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Montreal, October, 1890.



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THE DOMINION STATIST

ST. LAWRENCE HALL

MONTREAL.

Few "lotels in the Dominion or on the Continent have won such wide-spread popularity for prompt and satisfactory management as has the Sr. LAWERSCE HALL, For over thirty-five years the travelling public have found the "HALL" the best and must complete equipped house in the country, in all its departments. Very sum, thus human foreight can supply, for the two the set of the set of the set of the set of the has ever provided for, and it is this attention that has given to the "HALL" its fame as the leading Hotel of Canada, both in the United States, Great Britain, and the European Continent. For ever a quarter of a century, the "HALL" has held this proad position, attives of Royalty and the precarge who have in that period visited the Metropolis of the Dominion.

THE LOCATION

of the "HALL" on St. James Street, the principal throughfare of the City, cannot be surpassed in a sanitary point of view, and is the most centrally situ-ated for all travellers. It is in the midst of the Banks Courts, and principal Public Offices, Wholesale and Retail Houses; and in its immediate vicinity are many of the chief historic attractions of the City.

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The growth of Mostreal in the past few years, and the versincreasing demand for inst-class accommo-large additions to the "HALL," which have been carried out and just completed. These additions have largely added to the comfort and beauty of the House. The massive and elegant exterior—five source high, with mansard roof, and sclear frontage of ray feet, on the most fashionable street of the City—at once attracts the attention of the tourist, and a visit inside soon assistant of the conclusion—that for polite attention and satisfactory management, the "HALL" has no accommodation for guests to over 200 well-lighted and aivip rooms, furnished in the most rasteful style, and with every modern convenience. Passenger Elevators are also provided, and the whole of the Corridors, fecating, and decorated in the most artistic manner.

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THE DINING ROOM

has been enlar ed, making it so feet long by so fee broad, and car able of seeing 400 go guess. The room has been thoroughly renovated and decorated, in an appropriate on elegant manner, by the best Italian Artists, and is lighted by Gas and Electric Light. Every attents who been paid to chanze guess the best and nost ap etizing meals with prompt and diligent waiting.

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The "HALL" has heretofore been ever in advance in this department, and intends to remain so. Having better facilities, with an accomplished (Ar'At the head, the second second second second second second transfer of the second second second second second Billiard, Hair-Dressing, Sample, and Bath-Rooms, are all connected with the Hestel. All Trains and Steamboats are met by the "HALL" busses, and police and attedvice porters are always in attendance to look after guest's baggage, etc. Rates from \$3.50, \$3.50, \$3.50 per day according to location. Mr. Hooran, the genial proprietor, is still to the fore, and gives his personal supervision to all depart-ments of the House, thus securing for his guests every attention required.

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-The Dominion Statist.-

A RECORD OF CANADA'S PROGRESS SINCE CONFEDERATION.

Entered according to Act of Parliament, in the year one thousand eight hundred and ninety, by THE CITIZEN PRINTING AND PUBLISHING COMPANY, at the Department of Agriculture.

OTTAWA, OCTOBER, 1890.

THE DOMINION STATIST.

We issue the first number of THE DOMINION STATIST, containing a vast amount of general information. It will be found strictly reliable, and should its reception be such as to justify regular publication, an effort will be made to do so. Any suggestions or words of encouragement from the press as well as commercial and financial authorities will be extremely acceptable.

CITIZEN PRINTING AND PUBLISHING CO., 48 & 50 Queen Street, Ottawa, Ont.

THE DOMINION AS IT IS.

The area of the Dominion of Canada is estimated at 3,379,000 square miles, or, including its water surface, 3519,000 square miles. It is the largest of all the British Possessions, constituting 40 per cent. of the Empire, the total area of which is over 8,000,000 square miles. Canada lacks only 237,002 square miles of being as large as the whole continent of Europe; it is nearly thirty times as large as Great Britain and Ireland, and is 500,000 square miles larger than the United States, exclusive of Alaska. Canada covers rather more than one-fourteenth part of the earth's surface, but contains only 0^{10} two-bundred-and-eighty sixth part of the estimated population of the world.

Canada extends from the Atlantic to the Pacific Ocean, a distance of 3,500 miles, and from the United States boundary to the Arctic Ocean, a distance of 1,400 miles, and comprises all the British possessions in North America, excepting Newfoundland, Labrador and the West India Islands. Some idea of this immense country and of its great water-ways-the most extensive in the world-may be had when we state that its coast line on the Atlantic measures 10,000 miles, and over 7,000 miles on the Pacific; that, 2,000 miles from the ocean, the traveller may lose sight of land and be prostrated by sea-sickness; and that, with one transhipment at Mon treal, goods can be landed at the head of Lake Superior, in the centre of the continent, 4,600 miles from Liverpool. Entering Canada from the north by Hudson's Bay, the ocean ship reaches, at Port Nelson, the outlet of a river system stretching, with few interruptions, to the very backbone of the continent, and draining an interior basin, more remote than

that of the St. Lawrence, of over 2,000 000 square miles in extent. In the prairie region the Saskatchewan affords 1,500 miles of steamboat navigation. Close upon the north of it commences the Mackenzie River basin, extending over 550,000 square miles. This great stream, with its tributary lakes and rivers, affords, with trifling obstacles, upwards of 2,000 miles of water-way navigable for steamboats.

From Port Nelson to Liverpool the distance is 2,966 miles; from New York to Liverpool 3,040 miles, and from Halifax to Liverpool 2,463 miles.

In Ontario, Quebec, Nova Scotia, New Brunswick and British Columbia we have the greatest forest regions in the world: in the central portion of Canada we discover a vast tract unexcelled for the production of cereals, and which is yet only in the first stage of development: in the extreme eastern and western provinces of Nova Scotia and British Columbia, as also midway beneath the prairies, lie extensive coal fields, while the sea fisheries of the Maritime Provinces, and the fresh water fisheries of the great lakes and rivers, furnish an illimitable supply of food, vastly in excess of the needs of the country.

While a considerable portion of Canada is unavailable for cultivation, yet, as the North and North-West are gradually opened up, enormous tracts of good land are revealed, so that the area of agricultural and timbered lands is now estimated to exceed 2,000,000 square miles, of which over 1,000,000 are adapted to the cultivation of wheat. A competent American authority has stated that Canada possesses two-thirds of the wheat producing area of this continent. The northern part of the centre of the Dominion, extending from the Rocky Mountains to Hudson's Bay, is very extensively wooded, and has been generally considered, for the most part, unfit for settlement and useful only as a preserve for fur-bearing animals. A parliamentary enquiry, however, has had the effect of dissipating this idea. The area enquired into covers about 1,260,000 square miles, of which it is estimated 860,000 are fit for settlement, and the remaining 400,000 useless for cultivation; 656,000 square miles are suitable for potatoes, 407,500 for barley and 316,000 for wheat. There is a river navigation of 2,750 miles. This territory contains large auriferous deposits, as well as silver, iron, graphite, ochre, brick and pottery clay, mica, gypsum, lime and sandstone, "while the petroleum area is so exten-"sive as to justify the belief that eventually it will supply " the larger part of this continent." Furs are at present the chief commercial product of this region, which is the last

great fur preserve of the world. The lakes and rivers abound in fish.

Minerals of almost every kind are known to exist in Canada. Gold is mined extensively in British Columbia and Nova Scotia and has also been found in Ontario and Ouebec.

The natural industries of Canada may be enumerated under the following heads :—Agriculture and stock-raising, fishing, mining, lumbering and shipbuilding.

The manufacturing industries are spread all over the Dominion, and comprise factories for the production of agricultural implements, carriages, wagons, railroad rolling stock, including locomotives, cotton and woolen goods, pianos and organs, machinery, furniture, paper, soap, woodenware, boots and shoes, cloths and linens, doors, sashes, staves, tobacco, cheese ; also sugar refineries, saw mills, tanneries, iron and hardware works, and establishments for the canning of meat, fish and berries.

Products of the Farm.

The agricultural industry is the most important to Canada, for the number of persons relying upon it for a livelihood far exceeds that depending on any other pursuit.

The wheat crop of 1889 was a long way from the average. The yield in Ontario was only 18,699,572 bushels, being 8,161,304 bushels below the average of eight years, while that in Manitoba was only 7,201,519 bushels. Canada's total product of wheat in 1889 is estimated at 31,217,494 bushels. Barley and peas in Ontario were fair crops, and the yield of oats was large, but the weight light. The root crops were inferior, but hay was good and above average In. the other provinces the crops were generally good, but no returns are available.

The wheat crop of 1890 was the largest ever raised in Canada, and was harvested in excellent order. It is estimated that the crops in Ontario, Manitoba and the North-West will exceed that of 1889 by 15,000,000 bushels; and, owing to the fact that the large exporting countries have small crops this year, there is every reason to expect good paying prices for the Canadian product. From the bulletin issued by the Ontario Bureau of Industries we learn that, compared with the annual average of the eight years, 1882-89, there is this year a decrease in Ontario crops of 2,400,000 bushels of wheat, 4,000,000bushels of barley and 500,000 bushels of oats, but an increase of 3,000,000 bushels of peas, 400,000 bushels of beans and 1,264,000 tons of hay and clover, the last being the most important crop now grown.

The total wheat crop of the world in 1889 is placed at 2,041,075,627 bushels, being about 4,000,000 bushels less than in 1888. The wheat crop of the United States was 460,560,000 bushels, or 74,692,000 bushels in excess of 1888.

The United Kingdom is the largest importer of wheat, and the British demand has a most important effect on the price all over the world. The following statement shows

the quantity of wheat and wheat flour imported into the United Kingdom in 1888, and from what countries :---

Countries.	Bushels.	Countries.	Bushels,
United States. Russia British India. Germany Austrian Territories.	40,583,248 15,243,674 8,700,981 4,778,011	Canada. Chili. Roumania Egypt. Other Countries.	3,865,760 2,773,607 2,646,379 1,375,845 5,298,236
Australasia Total	4,441,670		146,345,57

The average yield of wheat per acre in some of the principal wheat-producing countries is given below :---

Countries.	Yield Per Acre.	Countries.	Yield Per Acre
Great Britain Austria. Hungary France Germany Russia India. United States.	19.24 18.18 19.47 8.96 0.21	New South Wales. Victoria. South Australia Queensland . Western Australia. Tasmania. New Zealand. Canada	Bush. 13.92 11.35 7.78 10.56 11.71 18.31 26.04 18.78

According to the returns of the U. S. Department of Agriculture, the average value of wheat per acre in the United States, in 1888, was 10.31; and, according to the Ontario reports for the same year, the value per acre in that province of fall wheat was 17.14, and of spring wheat 17.42.

A very remarkable aud satisfactory change has occurred in the trade in wheat, flour and other breadstuffs, in the last ten years, as will be observed by the following figures :----

TEN YEARS, FROM	Total value of Breadstuffs Imported,	Total value of Breadstuffs Exported.
1870 to 1879	\$118,886,596	\$147,594,111
1880 to 1889	31,152,587	154,833,463

These figures show that while in the last decade the value of the imports of breadstuffs for hone consumption decreased nearly \$88,000,000, the exports of the same, being the produce of Canada, increased more than \$17,000,000, With an increasing population Canada has not only imported less each year by almost \$9,000,000 in value, but she has increased her exports by nearly \$2,000,000 annually. The home market has been reserved for our own farmers, while they have made a very large inroad on the foreign market also. (The annount of noney which has thus been retained in Canada must be very large indeed.

The annual product of Canadian barley is about 28,000,000 bushels, the principal market for which has been in the United States, which, in 1889, took 9,934,501 bushels out of a total exportation of 9,948,207 bushels. There is a possibility, however, that the trade with the United States will fall off, and looking to such a contingency, experiments were this season tried in raising two-rowed barley, for which a ready market exists in England. If the attempt proves successful, and the Canadian product finds favor with English maltsters, the result will be immensely profitable to our farmers.

Previous to 1872, no meat, live or dead, was exported to Great Britain, except some salt beef. In that year the

export of live cattle may be said to have commenced, and some idea of the extent and importance of the trade which has since developed may be gathered from the statement that in the sixteen years ended 1889, the value of cattle and sheep exported to Great Britain was \$49,602,498, and to the United States \$20,782,430. During the same period the value of horses, cattle and sheep exported from Canada to all countries was \$98,520,749.

Large importations of stock have, in the last few years, been made into Manitoba and the Territories, where the industry of stock-raising is being extensively prosecuted.

In 189 there were imported into Great Britain 502, 158cattle and 677,963 sheep, of which Canada contributed 16.82 and 8.35 per cent. respectively. An estimate of the British consumption of meat may be gathered from the fact that in London, at the Smithfield market alone, the quantity of dead meat received in 1887 was 260,000 tons, in 1888264,000 tons, and in 1889 276,000 tons. As there seems to be no limit to the demand, so there need be, practically, no limit to Canada's capability of supplying it.

But there are other articles of food which Canada is also well adapted to produce, for which there is an enormous demand in Great Britain, and in which a much larger trade might easily be done were proper attention given to their production. The following table shows the imports of provisions into the United Kingdom in the year 1888, and whence obtained :--

Articles.	From Canada,	From U. States.	From other Countries.	Total.	Percentag	
			Countries.		Canada U	States
Cattle No	60,977	143,495	172,616	377,088	16.17	38.05
Sheep "	45,339	1,203	909,668	956,210	4.73	0.12
Mutton)	30	8,016	1,098,525	1,106,571		0.72
Beef, salted	13,186	239,432	1,558	254,176	5.18	94.20
" freshg	104	878,560	58,394	937,058	0.01	93.75
Meats, all other≜						
kinds 8	74,692	298,588	297,954	671,234	11.12	44.48
Pork, fresh and						
salted,	3,676	167,777	376,622	548,075	0.67	30.61
Bacon and ham	176,493	2,825,917	1,023,107	4,025,517	4.38	70.20
Lard, tallow and ≥						
stearine	46,361	1,281,927	946,392	2,274,680	2.04	56.36
Butter	10,424	26,463	1,835,118	1,872,005	0.54	1.41
Cheese	748,535	909,810	489,385	2,147,730	34.85	42.36
Poultry\$	*******	29,240	1,988,445	2,017,685		1.45
Eggs Doz	1,710		93,897,680	93,899,390		****
Wheat Bush	2,033,963	27,334,668	77,519,247	106,887,878	1.90	2.55
Barley "		122,313	49,590,170	49,712,483		0.25
Oats "	84,293	*******	61,748,555	61,832,848	1.14	****
reas	867,703	329,431	3,347,034	4,544,168	1.09	7.25
Flour Bbls	439,631	7,032,838	1,997.378	9,469,847	4.64	74.26
PotatoesBush	*******	*******	4,449,772	4,449,772		****
Onions,			3,484,990	3,484,990		
appres	875.863	1,648,890	1,271,839	3,796,592	23.07	43.43
do dressed and	******	*******	20,268,320	20, 268, 320		****
undressed Cwt			1,785,251	1,785,251		****

A reference to the two following tables will show that Canada's export trade in provisions has not developed as largely as could be desired, and that there is room for much improvement in this respect.

