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DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY

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REPORT  
on the  
HOSIERY & KNIT GOODS INDUSTRY  
in  
CANADA  
1922

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OTTAWA

1924



# DOMINION BUREAU OF STATISTICS

## CENSUS OF INDUSTRY

OTTAWA, CANADA

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### THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.

Ottawa, April, 1924.- The Dominion Bureau of Statistics herewith presents the annual report for the Hosiery and Knit Goods industry in Canada for the calendar year 1922. The industry is so closely allied to that of the Woollen, as to be considered a part of it. The number of individual plants reporting to the Bureau in 1922 was 141, an advance over the previous year of 14. The location of the factories is shown by comparison within provinces in the following tabular summary for 1921 and 1922.

Provinces	1922	1921
CANADA	141	127
Nova Scotia .....	3	3
New Brunswick .....	1	1
Quebec .....	26	23
Ontario .....	99	88
Manitoba .....	5	4
Saskatchewan .....	-	1
Alberta .....	3	3
British Columbia .....	4	4

### PRINCIPAL STATISTICS

The accompanying table affords a view of the principal statistics of the industry by provinces except that New Brunswick and Nova Scotia are combined to prevent the disclosure of the statistics of an individual plant.

Capital invested in the Hosiery and Knit Goods industry, which in 1921 amounted to \$37,906,361, increased in 1922 to \$44,238,091, an increase during the year of \$7,331,730. Fixed capital comprising items one and two of the schedule amounted to \$21,440,556 or 48.5 per cent of the total investment while working capital represented by the remaining items totalled \$22,797,535 or 51.5 per cent.

Salaried employees increased from 976 in 1921 to 1,038 in 1922 and by \$80,742 for clerical and managerial salaries. The number of employees working for wages was 13,141 in 1922 as compared with 9,471 in 1921 and the amount paid in wages rose during the same period from \$6,552,892 to \$8,652,353. The percentage increase in the latter class was 38.8 in the number of employees and 31.9 for wages. In the wage earning class, the number of males increased over 1921 by 931, and the females by 2,756. There were in addition to the wage earners 139 outside piece-workers in 1922 with total payments of \$81,589, as compared with 485 males in 1921 with payments amounting to \$54,789.



THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.

PRINCIPAL STATISTICS(Continued)

Fuel costs in 1922 totalled \$513,637, as compared with \$432,016 in 1921. Coal of all kinds aggregated 57,331 tons of the value of \$475,843 in 1922, as compared with 47,532 tons valued at \$397,936.

The power installed consisted of 1,184 units with a rated capacity of 13,484 horsepower. The principal power used in the industry in 1922 was electric, there being 1,015 motors with a horsepower capacity of 8,024, as compared with 986 motors with a capacity horsepower of 6,434 in 1921. The next in importance was steam power with 95 units and a rated horsepower of 2,952, followed by hydraulic turbines or waterwheels with 20 units and a rated horsepower of 1,582.

The total cost value delivered at the factory of the classes of materials used during 1922 was \$22,543,671, as against a similar outlay in 1921 of \$18,960,491. The principal materials used are compared below for the calendar years 1921 and 1922.

Principal Materials	Unit	1 9 2 1		1 9 2 2	
		Quantity	Cost Value	Quantity	Cost Value
Cotton raw .....	lb.	2,925,037	845,716	3,170,853	702,253
Cotton yarns .....	"	8,051,490	4,812,988	9,611,772	5,412,967
Cotton waste .....	"	1,033,925	112,668	1,202,952	174,456
Cotton piece goods ...	yd.	939,302	179,111	885,968	162,969
Wool, raw .....	lb.	2,320,072	773,389	3,411,636	1,165,726
Woollen and worsted yarns .....	"	4,251,643	5,054,646	6,658,847	6,718,619
Wool waste and noils .	"	447,215	138,575	157,553	39,304
Wool tops .....	"	1,175,992	891,237	2,056,250	1,422,804
Merino yarns .....	"	496,643	707,338	1,119,451	1,063,301
Silk yarns .....	"	251,447	1,916,531	447,795	2,594,222

From the above table it will be seen that cotton and its derivatives in 1922 accounted for \$6,452,645 in a total cost of materials amounting to \$22,543,671, and wool and its derivatives for \$9,346,453, whilst in 1921 the figures were \$5,950,483 for cottons and \$6,857,847 for wool in a total cost of \$18,960,491.

