	40	
Commodities	Quantity	Boston	Fall River, Mass.	Portland, Me.	Buffalo, N.Y.	United States average
Sirlon steak Round steak Round steak Round steak Rib roast Chuck roast Bacon, sliced Salmon Milk, fresh Butter. Cheese, Lard Eggs, fresh Bread Flour Rolled oats Rice Potatoes. Onions Corn, canned Peas, canned Sugar, granulated Tea Coffee Prunes	1 lb. 1 " 2 " 2 " 1 " 6 qts 3 lbs. 2 " 2 " 2 " 2 " 2 to lbs. 15 lbs. 10 " 5 " 2 pks. 1 lb. 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 "	65·1 52·4 79·6 56·0 47·4 9·2 89·4 172·8 65·8 136·5 69·0 45·5 25·2 183·0 6·4 6·6 4-2 26·4 38·7 14·0 17·8	60·9 46·1 63·2 45·8 45·8 45·8 45·4 9·5 84·0 167·1 78·2 43·4 70·9 139·5 64·0 48·5 24·4 189·0 6·1 5·7 3·7 26·8 31·4 13·3 15·6	60·9 45·9 59·2 41·6 45·2 9·8 81·0 175·2 77·4 42·2 59·3 150·0 63·0 37·5 25·8 171·0 5·5 5·6 3·7 26·8 30·4 13·5 15·8	$\begin{array}{c} 40 \cdot 5 \\ 35 \cdot 0 \\ 56 \cdot 2 \\ 45 \cdot 8 \\ 45 \cdot 1 \\ 9 \cdot 6 \\ 79 \cdot 2 \\ 169 \cdot 2 \\ 76 \cdot 0 \\ 42 \cdot 2 \\ 57 \cdot 2 \\ 135 \cdot 0 \\ 58 \cdot 0 \\ 43 \cdot 5 \\ 23 \cdot 0 \\ 171 \cdot 0 \\ 6 \cdot 8 \\ 5 \cdot 3 \\ 3 \cdot 3 \\ 25 \cdot 6 \\ 34 \cdot 6 \\ 12 \cdot 5 \\ 16 \cdot 7 \\ \end{array}$	40·8 35·0 60·0 44·2 48·2 9·3 89·2 165·2 75·2 44·6 53·9 141·0 62·0 45·5 23·2 174·0 5·6 3·6 26·8 38·0 12·8 17·2
Totals		\$13 35	\$12 82	\$12 46	11-94	12-21
Coal (prices April, 1926)		Anthracite \$15.75–16.00	Anthracite \$16.25-16.75	Anthracite \$16.56	Anthracite \$13.44-13.78	Anthracite \$15.37-15.54 Bituminous \$ 9.11

^{*}See Prices and Price Indexes, 1925, Dominion Bureau of Statistics, pp. 90-91, for more detailed statistics.

TABLE IV.—Cost of a Food Budget, comprising articles and quantities mentioned, in Maritime Cities, Montreal and Toronto,
January 1926

Commodities	Weight	Sydney. N.S.	New Glas- gow N.S.	Amherst, N.S.	Halifax, N.S.	Windsor, N.S.	Truro, N.S.	Charlotte- town, P.E.I.	Moneton, N.B.	St. John, N.B.	Frederic- ton, N.B.	Bath- hurst, N.B.	Montreal, Que.	Toronto Ont.	Canada (80 cities)
Sirloin steak Round steak Round steak Rib, roast Chuck roast Bacon sliced Salinon Milk, fresh Butter Cheese Lard Figs, fresh Bread Flour Rolled oats Rice Potatoes Onions Corn, canned Peas, canned Sugar, granulated Tea Coffee Prunes	5 " 2 pecks 1 pound 1 " 4 "	30·1 25·2·8 33·6 44·0 5·9 78·0 164·1 66·4 53·4 69·0 120·0 62·0 103·8 5·1 60·3 3·7 34·0 36·1 16·7 7	28.4 25.0 34.2 28.8 42.7 78.0 67.4 47.0 62.5 120.6 57.0 28.0 21.2 85.4 4.9 3.5 34.0 25.3 34.0 25.3	23 · 6 23 · 0 34 · 0 27 · 8 42 · 5 6 · 7 54 · 0 160 · 8 66 · 0 120 · 0 59 · 0 33 · 0 19 · 2 81 · 2 81 · 2 5 · 3 6 · 0 4 · 1 16 · 2 16 · 3 17 · 3 18 · 3 18 · 3 18 · 4 18 · 5 18 · 6 18 ·	33 · 8 24 · 5 50 · 8 36 · 4 43 · 0 6 · 5 79 · 8 164 · 4 70 · 6 51 · 4 72 · 8 120 · 0 57 · 0 33 · 0 57 ·	33-3 27-6 44-0 38-6 45-7 7-3 60-0 169-8 69-6 53-2 57-0 124-5 67-0 32-5 19-0 83-0 83-0 4-1 34-4 36-8 16-2 17-7	35·0 30·0 40·0 46·2 6·1 60·0 164·1 68·0 120·0 120·0 120·0 30·6 84·6 5·7 3·7 3·7 3·7 3·7 3·7 3·7 3·7 3	25-3 24-5 42-0 32-0 44-1 9-2 66-0 143-4 60-0 143-4 55-0 29-5 21-0 62-8 55-1 6-0 3-7 30-0 34-1 16-0	27 · 5 22 · 5 38 · 4 31 · 6 45 · 0 9 · 5 66 · 0 165 · 0 48 · 0 62 · 1 139 · 5 60 · 0 31 · 0 32 · 0 100 · 0 31 · 0 32 · 0 33 · 2 33 · 2 33 · 2 37 · 0 17 · 3 17 · 0	35-0 25-0 54-0 31-4 45-8 8-5 78-0 162-3 64-8 50-0 71-7 130-5 57-0 19-8 109-8 109-8 109-8 3-2 29-2 3-2 3-2 4-9 3-2 4-9 3-2 4-9 4-9 4-9 4-9 4-9 4-9 4-9 4-9 4-9 4-9	33 · 0 27 · 5 40 · 0 45 · 0 8 · 0 8 · 0 153 · 0 67 · 6 50 · 0 130 · 5 60 · 0 29 · 5 20 · 6 102 · 0 4 · 8 5 · 1 3 · 2 37 · 1 15 · 6 19 · 7	25.0 22.5 34.8 29.4 47.5 6.2 72.0 154.5 60.0 50.0 50.0 20.0 05.0 30.0 30.0 30.0 31.7 32.0 36.2 36.2 36.2 36.2 36.2 36.2 36.2 36.2	20 · 6 23 · 8 52 · 2 27 · 4 42 · 0 8 · 2 84 · 0 148 · 6 63 · 8 46 · 8 65 · 5 99 · 7 58 · 0 27 · 5 20 · 4 135 · 2 28 · 8 31 · 6 15 · 0 15 · 1	31 · 2 23 · 2 47 · 6 30 · 6 45 · 0 10 · 0 79 · 8 151 · 5 17 · 4 47 · 6 68 · 2 27 · 5 22 · 2 116 · 4 4 · 6 5 · 0 3 · 1 29 · 2 35 · 6 5 · 0 3 · 1 29 · 2 35 · 6 5 · 0 3 · 1 29 · 2 35 · 6 5 · 6 6	28 · 2 23 · 0 42 · 2 30 · 6 45 · 6 8 · 7 73 · 8 152 · I 66 · 8 40 · 8 40 · 8 40 · 8 22 · 0 22 · 0 29 · 4 4 · 8 5 · 6 3 · 5 31 · 6 35 · 8 15 · 1 15 · 7
Total cost		10.70	10-11	9 - 74	10-84	10.54	10-38	9 · 45	10-59	10-77	10.72	10.09	10.39	10.42	10.16
Coal (April, 1928) — Bituminous Anthracite			7-35	8 · 75-10 · 25	10 - 00 - 11 - 50	10 - 50-11 - 25	10-00-11-00	9-50-11-00	10-10-11-00	11 - 25-13 - 50	11-00-13-00	11.00	17 - 00-19 - 00	16.00	-

Special Investigation into Costs of Living and Prices Paid for Materials in the Fruit Growing Areas in the Annapolis Valley, Nova Scotia, and in New York State

The information which follows was obtained by visiting supply points for fruit growers in the Annapolis Valley, (Annapolis, Kings and Hants counties) and in New York State, (Niagara, Monroe and Columbia counties). Niagara and Monroe counties are situated just south of Lake Ontario in a district where the intensive cultivation of orchards probably surpasses that of any other district in the United States. Columbia county is in the Hudson River Valley and ranks with the former district as a fruit-growing centre. New York is the largest apple growing state in the Union.

The method adopted in collecting the prices data was to compare identical grades in both countries as far as that was practicable. It was, however, frequently impossible to make such exact comparisons owing to differences in styles and makes and in customs and standards of living. This was particularly true of commodities falling within the clothing and house-furnishings categories. The diversity of makes and styles and, to a lesser degree, the differences in standards of living, rendered it necessary to make the comparison on some other basis than that of identical qualities in goods. The method adopted was to ascertain the predominant selling price, that is, the price at which sales were most frequently made, of the article in question. Where this method was used, differences in price levels in the two countries may be partly due to difference in quality as well as to the price factor; this, however, has not operated to destroy comparability.

To ascertain cost of living conditions four groups of commodities were studied, viz., Food, Clothing, Furniture and Household Effects, Fuel and Lighting. The results show that in all four groups costs of living were higher in New York State than in the Annapolis Valley. A budget was constructed for each group, which included the commodities shown in the price lists. In calculating the budget each commodity was weighted by the approximate yearly consumption and results reduced to per capita or per family weekly expenditure. Table V gives the budget figures.

TABLE V.—Comparative Per Capita or Per Family Weekly Costs of Specified Groups of Commodities in the Annapolis Valley and New York State

	New York State	Annapolis Valley
Weekly budget of foods for a family of five. Per capita weekly expenditure for clothing—	\$ cts. 11.90	\$ ets. 11.15
Men. Women Family expenditure, weekly, for furniture and household effects. Family expenditure, weekly, for fuel and lighting.	1.80 1.53 1.37 2.90	1.68 1.41 1.30 2.60

A detailed explanation of the situation follows:

Food Prices.—In the food group it was found that prices of animal products (meats, butter, etc.) were, on the whole, considerably higher in the New York sections, while the prices of many staple groceries were somewhat lower (see Table VI for statement of comparative prices in full detail). The latter fact is accounted for partly by the intense competition of chain stores.

Prices for meats and groceries weighted, according to family consumption, give the following amounts as the cost of a family budget for one week:-

Annapolis Valley			6		 		. ,		 			~					ŝ	1	1	1	5	
New York State.	 		4				 											1	1	0		

TABLE VI.—Comparative Table of Food Prices at Points in New York State and Annapolis Valley

Note:—Some of the commodities included in the following tables are produced and consumed directly on the farm. The price quoted is the prevailing price at supply points nearest to the farming community concerned.

	New York State	Annapoli Valley
eats, etc.—	cts.	cts.
Beef, sirloin	40	30
Roof round	35	25
Beel, rib roast	34	22
Beef, shoulder	26	16
Deer, shoulder	22	14
Beef, stewing	35	25
Pork, fresh	32	27
Pork, salt	44	42
Bacon, not sliced	48	47
Bacon, sliced	70	65
Ham, boiled, sliced	4 -0-	18
Fish, cod, salt, boneless	30	
Fish, salmon, canned kind most sold	36	25
Lard	22	25
Eggs, freshdoz.	44	40
Butter, creamerylb.	54	45
Butter, dairy	48	40
Cheese	32	33
Milk	11	12
Broad lb.	88	81
EXECUTE:	151	17%
Soda biscuits	1.40-1.45	1 45
Flour	5	6
Rolled oatslb.		9
Rice	12	
Tapioca	14	15
Beans	8	9
Onions	41	7
Potatoespeck	55	55
Prunes, medium	16	173
Paising "	141	19
Currants	16	19
Tomatoes, canned 24'stin	23	18
Peas, canned 27 s	18	17
reas, canned	17	17
Corn, canned	25	35
Peaches, cannedlb.	64	8
Sugar, granutaged	6	71
Sugar, yellow		70
Tea. kind most sold	70	65
Coffee	50	43
Vinegargal.	36	
Saltlb.	3	31/3
Pepper	60	60
Soapbar	6	7
Coal oilImp.		
gal.	24	35
Matches box 40	54	13}

Clothing Prices.—In this group and in that of house furnishings, prices of woollen goods were found to be higher in New York State and those for cotton goods lower (Table VII). Since the disparity is greater for woollen goods all textile articles average higher in New York State.

A budget consisting of the clothing items included in the accompanying table of prices and weighted according to yearly consumption, gives the following weekly per capita amounts:

WEEKLY EXPENDITURE PER CAPITA FOR CLOTHING

	New Sta	York	Annapolis Valley		
	\$	ets.	\$	cts.	
Men		1 80 1 53	1	68 41	

TABLE VII.—Comparative Prices of Clothing

		York tate	Annapolis Valley
(a) Mens Clothing—	\$	ets.	\$ cts.
Overcoat, heavy Suits, tweed Suits, serge Overalls. Socks, cotton. Socks, woollen. Underwear, wool, heavy cotton Shirts, work negligee Collars, soft. Hats, felt Caps. Sweaters, light. Sweaters, heavy Boots work light. light. heavy Boots, dress:	1 75 3 00	35 00 30 00 35 00 1 75 0 25 7 7 00 1 75 1 00 0 20 - 5 00 1 5 00 8 00 3 75 5 00 5 00 5 00	30 00 25 00 30 00 2 25 0 25 0 65 5 00 2 00 1 50 2 00 0 30 4 00- 5 00 2 00 3 00 6 00 4 00 4 75 5 25
(b) Women's Clothing-			
Topcoat, heavy. Wool dress. Cotton dress House " Hosiery, silk " wool. " cotton Nightgown, cotton Cotton vest. Princess slip Hats, winter. " summer Shoes, working. " dress.	1 00-	40 00 15 00 4 75 1 75 1 50 0 50 1 00 0 45 1 25 5 00 5 00 5 00 5 00	30 00 12 00 5 00 2 25 1 00-1 50 1 25 0 50 1 25 0 45 1 50 5 00 4 25 5 00

Furniture and House Furnishings.—In this group it was extremely difficult to make satisfactory comparisons on account of the great variety of makes and qualities. Only in the simpler kinds of furniture was there found to be anything approaching standardization. Moreover it was found that in New York State there was a tendency to use more expensive types of furniture than are used in the Annapolis Valley. Excellent roads, tourist traffic, etc., seem to bring about greater uniformity in regard to living standards in town and country. Where prices for goods of similar quality could be obtained it was found that they were not much different in the two countries (see Tables VIII, IX and X).