QUANTITIES OF PROVISIONS, THE PRODUCE OF CANADA EXPORTED DURING THE YEARS MENTIONED :

Years.	Bacon, Ham, Pork and Lard. Ibs.	Beef. Ibs.	Other Meats. Ibs,	Cheese, lbs.	Butter. lbs.	Eggs. doz.
1874	33,607,465	6,610,016	25,787	24,050,982	12,233,046	4,407,534
1885	8,771,082	542,209	961,061	79,655,367	7,330,788	11,542,703
888	7,389,128	550,630	3,868,274	84,173,267	4,415,381	14,170,859
1889	4,443,38x	449,158	1,554,504	88,534,837	1,780,765	14,028,893

TOTAL VALUE AND QUANTITY OF PROVISIONS, THE PRO-DUCE OF CANADA, EXPORTED DURING THE YEARS MENTIONED, AND WHENCE EXPORTED :

1	тот	AL.	VALUE EXPORTED TO.							
Years.	Quantity. Ibs,	Value. \$	Great Br'tain. \$	United States, \$	Newfound- land. \$	Other Countries. \$				
1874	83,126,412	9,126,051	7,084,349	1,741,948	246,273	53,481				
1885	114,574,561	12,386,413	10,164,414	1,941,736	233,866	46,397				
888	121,652,969	12,895,938	10,380,015	2,284,300	197,700	33,923				
1889	117,805,984	11,946,151	9,480,580	2,253,680	178,634	33,257				

As regards the decrease in the exports of pork, bacon, hams and lard, an enquiry made by the Ontario Department of Agriculture shows that attention to the best modes of feeding and to breeding are apparently all that is required to enable Canadian farmers to supply the demands of packers for both the home and English markets. The decrease in the export of butter is attributed almost entirely to carelessness in producing an article of sufficiently high quality to obtain a ready sale in the English market. Recognizing the importance of encouraging this industry, the Federal Government has recently appointed a Dairy Commissoner to give practical lessons in butter and cheese making.

There were 404 cheese factories made returns in Ontario in 1888, showing the manufacture of 38,336,589lbs. of cheese, from 402,599,463 lbs. of milk, given by 150,-618 cows; the value of the cheese was \$4,515,188. There were also 31 creameries in operation in that province, which made 677,279 lbs. of butter and 153,247 lbs. of cheese. No returns are available from the Province of Quebec (where there are said to be 672 cheese factories and creameries), or from the Maritime Provinces.

The total quantity of butter imported into Great Britain in 1888 was 187,200,496 lbs., of which only 1,042,384 lbs. came from Canada. The Australasian Colonies, particularly New Zealand, are meeting with great success in establishing a butter and cheese export to England, whence in 1888 they shipped 2,858,800 lbs. of butter. If these colonies can make it pay, why not Canada, especially when the gain in distance and consequence freight charges is considered ? Denmark is a striking example of what can be accomplished by diligent attention to the best modes of farming. A few years ago, Danish butter and bacon were almost unsaleable on the English market, now their butter fetches the highest price in London, and their bacon is rapidly superseding that from Ireland, Canada and the United States. With a population less than half that of Canada, Denmark exported Great Britain in 1888 over \$18,000,000 worth of butter.

The exports of cheese have steadily increased, and in 1889 were 268 per cent. more than in 1874, almost the entire quantity being taken by the United Kingdom. That country in 1888 imported 90,980,960 lbs. of chesse from the United States, and 74,853,520 lbs. from Canada.

The following table shows the values of the total imports for home consumption into Canada of certain articles of agricultural produce, and the exports of the same, being the produce of Canada, for the year 1889; also the values

of said articles imported from, and exported to the United States.

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ARTICLES.	Impor Home Cor		Exports, the produce of Canada.		
	Tota Value.	Value from U. S.	Total Value.	Value to U. S.	
Cattle	\$	\$	\$	\$	
Sheep	21,750 81,863	21,750 81,863	5,708,126	488,266	
Mutton	13,555	13,555	8,570	6,064	
Swine	37,002	3,002	5,175	4,448	
Pork, Bacon, Hams, Lard	1,964,602	1,963,441	407,884	1,119	
Beef and Tallow	197,891	195,685	33,012	3,371	
Butter	77,659	77,228	331,958	7,879	
Cheese	16,046	11,209	8,915,684	31,473	
Poultry and Eggs	105,386	100,923	2,213,767	2,208,45	
Wheat	12,734	12,623	471,101	26,591	
Barley Dats	3,263	2,885	6,464,589	6,454,603	
Pease	801,0	8,567	1,449,417	312,650	
Com	1,266,010	1,266,010	402	914,030	
Cornmeal	368,507	368,495	507		
Flour (Wheat)	1,000,301	993,227	646,068	8,314	
Potatoes	24,490	24,469	287,763	192,576	
Apples, Green or Ripe	121,782	121,782	1,528,449	230,108	
All other Fruits	335.507	311,992	99,369	88,992	
	\$5,680,287	\$5,635,146	\$29,966,618	\$10,990,069	

The total number of horses exported from Canada to 3oth June, 1889, was about 300,000, of which 289,400 were sent to the United States. The total number imported, during the same period, principally for breeding purposes, was 36,116. Horse breeding prevails more or less generally in Canada, but is being made a special industry in Alberta, N.W.T. The number of ranches in operation in 1889 was 115, comprising 3,113,878 acres, and the quantity of stock in the grazing districts of Alberta and Assiniboia was, as far as returns are available, 166,968 cattle, 13,322 horses and 44,822 sheep. The actual numbers are undoubtedly larger. No information is available as to the quantity of stock in other portions of the Territories.

The following comparative table will give some idea of the progress made by the Province of Manitoba between 1887 and 1889 :---

		1887.	1889.	Increase.	
Number of	Horses	29,915	45,746	15.831	
44	Cattle	101,682	148,209	46,527	
64	Sheep	12,540	31,341	18,801	
	Pigs	35.713	51,657	15,944	
**	Stallions	411	642	231	
Area prepa	red for crop, acres	636,295	893,402	257,107	

Financial Position of the Dominion.

The revenue and expenditure for the year ended 30th June, 1889, were as follows :---

Revenue	\$38,782,870
Expenditure	36,917,835
Excess of revenue	

The revenue was derived from the following sources :--

Customs	\$30,613,523		
Public Works, Railways and Canals Post Office Interest on investments Miscellaneous	3,642,567 2,220,504 1,305,392 1,000,884	\$18.782.870	

The expenditure was incurred as follows: -

Charges for debt Subsidies to Provinces	\$12,159,166 4,051,428	
Civil Government and Legislation		
Public Works, Railways and Canals	6,798,278	
Post Office	2,982,322	
Militia and Defence	1,323,552	
Indians	1,112,776	
Miscellaneous	6,507,429	\$36,917,835

The progressive increment in the revenue and expenditure may be observed from the following table :---

	AMOUNTS RECEIVED.						
HEADS OF REVENUE.	1868.	1875.	1882 .	188 <u>9</u> .			
Customs and Excise Public Works, including Rail- ways and Canals.	\$11,700,681	\$20,664,878	\$27,549,046	\$30,613,523			
Post-Office. Interest on investments Other sources.	901,466 525,692 126,420 433,669	1,432,360 1,155,332 840,887 555,258	2,711,134 1,587,888 914,009 621,378	3,642,567 2,220,564 1,305,399 1,000,884			
	\$13,687,928	\$24.648,715	\$33,383,455	\$38,782,870			
HEADS OF EXPENDITURE.	1868.	1875 .	1882.	1889.			
Charges for Debt and Sub-							
Civil Government and Legis-	7,969,990	11,124,726	12,757,572	16,210,594			
lation. Public Works, Railways and	1,190,252	1,481,539	1,528,232	1,982,88.			
Canals Administration of Justice, in	712,315	3,743,935	4,182,962	6,583,19			
cluding Penitentiaries Militia and Defence Other Expenditure.	500,612 1,013,016 2,099,907	834,998 1.013,944 5,513,929	875,313 772,812 6,950,912	1,005,243 1,323,553 9,812,370			

The receipts from taxes, derived, as they are, solely from Customs and Excise duties, furnish, in the absence of any extraordinary increase in the tariff, a very fair index of the trade of the country and the progress of its people. The proportionate increase in taxation, during the past 22 years, being far greater than that in population, demonstrates conclusively that the purchasing power of the people has advanced in much greater ratio than the burden of taxation, the increase in taxation being 161 per cent, and the amount per head 75 per cent. It is noticeable also that in four years only since Confederation has the taxation been in smaller proportion to the total revenue than in 1889.

The duties paid on wines, liquors, malt, and tobacco in 1868 amounted to \$4,820,826, and in 1889 to \$9,248,234, or more than 30 per cent. of the entire receipts from taxation. The duties on tea, coffee, chocolate, etc., which in 1868 amounted to \$997,912, and in 1871 to \$1,219,655, were in 1889, owing to a reduction of the tariff in 1882, only \$50,366. The consumption of tea and sugar per head is generally considered one of the best standards by which to judge the condition of a people. An application of this test to Canada is attended with the most satisfactory results. In 1868 the consumption of sugar was 15 lbs. per head; in 1877, 23 lbs.; in 1889, 44 lbs. Of tea, the consumption was in 1868, 2 lbs. per head; in 1877, 3'4 lbs.; in 1889, 44 lbs. In England the consumption per head of sugar is 73 lbs., and of tea 4-95 lbs.

The following table shows the taxation at various periods since 1868; also the amounts raised from duties on wines, liquors and tobacco, and on tea and coffee; also the average taxation per head and its percentage of the total revenue:---

Year.	Duties paid on Wines, Liquors and Malt.	Duties per Head.	Duties paid on Tobacco and Cigars.	Duties per Head.	Duties paid on Tea, Coffee, &c.	Duties per Head.	Gross amount of Taxation.	Gross Taxes per Head.	Percentage of total Revenue.
1868 1875 1882 1889		1.23 1.28 1.17 1.29	679,473 1,623,074 2,132,941 2,682,398	.20 .42 .48 .53	997,912 425,734 452,561 50,366	.30 .11 .10 .01	11,701 681 20,664,878 27,549,046 30,613,523	3-47 5-32 6-22 6-03	82.52

Deducting the duties paid per head on liquors and tobacco, the result for 1889 shows a reduction of taxation per head of 26 cents, as compared with the year 1882.

The following is a comparative statement of the revenue and expenditure, per head, of various countries; also the amount of taxation per head and its proportion to the general revenue :—

	Revenue Expendi-	Expendi-	Taxation.		
Country.	per head.	ture per head.	Per head.	Percentage of Revenue.	
United Kingdom United States Canada. Newfoundland. Jamaica. New South Wales. Victoria. South Australia.	7.64 7.04 5.48 12.34 39.83 33.94 38.14	11.22 4.32 7.27 9.40 4.90 11.90 39.35 32.51 36.33	9.93 5.48 6.03 12.68 13.56 10.07	83.85 92.1 78.93 34.39 43.14 32.20	
Western Australia. Queensland. Tasmania. New Zealand. Cape of Good Hope. Natal. France.	39.91 21.31 32.93	41.48 42.31 23.63 31.75 11.11 10.57 19.77	22.03 18.37 13.05 15.31 7.79 3.28 11.69	,50.00 44.15 63.11 54.16 56.00 42.28 72.4	

The cost of collecting the Customs Revenue in 1889 was only 3.65 per cent. The average cost since Confederation has been 34.60 per cent. In the United Kingdom the cost is 4.62 per cent.

The gross public debt of Canada on 30th June, 1889, was \$287,722,063, and the net public debt \$237,530,042, an increase over the preceding year of \$3,208,221 and \$2,998,683 respectively. The assets on 30th June, 1889, amounted to \$50,192,021, an increase of \$209,538 since the previous year. The debt of Canada has been consequent upon the assumption of the several provincial debts existing at the time of Confederation, the expenditures incurred in the construction of the Intercolonial and Canadian Pacific Railways, and other public works, the enlargement and improvement of canals, harbors and rivers, the acquisition and management of the North-West Territories, and a subsequent re-arrangement of the Provincial debts. Yet the present net debt is some \$7,000,000 less than the amounts expended for the Intercolonial and Canadian Pacific Railways, for canals and for the debts of the provinces.

The total expenditure on capital account since Confederation, to 30th June, 1889, was \$178,102,143, as follows :----

Debts allowed to provinces Canadian Pacific Railway					• •	• •		\$30,743,392 61,899,600
Intercolonial Rai way								40,375,246
Canals				1		۰.		32.841.032
North-West Territories								3,785,296
Dominion Lands								2,989,462
Public Buildings, Ottawa			• • •		• •			2,001,796
Other Public Works	• • •	• • •	•	• •	• •	•	• •	3,465,688
Increase of debt								\$178,102,413 161,801,400
Expenditure in excess of Increase	of	D	eb	t.				\$ 16,301,013

Taking into account the expenses attendant on the acquisition of the North-West Territories, and including payments charged to revenue, there has been expended on public works, since Confederation to 30th June, 1889, the sum of \$177,-366,007. Add the amount expended by the Provincial Governments before Confederation, viz.: \$63,635,092, and we have a total of \$241,001,099.

