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SILK INDUSTRY

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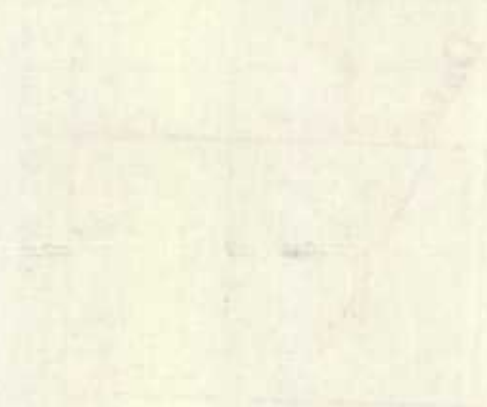
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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
ONTARIO - CANADA

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Chief, Census of Industry: J. C. Macpherson.

THE SILK INDUSTRY IN CANADA, 1923.

Ottawa, June, 1925.-- The report on the Silk Industry in Canada for the calendar year 1923 is herewith presented. The number of mills reporting during the year was 7 of which 5 were in the province of Quebec and two in Ontario.

PRINCIPAL STATISTICS.

A table showing the principal statistics of this industry comparatively for the calendar years 1922 and 1923 is given below. There was an increase in the value of production over 1922 amounting to \$369,763, in materials used of \$409,997 and in the cost of fuel of \$4,015. Small decreases appear in the remaining statistical items as follows:-- \$24,135 in capital invested; 10 in the number of persons employed, \$12,094 in the amount paid for salaries and wages and \$142,095 in the cost of miscellaneous expenses.

Principal Statistics Compared for 1922 and 1923

Principal Statistics		1922	1923
Mills reporting	No.	7	7
Capital Invested	\$	4,618,448	4,594,313
Employees on Salaries -	Male	205	190
	Female	127	132
Employees on Wages -	Salaries	490,134	480,032
	Male	281	312
Power Installed -	Female	354	823
	Wages	745,996	744,004
Cost of fuel	Units	97	99
	Capacity	H.P.	1,040
Miscellaneous Expenses	\$	33,744	37,759
Cost of Materials	\$	676,896	534,801
Value of Products	\$	2,267,250	2,577,229
Value added by manufacture	\$	4,675,205	5,044,968
		2,407,955	2,367,739

PRODUCTION

The total value of production in the Silk Industry during the year shows an increase over the preceding one of \$369,763. The items showing the greatest increase were silk and artificial silk threads and yarns which in 1923 totalled \$2,409,416 as compared with \$1,908,637 in 1922. Nearly 80 per cent of the value of production is to be credited to the province of Quebec, the remaining 20 per cent going to Ontario. Table I presents comparative statistics of values of production by classes for the calendar years 1922 and 1923.

I. Value of Silk Production in Canada for the calendar years 1922 and 1923

Products	1922	1923
	\$	\$
Silk yarns and thread	1,260,617	1,806,876
Artificial silk threads	648,020	602,540
Silk cloth or broad silk	1	1
Silk ribbons	508,208	559,507
Laces, braids and tapes	702,070	546,584
Knitting wools	292,264	437,830
All other products including custom work	1,264,026	1,091,631
T O T A L S	4,675,205	5,044,968

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

THE SILK INDUSTRY IN CANADA, 1923.

CAPITAL INVESTMENT

The amount of capital invested in the Silk Industry in Canada including artificial silk is presented in Table 2 by items, under two heads, viz., Fixed capital and working capital. Fixed capital increased during 1923 by \$134,726 whilst working capital which is fluctuating in character decreased by \$158,861 making a net decrease of \$24,135 as compared with 1922. Practically 85 per cent of the investment in 1923 is credited to Quebec, the remaining 15 per cent being credited to Ontario.

2. Capital Invested in the Silk Industry in Canada, 1922 and 1923.

Classification of Capital		1922	1923
		\$	\$
1. Fixed Capital -	Total	2,498,806	2,633,532
Land, buildings and fixtures		1,474,163	1,545,392
Machinery and tools		1,024,643	1,088,140
2. Working Capital -	Total	2,119,642	1,960,781
Materials on hand, stocks in process, etc.		1,259,494	1,140,742
Cash, trading and operating accounts, etc.		860,148	820,039
Total Capital		4,618,448	4,594,313

EMPLOYMENT STATISTICS

Statistics of employment for the calendar year 1923 are shown in Tables 3, 4 and 5. Table 3 presents the number of persons employed during the year by classes of employment, sex and remuneration. Compared with 1922 there was a decrease of 10 in the number of persons employed and of \$12,094 in the total payments for salaries and wages.

Table 3.- Employees, Salaries and Wages, 1923.