A budget consisting of the articles included in the price lists for furniture, textile house-hold effects and miscellaneous household effects, weighted according to yearly consumption, shows the following amounts:

TABLE VIII.—Comparative Furniture Prices

	New St.	York ate	apolis lley
	\$	cts.	\$ cts.
Metal bed. Ordinary spring. Ordinary mattress. Dresser, hardwood, walnut finish Wicker rocker, cretonne finish. Wooden rocker. Kitchen table, wood top. Kitchen table, porcelain top. Kitchen chairs. Chesterfields sets, 3 piece. Coal and wood range.		10 00 10 00 12 00 34 00 15 00 10 00* 4 75 10 50 2 25* 75 00 25 00	10 00 9 00 10 00 30 00 15 00 4 50 5 50 10 50 1 25 175 00 100 00

^{*} Better quality.

TABLE IX.—Comparative Prices of Textile House Furnishings

	New 3		Anna Val	
	\$	cts.		cts.
Pillow cases, cotton pair		0 90		0.75
Sheets cotton each		1 75		2 00
Pableclaths linen		6 00		5 00
Powels hand cotton		0 25		0 25
inen		0 50		0 45
Towels, hath, cotton		0 50		0.50
Riankets cotton pair		2 50		2 25
Blankets, wool, heavy	1	2 50		10 00
Comforters, cotton each		6 00		4 50
Oil cloth table, yard		0 45		0 50
Curtains corin		0 35		0 25
" net		0.50		0.50
Carnet rugs Ayminster each		2 00		45 00
tapestry		25 00		22 00
Congoleum rugs		15 75		15 75
Oilcloth, 2 yds. wideper yd		1 00		1 10

TABLE X.—Comparative Prices of Miscellaneous Household Effects

	New Sta		Anna Val	
	\$	cts.	\$	cts.
Sancenan alum 3 quart		1 00		1 00
Saucepan alum., 3 quartSaucepan, enamel, 3 quart		0 40		0 60
Frying pan, large		0 55		0 60
Pin nia niatos		0 10		0 12
Tin pie plates		0 25		0 25
Boiler ix, No. 8		2 00		1 75
Danilling hough		0 25		0 30
Washtubs, galvanized medium		1 00		1.75
Broom		0 75		0 80
Teapot, enamel.,		0.80		1 10
Garden rake		1 00		1 25
Coal shovel		1 00		2 00
Fleetric light bulbs 40W		0 27		0 35
Electric toasters		4 00		5 00

Fuel and Lighting.—A budget for fuel and lighting, including coal, wood and coal oil, allowing for the difference in heating units in Anthracite coal but not allowing for the greater fuel value of hardwood, weighted according to estimated consumption, shows the following results:

	New York State	Annapolis Valley
Weekly household average expenditure	\$2 90	\$2 60

Electricity was not included in the budget calculation, as the rates vary considerably in different localities and more information would have had to be collected before a reliable comparison could be made. Moreover, in the Annapolis Valley coal-oil lighting is still predominantly used (see Table XI).

TABLE XI.—Comparative Prices for Fuel and Lighting

	New York State	Annapolis Valley
Coal, per ton. Wood, per full cord equivalent. Coal Oil, retail per gal. (Imperial). quantities per gal. " Electricity.	0 24	Near Kentville— Light 12\forallec. K.W. hr.

Producers' Materials and Costs.—The accompanying table gives comparative data regarding the price of materials which the farmer must purchase to carry on production: (Table XII)

TABLE XII.—Comparative Prices of Producers Materials

	New York State	Annapolis Valley
	\$ ets.	\$ cts.
FARM IMPLEMENTS, ETC.—		
Walking Plough	26 00	22 00
Power Sprayers	Myers, average price	Myers & Hardy averag
	425 00	price 455 00
Horse Disc Harrow, 2 horse, 12 disc, 16 ins		53 00
Mowing Machine, 5 ft. cut	D. & M. 80.00-90.00	D. & M. 98 50
Horse Rake, 8 ft	D. & M. 45 00	D. & M. 53 50
Potato Diggers	Eureka 130 00	Junior 138 00
Potato Planter	140 00	145 00
Wagon		D. & M. 118 00
	makes 85 00-116 00	D. & M. 110 00
Manure Spreader, 2 horse		D. & M. 192 00
Lime Sower, 8 ft.	80 00—90 00	100 00
Lime Sower, 8 ft	165 00—180 00	175 00
Lever Spring Tooth Harrow	2 sections 31 00	2 sections 32 00
Tractor, Fordson standard equipment	520 00—525 00	635 00
Trucks, Ford 1 ton-	020 00 020 00	000 00
chassis	352 00-359 00	475 00
chassis and starter	402 00-409 00	545 00

TABLE XII.—Comparative Prices of Producers Materials—Continued

	New York State	Annapolis Valley
	\$ cts.	\$ cts.
OOLS AND OTHER HARDWARE-		
Nail Hammer, each	0.75	1 00
Wire Nails base keg	3 90	4 50
Axes, single		1 85
Axes, double	2 75	2 50
Barbed Wire, 80 rod reel		4 60
6 in. Diamond File		0 25
Corrugated Steel 8 in. T hinge	0.40	0 70
Stable Lantern	1 35	1 40
Pitch Fork		1 35
Manure Fork		1 75
Scythe	4 9 4	2 15
	4 4.0	1 25
HoeLong handled shovel		1 35
Long nandled shovel	2 10	
ERTILIZING MATERIALS—		
Sulphate of Ammonia	65 00 78 00	70 00
Nitrate of Soda—Carloads	62 00 64 00	
Retail		65 00
Acid Phosphate		23 00
Muriate of Potash	m= 44 m=	42 00
4-8-4		35 00
		32 00
3-8-3		2 00 or le

G - Washington	New Y	Annapolis	
Spraying Materials	Hudson Valley	Lake Ontario Section	Valley
90-10 sulphur dust	\$ cts, 4 50 3 00 15c.—17c. 7c.— 8c. 15c. 16c. 22 00 12 50	\$ cts. 	\$ cts, 6.00 3 90 3 50 \$11 for 40 gals, 8c, 14c, 24c, 10c, 22 00 12 50

N.B.—Prices are shown for three sections because of differences in marketing methods. In the Hudson and Annapolis Valleys many materials are purchased and sold co-operatively with the result that prices in several lines are lower.

OTHER FARM MATERIALS	New York State	Annapolis Valley
Middlings	400 00 535 00 545 00 595 00 420 00 21½c. 24 c. 60 c.	\$ cts. 2 35-2 45 1 90-2 10 2 25-2 50 545 00 710 00 725 00 800 00 565 00 32c. *35c. 40c. 11 50

^{*}When used for tractor a rebate of 4c. tax is collectable.

Miscellaneous Producers' Costs-Concluded.

Miscellaneous Producers' Costs	New Yo	A		
MINISTERNATION OF THE CONTRACTOR OF THE CONTRACT	Lake Ontario Section	Hudson Valley	Annapolis Valley	
Wages— Hired man per month with privileges such as house, garden, etc. Find own meals. Day labour. Find own mealsper day	\$ ets. 80 00 4 00 10 hrs.	\$ cts. 65 00—75 00 3 50 9 hrs.	\$ cts. 50 00—65 00 2 50	
Telephone rates— Per month. Mutual Fire Insurance rates— Per \$1,000 for 3 years.	2 00	3 00 1 50	2 00	
Taxes— One example taken from each section. Per \$1,000	25 50 40	39 00 331	maximum 5,000 27 00 20	

FARM LAND VALUES PER ACRE	New York State	Annapolis Valley
Exceptional orchard land, per acre. Ordinary orchard land. Ordinary tillage land Rough pasture land. Building values— Range Average value. Mortgage rates.	\$ cts. 400 00—600 00 200 00—400 00 75 00—100 00 25 00 4,000—20,000 7,500 around 6%	\$ cts. 500 00 300 00 75 00 25 00 3,000—6,000 around 7%

It is difficult to reduce the preceeding items of producers' costs to definite summing up. Nevertheless from data collected in the Annapolis Valley some idea may be gained regarding the relative position of farmers in that region with respect to production costs and those in the areas of New York State. The following costs per acre for the Annapolis Valley were estimated on the basis of an assumed production of 80 barrels to the acre:

Labour for maintenance, fertilizing, cultivating, pruning, etc	\$ cts.
Labour of handling, picking, packing, etc.	40 00
Barrels at 40e	32 00
Materials—fertilizing, spraying, etc. Fixed charges.	24 00 32 00
	100 00

Of this total cost per acre, \$112 or 663% was incurred for labor and for barrels, two items in respect to which the Annapolis Valley farmers have a decided advantage. Of the materials used, \$20.50 out of \$24.00 was expended for fertilizers and spraying materials in which the Annapolis Valley farmer apparently does not labor under a material disadvantage when both fertilizers and spraying materials are considered together. In the items included under fixed charges, there is no disadvantage in tax rates or insurance charges. There would be an advantage in interest charges based on capital values. Mortgage and equipment charges would be higher for the Annapolis Valley farmer. Feed costs are likewise higher (bran, middlings, etc.).

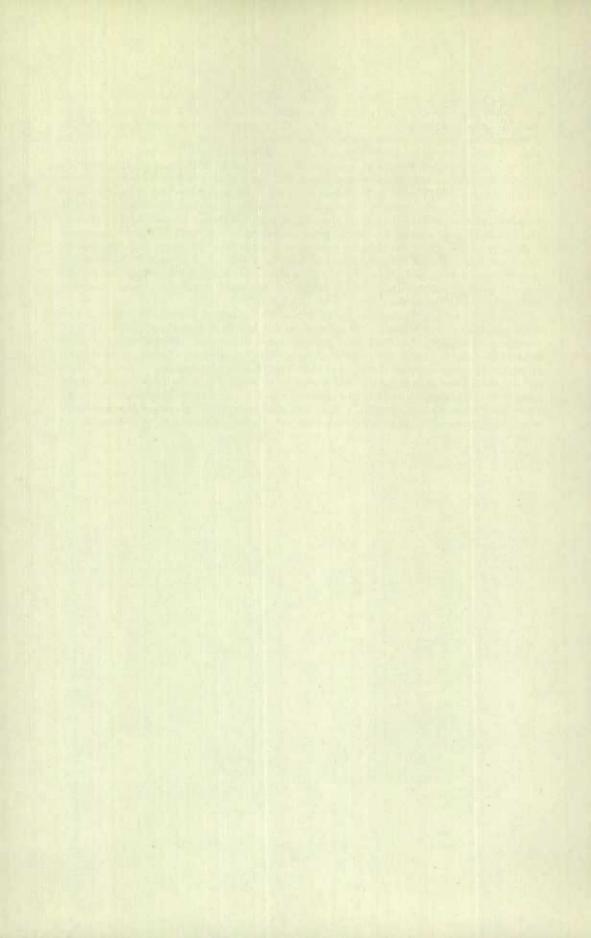
The above calculations were made on the basis of a yield of 80 barrels to the acre. If this be considered too high, and the yield halved, the results are as follows, in this case over 57% of the total cost being for labor and barrels:

Labour for Maintenance\$40	00,0
" in handling 20	00,0
Barrels 16	6.00
Materials	
Fixed charges 32	00.5

From the point of view of actual production costs the Annapolis Valley farmer does not seem, all things considered, to be at a disadvantage as compared with New York State fruit growers. A lack of prosperity must then be due to farming methods or marketing conditions. With regard to efficiency in farming methods, the opinion of well-informed people in the Annapolis Valley was that intensive and extensive cultivation should be greatly increased. This would lead to more diversified crops, larger areas cultivated and greater production per acre, resulting in a lower overhead charge per unit of produce. The farms visited in New York State offered considerable contrast to many in the Annapolis Valley in the greater diversity of their products and the larger area of individual tillage crops. The Western New York section has, as already remarked, reached perhaps the highest stage of intensive cultivation attained by fruit-growing in the United States. It has been the subject of much study by the New York State Agricultural College at Ithaca. Very comprehensive statistics of farm costs, production, capital, profits, etc., have been collected from individual farmers for a number of years. These figures are averaged yearly and afford a means by which the farmer can judge of the strength or weakness of his methods as compared with those of others. Similar work of this nature would doubtless be of value in the Annapolis Valley.

Intimately related to the question of production is that of markets. Freight charges limit competition with Ontario. Alternatives include the West Indies and British markets. In respect to markets, New York State possesses many advantages. Transportation facilities between New York, Boston and the fruit-growing regions is excellent. Goods can be shipped from the Lake Ontario section one day and be in New York the next morning. Moreover, there are numerous large cities and towns which have to be supplied. In the Lake Ontario section farmers truck their garden and orchard produce to Buffalo, Ningara Falls, Rochester, etc., the roads being numerous and excellent. Even with these advantages the farmers complain of keen competition, especially in New York City and Atlantic Coast points, from Virginia and

other states.



CHAPTER VII—PUBLIC FINANCE—THE FINANCIAL RELATIONS OF THE DOMINION AND THE MARITIME PROVINCES

Introduction.—In the sixties of the last century the accepted theory of the functions of government was that they ought to be reduced to the minimum—that the main functions of government should be restricted to the protection of the society against the violence of other societies, and the protection of the individual within the society against the violence or the fraud of other members of the society. Or, to state it otherwise, the two main functions of the government were regarded as being the defence of the realm and the administration of justice within the realm—the cost of the latter to be largely met by fees.

The effects of the general acceptance of this laissez faire theory of the functions of government may be seen in the British finance of the period. For example, in the fiscal year ended 1867, out of a total gross expenditure of £66.8 millions, £26.1 millions was for interest on war debt, £25.4 millions for the army and the navy, making a total of £51.5 millions for the defence of the realm. Of the remainder, £5.6 millions was absorbed by the cost of collecting the revenue, so that £9.7 millions was all that was available to defray all other expenses, including the civil list of the sovereign, the administration of justice, etc., this sum being about \$1.50 per head

of the estimated population of that year.

In the British North American provinces the same theory of government naturally obtained as in the Mother Country; in these provinces, however, there was no war debt and only a moderate total debt incurred for the construction of public works which, where not immediately productive of revenue, were, nevertheless, of great usefulness and an asset to the country. Furthermore, there was practically no current expenditure for purposes of defence, as this was provided by the Imperial forces. Thus, with the most expensive item in the budgets of the period climinated from the expenditures of the British North American provinces, it was possible to carry on their administration at what would today be considered an exceedingly small cost, expenditures except for necessary developmental public works being restricted to the lowest limit. This was the attitude which prevailed at the time of Confederation and which pervades the negotiations for the settlement of the financial arrangements necessitated by Confederation as between the Dominion and the provincial governments. The entire expenditure chargeable to consolidated fund in the Dominion for the fiscal year ended 1869 was but \$14,000,000, out of which subsidies paid to the provinces accounted for \$2,600,000.