An official return, corrected to 4th September, 1890, gives the following financial statement for the year ended 30th June, 1890:—

(EV	EN	U	E-	
-				

Customs	
Surplus Revenue	\$ 4,004,238
EXPENDITURE ON CAPITAL ACCOUNT-	
Public Works, Railways and Canals \$ 3,925,080 Railway Subsidies	
Gross Debt\$286,089,126 Assets	\$ 5,737,358
Net debt 30th June, 1890\$238,048,638	

In 1868, the assets amounted to \$17,317,410, and in 1889 to \$50,192,021, an increase of \$32,874,611. The assets comprise only interest-bearing investments, loans, cash and banking accounts, no credit being taken for unsold Government lands nor for railways, canals, public buildings or other works which the Government either own or to the construction of which they have contributed. In 1868 the interest-bearing assets amounted to \$15,853,720 or 91 per cent. of the whole amount ; in 1889 they were \$32,479,453or 65 per cent. of the whole.

The actual interest paid on the debt for 1889 was 10,148,931, and the average rate per cent. was 3.52, a decrease of 1.12 since 1868. The interest received from assets was 3,305,392, thus reducing the amount of the interest charge to 88,843,539, and the average rate of interest paid to 3.07per cent.—the smallest rate, excepting the years 1884-85-86, since Confederation.

The Dominion notes in circulation, and which bear no interest, have increased from \$3,113,700 in 1867 to \$15,-

426,281 in 1889. The fixed charges, being those for debt, sinking fund and provincial subsidies, amounted in 1868 to 58 per cent. of the revenue, but in 1889 to only 42 per cent.

The net debt per head in 1889 was \$46.79, a decrease of 38 cents per head since the previous year, and the net in. terest paid per head was \$1.74, a reduction of five cents over 1888. The net debt per head in 1868 was \$22.47, and the net interest paid \$1.29. It will be observed that while the amount per head of the net debt has increased over 100 per cent. since Confederation, the net interest paid has increased only 35 per cent. The most favorable Canadian loan negotiated was that of 1888, at a rate of in terest equivalent to \$3.27 per cent., and the most expensive loan was that of 1874, costing equivalent to \$4.87 per cent.

The following statement shews the net indebtedness of Canada per head in comparison with other countries.

Country.	Per Head.	Multiple of Revenue.	Country.	Per Head.	Multiple of Revenue.
Canada United Kingdom Cape of Good Hope	46.79 89.39 75.94	6.12 7.89 6.51	West'n Australia Queensland Tasmania	147.28 324.57 146.22	3.57 8.13 6.86
New South Wales Victoria South Australia.	197.67 154.48 292.75	4.98 4.55 7.68	New Zealand France United States Peru	296.30 150.32 26.06 96.00	9.00 9.94 4.38 41.27

The total public debts of Great Britain and her posses, sions amount to \$5,546,405,200, of which Great Britain owes 61 per cent., India 17 per cent., the Australasian Colonies 15 per cent., and Canada 4 per cent. In 1868 five and a half years' revenue would have sufficed to pay off Canada's net debt; it would now require a little over six years' revenue. The net debts of the various provinces aggregate about \$16,000,000. Add this amount to the Dominion debt and the average indebtedness per head is raised to \$49.94. No figures are available for determining either the county, municipal or civic debts of Canada.

The proportions of debt to population in the Australasian colonies, and also in Cape Colony, are very large; but while, as in Canada, the whole amounts have been incurred in the construction of public works, by far the largest portion has been expended on railways which, in those colonies, are almost altogether the property of the State. There is consequently a very much larger revenue that: in Canada, where the money has been spent on works directly productive to the country, but only indirectly so to the State revenue. In proportion, moreover, to the wealth and general trade of the Australasian Colonies, their populations are very scanty.

The most accurate mode of judging the financial position of a State is to measure its obligations by its wealth; but this is a difficult thing to do, and, naturally, a large expenditure precedes the development of a country's resources. Mr. Mulhall calculates that the debt of the United Kingdom is 8 per cent, of the Australasian Colonies 20 per cent, and of Canada $6\frac{1}{2}$ per cent. of the national wealth of each country respectively.

The total amount paid in 1889 on account of pensions, superannuation allowances and gratuities was \$334,963. In

the same year the pension list of the United States was \$87,624,779.

There were 39 incorporated banks made returns to the Government for the year ended 30th June, 1890. The following table gives particulars of their operations in 1868, 1879, 1889 and 1890:—

Years.	Paid-up Capital,	Circula- tion.	Deposits.	Liabilities.	Assets.	Percentage of Liabilities to Assets.
1868 1879 1889 1890	\$ 30,289,048 64,159,427 60,236,451 59,569,765	\$ 8,307,079 18,090,814 31,209,972 32,059,178	\$ 32,808,103 71,368,502 136,293,978 138,433,800	\$ 43,722,647 93:375:749 175,062,257 174,501,422	\$ 77,872,257 170,446,074 255,765,631 254,628,694	54-78 68-44

There were 27 incorporated banks made returns to the Government for the year 1868, 12 less than in 1890. The following are the proportions of increase of 1890 over 1868:--

Amount of	paid up Capital	96%	per cent.
**	Circulation		
66	Deposits	322	**
**	Liabilities		**
"	Assets		**

Compared with 1889 the figures for 1890 shew an increase in deposits of \$2,139,822; in discounts of \$3,283,376; in circulation of \$849,206.

The total amount of reserve held by the banks on 30th June, 1890, was \$21,094,035. The Montreal Clearing House, established in 1889, shewed operations for that year of \$454,560,667, placing Montreal eleventh in the scale of North American cities having clearing houses.

There were 1668 failures in 1888 and 1747 in 1889, representing liabilities of \$13,974,787 and \$14,528,884respectively. This increase lay almost entirely in the Province of Quebec, and is attributable to a succession of bad harvests with low prices, rendering the faimers unable to meet their obligations and causing the collapse of small traders.

The Post Office Savings Bank system was inaugurated in 1868. On 1st July, 1868, there were \$1 offices, and the total amount on deposit was \$204,589. On 1st July, 1889, there were 463 offices, and the total amount on deposit was \$23,011,422. Almost the whole of this enormous increase has taken place during the last ten years, the amount on deposit 1st July, 1879, having been only \$3,105,190. The amount on deposit in the Government Savings Banks on 1st July, 1889, was \$19,944,935. The business of these latter institutions is being transferred, as fast as practicable, to the Post Office Savings Banks : consequently their balances will gradually become smaller.

The following statement shews the development of these institutions since Confederation :---

Year.	Total Deposits P. O. Savings Banks.	Total Deposits Govt, Savings Banks,	Grand Total.	
1868	204,589	1,483,219	1,687,808	
1874	3,204,965	4,005,295	7,210,260	
1879	3,105,190	6,102,492	9,207,682	
1889	23,011,422	19,944,935	42,956,357	
1899	21,990,653	19,021,812	41,012,465	

A considerable falling-off is noticeable in the deposits during the year ended 30th June, 1890, which is attributable to the reduction in the rate of interest during the year from 4 per cent. to $3\frac{1}{2}$ per cent.

Thirty-three Loan Companies and Building Societies made returns in 1874, and 78 in 1888, shewing an increase in paid-up capital of \$24,368,201, and in total loans of \$81,408,989. The following table shews the transactions for 1874 and 1888:—

		Liab	ilities,			Assets,	
Year.	Paid up Capital.	Reserve Fund.	Deposits.	Total Liabilities.	Total Loans,	Cash and Property.	Total Assets.
1874 1888	8,042,157 32,410,358	1,336,462 8,420,735	4,614,812	16,229,407 107,978,976	15,469,823 96,878,812	1,104,387 15,168.232	16,229,407 199,430,158

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The total amount of money on deposit in 1889, in the Chartered Banks, Savings Banks, and in the hands of Loan Companies was upwards of 207,446,000, equal to 40 per head of the population.

It is generally admitted that the deposits in the Saving's Banks afford an accurate indication of the saving power of the people, and Canada's showing, in this respect, must be regarded as highly satisfactory. Owing to the restrictions placed upon the amounts of individual deposits, these institutions cannot be and are not the banks of the moneyed classes, but rather of the working people. Taking the figures of the Post Office Savings Banks alone, we find that between 1870 and 1877, the number of depositors increased from 12,178 to 24,074, or 97 per cent.; and the deposits increased from \$1,588,848 to \$2,639,937, or 66 per cent.; while between 1878 and 1889, the number of depositors rose from 25,535 to 113,123, or 343 per cent., and the deposits from \$2,754,484 to \$23,011,422, or 736 per cent. !

Telegraph Facilities.

The principal telegraph lines are in private hands, the Government owning and operating a mileage of only 2,624 miles out of a total of 29,239 miles. There are only seven countries which have a greater telegraphic mileage than Canada, and with the exception of some of the Australasian colonies, no other country possesses the same telegraphic facilities in proportion to population. The telegraph business of Canada is principally in the hands of the Great North-Western Telegraph Company, the Canadian Pacific Railway Company, and the Western Union Telegraph Company. These institutions own 27,000 miles of line, operating 60,000 miles of wire, with 2,331 offices.

The telephone system is rapidly developing, so fast indeed as to preclude the possibility of obtaining present accurate statistics. The Bell Telephone Company of Montreal is the chief operator, having, by latest available returns, 325 offices, 18,114 sets of instruments, and 17,489 miles of wire. These figures, however, d_{2} not include Nova Scotia, New Brunswick, Prince Edward Island, or British Columbia, all of which are worked by separate companies.

Trade and Commerce.

The total value of the import and exports for the year 1889 was \$115,224,931 and \$89,189,167 respectively, and the amount of duty collected \$23,784,523.

The following table gives the value of the imports and exports and aggregate trade at various periods since Confederation :---

Year.	Imports.	Per Head.	Exports.	Per Head.	Total Trade.		Duties Collected.	Per H'd
1868 1873 1879 1883 1887 1888 1889	73,459,644 128,011,281 81,964,427 132,254,022 112,892,236 110,894,630 115,224,931	34.89 19.77 29.28 23.16 22.30	57,557,888 89,789,922 71,491,255 98,085,804 89,515,811 90,203,000 89,189,167	24.48 17.24 21.71 18.36 18.14	131,027,532 217,801,203 153,455,682 230,339,826 202,408,047 201,097,630 204,414,098	59.37 37.01 50.99 41.52 40.45		3-55 3-12 5-13 4-61 4-40

The value of imports in 1889 has been exceeded six times and the value of exports nine times since Confederation, and in five years during the same period, the total trade was larger than in 1889. The amount of duty was the largest collected in any year, being 169 p. c. larger than in 1868, though the amount per head increased only 79 per cent. Only once in these 22 years have the exports exceeded the imports in value-in 1880. The average annual excess of imports over exports has been \$20,565,389. This must not be accepted as an indication that Canada is not prospering. The imports into the United Kingdom have, for many years, largely exceeded the exports, yet it will not be claimed that Great Britain is retrograding. India, on the other hand, has had a large excess of exports for severa years, and yet is not prospering financially. The amount of trade done by the United States is exceeded by only three countries in the world, and is therefore many times larger than the trade of Canada, though in proportion to population the trade of the Dominion is considerably in advance of that of the United States, the figures being for Canada \$40.27 per head, and for the United States \$22.88 per head.

The decrease, since 1883, in the value of Canada's trade is more superficial than real. The decline in value of many of the principal articles of merchandise has been so marked that, at the prices prevalent a few years ago, the trade of 1889 would have been in excess of the highest point yet reached. A comparison of the quantities and values of the principal articles of food exported in 1882 and in 1889 shows that the percentage of increase or decrease in value has been invariably smaller or larger than the corresponding percentage in quantities. An application of the prices prevailing in 1873 to the imports of 1879 shows a proportionately similar result, and if an average increase of 50 per cent. be allowed, it will be found that the trade of the country has the progress is not apparent in figures.

The percentage of duty on the total value of imports in 1889 was \$20.60, being the highest yet attained. Of the total amount of duty collected, \$9,450,243, or 40 per cent, were on goods from Great Britain, and \$7,371,148, or 32 per cent. on goods from the United States, being the same proportion as in 1888. The next largest amounts were on

goods from the West Indies and Germany, the sums being \$1,727,816 and \$1,266,638 respectively.