The total value of production in 1922 was \$44,963,254 as against \$36,689,534 in 1921, an increase of \$8,273,720 or approximately 22½ per cent. A comparative summary of products in classified groups is shown below for the calendar years 1921 and 1922 by quantities and values.

Comparative summary of groups of commodities, 1921 and 1922.

	Unit	1 9 2 1		1 9 2 2	
		Quantity	Sell. Value	Quantity	Selling Val.
Hosiery, all kinds	doz. pr.	2,358,300	11,902,292	2,722,355	15,385,869
Underwear, combinations.....	doz.	317,672	4,733,340	366,675	4,908,242
Underwear, separate	"	1,415,080	10,150,958	1,811,043	11,638,475
Yarns, all kinds .	lb.	1,365,136	1,228,998	2,282,781	2,615,717
Other knitted or woven goods .....	doz.	385,537	7,144,606	611,257	8,995,839
All other products	-	-	1,529,340	-	1,419,112
TOTAL			36,689,534		44,963,254

The increases in both quantity and value of the various lines of products made when compared with 1921 have been general with the single exception of "all other products", as a reference to the above table will indicate.

PRODUCTION

The statistics of production for the calendar year 1922 are presented in Table 1. Quantities and selling values of the various articles produced by the industry are given whenever possible. Hosiery leads in value of production with a total of \$15,385,869 or 34.25 per cent of the total output of the Knit goods industry. Hosiery of the silk or silk mixed variety leads in value with \$6,594,580, woollen and worsted is next in order with \$4,457,060, followed by cotton with \$2,896,912, merino or mixed \$1,392,723 and elastic with \$44,594. In the underwear section, cotton is first both in combination and separate garments with a total output of \$9,223,291, merino is second with a total for both classes of \$3,636,509, followed by wool with a total of \$3,446,601 and silk or silk mixed with \$240,316. In other knitted goods the largest item is that of sweaters, etc., totalling \$5,660,286, with gloves and mittens next in order with \$2,083,554. Other items of manufacture will be found in the table following:-

Table 1.- Production in the Hosiery and Knit Goods Industry, 1922.

Classes of Goods made	Unit of measure	Quantity	Selling Value
<b>Hosiery -</b>			
Woollen or worsted .....	doz.pr.	902,315	4,457,060
Merino or mixed .....	" "	356,739	1,392,723
Cotton .....	" "	639,799	2,896,912
Silk or silk mixed .....	" "	820,597	6,594,580
Elastic .....	" "	2,905	44,594
<b>Underwear, combination -</b>			
Merino or mixed .....	doz.	59,853	1,184,924
All wool .....	"	45,133	957,512
All cotton .....	"	257,865	2,652,483
Silk or silk mixed .....	"	3,824	113,323
<b>Underwear, separate -</b>			
Merino or mixed .....	doz.	221,046	2,451,535
All wool .....	"	213,789	2,489,089
All cotton .....	"	1,364,547	6,570,808
Silk or silk mixed .....	"	6,661	126,993
<b>Other Knitted Goods -</b>			
Sweaters, cardigans, jackets, etc. ....	doz.	212,160	5,660,286
Gloves and mittens .....	"	274,359	2,083,554
Hoods, scarfs, nubbies, caps and toques	"	47,167	435,154
Fancy knit goods .....	"	48,532	465,977
<b>Yarn made for Sale -</b>			
Woollen or worsted yarns .....	lb.	1,827,738	2,452,633
Cotton and merino or mixed yarn ...	"	355,043	163,084
<b>Other miscellaneous products -</b>			
Blankets .....	doz.	11,088	215,668
Jersey cloth and stockinette .....	sq.yd.	368,353	285,119
Boot and shoe linings .....	" "	93,544	99,317
Leggings and gaiters .....	doz.	16,373	106,192
Neckwear .....	"	17,855	96,068
Bathing suits .....	"	7,911	97,170
Jersey suits .....	"	1,152	78,785
Shirts .....	"	7,500	102,500
Shawls .....	"	1,578	29,008
All other products (value only) ...	-	-	660,153
<b>TOTAL VALUE OF PRODUCTS</b>			<b>44,963,254</b>



THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.