Financial Negotiations at Confederation.*-Prior to Confederation the chief revenues of the provinces had been collected by means of customs and excise duties (indirect taxation), and these customs and excise duties were henceforth to pass to the treasury of the central Government. The remaining revenues, arising largely from the territorial possessions of the provinces, were comparatively small, amounting in 1863 to \$107,000 in Nova Scotia, \$89,000 in New Brunswick, and \$32,000 in Prince Edward Island. As these sums were inadequate to meet the cost of the maintenance of public works and educational institutions and the administration of civil law, it was necessary that the provincial treasuries should be assisted by the Dominion. While in her estimate of outlay for 1864 for local objects the Province of Nova Scotia had provided for an expenditure of \$664,000, she undertook to carry on adequate services in the future under Confederation for \$371,000—a reduction of 40 per cent. Nova Scotia thus needed \$264,000 in addition to her territorial revenues of \$107,000; this sum worked out at about 80 cents per head. New Brunswick, who could not manage her local expenditures on this basis, proposed to reduce them from an estimated \$404,000 to \$353,000, and to make a further reduction of \$63,000 within ten years, but for each of the first ten years she was to receive a special grant of \$63,000 required to balance her accounts, which brought her subsidy to practically the same

^{*}The financial arrangements at the time when Confederation was being negotiated for would appear to have been largely in the hands of Hon. (later Sir) A. T. Galt, whose speech to his constituents at Sherbrooke on November 23, 1864, gives in outline the settlement arrived at by those who participated in the Quebec Conference in the preceding month. This speech was printed as a pamphlet, and a copy is contained in Vol. II of the collection "Pamphlets on Confederation".

level as that of Nova Scotia. This figure of 80 cents per head was thus taken as the basis of the normal subsidies to the provinces. To this the London negotiations of February 1867 added for cost of local legislatures \$80,000 for Upper Canada, \$70,000 for Lower Canada, \$60,000 for Nova Scotia, \$50,000 for New Brunswick; it also provided that while the grants in aid of 80 cents per head should in the case of Ontario and Quebec remain stationary as based upon their 1861 population, those to Nova Scotia and New Brunswick should increase with increasing population, until the population of each province reached 400,000 (as ascertained at decennial censuses), thereafter remaining stationary: (B.N.A. Act 1867, s. 118). Thus the maximum grant in aid to each of these provinces was to be \$320,000.

From the above it becomes evident that at the time of Confederation it was not contemplated that the cost of provincial government would grow; if it did, the natural increase of the territorial revenues of the provinces would make provision. If the latter failed, then the provinces would be obliged to resort to direct taxation as per section 92 (2) of the B.N.A. Act, an alternative which was considered to carry its own safeguard against local extravagances. The subsidy was fixed, not at an increasing rate according to population, but at the rate which existed at the Census of 1861. By this means, as the population increased, the subsidy would not normally increase with it.†

From the standpoint of later experience it would appear that the above was too restricted a view of the financial relations between the Dominion and its provinces, and that in particular it erred in the assumption that the local expenditures of Nova Scotia could be reduced by 40 per cent. From this original attitude arose many of the subsequent demands for "better terms" which disturbed relations between the Dominion and provincial Governments.

The Debt Allowances.—The second important financial question at the time of Confederation was that of the provincial debts. Since the revenues which paid the interest upon these debts were being allocated to the Dominion Treasury, it was necessary that the latter should also be charged with the payment of the interest. However, since certain parts of the debt of Canada had been contracted for specific local purposes, it was considered that this should not be transferred to the Dominion. The debt of Canada, contracted for general purposes, was about \$62,500,000 or at the rate of \$25 per head for the 2,500,000 people of the united provinces of Upper and Lower Canada, and debt allowances on the same basis were granted to Nova Scotia and New Brunswick on the basis of \$25 per head of their populations, being \$8,000,000 for N.S. and \$7,000,000 for N.B. (See B.N.A. Act, 1867, sections 112-115). The provincial debts assumed by the Dominion at Confederation were therefore as follows:—

Canada (Province Nova Scotia New Brunswick	 		8 000 000
Total	 	 	 \$77,500,000

Subsequently to Confederation, as the original provinces found their financial resources embarrassed by the payment of interest on the debts which still remained, and as new provinces were taken into the Confederation, readjustments were effected, increasing the total amount of provincial debts assumed by the Dominion to \$109,430,148 in 1895. The additional debts taken over by the Dominion were as follows:—

Nova Sco	tia	81.186.756
i ne provi	ince of Canada (1873)	10.506.089
Frovince (of Ontario	2.848.289
	Quebec	2.549.214
44	Nova Scotia	2,343,059
66	New Brunswick	1,807,720
46	Manitoba	3,775,606
46	British Columbia	2,029,392
**	Prince Edward Island.	4,884,023
en en		
1	otal	31,930,148
Grand Total t	to 1895	09,430,148*

[†] The exception to this rule, agreed to at the London negotiations of 1867, allowing Nova Scotia and New Brunswick to draw grants for increasing population up to \$320,000, was, it will have been noted, within a definitely fixed limit.

*From the Statistical Year Book of Canada, 1895. Since 1895 only a minor amount has been assumed (See the Public Accounts), viz., \$267,026 in 1899.

The Movement for Better Terms.—Both on account of the increasing population and needs of the provinces, and on account of the expansion of the people's ideas as to the functions of Government (an expansion which has been largely in the sphere of education and social and humane legislation reserved by the British North America Act to the provinces) the increasing expenditure of the provincial Governments and the reluctance to impose direct taxation led shortly to agitations for "better terms" as regards subsidies.

The first objection came from Nova Scotia in the first session of the first Parliament.* The result of their protest was that by an Act of 1869 (32-33 Vict. c. 2) the debt allowance for Nova Scotia was increased from \$8,000,000 to \$9,186,756, (it should be understood—that a province draws interest at the rate of 5 p.c. on such part of the debt allowance as is not absorbed by its debts taken over by the Dominion). In addition, an annual allowance of \$82,698, over and above all other sums payable under the Act of 1867, was granted to Nova Scotia for a period of 10 years only.

The next claims to be made upon the Dominion treasury came from the new provinces of Manitoba and British Columbia, the former receiving a grant for legislative and administrative expenses of \$30,000 plus 80 cents per head on an estimated population of 17,000; also a debt allowance of \$472,090, which, since there was no debt, meant at 5 per cent, an additional payment of nearly \$24,000. British Columbia received an annual grant of \$30,000 plus 80 cents per head on an estimated population of 60,000, also a debt allowance at the rate of \$27.77 per head of population, being the revised per capita allowance to Nova Scotia. Next, Prince Edward Island came into the Confederation in 1873 with an annual allowance of \$30,000 plus 80 cents per head of the population plus a debt allowance on the basis of \$50 per head of the population (amounting to \$4,701,050), plus a special annual allowance of \$45,000 (in lieu of territorial revenue, since Prince Edward Island had practically no Crown lands) to extinguish the claims of the landlords to whom much of the land had been originally granted. This grant, however, was to be reduced by interest at 5 per cent on any sum not exceeding \$800,000 which the Dominion might contribute toward buying out the large proprietors.

The new agitation for better terms arose in 1873, at the height of a world-wide cycle of prosperity when Dominion revenues were buoyant and expanding. The remaining debt of Upper and Lower Canada (\$10,506,089) was taken over, and equivalent additions were made to the debt allowances of each of the other provinces, including increased payments in lieu of public debt in the cases of Manitoba and British Columbia. Again, in 1876 the infant province of Manitoba was granted a temporary annual increase to raise the revenue to \$90,000; in 1879 this was increased to raise the annual income to \$105,000.

In 1884, the provinces once more joined in an appeal to the Dominion for larger grants, on the ground that the readjustment of 1873 should have been retroactive to Confederation, and claiming not only arrears of capital, but interest as well. An adjustment was effected, both for the original provinces and also for the three newer provinces of Manitoba, British Columbia and Prince Edward Island. The total extra allowance charged on the Dominion treasury as a result came to \$358,000 annually.

Manitoba profited by the 1884 arrangement only to the extent of \$5,500 annually, and in 1885 renewed agitation on her part led to the passage of an act which transferred to the province the ownership of its swamp-lands, granted a land endowment to the University of Manitoba and enlarged the basis of cash subsidies. These concessions were made on condition that they should constitute a final settlement of all claims, and as a matter of fact no further concessions were made until 1898, when a further allowance was granted on account of the cost of public buildings and a government house.

When the new provinces of Alberta and Saskatchewan were created in 1905, subsidies were established as follows for each province:—\$50,000 for the support of its government and legislature, plus 80 cents per head on an estimated population of 250,000, to increase with the population until it should reach 800,000, plus 5 per cent interest on a debt allowance of \$8,107,500 (since there was no debt this gave each of the provinces an annual subsidy of \$405,375 under this heading), plus an allowance of \$375,000 in lieu of public lands, (this allowance to increase to

^{*}For a descriptive statement of the grounds of their protest see Canada and its Provinces, Vol. VII, pp. 489-490.

\$562,500 when the population reached between 400,000 and 800,000, \$750,000 when it reached between 800,000 and 1,200,000, and \$1,225,000 when it exceeded 1,200,000), plus a special annual grant of \$93,750 for five years for public buildings.

In 1907 the whole question of subsidies was once more reopened. The annual grant to the provinces for the support of their Governments and Legislatures was increased as follows according to the population of the province:—

Population	Grant
Under 150,000	\$100,000
130,000—200,000	150 000
200.000—400.000. 500.000—800.000.	100.000
100,000—1,000,000	990 000
Over 1,500,000	240,000

Further, the annual grant was henceforward to be paid at the rate of 80 cents per head until the population of a province exceeded 2,500,000, and at the rate of 60 cents per head on the excess. Also, an additional annual allowance of \$100,000 was granted for ten years to B.C.

The growth of Dominion allowances to the provinces since Confederation is shown by the following figures.*

Fiscal year ended	
1868	\$ 2 753 966
1869	2 604 050
18/4	3 752 757
1009,	4 182 526
1099	4 250 636
1900	6 726 373
1908	9.032,775
1912	. 10,281,045
1922	12,211,924
1925	. 12,281,391

Total payments by the Dominion to the provinces from Confederation to March 31, 1925, are shown in the following table.§ The payments to the Maritime Provinces totalled \$71,423,920, or approximately 20 per cent.

TABLE I.—Dominion Allowances by Provinces, from July 1, 1867, to Mar. 31, 1925

Provinces	Allowance for Govern- ment	Allowance per head of Population	Special Grants ¹	Interest on Debt Allowance ²	Total
	\$	8	\$	8	8
Prince Edward Island Nova Scotia New Brunswick Quebec. Ontario Manitoba Saskatchewan Alberta British Columbia. Total	5,240,000 7,120,000 7,520,000 5,025,000 3,516,667 3,446,666 4,420,000	4,440,080 19,566,762 14,936,546 64,424,118 80,840,775 11,938,035 9,049,564 7,162,505 7,993,142 220,351,527	3, 261, 385 826, 980 8, 430, 000 	2, 214, 950 2, 707, 767 1, 159, 450 4, 049, 646 3, 604, 374 9, 916, 342 8, 107, 500 8, 107, 500 1, 583, 941 41, 451, 470	12,736,415 28,921,509 29,765,996 75,593,764 91,965,149 37,662,039 31,267,481 28,841,671 20,397,083 357,151,167

¹Compensation for lands and allowances for buildings.

In addition to these allowances, the Dominion Government has made special grants to assist the provinces in providing facilities and services considered desirable for the benefit of the people of Canada at large. Thus we have the grant of \$10,000,000 for agricultural education (3 Geo. V, c. 5), which lapsed in 1923, the similar grant of \$10,000,000 in 10 years for the

²Allowance in lieu of debt.

[&]quot;Statistics for other years will be found in a table, "Principal Items of Dominion Expenditure, 1868-1925", on pp. 768-769 of the 1925 edition of the Canada Year Book.

[§] From page 779 of the 1925 issue of the Canada Year Book.

assistance of technical education in 1919 (9-10 Geo. V, c. 73), and the highways grant of \$20,000,000 in five years to assist the provinces in their good roads schemes,* the actual payments under this scheme being \$16,779,779 to March 31, 1925. Of this latter amount Prince Edward Island had received \$408,274, Nova Scotia \$1,456,431, New Brunswick \$1,163,845, or \$3,028,550 in all, or over 18 per cent of the total.

The present Financial Position in the Dominion and the Provinces.-In the past decade, governmental expenditure has increased in practically every country in the white man's world, partly as a consequence of the widening of men's ideas of the functions of Government, partly as a result of the decline in the purchasing power of currency units, and partly as a result of the natural growth of population. Canadian governments, national, provincial and municipal, have been no exception to the rule:

Dominion Expenditure.—The total estimated expenditure of the Dominion Government on all governmental services in the fiscal year ended Mar. 31, 1926, was \$342,890,000, as compared with \$144,456,878 in the fiscal year ended 1913, and \$186,241,048 in the fiscal year ended 1914, these figures including capital as well as current expenditure. Thus the expenditure of the Dominion has about doubled since before the war.

However, an analysis of the 1926 expenditure will show† that the 1926 expenditure arising out of and attributable to the war was no less than \$163,977,000, for interest on war debt, pensions, soldiers civil re-establishment, etc.-all of them items which had no existence before the war. Subtracting the \$163,997,000 from the \$342,890,000, we have a total expenditure for all the ordinary activities of the government of \$178,893,000, or somewhat less than was spent in 1914, notwithstanding that (a) the population of Canada has considerably increased since 1914, and (b) that the dollar of 1926 has only about two-thirds of the purchasing power of the dollar of 1914—governments like individuals having to buy the commodities and services which they use at the prevailing scale of prices§.

Provincial Expenditures.—Provincial finances, of course, like those of the Dominion, have been affected by the increase of population and by the diminished purchasing power of the dollar, both operating in the direction of increasing their expenditures, though the Dominion has under the constitution borne the whole burden of the expenditures directly attributable to the war.

Taking the nine provinces together, ordinary expenditures in their fiscal years ending in 1914 aggregated \$57,108,888. During the first years of the war there was a tendency toward reduction, and in 1916 the total was \$53,826,219. Thereafter provincial expenditure increased very rapidly, aggregating \$135,159,185 in 1924. Preliminary figures for 1925 show a slight increase to \$136,648,242. It will be seen that the total increase since 1914 is over two and onehalf times-in exact terms 153 per cent. Dominion and provincial expenditures cannot of course, be controlled with the same degree of immediate effectiveness.

To assist in the purview of provincial finance attention may be directed at this point to Tables II and III herewith. They show ordinary provincial revenues and expenditures (grand totals and per capita, respectively), by decades in the Census years back to Confederation, and by single years from 1916 to date.

Provincial Expenditures in the Maritimes.—Tables II and III differentiate provincial expenditures in the three Maritime Provinces. To enable the details of these expenditures to be examined over the past ten years Table IV has been added.