The following table shews the value of Imports entered for Home Consumption, and of Exports, the produce of Canada, from and to the Countries named, with the proportions in each case to the total value, for the years 1879 and 1889:--

Countries.	Imports, 1879-	Per Centage.	Imports, 1889.	Per Centage,	Exports, 1879.	Per Centage.	Exports, 1889.	Per Centage.
	s		s		5	1	15	
United States	43,626,027	54-40	- 2	46.08	25.402.020	40.83	39,519,940	49.23
Great Britain	30,943,703	38.59	42.317,389	38.58	20,303,424	47.08	33, 504, 28r	41.74
ermany	440,000	55.	3,692,570	3.36	107,069	11.	142.749	.18
	1,532,191	10.1	2,228,683	2.03	454.487	.72	333,374	-41
Spanish W. Indies	575.969	12-	2,207.793	2.01	1.227.047	1.96	072,720	1.21
ritish do	650,087	18.	1,073,841	86.	1,043,550	3.11	1, Cor, 543	2.00
Other do	26,373	-03	21,804	.02	304.302	.40	70,189	60.
aban	202,650	.25	1,103.705	1.00	4.154		11,238	10.
BelgiumBelgium.	179,031	.22	530,740	.48	39,830	90.	64,756	.0°
hina	246,303	02.	770,833	-70	52,007	80.	62,927	80.
ewfoundland	651,257	.0 ¹	488,161	-44	1.483.727	2.37	1,149,331	I-43
	345,849	-43	407,268	.37	46,196	10.	13,132	10.
Spanish E. Indies	210		906.314	.82				
olland	200,575	-25	413,080	- 38	0.713	10.	1,222	
Sritish Guiana	87,242	11.	182,143	21-	245,201	.30	220,708	-27
P	25,510	.03	72,085	10-	135,186	.21	166,021	.20
Norway & Sweden	5,945		22,555	.02	20.437	10.	104,172	.13
South America	7,331		1,212,916	1.10	706.896	1.13	1,233,175	1.53
	6,561		3,143		134.415	.21	205,882	-25
ustralia & New Zealand	1,851		220,464	.20	210.689	12.	706.672	.88

The following table shews the values and kinds of the principal Exports, the produce of Canada, for 1879 and 1889, and whence exported :---

Articles.	1879. Š	1889. \$	Whence Exported. 1889.
Coal Gold bearing quartz, nuggets, &c Ores Phosphates Other produce of Mine	937,268 944,095 683,236 216,295 302,006	623.479	
Total products of Mine	3,082,900	4.419,170	
Codfish, Haddock, Ling and Pollock	3,197,115 814,282 446,984 1,104,539 926,508 439,443 6,928,871	450,754 541,013 1,206,598 931,318	100,00 p.c
Lumber Logs. Shingles. Sleepers and Railroad Ties Timber, Square Other products of Forest	9,828,091 94,777 149,346 191,076 1,922,737 1,075,432	577,104 404,680 470,558	
Total products of Forest	13,261,459	23,043,007	100.00 p.C

Articles.	1879.	1889.	Whence Exported. 1889.
	\$	\$	
Horses	1,376,794		Great Britain
Cattle	2,096,696	5,708,126	British Possessions . 1.38 "
Sheep	988,045	1,243,125	United States29.87
Butter	2,101,807		Other Foreign Coun-
Cheese	3,790,300	8,915,684	
Eggs Furs, undressed	574,093 1,100,450	2,159,510	
Hides, Horns, Skins, except	1,190,430	1,004,749	Tooloo Pre-
Fur	387.592	462,371	
Meats, all kinds	568.978		
Wool	691,894	217,600	
Other Animal products	333,865	275,947	
Total Animal products	14,100,604	23,894,707	
Fruits (Green)	157,618		Great Britain 27.39 p.c.
Barley	4,789,487		British Possessions . 3.84 "
Peas and Beans	2,109,034	1,855,772	United States 41.10 "
Oats	804,325		Other Foreign Coun-
Wheat	6,274,640		
Flour (Wheat)	2,572,675	646,068	
Hay	105,643		
Potatoes	1,261,389		
Total produce of Agriculture			
Agricultural Implements	70,011	321.341	Great Britain 37.87 p.c.
Iron, Steel & manufactures of	175,796	206,710	British Possessions. 11.75 "
Learher and manufactures of	405,351	817.375	United States 41.10 "
Musical snstruments	24,175	316,568	Other Foreign Coun-
Ships sold to other countries	529,824		tries 9.28 "
Manufactures of Wood	402,715		
Other manufactured articles	1,022,509	1,560,132	100.00 p.C
Total Manufactures	2,700,281	4,434,949	and the state of the
Miscellaneous	386,000	783,652	
Estimated Short Returned	2,341,447	3,070,652	
Grand Total	62,431,025	80,272,456	

The percentage of increase in the values of the various classes of domestic exports for 1889, as compared with 1879, are as follows:—In produce of the Mine, 43 per cent.; of the Fisheries, 4 per cent.; of the Forest, 74 per cent.; of Animals and their products, 69 per cent.; of Manufactures, 64 per cent.; and a decrease in the export of Agricultural products of 31 per cent. Total increase, 28 per cent.

Canada's Postal Facilities.

There were in 1889 7,838 post offices, an increase of 4,200 since Confederation. The business of this department has increased marvellously, yet, owing to the sparsely settled character of so large a portion of territory and the enormous mileage to be travelled, the expenditure must for some time to come, considerably exceed the revenue. The number of registered letters has increased five-fold, and the quantity of letters and post-cards transmitted last year was more than six times as many as in 1868, while of newspapers, books, parcels, etc., there were nearly five times as many. The following statement gives particulars of the service for 1868, 1879 and 1889 :—

Year.	No. of Post offices	No. of Let- ters and Post Cards sent.	No. of Papers, Par- cels, Books, etc., sent.	No. per Head,	Revenue.	Per Head.	Expen- diture.	Per Head
x868	3,638	18,100,000	18,884,800	10.97	1,024,710	0,30	1,053,570	0.31
1879	5,606	50,840,000	47,637,686	23.75	1,534,363	0.37	2,167,266	0.52
1889	7,838	112,023,000	87,832,256	39-37	2,984,222	0.58	3,746,040	0.73

Post cards, which were first introduced in 1871, have reached the large total of 19,355,000, an increase over 1888 of 2,769,000.

The following comparative statement shows not only the extended operations, but also the increased efficiency of the service.

Year.	No. of offices.	No. of Money Order Offices.	Miles of Post Route.	Miles Traveled.	Paid for convey- ance of Mails.	No. of Letters, &c.	No. of News- papers.	Total cost per head.
1868	3,638	515	27,674	10,622,216	\$ 543,109	18,100,000	18,884,000	\$ cts 0 31
1889	7,838	993	56,835	25,756,678	1,789,670	112,023,000	87,832,256	0 73

In 1868 the conveyance of mails over 10,622,216 miles cost per mile 5.1 cents, and the transmission of 36,984,800letters, newspapers, etc., cost 1.1 cents each; in 1889, the conveyance over 25,756,678 miles cost 6.3 cents per mile, and the transmission of 199,855,256 letters, newspapers, etc., cost 8-10 cent each, so that there has been a decrease in the cost of each article carried of more than one-half cent. The total number of letters delivered by mail carriers in 1889 was 20,510,312, and of newspapers 10,714,860, a slight decrease as compared with the previous year, owing no doubt, to the increase in postage on drop letters.

It appears that 55 per cent. of the total postal revenue is derived from the Province of Ontario, and 46 per cent. of the total expenditure is paid out in that province.

The following statement shows the development of the Money Order system since 1868:

Year.	No. of Offices.	No, of Orders Issued.	Amount of Orders Issued.	Issued in other Countries payable in Canada.
1868	515	90,163	\$3,352,881	\$90,579
1879	772	281,725	6,788,723	505,833
1889	993	673,813	11,265,920	1,756,945

Of the total amount of orders issued in Canada in 1889, \$8,692,419 were payable in Canada, and \$2,573,501 in other countries; of the total transactions with other countries, \$2,573,501 were sent out of Canada, and \$1,756,945 came in. The revenue derived was \$95,147. The principal business transacted with other countries was with the United States, United Kingdom and Newfoundland. Since 1876 inclusive, the amount sent by this system to the United Kingdom has exceeded that payable in Canada by \$5,746,123; during the same period, the amount sent to the United States has exceeded the amount received by only \$260,195; while the amount received from Newfoundland exceeded that sent there by \$300,198.

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The Government propose improving the Atlantic mail service by the employment of the fastest steamers; negotiations to this end have been in progress for some time, but no agreement has yet been concluded. The Imperial Government have also decided to subsidize a line of steamers between British Columbia and China and Japan, to which the Dominion Government will likewise contribute. A fast route of travel will thus be established between Great Britain, the East and the Australian colonies.

The following particulars of passages in 1867-68 and in 1888-89 will be found interesting for comparison :---

1	N_1	NT	ER	SEA	SON	٩.

Years.	Average passage to Liverpool.	No. of passengers	Barrel. Bulk.	Average passage to Portland.	No. of passengers	Tons of freight.
1867-68	d, h. m. 10 12 44	1,026	169,375	d. h. m. 12 12 0 To Halifax.	4,399	16,095
1888-89	8 23 20	1,517		9 16 30	6,433	43,883

The fastest passage from Quebec to Liverpool in 1868 was made in 8 days 14 hours 15 minutes, and in 1889 in 7 days 18 hours 50 minutes. In the latter year the passage from Liverpool to Quebec was made in 7 days 18 hours 25 minutes.

Marine Interests of the Dominion.

On 31st December, 1889, there were enrolled on the marine registry of the Dominion 5,805 sailing vessels and 1,348 steamers, having a net tonnage of 1,040,481 tons, valued at 31,214.430. There were 280 vessels built and registered during the year, with a tonnage of 34,346 tons, valued at \$1,545,570. The shipping of Canada is constantly on the increase, as shown in the following statement of vessels (sea-going and inland), arrived at and departed from Canadian ports, exclusive of coasting vessels, in the years named :—

	No.		FRE	IGHT,	
Year.	of vessels.	Tonnage.	Tons Weight.	Tons Mea- surement,	No. of Men.
1879	47,841	11,646,812	3,355,964	2,782,644	454,129
1887	57,935 64,303	14,090,998 15,217,308	4,486,399	2,975,165	589,796 640,011
1889	65,057	16,054,221	5,049,459	3,295,565	690,086

The next Table gives comparative particulars of the seagoing vessels entered and cleared at Canadian ports in the years named :---

			FRE	IGHT.	
Year.	No. of Vessels.	Tonnage.	Tons Weight.	Tons Measurement.	No. of Men.
1868 1879 1888	16,016 17,001 30,807	4,319,321 6,088,550 9,197,803	1,865,672 2,884,530	2,066,913 2,354,753	165,920 208,352 364,781
1889	28,544	9,296,601	3,051,906	2,379,211	384,251

The decrease in the number of ocean-going vessels and the increase in tonnage, observable between the years 1888 and 1889, is a proof of the extent to which large vessels, particularly steamers, are taking the place of the smaller vessels. The first ocean-going steamer arrived at Montreal in 1853, when four steamers entered having a total tonnage of 1951 tons, and in the same year 248 ocean going sailing vessels arrived, of a tonnage of 57.752 tons. In the next year, 1854, six steamers of 5,545 tons aggregate, 252 ocean-going sailing vessels of 65,365 tons, and 4,251 inland vessels of 323,578 tons arrived at the port, making an aggregate tonnage of 394,488 tons, and the average tonnage of sea-going vessels 274 tons. In 1889, 35 years after, the total tonnage that arrived at Montreal was 1,892,225 tons, of which 823,165 tons belonged to sea-going vessels, 522 of them being steamers and 173 sailing vessels, the average tonnage of each sea-going vessel having increased to 1,184 tons. In 1880, 354 steamers, 42 ships and 143 barques, sea-going vessels, arrived at Montreal; in 1889 the numbers were respectively 522, 8 and 49.

In the scale of the world's shipping Canada takes fifth place, being below the United Kingdom, United States, Sweden and Norway, and the German Empire. No British possession has a larger shipping trade than Canada.

The total number of light stations in the Dominion on 1st December, 1889, was 579; of lights shown, 675; of steam fog whistles and automatic fog horas, 53; an increase of 381 light-stations, 448 lighthouses, 22 fog-whistles and 29 fog-horns since 1868. The Government employ nine steamers for the purpose of supplying the lights, laying down and taking up buoys, attending to wrecks, &c.

The Storm Signal Service Branch of the Meteorological Service issued 1,500 warning of approaching storms between 1st October, 1888, and 30th November, 1889, of which 1,249 or 83.3 per cent. were verified. Of a total of 11,515 storm warnings issued during the last twelve years, 9,508 or 82.5 per cent. were verified. The total number of predictions issued of weather probabilities during the fourteen months ended November, 1889, was 6,808, of which only 553 were not verified ; 77.2 per cent. having been fully and 91.9 per cent. fully and partially verified.

Canada's Famous Fisheries.

The yield of the Fisheries of Canada for 1889 is valued at \$17,655,256, an increase of \$236,746 over 1888. Salmon fishing in British Columbia is being extensively prosecuted, and is annually becoming more valuable.

There were in 1889, upwards of 67,000 men with 31,196 vessels and boats. valued at 3,072,128, employed in the fisheries, not including 559 men and 213 vessels employed in the British Columbia seal fishery. There were eleven Government fish hatcheries in operation, and the gross output of young fish of all kinds during the year, was 67,700,000. The number of eggs collected for subsequent hatching was 136,000,000. The total pack of canned salmon last year

in British Columbia reached the enormous quantity of $z_{0,122,128}$ lbs., an increase of 11,288,184 lbs. over 1888. Of this increase the Fraser River contributed 11,112,288 lbs.; and it is estimated that enough fish ascended the river to pack 15,000,000 more pounds had there been sufficient appliances. There were 28 canneries in operation in that Province, and since 1876, when canning operations first commenced there, 2,160,763 cases, or 103,716,624 lba. of salmon have been packed. Large quantities of fish are consumed by the Indians ot the North-West and British Columbia, of which no account can be obtained. For the eleven years, 1879-1889, the value of the fish consumed by the Indians in British Columbia alone is estimated at \$45,600,000.

The total number of seals caught by Canadian vessels in British Columbia in 1889 was 33,570, valued at \$349,825, while 7,428 seals, valued at \$74,280, caught by foreign vessels, were disposed of in Victoria, B.C.

The following Table shews the value of the yield and export of the Canadian Fisheries for the years 1869, 1879, and 1889, together with the quantities of some of the principal kinds of fish caught :--

			MACKEREL.				HERRING.				
Year.		Ling, dock.	Pic	kled.	Fresh and Caune	Pi	ckled	. Smok	ed.	Fresh.	Frozen.
1869 1879 1889	5	wt. 18,188 09,319 30,222	5	rls. 1,011 1,449		3	Brls. 101,97 149,92 186,67	5 720	,879 ,960	250	No.
Year.		Pickle		Fresh	oked, h and ined.	Lob	sters	Smelts.	Tota	al Value.	Value Export.
1869 1879		4,	140 140	5.	bs. 984,164 717,182 433,039	102	vt. 610 9,443	Cwt. 1,240 17,873 50,110	1	\$ 4,376,526 3,529,254 7,655,256	\$ 3,242,710 6,928,875 7,212,20

Mineral Wealth of Canada.

