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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

on the

SILK INDUSTRY

in

CANADA

1921 and 1922

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Published by Authority of the Hon. Thos. A. Low. M. P.,  
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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
OTTAWA, CANADA

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THE SILK INDUSTRY IN CANADA, 1921 and 1922.

Ottawa, June, 1924.- The Dominion Bureau of Statistics presents herewith a report on the Silk Industry in Canada for the calendar years 1921 and 1922. The number of mills reporting was 5, of which 4 were in the province of Quebec and 1 in Ontario. In 1922 the number of factories reporting had risen to 7, each of the provinces being credited with an additional plant.

PRINCIPAL STATISTICS

A table summarizing the principal statistics of the industry for each of the years is given below. The number of establishments reporting increased by two, but neither represented a full year's operations, both having started in the month of August.

The increases in capital, employment and production are for this reason considerable less than a full year's operations would have shown.

Principal Statistics of the Silk Industry in Canada, 1921-22.

Principal Statistics	1921	1922
Mills reporting ..... No.	5	7
Capital investment ..... \$	4,559,909	4,618,448
Employees on salaries -		
Male ..... No.	48	205
Female ..... No.	13	127
Salaries ..... \$	136,071	490,134
Employees on wages -		
Male ..... No.	207	281
Female ..... No.	676	854
Wages ..... \$	584,398	745,996
Power installed -		
Units ..... No.	71	97
Capacity ..... H.P.	644	948
Cost of fuel ..... \$	47,003	33,744
Miscellaneous expenses ..... \$	255,299	676,896
Cost of materials ..... \$	1,890,171	2,267,250
Value of products ..... \$	3,536,513	4,675,205
Value added by manufacture .. \$	1,646,342	2,407,955

THE SILK INDUSTRY IN CANADA, 1921 and 1922.

PRODUCTION

The statistics of production in the Silk industry are presented in Table 1 for the calendar years 1921 and 1922 by quantities and values of the principal products. Of the total value of production, the province of Quebec contributed 77 per cent in 1921 and 76 per cent in 1922, whilst Ontario's percentage was 23 in 1921 and 24 in 1922. The manufacture of "broad silk" or silk cloth in the gum is reported for the first time in the history of the silk industry in Canada and is carried on by the Premier Silk Mills, Ltd., whose mills are situated in Cowansville, Quebec.

Table 1.- Production in the Silk industry in Canada, 1921-1922.

Classes of Products	Unit	1921		1922	
		Quan.	Value	Quan.	Value
Silk yarn .....	lb.	77,159	686,815	112,729	945,982
Silk thread .....	"	161,581	730,487	57,380	272,533
Braids .....	gr.yds.	180,000	54,468	238,123	504,483
Laces .....	gr.decz.	660,000	149,777	-	197,587
Ribbons .....	ends	355,813	477,786	-	508,208
Silk cloth .....	yd.	-	-	1	1
Embroidery & knitting silks (artificial) .....	boxes	275,677	700,436	589,109	648,020
Embroidery and knitting silks in cones & skeins	lb.	-	-	6,500	42,102
Knitting wool .....	"	68,155	132,122	129,895	292,264
All other products .....	-	-	604,622	-	1,264,026
<b>TOTAL VALUE OF PRODUCTS</b>			<b>3,536,513</b>		<b>4,675,205</b>

† Included in "All other products" to prevent disclosure of individual statistics.

CAPITAL INVESTMENT

The amount of capital invested in the Silk industry during the calendar years 1921 and 1922 is presented in Table 2 for the Dominion. Increases will be noted in both items under the head of fixed capital over 1921, whilst those under working capital show decreases, the net increase of total capital amounting to \$58,539. Almost 90 per cent of the total capital invested in 1921 was credited to the province of Quebec, and in 1922 the percentage dropped to 87, the remaining percentages being contributed by the province of Ontario.

Table 2.- Capital Invested in the Silk Industry, 1921-22.

	1921	1922
<u>Fixed Capital</u> -	\$	\$
Land, buildings and fixtures .....	1,326,505	1,474,163
Machinery and tools .....	966,611	1,024,643
<u>Working Capital</u> -		
Materials on hand, stocks in process, etc.....	1,332,017	1,259,494
Cash, trading and operating accounts, etc.....	934,776	860,148
<b>TOTAL CAPITAL</b>	<b>4,559,909</b>	<b>4,618,448</b>

THE SILK INDUSTRY IN CANADA, 1921 and 1922.