It will be seen that whilst provincial expenditures in general have gone up from \$53 millions per annum in 1916 to \$136 millions in 1925, or 153 per cent as previously noted, those of Prince Edward Island have gone up from \$453 thousand to \$745 thousand, or 64 per cent; those of Nova Scotia from somewhat over \$2 millions to nearly \$6 millions, or 177 per cent; and those of New Brunswick from \$11 millions to over \$4 millions, or 162 per cent.

^{*}The period of operation of this scheme has been extended to April 1, 1928.

tSee Hunsard for April 15, 1926; pp. 2540—41. \$It might be added that of the \$164,000,000 of expenditure arising out of the war, at least \$140,060,000 goes back to the citizens of Canada as interest, pensions, etc.

TABLE II.—Ordinary Revenues and Expenditures of Provincial Governments for their respective fiscal years ended in the census years, 1871-1911 and in each year from 1916 to 1925

ORDINARY RECEIPTS

Years	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatche- wan	Alberta	British Columbia	All Provinces
1871 1881 1891 1901 1911 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	\$ 485,014 275,380 274,047 309,445 374,798 508,455 496,653 514,475 501,915 740,973 769,719 748,888 654,303 738,431 740,076	\$ 525,824 476,445 661,541 1,090,230 1,625,653 2,165,338 2,118,620 2,332,634 3,280,313 3,801,016 4,586,840 4,791,208 5,317,335 5,461,383 4,467,484	\$ 451,076 607,445 612,762 1,031,267 1,347,077 1,580,419 1,572,814 2,357,909 2,182,420 3,100,892 2,892,905 3,226,727 3,479,733 3,725,286 3,556,330	\$ 1,632,032 3,191,779 3,457,144 4,563,432 7,032,745 9,647,984 10,441,114 13,806,392 12,666,352 14,472,651 15,914,521 21,609,396 21,634,642 23,170,733 25,021,329	\$ 2,333,180 2,788,747 4,138,589 4,466,014 9,370,834 13,841,339 18,269,597 19,270,122 20,692,166 425,981,517 430,411,396 439,725,370 434,818,729 441,721,961 48,013,852 4	\$ 121,867 590,484 1,008,653 4,454,190 5,897,807 6,292,986 6,723,013 8,613,364 9,870,710 9,358,956 7,940,457 10,078,730 19,926,634 7,866,519	\$	\$, 3,309,156,7 5,281,695 6,260,106 7,660,762 9,642,739 10,919,776 11,086,937 9,324,890 10,419,146 10,506,627 11,531,026	\$ 191,820 1 397,035 959,248 1,605,920 10,492,892 6,291,694 6,906,784 8,882,845 10,931,279 13,861,603 15,219,264 16,987,869 18,758,864 19,124,580 18,823,358	\$ 5,518,946 7,858,698 10,693,815 14,074,991 40,706,948 50,015,795 57,989,984 69,345,307 92,653,023 102,030,458 116,156,699 117,738,244 127,896,047 132,398,729

ORDINARY EXPENDITURE

1871. 1881. 1891. 1901. 1911. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1923. 1924. 1925.	261, 276 304, 486 315, 326 398, 490 453, 151 487, 113 484, 416 655, 409 660, 774 604, 042 687, 241 710, 046	600, 344 494, 582 692, 538 1, 088, 927 1, 790, 778 2, 152, 773 2, 344, 009 2, 573, 797 3, 280, 282 3, 916, 848 4, 678, 146 4, 791, 998 5, 229, 178 5, 579, 525 5, 909, 544	438, 407 598, 844 680, 813 910, 346 1, 403, 547 1, 568, 340 2, 166, 904 2, 399, 062 2, 595, 937 2, 999, 323 3, 432, 512 2, 985, 877 3, 648, 273 3, 835, 522 4, 112, 569	1,575,545 3,566,612 4,095,520 4,516,554 6,424,900 9,486,687 9,907,672 11,671,830 12,371,131 13,520,740 14,624,088 16,575,977 19,920,276 21,567,293 23,629,390	1,816,784 2,592,800 4,158,460 4,038,834 9,916,934 12,706,333 16,518,223 17,460,404 21,464,575 25,880,843 28,579,688 37,458,395 49,305,439 48,866,569 51,462,178	226, 808 664, 432 988, 251 4,002, 826 6, 147, 780 6, 860, 355 7, 307, 727 8, 497, 942 10, 602, 955 10, 063, 139 8, 381, 667 10, 616, 567 10, 455, 187 6, 824, 155	2,575,145 ¹ 5,258,756 ³ 5,553,965 ³ 6,828,596 ³ 8,125,203 ³ 8,707,833 ¹ 12,151,665 13,322,120 12,886,544 12,449,150 12,498,933	3,437,088 6,018,894 6,752,504 8,303,808 9,525,749 10,423,356 13,109,304 11,235,192 10,990,830 11,174,690 11,249,433	97,692 ¹ 378,779 1,032,104 2,287,821 8,194,803 40,083,505 9,531,740 9,023,269 9,887,745 11,568,003 15,236,931 17,436,487 19,273,942 8 20,515,367 8 20,156,702 8	4,935,008 8,119,701 11,628,353 14,146,059 38,144,511 53,826,129 60,122,485 66,052,909 76,403,975 102,569,515 112,874,954 132,671,065 135,159,185 136,648,242
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¹ For six months only. ² Twelve months ended February 28. ³ Twelve months ended April 30. ⁴ Includes capital revenue for lands, which cannot be separated. ⁶ For eight months. ⁷ Includes small sums of capital which cannot be separated. ⁸ Includes sinking funds taken from capital (Expenditure out of Income).

TABLE III.—Ordinary Receipts and Expenditures of Provincial Governments per head of Population for their respective fiscal years ended in the census years, 1871-1911, and in each year from 1916 to 1925

Note.—As this table is based upon Table 23, those using it should refer to that table for totals and for explanatory notes.

(A) ORDINARY RECEIPTS

Years	Prince Edward Island	Nova Scotia	New Bruns- wiek	Quebec	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Total
	8	\$	\$	\$	8	\$	\$. \$	\$	\$
1871 1881 1891 1901 1911 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	2.50 3.00 4.00 5.59 5.72 5.61 8.32 8.69 9.47 7.43 8.42	1.36 1.08 1.47 2.37 3.30 4.27 4.16 4.55 6.35 7.31 8.76 9.09 10.03 10.23 8.32	1.58 1.90 1.91 3.12 3.83 4.28 4.22 6.27 5.74 8.08 7.46 8.24 8.80 9.33 8.82	1.37 2.35 2.32 2.77 3.50 4.43 4.72 6.14 5.54 6.23 6.74 9.01 8.87 9.34 9.93	1 44 1.45 1.96 2.05 3.71 5.08 6.61 6.87 7.27 8.99 10.37 13.35 11.53 13.63 15.47	1.96 3.88 9.65 10.65 11.14 11.68 14.67 16.49 15.34 12.66 15.81 16.89 11.98	5.48 7.41 8.42 11.28 11.69 13.47 15.56 15.17 15.78 15.36 14.86	8.84 10.64 12.17 14.38 17.50 19.17 18.84 15.41 16.78 16.49 17.69	5.291 8.03 9.77 8.99 26.73 13.76 14.68 18.36 21.99 27.14 29.01 31.76 34.48 34.58 33.58	1.53 1.82 2.21 2.62 5.65 6.23 7.10 8.34 9.08 10.75 11.63 12.96 12.98 13.88 14.16

¹ Six months.

(B) ORDINARY EXPENDITURES

1881 2.4 1891 2.7 1901 3.6 1911 4.2 1916 4.5 1917 5.3 1918 5.3 1919 7.3	5 2.37 5 3.64 8 4.25 9 4.60 9 5.02 3 6.35	1.87 2.12 2.75 3.99 4.25 5.82 6.38 6.83 7.73	2.63 2.75 2.74 3.20 4.33 4.48 5.19 5.41 5.82	1.35 1.97 1.85 3.92 4.67 5.97 6.23 7.54 8.96	3 64 4 36 3 87 8 68 11 10 12 15 12 69 14 48 17 72	5.23 8.12 8.30 9.88 11.39	9,18 12,12 13,12 15,59 17,28 18,30	7.66 10.51 12.80 20.87 22.05 20.26 18.65 19.89 22.65	1,88 2,41 2,63 5,29 6,71 7,36 7,94 9,03 10,24
1916 4 9 1917 5.3 1918 5.3 1919 7.3	8 4.25 9 4.60 9 5.02 3 6.35	4.25 5.82 6.38 6.83	4.33 4.48 5.19 5.41	4.67 5.97 6.23 7.54	11.10 12.15 12.69 14.48	8.12 8.30 9.88 11.39	12.12 13.12 15.59 17.28	22.05 20.26 18.65 19.89	7.36 7.94 9.03
1920. 7.4 1921. 7.8 1922. 7.7 1923. 8.9 1924. 8.1	3 8.93 7 9.08 8 9.87	8.85 7.62 9.22 9.60 10.20	6.19 6.91 8.17 8.69 9.38	9.74 12.59 16.33 15.96 16.58	16.49 13.37 16.65 16.16 10.40	16.04 17.12 16.17 15.27	22.28 18.57 17.70 17.54 17.26	29.05 32.58 35.43 37.10 35.96	11.69 12.60 14.63 14.67 14.61

TABLE IV .- Details of the Expenditures of the Maritime Provinces compared with those of all Provinces, 1916-1925.

	Expendi	tures on Civil	Governmen	t	Expenditure on Mines and Mining						
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.		
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	4,011,701 4,156,582 4,433,263 5,631,886 6,833,933 7,028,897 8,380,037 8,470,561 8,415,915 8,334,525	27,351 24,814 25,362 29,988 42,677 37,102 33,472 31,471 35,079 37,711	123,525 126,796 142,019 168,773 215,455 262,195 264,257 268,668 299,845 297,576	68,342 79,400 99,450 123,173 145,720 146,270 153,095 161,334 160,930 160,265	1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925.	239,095 240,100 365,427 345,432 406,872 359,580 297,957 415,338 393,380 422,252		42,584 40,472 21,271 23,418 33,442 42,129 42,914 43,037 50,023 75,824	2,425 717 920 3,759 998 4,524 2,113 1,407 1,715		

² For 8 months only.

¹ Six months. ² For 8 months only.

TABLE IV.—Details of the Expenditures of the Maritime Provinces compared with those of all Provinces, 1916-1925—Continued

Year	Expend	diture on Hea	alth and San	itation	Year	1	Expenditures	on Legislation	1
	9 provinces	P.E.I.	N.S.	N.B.	Tear	9 provinces	P.E.I.	N.S.	N.B.
1916	171, 293 270, 200 395, 325 575, 971 734, 281 928, 153 1, 054, 593 952, 500	751 1,610 2,382 4,304 956 786 536 689 493 8,662	3,618 3,058 4,128 4,763 4,518 3,160	412 5,731 - 15,085 9,122 11,039 15,244 19,022	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	1,833,100 2,036,330 1,864,508 1,976,644 2,177,944 2,658,339 2,512,503 3,009,279 2,191,494 2,608,859	17, 725 18,822 17,999 24,460 31,729 32,546 29,474 36,367 28,246 26,357	102,971 97,082 88,618 104,900 142,865 155,155 123,399 120,291 132,938 157,666	54,921 68,236 59,650 59,536 117,936 96,292 98,465 97,559 97,969 123,646
77	Expendite	ure on Forest	s, Timber an	d Woods		Expendit	ure on Public	Buildings, Wo	rks. etc
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.
1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925.	861,072 955,176 1,114,572 1,279,776 1,521,098 1,431,103 1,683,319 2,309,134 2,945,063 2,701,595		2,550 2,550 2,600 2,600 3,050 3,050 3,112 2,987 3,050 3,050	30,095 27,648 35,068 84,432 123,233 215,941 85,772 175,663 141,003 114,518	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	10,852,373 11,076,102 10,825,544 13,355,274 15,678,016 10,387,111 14,781,093 21,115,066 21,574,006 22,043,571	63,065 69,007 66,612 159,561 130,078 119,834 98,813 147,627 103,154 118,705	356, 499 403, 665 460, 772 871, 717 1, 134, 696 1, 123, 933 1, 059, 965 1, 052, 898 1, 396, 845 1, 510, 482	354,308 527,225 544,871 821,741 903,962 942,644 683,537 1,059,371 1,076,649 1,135,118
77	E	apenditures o	n Agriculture			Expen	ditures on G	ıme and Fishe	ries
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.
1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925.	1,937,679 2,058,197 2,724,702 2,909,816 2,775,713 3,371,937 3,772,219 3,493,994 3,844,709 3,897,191	15,099 12,660 16,928 26,066 17,621 26,659 38,181 25,600 29,450 25,286	35,798 36,960 42,641 58,461 46,116 72,733 46,745 46,621 54,670 68,843	49,072 76,209 251,089 84,482 92,912 66,639 61,625 69,324 80,283 90,110	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	372,854 374,944 630,246 701,550 663,189 627,680 557,030 689,976 690,980 684,130	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,500 1,500 1,500 1,500 1,500 1,500 2,166 3,582 5,877 7,535	31, 859 36, 427 38, 422 47, 669 49, 654 31, 250 28, 790 34, 446 41, 541 52, 222
Year	E	Expenditure or	Education				Expenditure	es on Lands	
Tear	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	9,964,552 10,580,647 11,143,005 12,541,624 15,902,175 20,474,528 22,830,227 25,716,519 25,427,460 24,784,845	173,309 176,952 170,913 183,344 209,478 246,401 273,978 301,045 281,795 293,431	508, 957 527, 272 522, 941 531, 104 610, 870 776, 044 721, 528 780, 823 791, 291 793, 782	313, 409 319, 906 329, 564 326, 275 362, 067 465, 522 450, 913 485, 180 525, 280 585, 082	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	427, 274 427, 596 456, 400 620, 767 770, 821 978, 247 885, 069 851, 402 821, 590 1, 059, 410		266 115 64 94 146 71 96 253 329 4,152	4,015 3,568 6,068 6,205 10,295 17,107 9,539 5,318 5,862 5,635
Year	Expenditure	es on Adminis	stration of Ju-	stice, etc.		E	menditures of	n Hospitals	
Tear	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.1,	N.S.	N.B.
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	5,182,299 5,314,091 5,272,813 5,560,157 6,588,441 7,890,601 7,388,586 8,272,640 7,304,243 7,225,133	30, 412 30, 262 26, 799 29, 615 34, 010 33, 662 36, 130 34, 318 32, 613 31, 027	25,660 25,670 28,333 32,410 36,095 58,243 71,027 97,016 44,359 69,629	46,557 44,059 40,216 59,531 46,407 53,443 48,313 54,930 47,828 66,228	1916	3,936,834 4,837,677 5,758,117 6,850,623 8,099,518 8,864,862 8,909,974 10,155,217 9,734,092 10,079,063	60,752 90,038 91,361 121,385 121,866 120,559 104,364 130,181 109,586 105,142	314,074 352,288 501,962 668,257 751,215 847,568 825,967 823,541 780,119 811,595	142,225 176,978 208,444 186,059 213,717 210,305 225,842 227,425 296,548 298,455