CAPITAL INVESTMENT

The amount of capital invested in the Hosiery and Knit Goods industry in 1922 is shown by classes and provinces in Table 2. Fixed capital (items 1 and 2) totalled for the Dominion \$21,440,556 and working capital (items 3 and 4) totalled \$22,797,535. The capital invested for New Brunswick has been included with Nova Scotia to prevent the disclosure of individual statistics. The investment in Ontario mills was approximately 75 per cent of the total for the Dominion, Quebec follows with 15 per cent and the Maritime Provinces with 8 per cent.

Table 2.- Capital Invested in the Hosiery and Knit Goods Industry, by Provinces, 1922.

Provinces	Land, buildings and fixtures	Machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accts. etc.	Total Capital
CANADA	\$ 9,719,511	\$ 11,721,045	\$ 12,841,543	\$ 9,955,992	\$ 44,238,091
Nova Scotia & New Brunswick)	808,534	371,958	373,360	1,981,674	3,535,526
Quebec .....	1,859,861	1,680,542	2,011,924	1,076,516	6,628,843
Ontario .....	6,782,035	9,402,196	10,209,606	6,780,317	33,174,154
Manitoba .....	121,169	119,673	88,614	47,373	376,829
Alberta .....	8,025	18,655	12,079	3,105	46,864
Br. Columbia ..	139,887	128,021	145,960	62,007	475,875

EMPLOYEES, SALARIES AND WAGES

Statistics of employment by classes, sex and salary and wage payments are presented in Table 3 for the Dominion and the provinces. Ontario leads the other provinces with 72 per cent of the number of males employed, nearly 78 per cent of the number of females, and 77 per cent of the total wage and salary outlay. Quebec is next with 20 per cent of the male employees, 16 per cent of the females, and 16 per cent of the total salaries and wages.

Table 3.- Employees, Salaries and Wages, by Provinces, 1922.

Classes of Employment	No. of Employees		Salaries & Wages
	Male	Female	
<u>CANADA</u>			\$
Salaried officers of corporations .....	118	7	571,613
General superintendents and managers ..	158	4	431,834
Technical experts, engineers, chemists, etc.	89	29	155,704
Clerks, stenographers, etc. ....	325	303	710,967
Employees on wages, average yearly number	3,699	9,442	8,652,353
Outside piece-workers .....	5	1,385	81,589
TOTAL	4,394	11,175	10,654,065
<u>ONTARIO</u>			
Salaried officers of corporations .....	88	6	419,317
General superintendents and managers ...	129	4	398,784
Technical experts, engineers, chemists, &c.	74	27	122,816
Clerks, stenographers, etc. ....	163	246	410,190
Employees on wages, average yearly number	2,702	7,054	6,744,918
Outside piece-workers .....	3	1,352	75,987
TOTAL	3,159	8,639	8,172,012

## THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.

## EMPLOYEES, SALARIES AND WAGES (Continued)

Table 3.- Employees, Salaries and Wages by Provinces, (Continued)

Classes of Employment	No. of Employees		Salaries & Wages
	Male	Female	
<u>QUEBEC</u>			\$
Salaried officers of corporations ....	14	1	91,705
General superintendents and managers .	16	-	53,629
Technical experts,engineers,chemists .	6	1	14,541
Clerks, stenographers, etc.....	112	38	220,590
Employees on wages,average yearly no..	755	1,695	1,310,953
Outside piece-workers .....	-	30	5,269
TOTAL	903	1,765	1,696,687
<u>MARITIME PROVINCES</u>			
Salaried officers of corporations ....	5	-	23,160
General superintendents and managers .	2	-	5,577
Technical experts,engineers,chemists .	2	1	5,500
Clerks,stenographers, etc.....	17	15	24,974
Employees,on wages,average yearly no..	190	490	407,078
Outside piece-workers .....	-	-	-
TOTAL	216	506	466,289
<u>WESTERN PROVINCES</u>			
Salaried officers of corporations ....	11	-	37,436
General superintendents and managers .	11	-	23,844
Technical experts,engineers,chemists..	7	-	12,847
Clerks, stenographers, etc.....	33	9	55,213
Employees on wages, average yearly no..	52	203	189,404
Outside piece-workers .....	2	3	333
TOTAL	116	215	319,077