EMPLOYEES, SALARIES AND WAGES

The number and sex of the persons employed in the industry is shown by classes and remuneration in Table 3. Male employees increased from 255 in 1921 to 486 in 1922 and female employees from 689 to 981. The total salary payments increased from \$136,071 in 1921 to \$490,134 in 1922 and wage payments from \$584,398 in 1921 to \$745,996 in 1922, making a total outlay for salaries and wages of \$720,469 in 1921 as against \$1,236,130 in 1922.

Table 3.- Employees, Salaries and Wages in the Silk industry, 1921-22

Classes of employees	1921			1922		
	Employees		Salaries & wages	Employees		Salaries & wages
	Male	F.		M.	F.	
Salaried officers of corporations	No. 6	No. -	\$ 49,235	No. 13	No. -	\$ 91,031
General supts. and managers .....	10	-	28,714	15	1	58,229
Technical experts, chemists, etc..	1	-	1,918	3	-	8,075
Clerks, stenographers, etc.....	31	13	56,204	174	126	332,799
<b>TOTAL SALARIED EMPLOYEES</b>	<b>48</b>	<b>13</b>	<b>136,071</b>	<b>205</b>	<b>127</b>	<b>490,134</b>
Wage earners, average number ....	207	676	584,398	281	854	745,996
<b>GRAND TOTAL ALL EMPLOYEES</b>	<b>255</b>	<b>689</b>	<b>720,469</b>	<b>486</b>	<b>981</b>	<b>1,236,130</b>

The number of employees by sex, working for wages, is shown in Table 4 by months. The numbers given in the table are as per the pay roll on the 15th of each month or other representative date. The increase in average monthly employment over 1921 was only 35 per cent in the case of males and 28 per cent for females. It will be noted that employment has been fairly steady from month to month.

Table 4.- Employment Statistics by Months, 1921 and 1922

Months	Employees on Pay roll			
	1921		1922	
	Male	Female	Male	Female
January .....	207	425	256	782
February .....	186	583	260	802
March .....	201	691	263	873
April .....	204	732	267	888
May .....	232	709	272	881
June .....	221	822	247	855
July .....	213	706	282	808
August .....	211	645	296	870
September .....	208	702	309	897
October .....	208	734	308	871
November .....	215	726	306	857
December .....	173	494	305	864
<b>TOTALS FOR YEAR</b>	<b>2,479</b>	<b>7,969</b>	<b>3,371</b>	<b>10,248</b>
<b>AVERAGE FOR YEAR</b>	<b>207</b>	<b>664</b>	<b>281</b>	<b>854</b>

OTHER LABOUR STATISTICS

Statistics of operating mills and their employees are shown in Table 5 for the calendar years 1921 and 1922. The Census year is placed at 304 working days and all computations are made on this basis. The average time that plants operated during 1921 was 277.6 days and the average daily working time 9 hours. In 1922, owing to two of the plants starting late in the year the average operating time of mills was reduced to 242 days, whilst the working hours of employees remained stationary.

Table 5.-Working Time of Plants & Employees, 1921-1922

	1921	1922
Number of operating plants .....	5	7
Total days in operation -		
On full time .....	1,378	1,694
Idle .....	142	434
Hours worked by employees -		
Per day or shift .....	45	63
Per week .....	251	348

THE SILK INDUSTRY IN CANADA, 1921 and 1922.MATERIALS USED

The quantity and the cost value delivered at the factory of the principal materials used in the silk industry is shown in Table 6, for the calendar years 1921 and 1922. Artificial silk was the principal material used, followed by raw silk and wools. Most of the materials show decreases in cost value but increases in the quantity used, the total increase in cost amounting to \$377,079.

Table 6.- Materials Used in the Silk Industry, 1921-1922.