TABLE IV.—Details of the Expenditures of the Maritime Provinces compared with those of all Provinces, 1916-1925—Concluded

No.	Expend	iture on Corre	etional Instit	tutions	77	Expenditu	re on Coloniz Public	ation, Immig	ration,		
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.		
1916	621, 120 759, 735 933, 329 1, 188, 242 1, 182, 856 1, 502, 564 1, 781, 465 1, 801, 009 1, 584, 997 1, 618, 057		-		1916	214, 201 251, 696 250, 230 282, 788 344, 110 600, 115 809, 437 557, 330 1, 021, 360 452, 021°		10,341 10,339 10,778 12,597 16,430 19,651 19,271 20,081 22,121 19,641	11, 211 13, 496 8, 356 8, 613 8, 507 7, 695 6, 687 4, 933 3, 350 5, 596		
	1	Liscellaneous	Payments			E	Expenditure on	Charities			
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.		
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	3,910,534 5,337,664 5,410,059 8,162,984 7,023,767 4,996,269 4,D36,467 4,234,750 3,951,071 4,565,577	13,543 9,715 9,941 20,000 9,908 11,049 6,288 11,906 11,309 10,499	49,938 58,684 66,115 80,136 135,822 118,363 123,054 131,620 106,865 204,899	64,910 61,331 66,647 92,553 121,255 209,943 96,775 125,400 108,904 130,007	1916 1917 1918 1920 1921 1922 1923 1924 1925	668, 128 681, 587 751, 088 804, 988 961, 200 967, 509 4, 107, 670 869, 607 1, 038, 702 1, 115, 620	4,545 5,730 5,669 5,385 4,961 5,349 5,320 6,033 4,797 5,774	15,175 16,477 17,755 21,434 29,601 30,813 34,277 28,725 30,809 26,513	2,972 2,572 5,700 8,619 29,006 30,583 29,904 21,799 24,558 25,840		
		Refu	nds	1		Expenditur	es on Pension	ns, Gratuitie	s, Reliefs		
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	P.E.I.	N.S.	N.B.		
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	159, 697 126, 599 123, 483 305, 884 373, 777 455, 389 322, 388 425, 102 497, 864 455, 004	-4 70 400 915 	5,331 13,151 15,056 12,224 15,894 13,645 8,359 12,193 3,701 2,275	1,719 1,592 905 2,607 1,060	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	841,270 1,377,429 3,159,081 4,512,160	700 700 700 700 700 992 1,408 700 700 350 550	9,284 9,076 7,974 8,350 9,578 10,659 10,464 16,427 19,183 20,934	8,533 5,883 17,561 10,110 17,873 11,343 11,085 10,425 44,160 12,169		
		Interest I	ayments			E	Amusemente	musements			
Year	9 provinces	P.E.I.	N.S.	N.B.	Year	9 provinces	9 provinces P.E.I. N.S.				
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	7,817,844 9,420,183 10,575,841 11,925,832 14,591,458 19,818,266 26,496,794 31,503,815 35,115,864 35,795,926	45,899 46,799 49,680 50,801 56,498 58,687 59,070 64,050 69,240 66,474	505,642 540,139 560,987 599,211 616,643 861,564 1,030,239 1,327,322 1,383,616 1,639,057	351,005 686,714 644,438 628,892 679,264 814,019 886,750 954,019 1,011,865 1,107,098	1916 1917 1918 1919 1920 1921 1922 1923 1924 1925	59,203 321,099 406,410 267,779 200,992 149,055 212,555 192,806	-	2,009 3,921 4,963 6,280 10,322 11,914 11,541 12,559 11,549 11,608	1, 150 1, 300 4, 626 10, 346 9, 287 15, 466 10, 373 11, 961 11, 055 8, 453		
	,						Sinking	Funds			
			Year			9 provinces	P.E.I.	N.8.	N.B.		
1917 1918 1919 1920 1921 1922 1923						1,372,325 035,944 670,767 943,416 1,187,438	10,470	40,669 77,852 77,448 76,826 103,490 267,358 359,489 405,768 437,820 241,325	31,613 33,231 31,336 31,335 31,936 78,441 81,936 137,036 141,046 171,386		

^{*}Decrease for 1925 as compared with 1924 is due to amount of \$506,040 which was grant to cover deficit on Land Settlement Board in 1924 in British Columbia.

The Division of Powers and of Fields of Taxation.—As already indicated, the desirability and the utility of the objects on which these increasing sums are being spent are for the people of each province to decide under the British North America Act. Inasmuch, however, as the British North America Act laid down the field of direct taxation as that by which the provinces should raise their needed revenues, it will be of interest to supplement the general figures on revenues contained in Table III by a special statement showing the total and per capita receipts of the provinces derived from taxation during recent years. These are set out in Table V compiled in the Financial Statistics Branch of the Dominion Bureau of Statistics in co-operation with the provincial governments—1916 being the earliest year for which such information is available. That the provinces of Canada are more and more resorting to direct taxation is the outstanding feature of this table, more than four times as much provincial revenue being collected by taxation in 1925 as in 1916.

Further Examination of Provincial Taxation—Municipal Taxation.—A general view of recent provincial taxation is given in Table V. The subject, however, is so important in its implications that more detailed analysis of the existing situation is desirable. It is desirable, for example, to provide a means of comparison between the taxation systems of the various provinces so as to note the varying methods in which direct taxation has been applied. The principal sources of provincial taxation in Canada are: taxes on corporations; succession duties; taxes on property; taxes on incomes (Prince Edward Island, British Columbia and Manitoba); taxes on land transfers (Ontario); gasoline tax (in all provinces except New Brunswick and Saskatchewan); amusement tax; automobiles licenses; revenue from liquor control; and miscellaneous licenses. Table VI, on pages 124 and 125 assembles these and other items of taxation in all the provinces for the year 1925.

It is evident from Table VI that great differences prevail between the revenue systems of the various provinces. In analyzing the table, however, it would not be fair to apportion criticism to a province for the absence of any particular tax on the ground that it is failing to develop that particular source of revenue. Rather is it necessary to consider the tax system as a whole, with a view to ascertaining whether as such it is well balanced and adequate. A more legitimate method is to compare total tax receipts per capita. In this comparison it is necessary to include municipal taxation as well as provincial, since the service defrayed by provincial taxation in one province may be met out of municipal taxation in another though it may matter little to the taxpayer to which the payment is made. Figures for provincial taxation as given by the annual reports of the provincial treasurers are analysed on a uniform basis by the Financial Statistics Branch of the Bureau of Statistics. For municipal tax receipts it is more difficult to make comparisons, as provincial statistics are available for six provinces only. The figures in Table VII, (p. 126) however, are believed to be fairly complete.

It appears from Table VII that municipal tax receipts per head are less in Nova Scotia than in any other of the six provinces which can be compared in this way, also that combined municipal and provincial taxes are least for Nova Scotia. It must of course be remembered that considerable areas in all the provinces have no municipal organization and consequently no municipal taxation; in these areas the burden of taxation is less, but naturally the benefits derived from the community are correspondingly less; e.g. various services such as water supply and fire protection, commonly provided out of taxation by the municipality, must be provided by private initiative or foregone. Moreover, the larger the city, the more numerous the services it renders to the taxpayers, and consequently the higher the municipal taxes. In comparing a largely rural province, having no large cities, with a highly urbanized one, we should therefore expect the municipal taxation per capita to be higher in the latter.

A fairer comparison of the per capita burden of municipal taxation in the different provinces can perhaps be made by limiting it to cities and towns of specified size. For 1922, reports on municipal statistics have been published by the Dominion Bureau of Statistics dealing (1) with places having a population of 5,000 and over, and (2) with places having a population of 1,000 to 5,000. No special statistics are available for places having a population of less than 1,000. The results of these comparisons are given in Tables VIII and IX respectively.

TABLE V.—Total and per Capita Receipts from Taxation for the Years 1916, 1920 to 1925 by Provinces

TOTAL RECEIPTS

	1916	1920	1921	1922
	8	\$	\$	\$
Prince Edward Island. Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. All Provinces.	115,029 291,772 275,001 3,810,426 6,494,904 936,628 686,750 1,062,419 2,045,217	647,86 6,335,70 11,985,49 2,081,2: 4,464,93 4,586,33 7,575,4	36 1,359,044 796,938 01 6,509,520 13,772,396 24 2,641,113 5,018,776 55 3,773,503 6,936,554	1,582,948 1,403,740 11,461,385 19,552,564 3,946,514 4,916,648 4,554,007 8,917,661
		1		
		1923	1924	1925
		8	\$	8
Prince Edward Island. Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia.	1 1	254,352 1,961,890 1,415,916 1,787,109 5,794,908 4,142,716 5,145,041 5,731,016 9,906,932	333,995 1,949,501 1,398,598 11,988,255 17,866,148 5,122,579 5,697,307 5,909,146 10,811,824	330,436 1,689,077 1,481,449 12,460,041 22,238,322 (a) 4,087,832 5,587,534 6,646,495 10,393,115
All Provinces	5	6, 139, 880	61,077,354	64,914,301

PER CAPITA RECEIPTS

	1916	1920	1921		1922
	8	S	\$		\$
Prince Edward Island.	1-27	3.81	4.18		3.71
Nova Scotia	0.58	1.91	2.59		3.00
New Brunswick	0.75	1.69	2.05		3.58
Quebec	1-75	2.73	2.76		6-57
Ontario	2.39	3.48	4.33		6 29
Manitobn	1.06	6.07	6 - 63		6.32
Saskatchewan	2-14	8.05	6-41		7-53
British Columbia	4.47	14.83	13 - 22		16-67
All Provinces	1.96	4.53	4.69		6.35
		1923	1924		1925
		\$	\$		\$
Prince Edward Island		2.89	3.81		3-79
Nova Scotia		3.70	3-65		3.15
New Erunswick		3.58	3-50		3.67
Quebec		4.83	4-83		4.94
Ontario		5 - 23	5.83	7.5	7-17
Manitoba		6 · 50 6 · 46	7·92 6·99	(a)	6-23
Saskatchewan		9 - 23	9 - 28		10.20
A HIMTO		18-21	19.55		18.54
British Columbia.		10 -6	10 00		

⁽a) Manitoba receipts are for eight months only. 27719-9

	Prince								1
Sources of Receipts from-	Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saakatchewan	Alberta	British Columbia
Taxation of Corporations—	\$ cta.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cta.	\$ et	\$ cts.	\$ cts.
Financial— Banks Land Companies	_	71,003 06	29,554 83	_	524.544 01	57,697 03 9,655 07	-	70.950 00 4.341 38	-
Loan Companies Loan Companies Register Loaning Land Companies Register	1 -	5,985 13	1 -	-	61.117 33 5,725 00	26.980 45	-	12,689 52	
Trust Companies Trust Companies Register.	1 809 00	7,689 57	⁸ 2,450 00	1,649 20	385 00 46,531 86 5,150 00	16,924 02	-	5,697 63	-
Insurance— Fire Insurance Companies. Guarantee and Accident Insurance Companies.	10,700 01	60 400 07	46,232 09	_	282,750 85	42,292 13	_	_	
Life Insurance Companies Sundry Miscellaneous Insurance Companies	3 698 36	97,144 15	7,297 08 50,441 90		543,342 77 33,162 44	165,873 11	75,478 23	237,651 82	{ =
Insurance Act— Friontly Societies Register. Insurance Corrpanies Register. Miscellaneous Insurance Act.				81,483 75	3,175 60 70,972 50 56,205 92	52,573 41	-	122,317 64	47,653 45
Other Corporations— Car Companies Commercial Corporations, etc.	~		_		12,077 45		_		_
Elevator Companies Express Companies	_	17,500 00	560 00	2,461,010 63	36,400 00	3,615 00	_	40,100 00 6,523 59	
Light and Power Companies.	1.043 81	52,042 84	_		71,388 02	100 00		11.418 21	=
Railways Stean ship Companies Street Railways	150 00	22,827 93	58, 220 00 5, 213 38	-	720,596 70 10,142 13	327,599 47 10,774 73	206,520 00	190,435 19	
Telegraph Companies Telephone Companies	800 00 2,348 66	8,475 34 66,062 16	2,078 22 22,952 98	-	1,261 54 77,479 59	4,101.24 2-04	-	4.711 30	=
Miscellaneous Companies	15,288 90	181,443 49 258,407 56	290.529 72	2,423,149 20	5.786.893 22	39,071 19 592,257 05	515, 272 59 287, 697 71	105, 250 31 459, 659 39	708, 880 27
ther Trantions-				_,,,,	.,,,,,,,,,		201100112	277.000 00	100,000 41
Brokers Tax. Education Tax, Trust Account "D". Fire Marshall Tax.	975 00	-	=	-	76, 128 39	165 11		178,453 27	=
Fuel-oil-Tax. Gasoliae Tax.	3.902 36		_	652,576 85	1,974,434 10	102,371 12	=	311,403 67	130.364 54 476,700 79
Inconic Tax Land Tax Land Tax—Supplementary Revenue Tax.	* 35,104 66	85,260 08			_	113,023 29 1,326,237 10	33,517 78	1,489,495 61	43.990,950 19
Land Transfer Tax	_	-	-		451,602 68	1,520,237 10	33,311 18	20,352 61	8 -
Leased f and Educational Tax. Leavery Tax. Personal Property Tax.	1 17,220 80		_	_	370,752 63				5

TABLE VI.—Ordinary Taxation Receipts, 1925—Concluded.