Classes of Employment	No. of employees		Total amount paid in salaries and wages
	Male	Female	
	No.	No.	\$
Salaried Officers of Corporations	14	-	93,381
General superintendents, managers, etc.	15	1	56,915
Technical experts, engineers, chemists, etc.	5	-	10,939
Clerks, stenographers, salesmen, etc.	156	131	318,797
Wage-earners, average yearly number	312	823	744,004
T O T A L	502	955	1,224,036

Table 4 presents employment statistics by number and sex for each month of the year. The months of highest employment were July and August whilst those of lowest employment were January and February. The average employment per months for the whole year was 312 males and 823 females. Employees increased in number during the last six months over the first six by 4 per cent, the increase being principally confined to male employees.

Table 4. - Employment Statistics by Months, 1923.

Months	No. on Payroll		Months	No. on Payroll	
	Male	Female		Male	Female
January	284	795	July	333	855
February	285	776	August	334	847
March	275	818	September	330	844
April	293	834	October	341	834
May	314	853	November	297	793
June	311	837	December	343	793
Total employees during 12 months				3,740	9,879
Average monthly employment throughout year				312	823

The statistics of working time in operating mills and their employees are shown in Table 5. The average working time whether full or part time in 1923 was 293.28 days. The average time in which plants were idle was 10.71 days. Employees worked an average of 9 hours per day and 49.71 hours per week.

Table 5. - Working time of plants and employees.

Number of operating mills	7	
	Totals	Averages
Days in Operation -		
On full time	2,013	284.71
On part time	40	5.71
Idle	75	10.71
Hours worked by employees -		
Per day or shift	63	9.00
Per week	448	49.71

POWER EMPLOYED

The classes of power employed in this industry during 1923 are presented in Table 6 according to the number of units in each and to the horsepower according to manufacturers' rating. The total available horsepower was 1,040 of which 840 or over 80 per cent was of electric origin. The number of boilers installed was 7 with a boiler horsepower capacity of 745.

Table 6.- Power Employed, 1923.

Classes of Power	No. of Units	Horsepower according to manufacturers' rating.
Steam engines	2	100
Hydraulic turbines or water wheels	1	100
Electric motors operated by owned power	12	104
Electric motors operated by rented power	84	736
TOTALS	99	1,040

FUEL CONSUMPTION

The quantity and cost value delivered at the mill of all fuel used in this industry during 1923 is presented in Table 7. The cost exceeded that of 1922 by \$4,015 and consisted entirely of coal of the bituminous and anthracite classes.

Table 7. - Fuel Consumption by Classes, 1923.

Classes of fuel	Unit	Quantity	Cost value at mill
Bituminous coal, all grades	ton	2,606	21,640
Anthracite coal, all grades	"	2,199	16,119
TOTALS		4,805	37,759

MISCELLANEOUS EXPENSES

The total cost of miscellaneous or "overhead" expenses incurred during the year amounted to \$534,801 as compared with an outlay of \$676,896 in 1922. The items comprising these totals were rents of offices, works, machinery and power; taxes (provincial, municipal and federal), insurance, travelling and advertising expenses, telegraph, telephone, express and postal charges, officer furniture and supplies, repairs to buildings and machinery, bank interest and depreciation.

MATERIALS USED

The quantity and the cost value including freight and duty of the various materials used in the industry during 1923 are shown in table 8. There was an increase of \$409,979 in the cost of materials over the preceding year. Silk is the principal material and shows an increase in quantity used of 44,203 pounds and in cost value of \$314,794. Wools also showed an increase of 20,324 pounds in quantity and \$103,295 in cost value. Dyestuffs used increased in cost valuation by \$28,959.

Table 8.- Materials Used, 1923.

Classes of Materials	Unit of Measure	Quantity	Cost value at Works
Silk, raw	lb.	201,171	1,611,094
Silk, artificial	lb.	136,402	289,929
Silk, other, not specified	lb.	53,416	203,329
Worsted yarns	lb.	3,428	4,418
Knitting wools	lb.	171,505	292,292
Cotton yarns	lb.	215,600	117,683
Embroidery cotton	lb.	19,391	13,349
Dyestuffs	ton	235	43,483
Soap and oil	-	-	7,682
Labels and containers	-	-	7,662
All other materials	-	-	86,308
Total cost of Materials	-	-	2,677,229

THE SILK INDUSTRY IN CANADA, 1923

Imports and Exports of Silk and Silk Goods, 1923.

The quantity and value of silk and silk goods imported into Canada for consumption during the calendar year 1923 is shown by principal countries in Table 9 and 9(a). The total value of imports for the year amounted to \$24,311,712 of which \$2,732,404 represented the cost of raw materials, \$2,900,852 partly manufactured goods and \$18,678,456 wholly manufactured goods. Of the total value of imports \$4,455,262 came from the United Kingdom, \$7,943,249 from the United States and \$11,913,201 from other countries, the principal of which were Japan, Switzerland and France.

Table 9.- Imports of Silk and Silk Goods by principal countries for the Calendar year 1923.