Classes of Materials	Unit	1921		1922	
		Quan.	Value	Quan.	Value
Silk, raw .....	lb.	147,218	983,774	128,253	756,433
Silk, artificial .....	"	59,800	179,912	204,823	964,573
Silk, spun .....	"	21,141	72,332	13,710	68,552
Wools .....	"	73,000	135,223	151,181	188,977
Cotton yarns .....	"	231,898	171,226	234,855	112,986
Cotton yarns, mercerized	"	-	-	14,000	11,200
Soap, oils and dyestuffs	-	-	58,708	-	14,524
All other materials ....	-	-	287,096	-	150,005
<b>TOTAL COST OF MATERIALS</b>			<b>1,890,171</b>		<b>2,267,250</b>

FUEL CONSUMPTION

The quantity and cost value delivered at the factory of the classes of fuel consumed during the calendar years 1921 and 1922 are shown in Table 7. Coal of various kinds and grades was the only fuel consumed in this industry, the total tonnage being 5,228 of the value of \$47,003 in 1921 and 3,987 in 1922 valued at \$33,744.

Table 7.- Fuel used in 1921 and 1922.

Classes of Fuel	Unit	1921		1922	
		Quantity	Cost Value	Quantity	Cost Value
Coal, bituminous .....	ton	606	7,651	1,930	17,288
Coal, anthracite .....	"	1,561	11,695	2,057	16,456
Coal, lignite .....	"	3,061	27,657	-	-
<b>TOTAL</b>		<b>5,228</b>	<b>47,003</b>	<b>3,987</b>	<b>33,744</b>

POWER INSTALLATION

The classes of power installed in the industry in 1921 and 1922 are presented in Table 8, according to the number of units and the horsepower according to manufacturer's rating. The number of boilers installed in 1921 was 10 with a boiler h.p. capacity of 800, which with the same number installed in 1922 had a capacity of 1,020 boiler h.p.

Table 8.- Power Installation, 1921 and 1922.

Classes of power	1921		1922	
	Units No.	Indicated H.P.	Units No.	Indicated H.P.
Steam engines .....	-	-	1	60
Hydraulic turbines or water wheels	1	125	1	125
Electric motors .....	70	574	95	763
<b>TOTAL</b>	<b>71</b>	<b>699</b>	<b>97</b>	<b>948</b>

THE SILK INDUSTRY IN CANADA, 1921 and 1922.MISCELLANEOUS EXPENSES

The cost of "overhead" or miscellaneous expenses including rent of offices, works, machinery and power; taxes, provincial, municipal and federal; insurance; travelling and advertising expenses; repairs to buildings and machinery and all other sundry expenses amounted to \$255,299 in 1921 and to \$676,396 in 1922.

IMPORTS AND EXPORTS

The quantity and value of silk in the raw and partly manufactured condition, as well as of fully manufactured products imported into Canada for consumption during the calendar years 1921 and 1922 is shown in Table 9 by principal countries. The total value of such goods, as described below amounted in 1921 to \$21,855,274, and in 1922 to \$24,075,814.

The exports of goods, the produce of Canada, was all included in the item "silk and manufactures of silk" the value exported to the United Kingdom being \$76,481 in 1921 and \$152,064 in 1922, to the United States \$21,199 in 1921 and \$35,170 in 1922, and to other countries \$60,485 in 1921 and \$186,562 in 1922.

THE SILK INDUSTRY IN CANADA, 1921 and 1922.

Table 9.- Imports of Silk and Silk Goods for consumption in Canada, 1921.