10									
Sources of Receipts from—	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
Other Taxations—Concluded.	\$ ctc.	\$ cts	\$ cts.	\$ ets.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cta.
Poll Tax. Public Revepues Tax.	= = =	-	-	-	1	-	2,358,784 82	_	171,679 44
Real Property Tax	91,302 44	-0.0				_	_		1,101,338 01 • 14,662 40
Stamp Tax, Transfer of Securities. Timber Area Tax. Timber Berth's Taxation Act.	=	-	_	-	86,174 86	-	1,631 33	21,116 88	
Transfer of Stares, Bonds, etc	_		55,602 62	129,866 49	1	43,415 12	707,724 11	509,393 96	715,064 62
Other unenumerated taxes including arrears	38,271 91	004 740 94	571,132 82	5.749.536 12	11,308,394 59	12 07 72,934,839 75	4.188.626 57	17 95 3,801,979 99	7,357,293 71
TOTAL TAXATION	221,964 76	936,749 36	311,132 32	0,748,300 12	11,000,00% 00	-2,894,000 10	4,100,020 01	3,001,010 00	1,001,200 12
Licenses and permits— Auctioneers' Licenses	_	-			-	_	6,584 83	6,325 00	-
Dog Licenses Licensed Hotels, Shops, etc.	=	-	-	221,284 53		1,825 00	_	13,797 50	2,701 45
Liquor Traffic Control, inc. Hotel and Shop Licenses and Government Commission Account	45,000 00 58,277 66	51,820 41 575,396 54	352,861 65 500,592 53	3,975,951 99 2,492,532 84	1,045,004 59 5,593,655 93	520,493 75 437,800 00	30,586,38 1,296,594 60	1,631,043 81 940,071 35	*1,312,061 67 1,125,586 14
Peddlers' Licenses. Recreation and Amusement—	220 00	-	-	-	-	-	35,371 63	5,150 00	-
Amusement Tax. Moving Pictures.	4,762 21	110,611 00 8,905 02	48,698 53 7,993 75	20,736 00	1,459,144 37 114,549 88 6,179 50	183,653 74 7,219 50	30, 182 35	193,331 44 11,697 00 16,513 00	234,930 86 20,265 40
Pool and Billiard Rooms. Rase Track Meetings. Theatre Licenses.	_	3,728 90		_	2,702,407 25	670 00	-	12,245 00	313,153 08
Travelling Show Licenses. Other Trade or Business Licenses.	211 00	1,865 56	170 00	=	7.905 00 1,081 00	1,330 00	1.474 00 114 00	14,340 50	27,022 50
Total Licenses and Permits	108,470 87	752,327 43	910,316 46	6.710.505 36	10,929,927 52	71,152,991 99	1,400,907 79	2.844,514 60	3,035,821 10
TOTAL TAXATION, LICENSES AND PERMITS	330,435 63	1,689,076 79	1,481,449 28	12,460,041 48	22,238,322 11	74,087,831 74	5,587,534 36	6,646,494 59	10,393,114 81

Norg. - A gasoline tax of 3 cents a gallon is now in force in Nova Scotia and returns from this tax will appear for the first time in the 1926 returns.

Included with Trust Companies.
Including Loan Companies.
Including Loan Companies.
These items include Discounts, Collector's Commissions, Postage, etc. of \$12,910.39 which has been deducted from the totals.
Including Personal Property Tax.
Included with Income Tax.
Surplus of Collections over advances.
Tor eight (5) months only
This amount represents "Permits" and "Prov. Share of Profits" under the "Govt. Liquor Act".

TABLE VII.—Provincial and Municipal Taxation per Head in six Provinces Publishing Provincial Statistics of Municipal Finance.

Province	Population 1925 estimated	1925 tax tax receip		Provincial tax receipts per head	Total municipal and provincial tax receipts per head	
APPENDING TO THE RESERVE OF THE PERSON OF TH		\$	\$	8	\$	
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	536,900	Not available 5,583,812 Not available (a)103,756,286 (b) 18,265,773 10,199,470 9,856,021 14,748,216	10·40 - 29·90 27·83 12·26 15·11 26·30	3·79 3·15 3·67 4·94 7·17 6·23 6·71 10·20 18·54	13·55 - 37·07 34·06 18·97 25·31 44·84	

⁽a) Taxes and Rates. (b) Total tax imposed for all purposes. Tax receipts for N.S., Man., and B.C. are for 1925; other provinces 1924.

TABLE VIII.—Provincial and municipal taxation, per capita, for residents of urban municipalities having a population of 5,000 or over, in each province.

(The provincial figures relate to the year 1925 and the municipal figures to 1922 in each case)

	Municipal taxes per head, 1922	Provincial taxes per head, 1925	Total
	\$	\$	8
Prince Edward Island	11-19	3.79	14-9
Nova Scotia	23-57	3-15	26-7
New Brunswick	21 - 68	3 - 67	25-8
Quebec	26.78	4.94	31 - 7
Ontario	41.02	7 - 17	48-
Janitoba	40.34	6.23	46-
Saskatchewan	47.50	6-71	54.5
Alberta	58-50	10.20	68 -
British Columbia	42.18	18.54	60 -
All provinces	36.64	6.94	43 -

TABLE IX.—Provincial and municipal taxation per capita, for residents of urban municipalities having a population of 1,000 to 5,000 in each province.

(Provincial figures relate to 1925 and urban figures to 1922 in each case)

Province	Municipal taxes per head, 1922	Provincial taxes per head, 1925	Total
	\$	\$	\$
Prince Edward Island	9-68	3.79	13.47
Nova Scotia	12-42	3.15	15.57
New Brunswick	14-89	3.67	18.56
Quebec. Ontario	9.73	4.94	14.67
Ontario	24.04	7-17	31-21
Manitoba. Saskatchewan.	26-05	6.23	32 - 28
Saskatchewan	36.60	6-71	43 - 31
Alberta	25-80	10.20	36-00
British Columbia	20.56	18.54	39.10
All provinces	19.83	6.94	26.77

From Table VIII it again appears that local taxes per head in the Maritimes in 1925 were lower than in the other provinces. Municipal taxes (for municipalities of 5,000 or more population) in 1922 were about one-half of the average for all provinces. The provincial and muni-

cipal taxes combined for municipalities of this size in Nova Scotia were about 61 per cent of the average for the Dominion. The lowness of municipal taxation in Prince Edward Island may be partly attributed to the fact that the cost of education in that province is chiefly met by the province and not by the local areas as in other provinces.

Comparing Table IX with Table VIII, it is evident that the municipal taxes of localities having a population of 1,000 to 5,000 were, as would be expected, much lower than those of places with a population exceeding 5,000. In this field also, the taxes of the Maritimes per head were the lowest of the Dominion. It is suggested that the general subject of provincial taxation be considered in the light of the data on wealth and income presented in Chapter V.

Certain special aspects of the financial relations of the Dominion and the Maritime Provinces, which have been the subject of discussion and on which it may be convenient to have the available data assembled, are dealt with in Appendices I, II, and III of this Chapter, which deal respectively with the expenditures on Railways and Canals in the Maritimes; Dominion Expenditures on Public Works; and credits claimed by the Maritime Provinces for non participation in Dominion lands.

Appendix I-Expenditures on Railways and Canals

The total capital expenditure of the Dominion Government on railways up to March 31, 1925, as given on page 80 of the Report of the Department of Railways and Canals for that year, was \$495,956,176.54. This figure includes \$35,906,042.55 spent on the rolling stock of the Canadian Government Railways. When the expenditures on construction and equipment is pro-rated according to mileage in each province, the capital expenditure in each of the Maritime Provinces is estimated to have been as follows:—

	13,756,255
Nova Scotia.	62, 153, 904
New Brunswick	75,700,873

The total for the Maritime Provinces is thus \$151,611,032 being 30-6 per cent of the grand total.

While the Maritime Provinces have thus received a share of the capital expenditure on railways which is large relatively to population, the expenditure for eanals in these provinces has been very small. According to the appended table, the total capital expenditure for construction and enlargement of canals up to March 31, 1926 has been \$175,812,316, of which \$20,593,866 was expended before Confederation. The only canal situated in the Maritime Provinces is St. Peters Canal in Cape Breton Island, and the total expenditure on this has been only \$648,547, or about 0.37 per cent of the total.

When the capital expenditures on railways and canals are added together, the grand total is found to be \$671,768,492, of which \$152,259,579 is found to have been expended in the Maritime Provinces, being about 22.6 per cent of the aggregate. It is to be remembered, however, that railway aids of different kinds are not included in this statement, nor are land grants to railways so included. To valuate these aids and grants at the time they were made would be a long and difficult process.

27719-10

CAPITAL EXPENDITURE FOR CONSTRUCTION AND ENLARGEMENT OF CANALS FOR THE FISCAL YEARS 1868-1926 AND BEFORE CONFEDERATION

Canals	Expenditure previous years	Expenditure 1926	Total expenditure
	\$	\$	\$
Beauharnois Carillon and Grenville ¹ . Chambly Cornwall Culbute Lock and Dam Lachine Lake St. Francis Lake St. Louis. Murray Rideau Sault Ste. Marie Soulanges. Ste. Anne Lock and Canal. St. Lawrence River and Canals— North Channel. River Reaches. Galops Channel. St. Lawrence Ship Canal. St. Peters. Tay. Trent. Welland Welland Ship Canal. Williams- burg Rapide Plat. Williamsburg Canals in general.	1,636,029 4,191,756 780,996 7,246,304 382,391 14,132,685 75,907 298,176 1,248,947 4,214,264 4,935,809 7,904,044 1,270,216 1,995,143 483,830 1,039,896 135,777 127,229 648,547 489,599 19,319,760 29,908,498 50,772,093 877,091 6,143,468 2,159,881 1,334,552 34,967	-500 ² -50,000 -1,709 -1,210 ² 11,960,465	1,636,029 4,191,756 780,996 7,246,804 382,391 14,132,685 75,907 298,176 1,248,947 4,214,264 4,935,800 7,904,044 1,320,216 1,995,143 483,830 1,039,896 134,088 127,229 648,547 489,599 19,337,175 29,907,288 62,732,558 877,091 6,143,468 2,159,881 1,334,552 34,967
Total	163,787,855	12,024,461	175,812,316

¹ The records relating to cost of construction by the Imperial Government were destroyed by fire in 1852 and the statistics are not included in this table.
² Revenue.

Appendix II.—Expenditures by the Dominion Department of Public Works in the Maritime Provinces from Confederation to March 31, 1925

A statement herewith from the Chief Accountant's Branch of the Department of Public Works shows by provinces the expenditures on construction and repair and maintenance of public buildings since Confederation, also the expenditures on dredging and on construction and repairs of harbours, from Confederation to March 31st, 1925.

Of a total expenditure of \$172,414,033.38 on public buildings since Confederation, \$3,271,-388.21 of which was not separable by provinces, there was expended in Nova Scotia \$5,579,-356.89, in Prince Edward Island \$915,483.69, in New Brunswick \$6,516,074.22, or a total of \$13,010,914.80, or 7.55 per cent. Of the total expenditure for this purpose, Nova Scotia accounted for 3.24 per cent, Prince Edward Island for 0.53 per cent, and New Brunswick for 3.78 per cent. This percentage of expenditure was considerably smaller than the proportion of the Maritimes on a population basis.

On the other hand, out of \$190,255,557.99 shown by the statement to have been spent on harbours and rivers since Confederation, \$6,691,080.54 of which could not be allocated by provinces, there was spent in the Maritime Provinces a total of \$50,117,496.38, or 26.34 p.c. of the total. Of this sum \$18,041,521.86 or 9.48 per cent of the total, was expended in Nova Scotia, \$3,485,416.03 or 1.83 per cent in Prince Edward Island, and \$28,590,558.47, or 15.03 per cent, in New Brunswick.

In considering these percentages, it should be remembered that in 1871 the three Maritime Provinces contained 20.80 per cent of the total population and in 1921 only 11.38 per cent. A fair average for the 50 year period would perhaps be the 16.64 per cent of 1901, or approximately one-sixth of the total population.

Taking the two items of public buildings and harbours and rivers together, out of a grand total of \$362,669,591.37 expended since Confederation, the total for the Maritimes was \$63,128,-411.18 or 17.4 per cent of the grand total.

STATEMENT SHOWING TOTAL AMOUNTS SPENT BY THE DEPARTMENT OF PUBLIC WORKS, IN EACH PROVINCE, FROM CONFEDERATION TO 31ST MARCH, 1925.

	-		Construction and repair		Maintenance	Total
Watel Dublis Dublis	\$ ets	Э,	\$ c	ts.	\$ ets	. \$ cts.
Totals, Public Buildings— Nova Scotia		_	3,721,087	35	1,858,269 5	4 5,579.356 89
Prince Edward Island		con .	540,810	41	374,673 2	915,483 69
New Brunswick		-	4,750,063 18,007,273			
Ontario	20.000		63, 277, 677			
Manitoba			5,801,679	15	2,376,688 9	8 8,178,368 13
Saskatchewan and Alberta		-	8,319,532			
British ColumbiaYukon	0/31 5	_	7,446,241 485,291			
Public Buildings Generally		-	1,685,403			
		_	114,035,060	89	58.378.972 4	9 172, 414, 033 38
	Dredging					
Totals, Harbours and Rivers— Nova Scotia	5,962,680	00	12,078,840	08	_	18,041,521 86
Prince Edward Island	1,326,023		2,159,392			
New Brunswick	11,801,681		16,788,876			28,590,558 47
Quebec Ontario	10,377,479 21,614,036		32,347,622 33,995,551			101111111111111111111111111111111111111
Manitoba	1.204.362		2,964,297			1 101 100 00
Saskatchewan and Alberta	150,263		675,795			826,058 55
British Columbia	8,750,169	39	21,042,865 324,537			-01100,000 UI
Yukon	155, 114	82	6,535,965			324,537 00 6,691,080 54
			128,913,744			190, 255, 557 99
	01,021,010	V4	140,010,072	80		130, 200, 001 99
Sundry Totals: (A)—			10 710 100			10 510 100 51
Dredging Plant		_	10,516,120 4,855,750			1 000 000
Roads and Bridges.			5, 976, 587			
Telegraph and Telephone Lines			20,339,201			20,339,201 38
Miscellaneous		-	15,699,189 12,567,347			2010001 200 00
			12,001,011	0.3	2,210,102 0	12,030,030 21
Grand Total	61,341,813	04	312,003,001	79	60,657,675 3	6 434,002,490 19

⁽A) Not apportionable by Provinces.

Appendix III.—Credits claimed by the Maritime Provinces in compensation for nonparticipation in lands in the Prairie Provinces, Ontario and Quebec.

The Maritime Provinces, in presenting certain claims to the Dominion Government, include three which concern the question of public lands. These have been stated as follows:—

- 1. A credit as against the Dominion Government equivalent on a per capita basis of calculation to that extended to Manitoba, Saskatchewan and Alberta on account of school lands.
- 2. A credit as against the Dominion Government of such an amount as will fairly represent, on a per capita basis of calculation, the proprietary interest of the Maritimes in the Public Lands of Manitoba, Saskatchewan and Alberta, transferred to the Government of these Provinces.
- 3. A credit as against the Dominion Government as compensation for non-participation in the federal lands transferred to Quebec and Ontario under the legislation of 1888, 1898, and 1912; when these credits have been arbitrated and established, the interest thereon should be paid annually according to the methods followed with respect to the debt allowances to the several provinces at Confederation.

A brief statement on each of these demands is appended.