There is hardly a mineral of value, with the exception of tin, that has not not been found in some part of the Dominion, but its mineral wealth is absolutely conjectural at present, many parts of the country where minerals are known to exist, being as yet practically unexplored. The value of the mineral production for 1888 was estimated at \$16,500,000, an increase of \$1,500,000 over the preceding year. The value of the exports of minerals and mineral products mined and manufactured in Canada in 1888 was \$4,110,937, and in 1889, \$4,419,170. The most important product in .1888, in point of value, was coal; the quantity being 2,658,134 tons valued at \$5,259,832, an increase over 1887 of 239,640 tons. Almost all the coal is at present mined in Nova Scotia and British Columbia, but the deposits in the North-

West Territories will soon be extensively developed, and the output very materially increased. These deposits are practically inexhaustible, the coal-bearing area being estimated at 65,000 square miles, and the quantity known to underlie some portions of this area, at from 4,500,000 to 9,000,000 tons per square mile. This coal varies from lignite to bituminous coal and, in the Rocky Mountains, large deposits of anthracite have been found, beds of which are being worked near Banff. All the coal supplied to the C. P. R. at Brandon and points west is now exclusively Canadian, and a ready and profitable market is found in San Francisco for our anthracite. The Nova Scotia coalfields cover an area of 685 square miles.

The following Table shews the production and export of Canadian Coal for the years 1876 and 1888 :--

	P	RODUCTION.		EXPORT,			
Year.	Nova Scotia	British Columbia.	Total.	Nova Scotia,	British Columbia.	Total.	
1876	Tons. 794,803 *	Tons. 139,000 548,017	Tons. 933,803 2,537,280	Tons. 131,466 165,866	Tons. 116,910 405,071	Tons. 248,376 570,937	

Gold mining is principally confined to British Columbia and Nova Scotia, though a small quantity of the mineral is annually mined in Quebec. It is also known to exist in Ontario and the Territories. Since 1858 British Columbia has yielded \$51,599,957, as nearly as can be ascertained, but the amount is probably larger. The value of the production in Nova Scotia, since 1860, is estimated at \$8,892,675. The value of the product in 1888 was \$1,098,610.

Iron ore is found in great abundance and variety, but has nowhere been mined to any extent. The total production in *888 was 78,587 tons, valued at the mines at \$152,068, and the export 20,471 tons, valued at \$55,177. It is estimated that the imports of iron and steel in 1888, valued at \$11,776,528, represented a consumption of about 400,000 tons of pig iron, valued at over \$5,000,000. This quantity would necessitate a supply of over 1,000,000 tons of ore and 3,000,000 tons of fuel; some idea can thus be gathered of the wealth which would be retained in the country, if our iron and coal resources, which are quite equal to such a demand, were sufficiently developed.

Copper is found in Ontario, Quebec, Nova Scotia, New Brunswick and British Columbia. Smelting works have been established at Sudbury, Ont., in which neighborhood what are perhaps the largest deposits of copper ore in the world have been discovered.

Petroleum is found in Ontario, Quebec, Nova Scotia, New Brunswick and the North-West Territories. The most extensive petroleum field in America, if not in the world, is believed to exist in the Athabasca and Mackenzie valleys in the North-West. The production of petroleum in the United States is steadily decreasing. The following table gives the only trustworthy statistics of Canadian production of oil available; the figures do not give the total production, since the quantity of crude oil used as such is not included.

Year,	Refined Oils.	Crude Equivalent, Calculated.	Quantity Exported.	Value of Export.
1881	Imp. Gals. 5,380,081	Imp. Gals. 10,760,162	Imp. Gals. 501	\$ 99
1888	9,246,176	24.332,105	196,602	74,542

The production of salt is almost entirely confined to Ontario. The total yield in 1888 was 421,930 barrels of 280 lbs., valued at \$232,460, an increase over the previous year.

Silver exists in paying quantities in Ontario, Quebec and British Columbia, and it requires only money and labor to develop the production profitably. No complete statistics are available; the value of the output in 1888 was estimated at \$395,377.

Much notice has recently been attracted to the valuable phosphate fields of Canada, and the outlook for the development of this industry is most encouraging. The total production in 1889 was 33,198 tons, being the largest quantity yet produced, valued at \$527,848.

The mining of asbestos has been prosecuted since 1878, when only 50 tons were taken out; in 1889 the output vas 6,000 tons, valued at \$423,360.

Large deposits of nickel have been found at Sudbury, Ont., the vein being in some places 100 feet thick, but the ore is low in nickel. It is, however, easily concentrated into a rich matte, and this it is proposed to send to England for final treatment, the owners claiming that they can supply nickel at the same, if not at a less, price than that charged by the French company who control the carbonate of nickel mines of New Caledonia and absolutely the supply of nickel. If this can be done, and nickel be procured more cheaply, there is a vast field for its use in the steel trade, and these deposits are now attracting considerable attention in English metallurgical centres. It is estimated that the daily product of the Canadian Copper Company's mines at Sudbury is about 40,500 lbs. of matte, equivalent to a yield of about 4,000 tons of nickel a year. The total annual consumption of nickel at present is only 1,100 tons.

Marvellous Railway Development.

In India and in all the principal British colonies, with the exception of Canada, the railways have been chiefly, and in some cases entirely, built by the Government with public money, and large portions of the public debt have been incurred for that purpose, but in this country the Government have built only such lines as were required by public policy. The Government, however, have always actively encouraged private enterprise, and in this way have expended no less a sum than \$135,894,304 in the shape of bonuses to different railways, which sum represents a considerable portion of the public debt, and which, as previously mentioned, though directly productive to the country at large.

brings in no immediate return to the Government. In addition to the foregoing, the Government have, at various times, made loans to railways, the amount at present outstanding being \$21,201,314. The Provincial Government have also contributed aid to the extent of \$24,036,307, and various municipalities to the extent of \$13,467,224.

The first Canadian railway was opened on 21st July, 1836, between Laprairie and St. John's, in the Province of Quebec, its length being 16 miles, but such little progress was made in railway development that, when the first sod of the Northern Railway was turned in 1850, there were but 71 miles in operation in the whole of what is now the Dominion of Canada. Of late years, however, very considerable progress has been made. In 1867 there were 2,258 miles in operation, and on 30th June, 1889, 12,628 miles, with a total of 13,325 miles completed, being an increase in the twenty-two years since Confederation, of 10,370 miles. In 1868, the paid-up capital amounted to \$160,471,-190, and in 1889 to \$760,576,446. The progress of construction is shown by the following figures : 1840, 16 miles in operation ; 1850, 71 miles ; 1860, 2,087 miles ; 1870, 2,497 miles ; 1880, 6,891 miles ; 1889, 12,628 miles.

The railways owned by the Government are the Intercolonial, 894 miles; Prince Edward Island, 211 miles; Eastern Extension, 80 miles; and Windsor Branch, 32 nules—a total of 1,217 miles.

The following table gives particulars of all railways in operation in the years 1875 and 1889 :---

		Miles	in	Train		PASSENGERS.				
Year.		operation.		Mileage.		Number.		Per head of Population.		Per Mile.
1875 1889		4,8 12,6	26½ 28	17,680,1 38,819,3		5,190 12,151			· 34 • 39	1,055 962
		F	REIG	нт.				rnings.	w	orking Ex-
Year	Tons		-	er head of oulation.	Per	Mile,	Ea	mings.		pensęs,
1875	5,67	10,836		₩46		1,175	19,	\$ 470,539	,	\$ 5,775,532
1889	17.93	8,626		3.53	1	1,417	42,	149,615	3	1,038,045

Years.	Flo	ur.	G	ain.	Live S	stock.		Lumber, t Firewood.
1887 1888 1889			91,9 93,3	ush. 67,708 05,411 89,065	3,11	0. 2,169 2,229 8,901	1	Feet. (,816,968,458 1,946,986,62;
Years,		Firev	wood.	Man tured	ufac- Goods.		other cles.	Total.
1887 1888		43	rds. 11,572 14,096	2,27	ons. 77,379 83,197 27,384	6,9 7,8	ns. 37,287 70,495 98,841	Tons, 16,356,335 17,172,759 17,928,626

The following is a statement of the quantity and description of rolling stock in use in 1885, 1888 and 1880;---

Years,	Locomotives.	Sleeper and Parlour Cars.	rst Class Cars.	and Class and Emigrant Cars	Baggage, Mail and Express Cars.	Cattle and Box Cars.	Platform Cars.	Coal and Dump Cars.
r885	1,524		704	501	403	22,166	13,761	2,391
1888	1,653	79	759	568	505	27,870	12,992	3,047
1889	1,761	105	795	581	517	31,025	13,925	3,235

Canada ranks second among British possessions as to extent of railway mileage, being exceeded only by India. Five foreign countries have a greater mileage, viz., United States, France, Germany, Russia, and Austro-Hungary.

The Government are new constructing a line of railway through the Island of Cape Breton, a distance of 98 miles from the Strait of Canso to Sydney, which will be completed this autumn. The link connecting Digby and Annapolis, a distance of 22 miles; a line between Oxford Station, on the Intercolonial and Brown's Point, on the Pictou Town Branch, $67\frac{1}{2}$ miles long, and a branch from Pug wash junction to Pugwash harbor, $4\frac{3}{4}$ miles long are being rapidly pushed to completion.

A marine railway is being built across the Isthmus of Chignecto, which separates Northumberland Strait from the Bay of Fundy, a distance of 17 miles, by which vessels can be transferred in two hours, and thus save a distance of 500 miles. The Government have largely subsidized this undertaking, as also the St. Clair River Tunnel, 6,000 feet in length, between Sarnia and Port Huron. Mr. E. L. Corthell, a well-known American civil engineer, lately inspected the site of the Chignecto Marine Railway, and the progress of the work, and wrote as follows to the Chicago *Inter-Ocean:—*

"Prince Edward Island alone, by giving it an outlet to the New Brunswick and Maine coast, will of itself create a large commerce. Reliable data from the Canadian blue books show that there is at present a commerce of very great magnitude, which no doubt will be largely increased by the increase in facilities which the ship railway will give. There are at present, taking into consideration the Provinces of Quebec, Nova Scotia, New Brunswick and Prince Edward Island, over 68,000 arrivals and departures of vessels per annum, with a tonnage of over 10 millions. If one goes into the details of the products which are raised and shipped, and of the various kinds of commerce that result therefrom, of the large fishing interests which will be subserved by this ship railway, allowing our (U.S.) fishermen to make two trips instead of one per annum-if all these are taken into consideration, there remains no question of the entire success, commercially and financially, of the Chignecto Ship Railway."

Canada's Canals

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The system of inland navigation in Canada is the largest and most important in the world. The St. Lawrence system alone, in conjunction with the great lakes, extends for 2,260 miles, viz., from the Straits of Belle Isle to Port Arthur, at the head of Lake Superior; of this distance $71\frac{5}{24}$ miles is by means of canals, the remaining 2,188 $\frac{1}{24}$ miles by open navigation. From Port Arthur to Duluth, which is the principal port in that section of the United States for the produce of the Western States, is a further distance of 124 miles, making altogether 2,384 miles. When it is considered that by the canal system, unbroken water communication is afforded from Port Arthur to Liverpool, a total distance of 4,618 miles, its importance and the necessity for its thorough maintenance will be understood.

The great lakes, which form one of the most remarkable features of this system of inland navigation, contain more than half the fresh water of the globe, and consist of Lakes Superior, Huron, St. Clair, Erie and Ontario. Lake Michigan is in the United States, but is connected with Lake Huron by the Strait of Mackinaw.

Lakes Superior and Huron are connected by the Ste. Marie River, which is unnavigable owing to its rapids. This difficulty has been overcome by the construction of a canal on the United States side of the river.

The other canals on the St. Lawrence system are the Welland, from Lake Erie to Lake Ontario; and, along the St. Lawrence, the Galops, the Rapide Plat, Farran's Point, the Cornwall, the Beauharnois, and the Lachine, of an aggregate length of 70 ½ miles and overcoming a total height of 533 feet. By the completion of the ship canal through Lake St. Peter, the largest merchant vessels afloat can now ascend the St. Lawrence as far as Montreal.

The other canal systems of Canada are : The Ottawa, connecting Montreal and Ottawa city, and the Rideau which, in conjunction with the Ottawa system, affords communication between Montreal and Kingston, a total distance of 246 miles. The Richelieu and Lake Champlain system, or Chambly Canal, extends from the junction of the Rivers St. Lawrence and Richelieu, 46 miles below Montreal, into Lake Champlain, a distance of 81 miles. By this canal, communication is obtained with the Hudson River, and thence to New York. The Burlington Bay Canal, onehalf mile in length, connects Burlington Bay and Lake Ontario, giving access to the port of Hamilton. St. Peter's Canal, Cape Breton, N.S., is 2,400 feet long, and gives access from the Atlantic to the Bras d'Or Lakes. The Trent River system, which comprises a series of water stretches extending from Trenton, on the Bay of Ouinté, Lake Ontario, to Lake Huron, is only efficient for local use. A scheme for making use of these waters to effect a system of through water communication between Lakes Huron and Ontario was projected many years ago, and construction commenced ; up to the present, however, only certain sections have been made navigable or fit for the passage of timber. The total distance between the lakes is 235 miles, and about 155 miles of this are available for light draft vessels. The Murray Canal, 4¼ miles in length, runs through the Isthmus of Murray, giving connection westward between the Bay of Quinté and Lake Ontario.

The Canal system of Canada has been constructed at a cost of \$54,596,189. In 1888, 21,582 vessels passed through Canadian canals, of a total tonnage of 3,272,099 tons, carrying 75,797 passengers and 2,761,597 tons of freight. Some idea of the business transacted on the present Sault Ste Marie Canal (American) may be had from the following figures : During the 233 days of navigation in the year 1889 7,516,022 tons of actual freight, valued at \$83,732,-527, passed through, being an increase over 1888 of 1,104,599 tons and \$1,576,507. The total number of vessels was 9,579, of which 9,136 had an aggregate registered tonnage of 7,221,935 tons. This was an increase over 1888 of 1,776 in the number of vessels, and of 2,091,276 tons in the amount of registered tonnage. The actual freight tonnage passed through the Suez Canal in 1888 was 6,640,-834 tons, and in 1889, 6,783,187 tons, from which it will be seen that the freight carried through the Sault Ste. Marie Canal, during the navigable season of 1889, exceeded in bulk that carried through the Suez Canal, which was open for the whole year. Of course there is no comparison as regards the value of the freight, but the foregoing figures shew the necessity of providing additional accommodation, which our Government is now doing by constructing another canal on Canadian territory, at an estimated cost of \$3,000,000.