Items of Imports, 1921	Unit	United Kingdom		United States		Other Countries	
		Quantity	Value	Quantity	Value	Quantity	Value
<u>Raw Materials -</u>			\$		\$		\$
Silk cocoons and silk waste .....	-	-	-	-	4,712	-	-
Silk raw, or as reeled from the cocoon, not manufactured in any way .....	lb.	-	-	271,028	1,799,472	17,925	100,234
<u>Partly Manufactured Materials -</u>							
Silk in the gum or spun, for the manufacture of ribbons and shoe laces .....	lb.	-	-	484	3,507	-	-
Silk in the gum or spun, for the manufacture of underwear, labels and thread .....	lb.	4,124	20,919	6,863	44,212	2,999	16,328
Silk spun, not coloured, n.o.p. or silk in the gum, etc. ....	lb.	741	2,459	4,691	27,673	-	-
Yarns, thread and filaments of artificial or imitation silk, etc. ....	lb.	227,076	540,630	171,335	408,558	85,859	229,268
<u>Manufactured Materials -</u>							
Sewing and embroidery silk, silk twist & floss	-	-	80,106	-	76,488	-	13,007
Bolting cloth, not made up .....	-	-	372	-	43,626	-	2,186
Handkerchiefs, silk .....	-	-	24,024	-	2,790	-	84,712
Ribbons of all kinds and materials .....	-	-	157,973	-	720,107	-	1,114,310
Silk cloth, woven in the gum .....	-	-	-	-	-	-	-
Silk fabrics, of which silk is chief component material, for manufacture of neckties .....	-	-	63,134	-	191,242	-	441,336
Silk fabrics, n.o.p. ....	-	-	703,185	-	2,518,503	-	9,492,940
Velvets of pure silk .....	yd.	396	2,012	423	1,956	14	84
Velvets other than pure silk .....	"	219,880	303,106	138,096	225,223	133,277	205,835
Blouses and shirt waists, silk .....	-	-	3,701	-	132,363	-	11,423
Shawls, silk .....	-	-	2,037	-	1,244	-	581
Shirts, silk .....	doz	55	3,124	218	7,390	1,143	29,045
Socks and stockings, silk .....	doz.pr.	1,345	21,050	20,984	228,924	606	5,731
Undershirts and drawers, silk .....	-	-	2,356	-	996	-	2,713
Clothing, silk, n.o.p. ....	-	-	156,007	-	1,085,875	-	282,059
Silk and all manufactures of, n.o.p. of which silk is chief component material .....	-	-	63,810	-	89,979	-	58,637
<b>TOTAL VALUE OF IMPORTS, 1921</b>			<b>2,150,005</b>		<b>7,614,840</b>		<b>12,090,429</b>



THE SILK INDUSTRY IN CANADA, 1921 and 1922.

Table 9(Continued).- Imports of Silk and Silk Goods for Consumption in Canada, 1922

Items of Imports, 1922	Unit	United Kingdom		United States		Other Countries	
		Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
<u>Raw Materials -</u>							
Silk cocoons and silk waste .....	-	-	-	-	7,945	-	-
Silk raw or as reeled from the cocoon, not manufactured in any way .....	lb.	-	-	391,694	2,821,298	135	901
<u>Partly Manufactured Materials -</u>							
Silk in the gum or spun, for the manufacture of ribbons and shoe laces .....	lb.	-	-	14	249	-	-
Silk in the gum or spun, for the manufacture of underwear, labels and thread .....	lb.	11,204	48,344	12,769	74,930	3,749	15,059
Silk spun, not coloured, n.o.p. or silk in the gum Yarns, thread and filaments of artificial or imitation silk, etc. ....	"	543	2,435	4,742	33,073	79	609
	"	425,393	1,071,255	158,092	397,429	215,202	538,745
<u>Manufactured Materials -</u>							
Sewing and embroidery silk, silk twist, etc....	-	-	88,578	-	61,838	-	20,178
Bolting cloth, not made up .....	-	-	647	-	47,147	-	631
Handkerchiefs, silk .....	-	-	26,190	-	9,722	-	99,573
Ribbons of all kinds and materials .....	-	-	203,763	-	558,070	-	967,747
Silk cloth woven in the gum (from May 24th, 1922)	-	-	312	-	487	-	56,405
Silk fabrics, of which silk is chief component material for manufacture of neckties .....	-	-	44,666	-	302,110	-	424,706
Silk fabrics, n.o.p. ....	-	-	1,080,278	-	3,073,716	-	8,461,442
Velvets of pure silk .....	yd.	1,401	4,728	2,077	10,780	159	724
Velvets, other than pure silk .....	"	372,253	480,176	164,246	307,579	291,136	368,007
Blouses and shirt waists, silk .....	-	-	5,672	-	82,118	-	19,326
Shawls, silk .....	-	-	4,076	-	1,121	-	756
Shirts, silk .....	doz.	57	3,444	784	18,491	537	15,007
Socks and stockings, silk .....	doz. pr.	4,362	53,394	33,666	375,461	1,136	15,382
Undershirts and drawers, silk .....	-	-	2,479	-	1,452	-	3,941
Clothing silk, n.o.p. ....	-	-	166,147	-	1,089,017	-	320,141
Silk and all manufactures of, n.o.p. of which silk is the chief component material .....	-	-	52,173	-	80,298	-	53,349
<b>TOTAL VALUE OF IMPORTS, 1922</b>			<b>3,338,757</b>		<b>9,354,331</b>		<b>11,382,726</b>

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