Articles	Unit	From United Kingdom		From United States		From Other countries		Total Imports	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Raw Materials:-									
Silk, raw or as reeled from cocoon not manufactured in any way	lb.	10	91	330,895	2,720,443	806	7,115	331,711	2,727,649
Silk cocoons or silk waste	-	-	-	-	4,755	-	-	-	4,755
Partly Manufactured:-									
Silk in the gum or spun for the mfr. of ribbons and shoe laces	lb.	-	-	87	1,367	-	-	87	1,367
Silk in the gum or spun for the mfr. of underwear, labels and thread	lb.	11,630	51,124	16,745	92,111	3,934	13,450	32,309	156,685
Silk spun, not coloured, n.o.p. etc.	lb.	11,350	32,038	1,340	9,445	155	893	12,845	42,376
Sewing and embroidery silk, silk twist and floss	-	-	97,756	-	68,836	-	2,769	-	169,361
Wholly Manufactured:-									
Bolting cloth, not made up	-	-	1,695	-	46,666	-	377	-	48,738
Handkerchiefs, silk	-	-	28,943	-	2,519	-	76,851	-	108,313
Ribbons of all kinds and materials	-	-	152,573	-	554,146	-	810,320	-	1,517,039
Silk cloth woven in the gum, not boiled or bleached, etc.	-	-	1,601	-	147	-	471,741	-	473,489
Silk fabrics of which silk is the chief component material for the mfr. of neckties	-	-	31,776	-	309,945	-	236,183	-	577,904
Silk fabrics, n.o.p.	-	-	1,102,002	-	1,872,578	-	8,451,796	-	11,425,376

THE SILK INDUSTRY IN CANADA, 1923

Imports and Exports of Silk and Silk Goods, 1923 (contd).

5.

Table 9.- Imports of Silk and Silk Goods by principal countries for the calendar year 1923. (contd)

Articles	Unit	From United Kingdom		From United States		From Other countries		Total Imports	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Wholly Manufactured:- (contd)									
Velvets	yd.	532,554	1,002,775	86,771	252,768	522,784	725,707	1,142,109	1,981,050
Blouses and shirt waists, silk	-	-	4,356	-	53,176	-	68,936	-	126,468
Shawls, silk	-	-	2,261	-	1,254	-	5,084	-	8,599
shirts, silk	doz.	142	6,687	235	6,126	424	13,182	801	25,995
Socks and stockings, silk	doz. pr.	5,311	57,910	34,422	390,669	433	4,630	40,166	453,209
Undershirts and drawers	-	-	5,618	-	2,254	-	3,191	-	11,063
Clothing, silk, n.e.p.	-	-	201,040	-	1,082,457	-	436,646	-	1,720,143
Silk and all mfrs. of silk, n.e.p. of which silk is the component part of chief value	-	-	58,564	-	92,484	-	39,382	-	190,530
Total value of Imports	-	-	2,837,910	-	7,564,146	-	11,368,053	-	21,770,109

Imports and Exports of Silk and Silk Goods in Canada. 1923 (contd.)

Table 9(a) gives separate statistics of the artificial silk imports by classes and countries for the calendar year 1923. The total value of such imports was \$2,541,603 of which the United Kingdom supplied \$1,617,352, the United States \$379,103 and other countries \$545,148.

Table 9(a).- Imports of Artificial Silk by countries for the calendar year 1923.

Article	Unit	From United Kingdom		From United States		From Other countries		Total Imports	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Partly Manufactured:-									
Yarn, thread and filaments of artificial and imitation silk produced from cellulose for the manufacture of knitted, woven or braided fabrics	lb.	733,876	1,439,479	143,894	273,262	222,460	460,831	1,100,230	2,173,572
Artificial silk tops and waste	lb.	6,866	5,840	43,138	32,878	18,894	14,127	68,898	52,845
Artificial silk yarns, threads or twists, n.o.p.	lb.	13,567	29,327	7,955	22,641	10,446	25,575	31,968	77,543
Artificial silk fabrics or artificial fibre silk fabrics, n.o.p.	-	-	135,708	-	48,208	-	43,187	-	227,103
Manufactures of artificial silk or of artificial fibre silk, n.o.p.	-	-	6,998	-	2,114	-	1,428	-	10,540
Total Imports of artificial silk or of artificial fibre silk	-	-	1,617,352	-	379,103	-	545,148	-	2,541,603

The exports of silk goods and manufactures of silk goods, the produce of Canadian factories is shown according to value by countries in Table 10, for the calendar year 1923.

Table 10.- Exports of Silk and its manufactures.

Articles	United Kingdom	United States	Br. Dominions	Br. Possessions	Other Countries	Total Exports
	Value \$	Value \$	Value \$	Value \$	Value \$	Value \$
Silk and manufactures of	238,943	8,285	322,995	43,239	5,701	619,163

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