Lumbering Operations.

Some estimate of the Lumber industry of Canada can be formed from the following statement shewing the production of Timber of all kinds in 1888. The figures are mostly taken from the official reports, and only give, therefore, the quantity on which dues were paid. The actual total production was undoubtedly very much larger .—

PRODUCTION OF TIMBER IN CANADA, 1888.

Saw logs, feet, B. M.,	1,686,453,768
Square timber, cubic feet	4,098,438
Boom timber, pieces	262,954
Railway ties, no	1,087,416
Cordwood, cords	26,918
Telegraph poles, no	12,476
Cedar, lineal feet	363,441
Cedar posts, tanbark and bolts, cords	7,958
Pile timber, feet, B.M	98,752
Shingles, M	13,588
Battens, laths, etc., no	2,281,284
Cedar posts and rails. no	56,897
Dues received, \$	2,489,401

In British Columbia the industry is yet in its infancy, but its annual growth is rapid. According to figures published by the Quèbec Government, the production in that Province

since 1867, has been 10,430,485,472 feet B. M., and 69,608,377 cubic feet of timber, while \$9,805,430 have been collected for dues. The cut of lumber in the Ottawa valley alone, in 1889, was placed at 720,000,000 feet. The average quantity of timber exported annually from the port of Quebec, during the five years ended 1st December, 1889, was 8,726,784 cubic feet, and 860,384,800 feet B. M.

Insurance.

In 1888, there were eighty-five companies doing business in Canada, in the following lines: Life, 46; Fire, 32; Marine, Inland and Ocean, 10; Accident and Guarantee, 12; Steam Boiler and Plate Glass, 6.

The following table contains statistics of Life insurance in the several years mentioned :---

Years.	Life Insurance Effect d.	Amount of premiums paid.	Total Amount Life Insurance at Risk.
1869	\$12,854,132	\$1,238,359	\$35,680,082
1878	12,169,755	2,610,677	84,751,937
1888	41,226,529	6,561,848	211,761,583

The Canadian companies do a larger share of business than all the other companies combined, their share, in 1888, exceeding 60 per cent.

The following Table gives particulars of Fire insurance in the several years mentioned :---

Years.	Premiums Paid.	Losses Paid.	Total Amount at Risk.
1869	\$1,785,539	\$1,027,720	\$188,359,809
1879	3,227,488	2,145,198	407,357,985
1888	5,437,263	3,073,822	650,735,059

The bulk of the Fire insurance business is in the hands of British companies.

Fire Insurance may be regarded as one of the necessaries of life. Life insurance one of the luxuries. The former is a regular business expense, the same a_b rent; the latter is incurred only when all else has been provided for. The increase in the amount of Fire insurance at risk, during the last 20 years—245 per cent.—indicates the rapid growth in the value of property; while the expansion of Life insurance —nearly 500 per cent.—shows the improvement in the financial condition of the people.

The amount of Accident insurance transacted in 1888 was 33,078,066, an increase of upwards of 86,000,000 over 1887. The amount received for premiums was \$249,048, an increase of more than \$55,000 over the previous year. The amount of Guarantee insurance transacted in 1888 was \$10,107,204, an increase of nearly half a million of dollars over 1887.

The total amount paid in premiums, for insurance of all kinds, in 1888, was \$13,060,157, of which Canadian companies received 38.67 per cent., British companies 37.07 per cent., and American companies 24.26 per cent. In 1887, the proportions were : British, 38.05; Canadian, 37.82, and American, 24.13.

Patents of Inventions.

The business transacted by the Patent Office in 1889 was larger than in any previous year, the receipts for fees show ing an increase of \$12,650 over 1888, and \$76,106 over 1868. The following Table shews the transactions of the Patent Office in 1868, 1879 and 1889:—

Years.	Applications for Patents.	Patents and Certificates.	Caveats.	Assignments of Patents.	Fees received, including Designs and Trade Marks.
1868	570	546		337	11,052
1879	1,358	1,238	203	728	33,303
1889	3,279	3,081	221	1,437	87,158

The following Table shews the large increase in the business of the Copyright and Trade Marks Branch since Confederation :--

Years.	No. of Copyrights, Trade Marks, Industrial Designs, and Timber Marks Registered.	No. of Certificates.	Assignments Registered.	Fees Received.
1868	72	72		\$ 183
1879	392	277	24	2,434
1889	1,010	572	49	9,112

Manufacturing Industries.

It will be difficult, until the completion of next year's census, to obtain any definite statistics of our manufactures; yet we have sufficient data to shew that they have developed immensely since Confederation, and that their progress has been especially marked in the past ten years. Their general condition in 1881, and the advance made during the preceding ten years, may be gathered from the following Table :--

	1871.	1881.
Capital invested	\$ 77,694,020	\$165,302,623
Hands employed	187,942	254,935
Amount of yearly wages	40,851,069	59,429,002
Value of raw material	124,907,846	179,918,591
Total value articles produced	221,617,773	309,676,068

A partial enquiry, conducted in 1884-5, in the Provinces of Ontario, Quebec, Nova Scotia, New Brunswick and Prince Edward Island, shewed that there had been, in 1884, an increase since 1878, of 75 per cent. in the number of hands employed, of 75 per cent. in the amount of wages paid; of 93 per cent. in the value of products and of 75 per cent. in

the amount of capital invested. Since 1884 the progress has been steady and satisfactory.

There were in 1889, twenty-five cotton mills in Canada, operating 11,282 looms and 519,700 spindles, having a full weaving capacity of about 138,000,000 square yards and an actual production ranging from 100,000,000 to 120,000,000 square yards. The development of this industry will be evident when we state that the import of raw cotton in 1869 was 1,245,208 lbs.; in 1878, 8,011,759 lbs., and in 1889, 39,223,594 lbs. The outfit of our woolen mills in 1889 consisted of 1,129 sets of cards, 3,758 looms, 201,340 spindles and 1,963 knitting machines. Up to 1880, Canada exported large quantities of wool and imported manufactured woolens. The Trade Returns shew that, in 1878, we exported 2,445,893 lbs. of wool and imported 6,230,084 lbs., while in 1889, we exported only 1,015,001 lbs., and imported 10,664,166 lbs. The value of the output of woolen goods in 1885, was estimated at nearly \$11,000,000, an increase of 30 per cent. over 1881.

There were in 1889, fifty-six paper and pulp mills in operation, employing 2,250 hands at an annual wage of \$660,000. The value of the plant and machinery was \$3,515,000 and of the annual products \$3,344,000.

The growth of the sugar refining industry may be seen from the following comparative statement of imports of sugar for the years 1878 and 1889:---

Imports of Sugar.	1878.	1889.
Great Britain Ibs	51,187,301	1,804,591
United States "	50,394,946	6,954,452
British Guiana "		3,359,968
Brazil		45,622,267
British West Indies "	7,534,468	13,458,910
Spanish do"		66,767,633
Dutch East Indies "		4,396,568
Germany "		35,507,471
Spanish possessions in Pacific		45,013,110
Other Countries "	347,700	956,201
Total lbs	109,464,415	223,841,171

It will be observed that the total importation of sugar has more than doubled, yet its value has decreased from \$5,982,516 in 1878 to \$5,837,895 in 1889. This is explained by the fact that in the former year the great bulk of the import was refined sugar from Great Britain and the United States, while now it consists of the raw material to be manufactured in our own refineries and to give employment to our own people.

Particulars of the details of the manufacture of agricultural implements and machinery are not at present available, but the capital invested in this industry is estimated at from \$8,000,000 to \$10,000,000. Not only is the home demand very great, but the foreign market is steadily growing. Implements to the value of \$321,341 were exported in 1889, principally to Great Britain, the Argentine Republic and Australia.

The leather industry assumes its largest proportions in the Province of Quebec, and in Quebec city it is estimated that upwards of 5,300 hands are employed in tanning and shoemaking, producing goods to the annual value of \$6,500,000.

The number of proof gallons of spirits manufactured in 1889 was 5,847,508, as compared with 3.530,085 in 1878. The quantity of malt manufactured was 60,500,427 lbs., and of malt liquor 16,363,349 gallons, as compared with 47,790,660 and 8,578,075 in 1878. The quantity of leaf tobacco manufactured was 10,530,922 lbs. as compared with 7,940,191 lbs. in 1878.

Immigration and Population.

The features of the several great immigrations to Canada, and the motives which induced them, are clearly defined and have made a very distinct impression upon the charac ter of the present population.

The first movement in point of time was that of the French immigration. Its motive was two-fold—the spread of Christianity among the Indians and commercial adventure.

The first settlement took place in the Province of Acadie, now Nova Scotia, in 1605. The colonists numbered only fifty-four, and being unprepared for the cold of winter, suffered so severely that one-fourth of them perished. Their misfortunes appear to have had a deterrent effect on further settlement for nearly half a century, as we find from the enumeration of 1671, that the population was then only 441.

In Quebec, the first French settlement was made in 1608, the numbers being very small and increasing but lowly for more than forty years, when they took a leap, from 240 in 1641 to 2,000 in 1653. Thenceforward there seems to have been a gradual and rapid increase, from immigration and natural growth, till the cession of Quebec to the English in 1759, when the population is estimated to have been 82,000.

After the cession, immigration to Canada from France may be said to have ceased, the numbers who came subsequently not materially affecting the volume of the population. The increase of the French-speaking population under British rule is, however, one of the most notice able and clearly marked facts in the history of nations. The population of French origin in the Dominion, was stated in the census of 1881 at 1,298,929, and is now estimated at 1,500,000; while there has been, a French-Canadian emigration to the United States of fully 500,000 — certainly a large aggregate to have sprung from the first few settlers on the banks of the St. Lawrence and in Acadue. This fact affords a remarkable proof of extremely favorable conditions of life. The next large and distinctive immigration was that of the United Empire Loyalists, from the thirteen revolted colonies to the Maritime Provinces, (chiefly New Brunswick), to the Eastern Townships of Quebec and to Ontario, where they formed the nucleus of the population in as marked a manner as did the French settlers in Quebec.

There does not appear to have been any exact record of the statistics of this movement; but, according to an estimate of Governor Parr, in a despatch to the Imperial Government, the total number of those who arrived in Nova Scotia and New Brunswick in 1784, was 20,000. They continued to arrive in small bodies for several years. The number of those who came to the Province of Quebec was, in 1784, according to Dr. Taché, 10,000; and Dr. Ryerson states that there was an actual count made of 10,000 who settled in Ontario in 1783 and 1784, to which were added accessions more or less numerous for several years. In round numbers, therefore, more than 40,000 U. E. Loyalists settled in Canada during the years immediately following the Treaty of Versailles in 1783.

The three main immigrations to Canada are, therefore, the French, the U. E. Loyalist and that from the United Kingdom, and they have planted in Canadian soil the roots of a distinct political system from that of the United States.

In considering this point of the nature of the population planted by these first and main immigrations, it is to be remarked that, in view of the more rapid and early development of the agricultural, industrial and commercial resources of the United States, that field has been considered by many more favorable for settlement than Canada, and consequently had a larger immigration, although a comparison of the figures undoubtedly shows that now the balance of advantage in this regard is being very rapidly redressed. The desire to better the conditions of life has been the cause of immigration alike into Canada and the United States. But while those who felt sympathy with Republican institutions have settled in the States, attachment to British institutions has led to the Canadian immigration. Thus the frontier line has operated largely as a political sieve, the result being shown in what may be called the national sentiment of the Canadian people to-day.

The statistics shew a large and steady increase of popula. tion in the Province of Quebec over any possible natural increase, from the time of the U. E. Loyalist immigration to 1822. From that period to the present there does not appear to have been a large immigration in any one year, but a small, 'steady increase over the ordinary growth of the population.

In Ontario, from the date of the U. E. Loyalist settlement to 1841, the increase of population was exceedingly rapid. The census of that year gives the population as 455,688, shewing an average yearly growth of more than 7,800; while from 1841 to 1871, the average annual increase was 38,838, in both periods proving a large immigration.

In New Brunswick, from the Loyalist settlement to the first census in 1824, the population increased from 11,236 to 74,176 In the next sixteen years to 1841, there was an increase of 81,986 or 5,124 annually, which must have been largely due to immigration. Since then the growth has been at a less rate, shewing a slower tide of immi gration.

The population of Nova Scotia in 1784 is given as 42,-347 of British origin, besides the French Acadians, estimated by Dr. Taché at 14,000. The first complete census was not taken until 1817, when the number of inhabitants was found to be 81,351. By 1827, the population had increased one-third, but the immigration in the next decenniad must have been still larger, the increase of population having been more than 7,000 a year, or fiveeighths in eleven years. After this date, immigration seems to have slackened, the figures shewing the population to have doubled in about forty years and, in 1881, it was 440,572.

The first census of Prince Edward Island was taken in 1798, when the total population was 4,372. No accurate enumeration was again obtained until 1841, when it was found to be 47,042. Since then there does not seem to have been any large immigration, the population in 1881, forty years later, being 108,891.

Coming to the period when the actual figures of immigration began to be taken, the first records of arrivals by the St. Lawrence route at the port of Quebec are found between the years 1819 and 1825, and place the number who landed during that period at 68,534. It appears from the published details that, even at that early date, the St. Lawrence route was used as offering facilities to passengers destined for the Western States, and it is estimated that, of the immigrants then arriving, one-third settled in Quebec, one-third in Ontario and the other third crossed the line to the United States.

The records of the Quebec Immigration Agency of the Government begin with the year 1829 and continue to the present. The summary which we lay before our readers is interesting, as containing an exact record of immigrant arrivals by the St. Lawrence for a period of sixty-one years. It must be borne in mind, however, that all did not settle in Canada, large numbers of emigrants from Europe to the United States, especially those from Germany and Norway having used the St. Lawrence route because of the facilities it afforded. Nor is it, on the other hand, a record of the total immigration to Canada during the same period, since very many immigrants entered by way of the Maritime Provinces, while others came by United States ports.