## OTHER LABOUR STATISTICS

The time that plants operated during the year and the hours of labour of employees are shown in Table 4. Operating time in plants is shown under three heads: full time, part time and idle, whilst that of employees is given by the hours of labour per day and per week. The averages of working time per plant will be found in the last three columns. The average operating time of all plants was 273.66 days and of employees 8.6 hours per day and 48.4 hours per week.

Table 4.- Working Time by Provinces, 1922.

Provinces	Plants operating No.	Days in operation			Hrs. worked		Averages per plant of		
		On full time	On part time	Idle	Per day	Per week	Days in operation	Hours worked	
								Per day	Per week
CANADA	141	36,134	2,452	3,974	1,213	6,827	273.66	8.6	48.4
Newa Scotia)									
N. Brunswick)	4	983	15	218	33	221	249.50	9.5	55.2
Quebec .....	26	7,095	240	569	237	1,321	282.11	9.1	50.8
Ontario .....	29	25,044	2,172	2,576	840	4,733	274.00	8.5	47.8
Manitoba ...	5	1,308	-	212	40	223	261.60	8.0	44.6
Alberta .....	3	594	25	293	25	143	206.33	8.3	47.7
Br. Columbia	4	1,110	-	106	33	186	277.90	8.2	46.5



THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.

COST OF MATERIALS

Table 5 presents the statistics of the principal materials, whether in the raw or partly manufactured condition, by quantity and cost value delivered at the factory or mill. In the accompanying table a comparative view of the quantities and values of the principal materials used in 1921 and 1922 together with average cost prices of each of the commodities included in the table.

Summary of the principal Materials by Quantities, total  
and average Cost Price, 1921 and 1922.

Commodity	Unit	1921		1922		Average Cost Price	
		Quantity	Cost Val.	Quantity	Cost Val.	1921	1922
Cotton, raw	lb.	2,925,037	845,716	3,170,853	702,253	.29	.22
Wool, raw .	"	2,320,072	773,389	3,411,686	1,165,726	.33	.34
Yarn, cotton	"	8,051,490	4,812,988	9,611,772	5,412,967	.59	.56
Yarn, woollen	"	2,097,963	2,112,971	3,733,498	3,314,437	1.01	.89
Yarn, worsted	"	2,153,680	2,941,675	2,925,349	3,404,182	1.37	1.17
Yarn, merino	"	496,643	707,338	1,119,451	1,063,301	1.42	.95
Yarn, silk ..	"	251,447	1,916,581	447,795	2,594,222	7.62	5.79
Yarn,art silk	"	41,483	122,895	65,697	165,100	2.96	2.51
Yarn, other							
hosiery ...	"	64,456	115,962	113,288	154,051	1.80	1.36
Cotton waste	"	1,033,925	112,668	1,202,952	174,456	.11	.145
Wool waste and							
noils .....	"	447,215	138,575	157,553	39,304	.31	.25
Tops .....	"	1,175,992	891,237	2,056,250	1,422,804	.76	.62
Shoddy, etc...	"	625,429	80,846	442,469	51,865	.13	.125
Gateens and							
other cloth .	yd.	512,062	174,037	658,511	169,548	.34	.26
Cotton piece							
goods .....	"	939,302	179,111	885,968	162,969	.19	.185
Soap .....	lb.	684,534	64,305	1,097,516	81,581	.09	.075

There were increases in quantities of all the principal commodities used as materials in the industry in 1922 with but three exceptions, wool waste and noils, shoddy, etc., and cotton piece goods. The average cost prices of the various commodities on the other hand show decreases, as compared with the previous year with but two exceptions - wool in raw condition, and cotton waste.