Claim 1.—The most readily available basis on which to establish the credits demanded is the annual payment of the Dominion Government to the three Prairie Provinces. These payments, as shown in the accompanying statement, are made up of (1) interest on principal money invested, (2) all other than principal money (i.e. revenue from leases, etc.) and (3) interest accrued on current account. Total payments to the three provinces during the year ended March 31. 1925, on account of school lands amounted to \$1,848,065. At the estimated population of 2,141,100 (June 1, 1925) these payments were made at the rate of \$0.86 per head. Payments at this per capita rate (taken for 1925 as the latest year available and for the three Prairie Provinces together) would have amounted in Prince Edward Island to \$75,078, in Nova Scotia to \$461,734 and in New Brunswick to \$346,838, a total to the three Maritime Provinces of \$883,650, as per the following statement:

School Lands

PAYMENTS BY DOMINION GOVERNMENT TO THE THREE PRAIRIE PROVINCES DURING THE YEAR ENDED MARCH 31, 1925

Manitoba— Interest on Principal Money invested All other than Principal Money Interest on current account.	\$	287,125 12,950 392
Total		300,467
Saskatchewan—		
Interest on Principal Money invested. All other than Principal Money. Interest on current account.		658,325 292,754 10,475
Total		961,554
Alberta—		
Interest on Principal Money invested. All other than Principal Money. Interest on current account.		346,350 231,992 7,702
Total		586,044
Grand Total	\$1	,848,065

Population (est.) of Manitoba, Saskatchewan and Alberta, 1925-2,141,100.

Payment per head, 1925—\$0.86. Population (est.) of Nova Scotia, 1925—536,900.

Payment on same basis-\$461,734

Population (est.) of Prince Edward Island, 1925-87,300.

Payment on same basis—\$75,078.
Population (est.) of New Brunswick, 1925—403,300.

Payment on same basis-\$346,838.

Total payments to three Maritime Provinces-\$883,650.

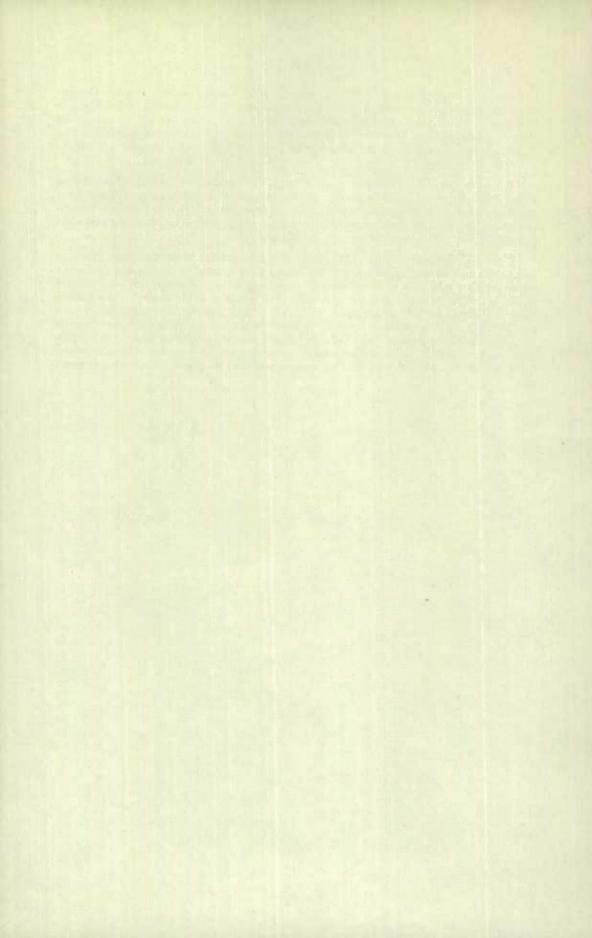
Claim 2.—To determine a credit which would represent the proprietary interest of the Maritime Provinces in the public lands of the Prairie Provinces, in the event of these lands being transferred to the provincial governments, several factors must be considered. An important one is a comparison between the expenditure made on Dominion lands in these provinces and the revenue received from their administration. These figures, as quoted from the statement by the Deputy Minister of the Interior, dated Sept. 30, 1918, were \$86,441,808 and \$46.914,172 respectively, showing a net excess of expenditure over revenue of \$39,527,636. This phenomenon is to be explained in part by the relatively small value of the lands at the time of settlement, the policy of free homesteads, and the high costs of surveying and general administration. The same conditions, moreover, which caused this situation in the past, are to be considered in a computation of the present or future value of lands still unsold, especially in the case of agricultural lands.

Certain areas of land, in Alberta particularly, form an exception to the general rule as illustrated by the above figures, in that they promise remunerative returns from mining leases or royalties, while a substantial income is now received from timber dues.

The three Prairie Provinces receive, as a part of their subsidy from the Dominion Government, certain payments "in lieu of land" or as compensation for the retention of lands within their boundaries by the Dominion Government. The present annual subsidy to each of the three provinces, based on their population as at the census of 1921, amounts to \$562,500. This subsidy, in the event of the lands being transferred to the provincial governments, would no doubt be discontinued.

If the receipts and expenditures of the Dominion Government on Dominion lands during recent years be taken as an indication of the value, from the standpoint of Government revenue, of these lands, it will be seen that during the fiscal years 1921 to 1925 Dominion Government expenditures on this account exceeded receipts in every year. This expenditure does not include the payments to the provinces "in lieu of land."

Claim 3.—The determination of what credit might be granted to the Maritime Provinces as compensation for non-participation in the federal lands granted to Ontario and Quebee at various times would seem to be a somewhat involved problem. The northern areas granted to the two provinces would no doubt be considered as belonging on the assets side of a balance sheet, but only on account of their potentialities, rather than from the point of view of revenues realized from their possession. Since no precise information respecting these territories is available, any computation of their value to the provinces of Ontario and Quebec or of compensation to be allotted to the Maritime Provinces for their non-participation in these or similar lands, would require much more detailed investigation than the question has heretofore received.



CHAPTER VIII.—EDUCATION

Education, in the broader sense of the term, means the development of the latent powers of the individual, with the object of making him in the strictly literal sense a more valuable member of society. The individual may not, of course, in each and every instance exert his improved powers towards practical results, but in the mass he does so. Education therefore when applied to the masses is economically productive; what is spent on public general education is seed sown in the expectation of a harvest to be actually reaped.

In economic language, education is the means of securing that trained labour force which makes the chief difference between the productivity of the American and the Chinese population. At least three-fourths of the national income of the most progressive countries is due to the earning power of human beings, whether as hand workers or as organizers and captains of industry. The best and easiest way to augment that national dividend (which means the augmentation of general well-being and the reduction of poverty to a minimum), is through developing

the personal powers of the people.

In many respects the educational policy of the Maritime Provinces and particularly of Nova Scotia has resembled that of Scotland*, especially in its requirement that even the one-room school shall prepare its students for the university—so that "every recruit may have a marshal's baton in his knapsack". The query may suggest itself whether the type of education given has been too predominantly intellectual and professional, with the result of pushing its graduates out of their native province into wider spheres—whether educational effort should now be given a direction toward those occupations which would develop the latent resources of the Maritimes.

Because of the vitally important place of educational policy in the composition and the economy of society, the following sketch of the systems of the Maritime Provinces, (prepared in the Education Statistics Branch of the Bureau) is included as a contribution toward the consideration of their general situation. The historical development of education by provinces is given first in some detail; the concluding pages are devoted to certain broader comparisons which may elucidate the general policy that has been pursued up to the present.

Nova Scotia

Historical Sketch—General.—The history of education in Nova Scotia falls into five fairly definite periods: (1) The period of private schools or church education. (2) The period of semi-private education during which the state assisted education with more or less precarious grants (1732 to 1811). The Society for the Propagation of the Gospel in Foreign Parts, an Anglican institution, was particularly active in promoting education during this second period. Education resembled that in England, the institutions being mainly "secondary", i.e. schools taking in children at early ages (around 10 years) and giving them what is understood now as both elementary and secondary education. (3) The third period (1811-1864) began when a common school system was founded and machinery set up for its support by steady government grants and such local organizations for school purposes as the school section (1826). This period culminated in the appointment of a Superintendent of Education (1854) and the establishment of a normal school (1855). (4) The fourth period (1864-1893) began in 1864 when a free school system was established supported on the principle of compulsory property assessment and poll tax so that all contributed to its support, and not the parents of school children alone. During this period the high school was really an institution for the training of teachers or

^{*} Scotland, said Macaulay in his famous speech on education, used to be one of the poorest and most despised of countries. But when general education was provided in her parochial schools, "wherever the Scotchman went he carried his superiority with him".

preparation for a university. The normal school was an academic institution, except that it trained only those looking forward to teaching. This period may be said to have culminated in 1893 when the normal school was made a purely professional and the high school a purely academic institution. (5) The fifth period from 1893 to the present, with a landmark bearing upon secondary education in 1908, has been noted for the adoption by the province of most of the modern activities in education, including the different methods of holding adolescents at school, industrial education, the care of the health of school children, and the special education of the weaker ones. The work of either elementary or secondary education may be taken wherever there is a teacher qualified to give it, and the secondary institutions are willing to take in such pupils at any point in their high school career.

The Free School Act of 1864 with subsequent minor changes placed the school system in its present form, so far as organization for its support was concerned. The cost of support was to come from three sources: (1) the provincial grant paid directly to the teacher and apportioned according to the certificate held—this grant was afterwards changed to a fixed sum; (2) the county grant raised by a poll tax and apportioned as follows: \$25.00 received by each section for each teacher engaged; the balance distributed on the basis of average attendance; (3) sectional property assessment. The three sources in 1866 amounted to \$136,821 government grant; \$55,462 county fund; and \$176,252 school section assessment; in 1925 the figures were respectively \$658,648, \$524,037 and \$2,522,255. It has been argued that the second mentioned form of support is the preferable one in that it enables the more prosperous to help in the support of poor communities.

Special advances in education with the date either of legislation or initiation may be listed as follows:

School for the deaf, 1851.
 School for the blind, 1867.
 College of agriculture, 1885.

3. College of agriculture, 1885. 4. Summer school of science, 1887.

5. School of art, 1887. 6. Training in English in night schools (about 1890).

7. School of horticulture (at Wolfville), merged later with the college of agriculture, 1894.

8. Experiment in consolidation, 1903.

9. Manual training in high schools (about 1894).
10. School of mines (before 1896).

11. Office of Director of Technical Education established, and a technical college founded, 1907.

12. Director of rural science appointed, 1912.

Compulsory education has been in force from an early date. In 1895, school sections were required under penalty to take a vote at annual meetings on the question of compulsory attendance; if the measure passed, trustees were required to compel attendance between the ages of 7 and 12 for 120 days during the year. There were already (in 1895) 411 sections which had adopted compulsory attendance. There was also an act by which children in cities and towns between 6 and 16 were required to attend full time with certain exceptions; by 1903 more than two-thirds of the sections in the province had adopted it. In 1917 every child of school age in an institution for the poor was required to attend public school regularly, his education being maintained by the municipality in which he had a settlement. In 1918, compulsory attendance age requirements in other than cities and towns were extended to 14 years of age, but still left to a vote of the ratepayers; the compulsory law in a section could be rescinded by a two-thirds majority. The present compulsory laws were enacted in 1921.*

By 1907 a system of teachers' annuities was in force, which by amendments in 1910, 1912, 1914 and 1917 brought in inspectors, normal school teachers and the staffs of the schools for the blind and deaf.

Universities and Colleges.—In 1789 an act was passed incorporating King's College. The agitation which resulted from the dominant influence of the Anglican Church in higher education eventually led to the establishment in 1811 of grammar schools. One of these, Pictou Academy, founded on the plan of a Scottish university, was incorporated in 1816, but was given no degree conferring powers, though its students graduated by examination as Master of Arts of Glasgow university. Owing to a cessation of grants this academy was forced to function as a high school in 1832. In 1821 Dalhousie College was founded after the model of a Scottish university. In 1823, 1835 and 1885 attempts were made to consolidate Dalhousie and King's

^{*}For a summary of these laws see Annual Survey of Education in Canada, 1925, page VIII, issued by the Dominion Bureau of Statistics.

but without success. In 1838 owing to certain discrimination against the Baptists, the latter founded Acadia College at Wolfville as a separate institution. In 1845 Dalhousie was closed and functioned as a high school from 1849 to 1859. A Presbyterian College founded in affiliation with Pictou Academy originated in 1820 and eventually migrated to Halifax in 1860. In 1854 St. Francis Xavier College (Roman Catholic) was founded at Antigonish. Another Roman Catholic College, St. Mary's, was opened at Halifax in 1860. Mount Allison University, established by the Methodists in 1862 in New Brunswick just across the border, drew from Nova Scotia a provincial grant of \$2,400 up to 1881. Up to this year (1881) grants from the public treasury were made to all these colleges. As the University of Halifax, which was established by the legislature in 1876 after the fashion of London University (i.e. as an examining or degree conferring body only), had demonstrated its failure to accomplish the design of bringing all the degree conferring institutions together, and as certain of the older universities refused to give up their charters, the government in 1881 withdrew all grants, and the University of Halifax ceased work. College Ste. Anne (Acadian), was founded in 1890 and given university powers in 1892. The seminary of the Holy Heart (also Acadian), was founded in 1895 with degree conferring powers. Mount St. Vincent Academy was given degree conferring powers in 1924. At the present time there are eight degree conferring institutions in Nova Scotia. As there are three universities in New Brunswick and one in Prince Edward Island, the Maritime Provinces possess altogether eleven independent universities (King's having been recently amalgamated with Dalhousie) while there are only ten independent universities in all the rest of the Dominion.

New Brunswick

Historical Sketch.—In New Brunswick the history of education may be divided into four periods: (1) the period of purely private instruction (up to 1784); (2) the period of semi-private, i.e. partly state aided education, the remaining support being given by churches, benevolent societies and individuals (1784 to 1802); (3) from the date at which local machinery was introduced and state grants became constant until the establishment of free schools (1802-1874);

(4) the free school period (1874 to the present).

In the early days, the English Society for the Propagation of the Gospel in Foreign Parts contributed liberally here as in Nova Scotia. The New England Company (organized in England in 1649), also turned its attention to New Brunswick after the American Revolution, and established schools, chiefly for the education of the Indians, in six counties. One of these schools continued until 1826. The most influential society operating in New Brunswick was the National Society, founded in London in 1811. This Society adopted what was known as the Madras system (sometimes as the "Bell" system, after its originator),—a system of instruction in towns and other large schools by the older pupils under the direction of an usher, all being selected by the master of the school. New Brunswick reflects this method at the present day, being the only province making use of what is known as classroom assistants.