Years,	England.	Ireland.	Scotland.	Germany and Norway.	Other Countries.	Total.
1829-33	43,386	102,266	20,143	15	t,889	167,699
34-38	28,561	54,904	11,061	485	1,346	96,357
39-43	30,791	71,981	16,311		1,777	123,860
44-48	60,458	112,192	12,767	9,728	1,219	196,364
49-53	47,408	93,883	25,127	16,867	4,455	187,740
54-58	57,194	25,128	18,741	38,690	2,047	141,800
59-63	32,301	10,700	9,822	27.564	59	80,446
64-68	47,226	16,261	11,454	59,241	25	134,207
69-73	125,610	15,680	23,032	30,837	1,094	196,253
74-78	51,234	6,019	8,644	857	2,117	68,871
79-83	119,839	22,683	17,244		3,536	163,305
84-88	71,503	14,008	14,493	27,333	5,283	132,620
1889	11,663	1,582	2,417	5,103	1,326	22,00

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There are no means of determining accurately the respective numbers of Canadian and American immigrants in the preceding Table, but a separation has been attempted since 1866, based upon the declarations of passengers to agents of the Department of Agriculture. The following is a summary of the total immigration into Canada since 1866, shewing the number destined for the United States :—

Years.	Immigrant Passengers for United States.	Total Immigrants settled in Canada.	
1866-1871	287,063	108,631	
1878-1877	168,086	205,098	
1878-1883	300,889	402,877	
1884-1889	403,751	517,037	

It is impossible, however, to keep any record of the further movements of these immigrants, affected as they have naturally been by the fluctuating demands for labor and rates of wages, as well as by the attractions offered by new lands being opened up for settlement. From this cause there has been a considerable movement, from time to time, from both sides of the frontier line.

Immigration of late years has been mainly from the United Kingdom, although there is a considerable percentage of Germans and Scandinavians, while there have been three special immigrations of Mennonites, Icelanders and Russian Jews.

The Icelanders, who came in 1875, numbered 285. Annually their ranks have been recruited by immigration, and now the colony is estimated to be nearly 9,000 strong. The first arrivals suffered hardships, but they are now a prosperous community, and each passing year adds to their contentment and well-being.

The German Mennonites who emigrated from Southern Russia numbered in 1874, 1532, and have increased to so great an extent that there is not sufficient land in the original Mennonite reserve to accommodate the generation that has grown up. They are among the most successful and prosperous of European immigrants.

The Russian Jews numbered 1375, and came in 1882. A large proportion of them were at first unsuccessful as settlers, apparently from having acquired habits of trading rather than agricultural industry, but having been placed on lands in the Qu'Appelle Valley by their more wealthy brethren, the reports since received of them are favorable.

Until a few years ago Canada did not participate in the very large emigration from Germany, Scandinavia and other countries, but of late there has been a considerable increase in the number of such immigrants to the Dominion. Questions having arisen as to whether the people known to have arrived, had remained in Manitoba and the North-West, Sir Charles Tupper, High Commissioner for Canada, instituted enquiries and, as a result thereof, unhesitatingly expresses the opinion that by far the larger number of the persons in question are now settled in the Dominion. Were any proof needed in support of this statement, it would be found in the numerous and constantly increasing foreign colonies along the main and branch lines of railways between Winnipeg and Calgary. Three or four years ago there was hardly a single foreign settlement in that part o the country. At present the principal settlements are as follows :---

COLONIES ALONG THE MANITOBA AND NORTH-WEST RAILWAY.

Scandinavian, near Minnedosa, 18 miles. Hungarian, near Neepawa, 12 miles. Icelandic, near Birtle. German, three colonies, near Langenburg.

COLONIES ALONG THE CANADIAN PACIFIC RAILWAY.

Scandinavian,	near	Carberry.
"	**	East Selkirk.
**	**	Oak Lake.
**	**	Fleming.
"	**	Whitewood.
German,	**	Grenfell.
"	**	Balgonie.
**	**	Dunmore.
**		Regina.
Hungarian,	**	Whitewood.
Roumanian,	**	Balgonie.
Jewish,	**	Wapella.
Icelandic,	**	Glenboro.
"	**	East Selkirk.
"	**	Calgary.
**	**	Carberry.

From the personal investigation alluded to, as well as from information acquired from trustworthy sources, it is assured that these foreign settlements are among the most prosperous communities in Manitoba and the North-West. The settlers, as a rule, started with little capital, but they are so thrify in their habits, so accustomed to hard work, and so careful to realize on their opportunities, that they have developed their farms in a most surprising manner. They all have good houses, a considerable extent of land under cultivation, have been most successful with their stock, and are generally highly spoken of.

The Crofter settlements at Killarney and Saltcoats are thriving. Their efforts were somewhat retarded by the drought of 1889, but their stock is increasing, and the area prepared for crops is growing larger each year. They are happy and express themselves satisfied in their new homes.

The settlers from the United Kingdom and Europe bring with them the skill, education and habits which they have acquired at home, as well as very considerable means, averaging about \$60 a head. People who emigrate voluntarily, with the motive of bettering their condition, have naturally more than average energy. It follows that immigrant settlement in Canada is largely what may be called a selection of natural energy, and one effect of this is seen in the force of character which is developed by the people. Successful immigrants are a source of wealth to a country, as they immediately become producers and consumers, Neither poverty nor large families are any hindrance to success. Where there exist ability and a will to work, a large family, so far from being a weakness, is a source of strength. *

The Government of Canada, in their care to foster immigration, have established effective agencies at the principal seaports, and also at important points in the interior, at Quebec, Montreal, Halifax, St. John, Vancouver and Victoria, B.C., as well as at Sherbrooke, Ottawa, Kingston, Toronto, Hamilton, London, Port Arthur, Winnipeg, Brandon, Moose Jaw, Regina and Calgary. All possible assistance and direction are here afforded to the immigrant, and settlement is thereby facilitated. The sick are cared for and the indigent assisted, care being exercised to prevent any pauperization of the recipients.

The total number of immigrant arrivals in 1889 was 1,6,462, of whom 84,862 were passengers for the United States, while the other 91,600 expressed their intention of remaining in Canada. These figures shew an increase, as compared with 1888, of 1,988 in the total number of arrivals, and of 2,834 in the number of settlers in Canada. The number of persons reported as having gone into Manitoba and the North-West was 26,809, of whom 21,653 proposed to stay in Manitoba and 5,156 intended settling in the North-West. In Nova Scotia 2,395 persons are reported to have settled, and 3,714 in New Brunswick. The arrivals with settlers' goods, as reported by the Customs officials, were 38,617, an increase of 6,957 as compared with 1888, and the number in 1890 is expected to be still larger. The largest proportion was Canadians, estimat-

ed at 25,521, who, having tried settlement in the United States, were returning to their native land.

The number of those, chiefly children, brought into Canada in 1889 by charitable societies and individuals, was 1,022, being 600 less than in the previous year. In the last seven years this class of immigrants has numbered 11,905, and, according to Ontario returns, 17,011 children have been settled in this way in that Province since 1868.

The total number from all parts, reported to have settled in Ontario during the years 1868 to 1889, inclusive, was 560,552, bringing with them effects to the value of \$5,566,455.

The value of cash and effects reported to have been brought into the Dominion by settlers in the fifteen years between 1875 and 1889, was \$39,692,727.

According to British Emigration Returns, out of 12,139,o67 persons of all nationalities who have emigrated from the United Kingdom during the period from 1815 to 1888, 8,076,624 went to the United States ; 1,949,191 to Canada and 1,634,854 to Australasia, being respectively 66 per cent. 16 per cent. and 13 per cent. After the discovery of gold in Australia, emigration to that country increased very rapidly and between 1853 and 1888, 1,324,018 persons left Great Britain for Australia and 912,477 for Canada. During the same period (1853-1888) out of 6,650,055 persons of British and Irish origin only who emigrated, 4,418,363 went to the United States, 1,259,303 to Australasia and 682,827 to Canada, being in the proportion of 67 per cent., 19 per cent, and 10 per cent, respectively. In 1888 out of 398,494 persons who emigrated from the United Kingdom, 293,087, or 70 per cent., went to the United States ; 49,107, or 13 per cent., to Canada, and 31,725, or 11 per cent., to Australasia. During the years 1887 and 1888 emigration to Canada was considerably larger than to Australasia.

The several immigration agents still report that the demand for farm servants and female help continues to increase, and the present supply is very inadequate to meet it. The Government immigration agent at Toronto reports :—" The demand for agricultural laborers during the "season has been greatly in excess of the supply, farmers " writing and coming from all sections of the country to ob-" tain help, and in many cases being disappointed. Wages "ranged from \$15 to \$22 per month for the summer season, " and from \$120 to \$160 for the year. The demand for " domestic help has, as usual, far exceeded the supply, **and** " we have found it utterly impossible to supply even a " small proportion of those applying." Government agents all over the Dominion report to much the same effect.

The Canadian Pacific Railway, with its facilities for transporting immigrants to the far west and British Columbia, materially promotes their comfort, the sleeping accommodation proving a great boon to those travelling to a distance. The arrangements at Quebec for the landing and forwa r

of immigrants are so complete that the following description may prove of interest :---

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For the convenience of steamers carrying immigrants to be landed at Quebec, there are magnificent deep water wharves at both sides of the river, Immigrants intending to travel by Canadian Pacific Railway, are landed at the Louise Embankment breakwater wharf, which is about 800 feet long, and at low tide has 36 feet of water. On this wharf is a baggage shed, 400 feet long, where baggage can he handled and loaded, but for the convenience of the immigrants, who walk on a planked platform to the immigration building where the immigration, railway and other offices are, the Canadian Pacific Railway generally runs the baggage up on railway lorries and spreads it out on the platform, in front of the building, to be sorted and checked as fast as the immigrants procure railway tickets. It is then loaded into baggage cars and a special immigrant train, usually composed of colonist sleeping cars, is always ready to start, so that there is no unnecessary detention. The immigrant has only to exchange or purchase his railway ticket, claim and get checks for baggage, procure provisions for the journey at the counter, and step from the platform into a colonist sleeper in which he goes through without change, to Manitoba, and even British Columbia. There are rarely more than 400 passengers and their baggage on one train, so that frequently the immigrants by a single vessel require two, and sometimes three special trains.

Dominion Lands.

The Crown Lands of Canada, known generally as Dominion Lands, are situated in Manitoba, the Territories, and in what is known as the Railway Belt in British Columbia, and comprise some of the finest agricultural lands on the Continent. In order to provide every facility for information to immigrants and settlers, the Commissioner of Dominion Lands has his office in Winnipeg, and a number of land agencies are situated at the most convenient points, where the fullest details can be obtained.

With the exception of the years 1882 and 1883, the area of land entered by actual settlers, under the provisions of the Dominion Lands Act, was greater than in any previous year. In 1885, owing to the North-West disturbances, the area entered for homestead purposes amounted to only 249,552 acres, but since then the increase has been continuous. The increase in 1888 over 1887, amounted to 100,833acres, and in 1889 over 1888 to 275,717 acres.

The increase in the area pre-empted was very considerable, amounting to 142,130 acres. This increase was undoubtedly largely due to the fact that the privilege of pre-emption ceased on 31st December, 1889, and many settlers were thereby induced to apply for pre-emption entries who otherwise might not have done so.

There was a decrease in the area of land sold of 20,048

acres. The following are the comparative figures, for the last three years, of transactions in Dominion Lands :---

-	1887. — Acres.	1888. 	1889. Acres.
Homesteads	319,500	420, 333	696,050
	87,747	70, 521	212,651
	114,544	197, 140	177,092

The number of entries cancelled has been steadily decreasing; in 1874, 63 per cent of the homestead and 93 per cent. of the pre-emption entries were cancelled; in 1888 and 1889, there were no cancellations. The number of patents issued in 1889 was 3,282, as compared with 3,275 in the preceding year, and the number cancelled was 30. The decrease in the number of patents issued during the last two years, is owing to the fact that under the Territories Real Property Act, notifications to the proper officials by the Minister of the Interior, that certain lands have been granted to any railway company or to the Hudson's Bay Company, shall be equivalent to letters patent.

The total net revenue for the fiscal year of 1886, including receipts from timber dues, grazing, hay and mineral lands, was \$588,862, an increase over 1888 of \$25,153.

The total receipts on account of Dominion Lands under the various heads, from November, 1872 to 31st October, 1889, were \$6,449,324.

The total area set out for settlement since 1873, is shown in the following table :---

YEARS.	Cases.	No. of farms of 160 acres each.
Previous to June, 1873 1874, 1875, 1876, 1877 1878, 1879, 1886, 1881 1882, 1883, 1884, 1885 1886, 1887, 1884, 1885	4,792,292 5,555,062 14,056,418 43,251,680 3,671,320	29,952 34,719 87,853 270,323 22,948
	71,326,972	445,795

In addition to the increase in area of Dominion lands entered upon by settlers, the sales made by the large land corporations were greater and at better prices than in 1888. The Canadian Pacific and Manitoba South-Western Railway Companies sold 191,857 acres for \$719.879, an average of \$3.75 an acre. The North Western Coal and Navigation Company sold 98,000 acres, at an average of \$2 an acre ; the Hudson's Bay Company sold 40,652 acres, an increase of 17,952 acres ; and the Canada North-West Land Company sold 32,320 acres for \$191,402, as compared with 20,620 acres in 1888 for \$113,433.

Owing to the dry summer, the crops on the farms of the Canadian Agricultural Coal and Colonization Company were light, but at the same time sufficiently good to promise well for the future. During the summer 18,000 sheep were imported from Oregon and placed on the farms. The area under crop in 1889 was 6,631 acres, and the area intended for crop in 1890, 14,489 acres.