The total cost of materials in 1922 was \$22,543,671, as compared with \$18,960,491 in 1921, an increase of 19 per cent. Compared by quantities, the increase was considerably greater, being 125 per cent for merino yarns, 78 per cent for silk yarns and woollen yarns, 76 per cent for other hosiery yarns, 75 per cent for wool tops, 58 per cent for artificial silk, 47 per cent for raw wool, 36 per cent for worsted yarns and 19 per cent for cotton yarns. The latter comparison is a truer measure of the growth of an industry, rather than a comparison of values which are fluctuating in character.



THE HOSIERY AND KNIT GOODS HOSIERY IN CANADA, 1922.

MATERIALS USED

Table 5.- Materials Used, 1922.

	Unit of Measure	Quantity	Cost Value at Plant
			\$
Cotton, raw .....	lb.	3,170,853	702,253
Wool, raw .....	"	3,411,686	1,165,726
Yarns -			
Cotton .....	"	9,611,772	5,412,967
Woollen .....	"	3,723,498	3,314,437
Worsted .....	"	2,925,349	3,404,182
Merino (cotton mixed) .....	"	1,112,451	1,063,301
Silk .....	"	447,725	2,594,222
Other hosiery and underwear yarns .....	"	1,171	1,898
Cotton waste .....	"	1,202,952	174,456
Wool waste and noils .....	"	157,553	39,304
Tops .....	"	2,056,250	1,422,804
Shoddy, mungo and wool extract ..	"	442,469	51,365
Sateens and other fancy cloths ..	yd.	658,511	169,548
Cotton piece goods .....	"	885,968	162,969
Soap .....	lb.	1,097,516	81,581
Sodas .....	-	-	55,234
Dyestuffs and chemicals .....	-	-	389,933
Faces, braids and other trimmings	-	-	295,320
Elastic webbing and cord .....	-	-	48,784
Ribbons, silks, etc. ....	-	-	39,861
Thread .....	-	-	366,622
Buttons and fasteners .....	-	-	318,976
Boxes, box shooks, paper twine, and other miscellaneous materials	-	-	1,267,422
TOTAL			\$22,543,671

EQUIPMENT

The equipment employed in the mills making hosiery and other goods is presented in Table 6 for the Dominion for the calendar years 1921 and 1922. Increases in all classes of equipment are shown with the single exception of hand knitting machines where the number reported decreased by 882.

Table 6.- Equipment in Hosiery and Knitting Mills, 1921 and 1922.

Classes of Equipment	Number	
	1921	1922
Sets of cards .....	226	230
Mule spinning spindles .....	63,396	64,018
Frame spinning spindles .....	30,876	32,958
Doubling and twisting spindles .....	8,442	8,797
Wool combing machines .....	5	14
Sewing machines .....	4,849	5,043
Knitting machines, power .....	10,516	11,662
Knitting machines, hand .....	1,258	376

THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.FUEL CONSUMPTION

The quantity and cost value at the factory or mill of the classes of fuel consumed by the industry in 1922 is shown in Table 7. Coal constituted 92.6 per cent of the total cost of fuel consumption for the year, of which bituminous coal was nearly 90 per cent. The increase in the cost of fuel consumed over 1921 was \$81,621, or approximately 19 per cent.

Table 7.- Fuel Consumption in the Knit Goods Industry, 1922.

Classes of Fuel	Unit of measure	Fuel Consumed	
		Quantity	Cost Value
Bituminous coal .....	ton	55,955	\$ 460,589
Anthracite coal .....	"	706	9,524
Lignite coal .....	"	670	5,730
Coke .....	"	3,132	17,495
Gasoline .....	gal.	1,908	734
Fuel oils .....	"	6,320	386
Wood .....	cd.	638	4,066
Gas, artificial or natural .....	m.c.ft.	25,188	14,426
Other fuel (value only) .....	-	-	687
TOTAL COST OF ALL FUEL			\$513,637

POWER INSTALLATION

The classes of power used in the industry are presented in Table 8, according to (a) the number of units installed in each class and (b) the horsepower capacity as rated by the manufacturer. The increase over 1921 was 109 units and 237 capacity horsepower. Electric motors furnished 8,024 horsepower of the total or nearly 60 per cent. The number of boilers installed was 83 with a boiler horsepower capacity of 8,185.