As in Nova Scotia, state aid in New Brunswick was first extended to secondary and higher education. In 1786 the Council set aside 2,000 acres of land in the vicinity of Fredericton to endow a provincial academy of arts and science, and in 1800 the academy was established as the College of New Brunswick, afterwards (1828) known as King's College, and since 1869 as the University of New Brunswick. This grant was increased from time to time until in 1829 it reached its present amount, viz.: \$8,844. Until 1845 the members of the college council were required to be members of the Church of England. Since 1891 this university has been closely connected with the public school system, through the provision that the chief inspector should be president of its Senate. In 1805 the first of a series of grammar schools was established at St. John. These schools, like the similar ones in Nova Scotia, admitted children around the age of ten and carried them through university matriculation, the system being the same as the secondary education known in England and Europe (and in a sense in Quebec), the difference between it and "secondary education" in other provinces being that the latter is a mere continuation of elementary school work to which qualified pupils from all classes and conditions of the population are admitted, while the former was not a continuation of elementary work but a system running parallel with three or four years of elementary work and having a tendency to exclude the poorer element. A number of scholarships each year enabled a few of the brightest poor pupils to partake of secondary education. In New Brunswick the grammar school is still so called, but in other respects it corresponds to the county academy in Nova Scotia*. They were placed under the control of the Board of Education in 1861; those at St. John and Fredericton, however, were exempted from the operation of the Act, and it was not till 1871 that provision was made that grammar schools should be free as well as other schools, and that the pupils of the common schools should be graded into them. By an Act of 1858, provision was made for one school in each parish of a higher grade than the ordinary common school. These were to be known as "Superior Schools". They still exist as the high schools free to all the qualified pupils of the parish in which they are situated.

An Act of 1802 provided certain grants for common schools, and an unsuccessful attempt was made to create a public common school system; at the same time common school education was being carried on by the societies already mentioned. In 1816 an act was passed providing for the appointment of town or parish school trustees with powers to assess the inhabitants, this power being withdrawn in 1818. Other acts were passed in 1823, 1829, 1833, 1837, 1840 and 1844, the schools then being managed by the Court of General Sessions of the Peace in each city. As a result of a report of a government committee, a Board of Education was formed and empowered to establish normal and model schools, to appoint two school inspectors for the province, to prescribe text books and provide for the classification of teachers. Normal and model schools were opened in Fredericton and St. John in 1847, and later one at Chatham. Boards of examiners were appointed on whose reports teachers were licensed and received an allowance from the government. Previously, under the Society for the Propagation of the Gospel, teachers were licensed by the Bishop of London. The first superintendent of education was appointed in 1852, as was also an inspector for each county. The districts were empowered to assess themselves for the support of schools by the Parish School Act. Finally, in 1871 an act was passed providing for the establishment of a free non-sectarian school system, which began operations in the following year, the cost to be borne by a continuation of the government grant to teachers, a county assessment and district assessment. This, it will be noticed, is the same as the method of support in Nova Scotia. For capital expenditure, trustees were allowed to issue debentures. The three forms of support in 1925 contributed to the expenditure approximately as follows:-Government grants, \$400,059; county funds, \$211,885; and district assessment, \$2,736,480.

Landmarks in the recent history of education in New Brunswick are as follows:-

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Grant for school infraries	000
Manual training department in connection with the normal achool	0.00
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Director of vocational education appointed	210
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In 1917 the province reciprocated a similar act in Nova Scotia by admitting the 3rd, 2nd, 1st and the next higher class of Nova Scotia normal trained teachers to corresponding standing in New Brunswick for one year, providing they held the necessary Dominion physical training certificates, this temporary license to be made permanent on passing a satisfactory examinaton in School Law and Civics.

University Education.—Mention has already been made of the rise of the University of New Brunswick (founded in 1800, present charter 1860). Mount Allison University was founded in 1838 (present charter 1863) and St. Joseph's in 1864 (present charter 1898). Mount Allison still draws a large proportion of its students from Nova Scotia; in 1925 out of a total registration of 234 in regular courses 101 were from that province.

^{*}The grammar schools in Nova Scotia became the county academies which are high schools free to all the educationally qualified pupils of the county in which they are situated. Other high schools coexist with these, situated in towns other than county towns, and are free only to the pupils of the municipalities in which they are situated.

Prince Edward Island

Provision in the shape of a land grant was made for education in this Province in 1767. A national school was opened in Charlottetown in 1821. In 1825 the first Education Act was passed, authorizing the government to pay, for four years, one-sixth of the teachers' salaries and £50 to each of the three counties for masters of grammar schools. In 1837 the first Superintendent of Education was appointed, but from 1848 to 1853 the general superintendent was displaced by county superintendents*. The Free Education Act was passed in 1853 and provided for the payment of almost the whole of the teachers' salaries from the provincial treasury. In 1856 a normal school was opened. In 1860 Prince of Wales College was established; it was opened to women and amalgamated with the normal school in 1879. In 1877 the Public School Act was passed organizing the system practically in its present form. The act provided for a Chief Superintendent of Education, together with a Board of Education to consist of members of the Executive, the principal of Prince of Wales College and the Chief Superintendent. The powers and duties of the board included the establishment of normal schools with model departments, the appointment of three school inspectors, the examination and licensing of school teachers, the prescribing of text books, etc. Sources of support were: (1) The Provincial Treasury, to pay teachers' salaries and general costs of administration; and (2) Local assessment to defray all the expenses of the school district other than teachers' salaries; trustees might raise loans not to extend over seven years to meet capital expenditure. In 1925 the amounts from the different sources of support were as follows: Government grant, \$285,102; district supplement, \$85,582; other expenses paid by district \$82,015. A compulsory section of the Act requires children between 8 and 13 to attend at least 12 weeks, 6 of which are to be consecutive. The school system is non-sectarian. The Board of Education is permitted to make grants for school libraries equal to one-haif the sum raised by the district. Trustees are empowered to provide children in certain cases with text books.

An experiment in consolidation was made in 1903. In 1913 another consolidation was effected, and still another in 1916. A two weeks' course in agriculture was inaugurated by the Department of Agriculture in 1913 and a second course of two weeks in 1914. The grants under the Dominion Technical Education Act were extended to this province on the understanding

that because of its special needs it might expend them on Agricultural Education

Comparison of education in the Maritime Provinces and elsewhere in the Dominion

The Form and Purpose of Education. —In form, the educational systems of the Maritime Provinces are closely similar to each other. The acting executive head is a "Superintendent" of Education, instead of a "Deputy Minister"; while the Department of Education is linked with the government not by being under a minister, as in most of the other provinces, but through a council representing members of the government. (It would seem that the "Chief Superintendent" pervades the system rather more in New Brunswick than in the other two provinces). The common or elementary school systems so far as subject matter and medes of support are concerned are practically the same in Nova Scotia and New Brunswick. New Brunswick has a unique feature in the classroom assistant. Both in New Brunswick and Prince Edward Island the normal school for the training of teachers is an academic institution, pupils being admitted to the normal school in New Brunswick directly from the elementary grades of rural schools and given their high school training in the normal school itself. In Nova Scotia there is a complete separation between academic training in the high schools and professional training in the normal school, although an additional year of academic training is still accepted in lieu of normal school training in qualifying for the lower classes of teachers' certificates. Quebec is the only other province in Canada which resembles the Maritimes, especially New Brunswick, in respect of teacher training. There is a vaguer line of demarcation between clementary and high school work in New Brunswick than in either of the other two provinces, especially Nova Scotia. In the rural schools in New Brunswick it is difficult to distinguish where elementary work ends and high school work begins; in Nova Scotia the provincial high school examinations and a definite division into grades effect a complete separation. In consequence New Brunswick appears to have the lowest proportion in high school grades of any province in Canada, while Nova Scotia appears to have the highest. The comparison is not valid, however,

^{*}Hence the title "Chief Superintendent" used at present.

since in the high school grades in New Brunswick the rural pupils are not properly represented. The same situation existed in Prince Edward Island as in New Brunswick until the province adopted a uniform grading following the Dominion Conference on Education Statistics in 1921. Before this time it would appear as if the Island had a negligible proportion in high school outside of Prince of Wales College; it is now seen to be one of the best in this respect. Nova Scotia has long emphasized the continuity of the school system through elementary and secondary work; this encourages pupils to go on to high school, regardless of the calling they intend to follow; in New Brunswick rural pupils are graded out of the common schools either into the normal school for teacher training or into university matriculation courses,—a handicap on pupils who intend neither to teach nor to go on to a university. Perhaps Nova Scotia may be said to encourage going on to high school work for the purpose of general education regardless of another goal more than any other province in Canada. This, no doubt, is due to an inherited love of education for education's sake, while remnants of the former system persist in New Brunswick. In Prince Edward Island, as in Nova Scotia, the rural schools teach some high school work where the teacher is qualified to offer it; in New Brunswick rural schools, the elementary work is supplemented with some latin and algebra in the last two grades, and probably few go further except those intending to teach or to go on to a university. All the other provinces of Canada, except Quebec, like Nova Scotia, offer every facility to extend general education regardless of future calling through high school work.

Financial and other Problems of Support.—Conditions in this respect in the three provinces do not differ materially from those of other provinces in so far as urban schools are concerned. The rural school presents the greatest difficulty and the greatest difference. In Prince Edward Island, where the country is thickly settled and the farmers are prosperous, the main difficulty is the general unwillingness to bear taxation; in this province the chief support of education is assumed by the government. In Nova Scotia and New Brunswick the rural ratepayers shoulder the greater part of the burden, but in most sections they are less prosperous. In Nova Scotia, though the system is excellent and the material trained at the normal schools also excellent, the rural schools cannot afford to pay the teacher graduates of the high and normal schools what they can receive elsewhere. Consequently in rural schools in Nova Scotia in 1925, out of 1,560 teachers. 435 were new teachers and 864 were new to section. This means that 1,299 out of the 1,560 schools had a new teacher in that year and only 261 had the same teacher as in the previous year. Out of the 1,560 teachers, 736 had one year or less of teaching experience; 1,010 had 2 years or less; 949 had what is called a "D" certificate, or a temporary or permissive certificate (being lower than "Third" class in other provinces); 458 had a "C" certificate or what would be considered third class in other provinces; so that 1,405 had a certificate of third class rank or lower. The average salary of teachers in rural centres was \$426 for females and \$482 for males, the males forming only a very small proportion. In Ontario rural public schools the average salary of males was \$1,168 and of females \$994. There is no such discrepancy in the cost of living between the two provinces, and it is easy to see why with a normal school turning out about 400 trained teachers a year there should be only 1,827 normal trained teachers out of 3,331 in Nova Scotia, and why practically all of these normal trained teachers should be in village or urban schools. In New Brunswick the situation is somewhat better, It is clear, however, that the financial situation is the one great obstacle to rural education in the three provinces, especially Nova Scotia. Consolidation has been tried unsuccessfully in the latter province. In New Brunswick a few of the schools which were consolidated are still in operation as consolidations, and seem to be doing good work, but there has been no growth. In Prince Edward Island the need for consolidaton is not great and there is really no good reason why rural schools should not be in as favourable a position as urban schools. The three means of support, viz., government grants, county fund and district or section assessment in the other two provinces yield amounts to which the government contributes about the same proportion as in the other provinces of Canada, so that the ratepayers carry as great a share of the burden as elsewhere. The solution of the difficulty would seem to be larger units than the school section by means of which one board could levy taxes for several schools and apportion these according to the needs of each school as well as choose the teacher, arrange for consolidations, etc.

Progressiveness.—It is also clear from the historical sketch that each province is as fully awake to the necessity for the various modern improvements in education as the other provinces of Canada. Nova Scotia introduced such activities as technical education, agricultural educa-

tion, special classes, etc. quite early. Compulsory attendance at school is also well regulated. The machinery for education may be said to be in excellent shape, with good engineers to handle it, but with some lack of fuel.

University Education.—University education is handicapped by the multiplicity of degree conferring institutions. This may not be serious so far as general work in arts and pure science is concerned; it is noticeable that graduates in these faculties give as good account of themselves as those of any university in Canada in post graduate work. It is, however, a serious obstacle in the way of equipping a strong institution for applied science, research work and the professions where the training process requires expensive equipment.

Summing up. Other phases of education and the manner in which they differ in the Maritime Provinces from the other provinces have been passed over in the preceding as unimportant. Emphasis has been laid on the all important feature of the methods and means of financing schools and the consequences upon the teaching material which the rural Maritimes, especially Nova Scotia can retain. On this point perhaps alone can education in Nova Scotia be said to come second to that of any province in Canada.

While omitting detailed discussion of comparative courses of studies and other subjects connected with education, it is necessary to draw attention to one further feature, viz., the rigid selection of the material passing through the high schools of the Maritimes, particularly in Nova Scotia and New Brunswick. This will explain away the *a priori* assumption that because rural schools are handicapped and at the same time undertake high school work those who compete their high school work at them must be badly equipped educationally. This may be refuted as follows:—

In Ontario in 1925 the successful candidates by subjects at the Lower School (grades IX and X) examinations averaged 93 p.c. of the total number of candidates; in the Middle School (grade XI) they averaged 73 p.c.; in the Upper School they averaged 80 p.c. It is clear that out of every 100 candidates for Lower School 100 x .93 x .73 x .80 or 54 p.c. complete successfully the upper school in the minimum time. Thus the elimination amounts to 46 p.c.—which elimination is, of course, reduced by further examinations. Now in Nova Scotia 62 p.c. of the candidates for Grade IX were successful; 43 p.c. of the candidates for Grade X; 52 p.c. of those for Grade XI and 68 p.c. of those for Grade XII. Thus out of every 100 candidates for Grade IX, 100 x ·62 x ·43 x ·52 x ·68 or 9 p.c. are able to go straight through Grade XII. In other words, out of the 100 candidates for Grade IX, 91 p.c. are eliminated or forced to reattend and write over again before completing Grade XII. Thus the proportion going straight through in Ontario would compare with that in Nova Scotia roughly as 46 to 9 or five times as many. In New Brunswick, at the normal school entrance examinations, the proportion going straight through of every 100 candidates for third class is about 3 p.c. and the elimination 97 p.c. The other provinces in Canada show rather more failures than Ontario but few as compared with the two Maritime provinces. It is impossible to explain the climination in the Maritimes as due to deficient mental calibre in the candidates; further, since the severity does not seem to be very much less in the case of the product of urban schools than in that of rural schools, it cannot be explained satisfactorily on the score of want of preparation: the urban schools of the Maritimes are admittedly not inferior to urban schools elsewhere. Further the logical manner in which the climination proceeds in the Maritimes, being less in each successive year, shows that it is partly at least a weeding out of the poorer material so that only the best complete the work. The second year university and the upper class in the normal school select from the best 9 p.c. in Nova Scotia and the best 46 p.c. in Ontario. Assuming the mental calibre of the population in each province to be the same, it is clear that whatever superior preparation the 46 p.c. may have had they are not in a higher class than the best 9 p.c. in Nova Scotia or the best 3 p.c. in New Brunswick. The examination papers in Nova Scotia have been read by university professors who evidently weed out the weaker ones with great severity. Thus the universities and normal schools are likely to receive the very best material. The process is trying on the individual, no doubt, since he or she is either debarred from university or compelled to spend years in high school work until at last successful; but it should refute any argument advanced against the university material in these provinces.