Numerous improvements were made in the Rocky Mountain Park, principally in opening out new roads and avenues, and in improving those already made. Owing to heavy fires which prevailed through Oregon and Washington Territories during the summer, the mountains were obscured by dense clouds of smoke, with the effect of keeping away many visitors, the number of whom, however, was larger than in any previous year.

During 1887 and 1888 Mr. William Ogilvie, D. L. S., made an important exploratory survey of the Yukon and Mackenzie country in British Columbia and the North-West Territories, covering a total distance of 2,700 miles, and traversing districts which had never before been visited by a white man. He reports the country comprising the Pelly-Yukon district as being generally unsuited for agriculture, and unlikely ever to attract attention, without the discovery and development of large mineral wealth. The timber is unimportant, there being a certain quantity fit for firewood and for use in mines, but practically none for the manufacture of lumber. Indications of large quantities of coal were found near Coal Creek, and that rich finds of both coarse gold and gold-bearing quartz will yet be made, is confidently asserted. From information he obtained, Mr. Ogilvie places the total amount of gold already taken out of the district at \$250,000, about half of which was out of Canadian territory.

Between Fort McPherson, on Peel River, and Fort Chippewyan, on Lake Athabasca, a distance of 1,390 miles, Mr. Ogilvie says that the country, as far as soil is concerned, is as capable of supporting an agricultural population as the greater part of Ontario and Quebec, but the principal drawback is the climate. He gives a number of instances of favorable growth, both of vegetables and cereals, which came under his notice, and in spite of the prevalence of summer frosts, he sees no reason to regard the district as useless, as there is ample time before the territory is required for settlement, to determine what parts are fitted for agriculture. On the lower Mackenzie, he considers the timber about sufficient to supply the needs of the immediate vicinity, but on the upper river the supply is not sufficient. He directs attention to the indiscriminate slaughter of furbearing animals, and shows that they will soon become extinct, unless restrictive measures for preserving them are adopted.

NOTE.—Page 8, 2nd column, the percentage of animal products to other foreign countries should be .84, not .94; and the percentage of agricultural products exported to United States 68.03, and not 41.10.

Population.

In 1806, the population of what is now known as Canada, was 455,899; in 1861,⁷3,323,292; in 1871, 3,602,596; and in 1881, 4,324,810 It is now estimated at 5,075,855. The population of the several Provinces by the census of 1881, was as follows :---

Ontario	1,923,228
Quebec	
Nova Scotia	440,572
New Brunswick	321,233
Prince Edward Island	108,891
Manitoba	65,954
The Territories	56,446
British Columbia	49,459
	4,324,810

A census of three of the provisional districts in the North-West Territories was taken in 1885, when the population was found to be 48,362, and a census of Manitoba, taken in 1886, showed a population of 108,640.

The Indian population according to the report of the Department of Indian Affairs, was in 1888, 124,589. Their civilization is progressing very favorably, as is apparent from the following table, comparative of the years 1881 and 1888.

YEAR.	Resident Indian Popula- tion.	Pupils at Indian Schools,	Acres in Cultiva- tion.	No, of Imple- ments,	Horses, Cattle, Sheep, Pigs.
1881 1889	1	4,126 6,459	81,706 99,964	19,82 49,52	
YEAR.	Bushels Grain.	Bushels Roots,	Tons	Hay.	Other Industries, Value.
1881 1889	285,335 522,045	163,42 323,55		13,673 32,801	\$ 692,147

The growth of some Canadian cities within recent years has been rapid. Montreal which by the census of 1881, contained under 141,000, now claims 220,000 Toronto has increased from 77,000 to 172,000; Ottawa from 25,000 to 44,000; Victoria, B.C., from 6,000 to 20,000, and Winsdor, Ont., from 6,000 to 10.000. When the charter for the city of Winnipeg was secured in 1874. its population was 300, in 1881 it had increased to 7,985, and now (1890) it is estimated at 26,500. The growth of Vancouver, B.C. is the most remarkable. In 1885, where the city now stands there was a thickly wooded wilderness, with one solitary sawmill; but when in that year it was decided to make the spot the terminus of the Canadian Pacific Railway, settlement began. In 1886 the town was completely destroyed by fire, not a house being left, but before the fires were extinguished re building had commenced. The city was incorporated in 1886, when the population was about 700; in 1887 it had increased to 2,000; in 1888 to 6,000, and it is now (1890), estimated at 14,000.

The progress of some of the principal cities and towns, between the years 1881 and 1889, is indicated in the following table :

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planting that he	POPULA	TION.	Assessment.		
NAME.	1881.	1889.	x88x.	1889.	
Montreal	140,747	202,000	\$ †80,273,910	\$ 110,000,000	
Toronto	77,034	172,463	56,286,039	1 37, 230, 778	
Quebec	62,446	65,000		16,270,600	
St. John, N. B	26,127	* 50,000	15,624,000	* 24,058,900	
Hamilton	35,359	44,299	15,650,000	21,573,100	
Ottawa	25,600	44,000	10,198,530	17,145,350	
Halifax	36,100	42,000	14,468,520	21,562,405	
London	19,725	26,786	10,194,919	13,443,492	
Winnipeg	6,249	21,328	9,196,435	18,697,860	
Victoria, B. C	5,925	20,000		8,986,000	
Kingston	14,091	18,284		7,780,270	
Vancouver		14,000		9,500,000	
Charlottetown	11,485	13,000	2,520,280	3,640,120	
Guelph	10,025	10,413	2,899,060	3,234,140	
St. Thomas	9,275	10,408	2,543,925	3,748,314	
St. Catherines	9,498	10,095	4,060,510	4,590,303	
Windsor, Ont	6,377	10,058	1,946,400	4,221,970	

† Real e- ate only. • 1890.

Education which, by the provisions of the British North America Act, is placed under the control of the Provincial Government receives a large share of attention, and the expenditure thereon forms an important item in the annual outlay. The number of pupils attending the Public, High, Normal and Model Schools is fully one million ; the number of teachers exceeds 21,000 and the annual expenditure is about \$8,500,000. Higher education for men and women is afforded very efficiently in institutions of acknowledged excellence, in which close upon \$10,000,000 are invested, with an annual income of upwards of \$656,000, providing for the education of over 7,000 students.

The Geological Survey.

Connected with the machinery by which the lands of the Dominion are managed is a branch of the public service whose special work is to make a study of the mineral wealth of the country.

The Geological Survey of Canada was instituted by the provincial government in 1843, in consequence of petitions presented by the Natural Society of Montreal and the Literary and Historical Society of Quebec. Previous to this date, a number of papers having reference to local points in the geology of the Provinces of Quebec and Ontario had appeared, but no extended systematic work had been undertaken, though the necessity of a geological survey had several years before this time rendered itself apparent to many of the more intelligent people of the country. As early as 1832, Dr. Rae preserted a petition praying for pecuniary assistance to prosecute a geological and statistical survey of

the Province of Upper Canada-a petition which was not even considered by the Committee of Supply to which it had been referred. Mr., afterwards Sir, William Logan, on the recommendations of some of the most eminent geologists of the day, was selected to conduct the geological investigations for which provision had been made, and in 1843 assumed the position of provincial geologist. From this small beginning, the survey has continued to increase in importance and usefulness to the present time, and in the course of its operations some of the greatest additions to the progress of modern geology have been made. After Confederation the field of activity of the geological survey became co-extensive with that of the new Dominion. Prof. Sedgwick had designated the survey, as originally undertaken, a "Herculean task," but that now involved by the addition of half a continent to the two provinces of old Canada, Sir W. Logan, in failing health, found himself unable to undertake, and in 1860 resigned in favor of the present director, Dr. A. R. C. Selwyn. Up to the date of Sr W. Logan's resignation, about 35 annual reports and other publications were issued, making in all over 4,000 pages, giving the results of explorations and reports on minerals, ores and fossil remains met with in the course of the work. Of these publications the most important is the Geology of Canada, a volume of 983 pages which summarizes the results obtained by the survey to 1863. In 1881 the offices and museum of the geological survey were removed from Montreal, where they had been situated from the inception of the work, to Ottawa. There are now arranged and displayed in the museum thousands of geological specimens, consisting of rocks, ores and fossils, There are also considerable collections of shells, plants, insects, an ethnological collection and the nucleus of a collection of the birds and mammals of Canada. The survey is also supplied with a library of scientific reference works and a well equipped chemical laboratory.

In the more thickly populated eastern portions of Canada the work of the geological survey approximates in character to that of similar surveys in Britain and Europe; but, even here, a larger portion of the time of the geologist or his assistants is necessarily occupied in correcting and adding to the maps of the districts in which he may be at work, a circumstance rendered necessary by the want of really accurate topographical surveys. In the newer province and in the uncultivated northern and western portions of the continent, however, the geologist must often be as well the pioneer, and is frequently obliged to carry out running surveys and construct reconnaissance maps of vast tracts of country through which no instrumentally measured lines have as vet been carried. While not forgetting that his more special work is geological, the explorer must also endeavor to bring back with him such observations on the meteorology, botany, zoology and even details as to the number and character of the natives inhabiting these imperfectly known regions as may be of use in extending our knowledge of them. It will easily be understood from this explanation that geological work in such new districts is replete with interest and may frequently result in bringing

to light important unknown or imperfectly recognized sources of wealth, such as the great new coal fields of the North Western plains or the petroleum deposits of the Athabasca. The work done in these regions is necessarily of an incomplete character, and the maps and reports published, while in themselves important advances in knowledge, nust eventually be superseded, as settlement progresses, by others of a more complete and final kind. It thus happens that a considerable proportion of the energy of the survey has necessarily been directed to geographical work, and the surveyors engaged in these remote districts, through which no recognized means of communication exist, have frequently to contend with both hardship and danger in their progress.

Of work of this class carried out within the last twenty years, and which has largely added to our knowledge of the topography of the Dominion, may be mentioned Dr. Selwyn's explorations in British Columbia in 1871 and 1875, and in the North-West Territory in 1873; Dr. Dawson's explorations on the mainland of British Columbia, in the Oueen Charlotte Islands, from the Pacific Coast to Manitoba by way of the Peace River, and in the Rocky Mountains and elsewhere ; Dr. Bell's explorations in the country between Lake Superior and the Hudson's Bay, on the Lower Athabaska, Nelson and Churchill Rivers, the coast of Hudson's Bay and other adjacent regions ; also explorations by Prof. Macoun on the Peace River, Messrs. Richardson, McOuat and Low, north of Lake St. John, in the vicinity of Mistassini Lake and on the Rupert River, together with work by Messrs, Ells, McConnell and Tyrell in various parts of the North-West Territory ; by Mr. Bowman in British Columbia and Mr. Lawson on and around the Lake of the Woods.

In the Eastern Provinces, above alluded to, consecutive and more finished work is possible, and already the greate^r part of New Brunswick, the whole of Cape Breton and other portions of Nova Scotia, Quebec and Ontario have been geologically mapped in considerable detail.

While Canada already .nakes a respectable showing in the matter of mineral products, its development in this respect is by no means commensurate with the extent and value of its actual mineral wealth, a fact due not only to the lack of capital for the extraction and elaboration of the minerals, but also to the wart of experience with which many of the attempts in this direction have been undertaken. The operations of the Geological Survey are supplying as rapidly as possible a trustworthy knowledge of the fundamental structures of the more important regions, while the examinations of special mining districts and the statistical information, which the survey has now undertaken to procure and publish, will tend still further to inspire confidence in foregn capitalists.

The Beaver Line.

The Canada Shipping Company, or as it is popularly called, the Beaver Line, owes its origin to William Murray, of Montreal. The line had its beginning in 1868, to run between Liverpool and Montreal during the summer season, and in winter time to New York or one or other of the cotton ports. Lake Ontario, 5,300 tons, was the pioneee of the fleet; next came Lake Erie, Lake Michigan, Lake St. Clair, Lake Champlain, Lake Nipigon, Lake Megantic, each of the last three being of 2,300 tons, Lake Manitoba, Lake Winnipeg, each of 3,500 tons register; Lake Huron, 4,100 tons; Lake Superior, 5,000 tons.

The Canada Shipping Company seeks to give comfort to its steerage passengers, and in the most recent ships, besides smoking, recreation and reading rooms, a large playroom for the children is provided, in which the youngsters, of whom there are often large numbers on board, can enjoy themselves with impunity without their parents having any fear of hearing the startling cry of "man overboard."

These steamers have all the recent improvements for the safety and comfort of passengers. A skilled doctor and competent stewardesses are carried by each steamer to attend the wants of women and children, and families can be berthed together, which adds very much to the comfort of an ocean voyage.

The cattle trade of late years has been a ve

one to Canada, and the "Beaver Line" was the first regular line to go into the horse and cattle trade, and has been a great favorite with "live stock" shippers, and can show best records for successful carrying, for it bestows every attention to secure it.

Evans & Sons.

A marked sign of progress in Canada is found in the establishment of Evans & Sons, wholesale druggists of Montreal. The firm was established over 60 years ago in Europe, and for 25 years has held a branch business in Canada. Mr. A. B. Evans has for years been the successful manager of the Canadian branch of the firm. Their headquarters are at London and Liverpool, and in almost all principal points throughout the world their branches are to be found. Twenty-five years ago, when in its infancy, the Canadain branch of the firm had but little prestige, but with the advance in age of Confederation and its success, the business of Evans & Sons has grown to large dimensions, and to-day is one of, if not the leading whoiesale drug house in Canada. No further mention of this celebrated firm and its progress is needed.

T. W. Ness, occupy the 5th flat, building 644 Craig street, Montreal, and are manufacturers of all kinds of electrical supplies, annunciators, bells, batteries, door pulleys, push buttons, electric gas light apparatus, experimental electrical apparatus, incandescent lamp shades and fixtures, four different styles of telephones, the Bundy electrical cash register, speaking tubes, whistles, etc., etc. They have the Dodge wood split pulley, which is separable, can be put on shaft without taking it down, and when used with the patent Bushing system, one pulley can be made to fit several sizes of shaftings. Mr. Ness uses the first floor of this building as a show room, the second is occupied, by the Dodge wood-split pulley, and the third as a workshop. A large number of hands is kept constantly employed.

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