Table 8.- Power Installation in the Knit Goods Industry, 1922.

Classes of Power	No. of Units	H. P. according to manufacturer's rating
Steam engines and turbines .....	95	2,952
Gas engines .....	8	916
Gasoline and oil engines .....	2	10
Hydraulic turbines or water wheels	20	1,582
Electric motors -		
Operated by owned power .....	290	2,627
Operated by rented power .....	769	5,397
TOTAL POWER INSTALLATION	1,184	13,484

MISCELLANEOUS EXPENSES

The outlay for expenses of a miscellaneous character, commonly called "overhead" during the calendar year 1922 was \$5,303,903, as compared with \$4,220,176 in 1921, an increase of 25 per cent. The items comprising the total were - rent of offices, works and machinery, rent of power, insurance, taxes of all kinds, advertising and travelling expenses, repairs to buildings and machinery, and sundry other expenses.



# THE HOSIERY AND KNIT GOODS INDUSTRY IN CANADA, 1922.

## IMPORTS

The quantity and value of the partly and wholly manufactured articles imported into Canada for the calendar year 1922 is shown by principal countries in Table 9. The United Kingdom contributed \$5,516,426 in a grand total of imports of commodities included in the table amounting to \$9,521,768. The United States is next with \$3,122,079 followed by other countries with \$883,263. The principal articles of imports from the United Kingdom were artificial silk yarns and articles of which wool was the principal ingredient. Articles composed of cotton came principally from the United States.

Table 9.- Imports for Consumption in Canada for the calendar year 1922, by principal countries.

Articles	Unit	United Kingdom		United States		Other Countries		TOTAL	
		Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
			\$		\$		\$		\$
Yarns, knitting hosiery or other cotton, dyed or not, n.o.p.....	lb.	224,106	106,278	336,333	189,765	5,364	6,654	615,803	302,697
Yarns, thread and filaments of artificial or imitation silk, etc.....	"	425,393	1,071,255	158,092	397,429	225,202	544,745	808,687	2,013,429
Socks and stockings, cotton .....	doz.pr.	21,232	76,782	496,041	812,766	21,435	22,450	538,708	911,998
" " " silk .....	" "	4,362	53,394	33,666	375,461	1,136	15,382	39,164	444,237
" " " wool .....	" "	549,527	2,563,458	11,951	43,364	235	1,999	561,713	2,611,821
Undershirts and drawers, cotton .....	-	-	31,621	-	348,726	-	8,267	-	388,614
" " " silk .....	-	-	2,479	-	1,452	-	3,948	-	7,879
" " " wool .....	-	-	381,857	-	19,869	-	14,089	-	415,815
Gloves and mitts, knitted, etc., n.o.p....	-	-	512,838	-	191,503	-	217,989	-	922,350
Knitted goods of wool, n.o.p.....	-	-	393,385	-	69,219	-	8,042	-	470,646
Knitted goods of every description, n.o.p.	-	-	320,079	-	672,525	-	39,698	-	1,032,302
TOTAL VALUE OF IMPORTS			5,516,426		3,122,079		883,263		9,521,768

## EXPORTS

The only specified items of goods, the produce of Canada, exported during the calendar year 1922 pertaining to the Knit Goods industry were (a) cotton underwear and (b) woollen underwear. The value of such exports are shown by principal countries in Table 10, quantities not being stated.

Table 10.- Export of Knitted Goods, the produce of Canada, calendar year, 1922.

Articles	United Kingdom	United States	Other countries	TOTAL
	\$	\$	\$	\$
Underwear, cotton .....	90,671	29	185,619	276,319
Underwear, woollen .....	1,437	4,010	46,297	51,744
TOTAL VALUE OF EXPORTS	92,108	4,039	231,916	328,063

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