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REPORT
on the
COTTON TEXTILE INDUSTRY
in
CANADA
1922

INCLUDING -

1. COTTON YARN AND CLOTH
2. COTTON THREAD
3. COTTON BATTING AND WADDING
4. COTTON AND WOOL WASTE

+ + +

Published by Authority of the Hon. Thos. A. Low, M. P.

Minister of Trade and Commerce.

+ + +

OTTAWA

1924

206-48

DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA, CANADA.

Dominion Statistician: R. H. Coats, B.A., F.S.S., F.R.S.C.
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THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.

Ottawa, April, 1924.- The Dominion Bureau of Statistics herewith presents a report on the Cotton Textile industry in Canada for the calendar year 1922. The report is made up in four sections each dealing with a separate phase of the industry, as follows:-

1. Cotton Yarns and Cloth.
2. Cotton Thread.
3. Cotton Batting and Wadding.
4. Cotton and Wool Waste.

The subjoined table shows the location and number of mills or factories in the Dominion and the provinces for each section of the industry:-

Province	Cotton Yarn & Cloth	Cotton Thread	Cotton Batting	Cotton & Wool Waste
	No.	No.	No.	No.
CANADA	33	7	3	6
Quebec	16	2	1	4
Ontario	13	5	2	2
New Brunswick ...	3	-	-	-
Nova Scotia	1	-	-	-

PRINCIPAL STATISTICS

A table summarizing the principal statistics for each section of the industry is appended. Statistics of production in 1922 show a considerable advance over 1921 in each section except Cotton and Wool Waste. The increase in Cotton Yarn and Cloth mills was \$6,196,132, in Cotton Thread mills \$993,645, in Cotton Batting factories \$62,435, whilst Cotton and Wool Waste factories show a decrease of \$73,510.

Capital investment also shows an increase in the aggregate for the four sections of \$10,159,832, when compared with 1921. Mills manufacturing cotton cloths, yarns, etc. alone contributed \$10,152,551 of the above total.

The number of persons employed in the entire cotton textile industry rose from 15,823 in 1921 to 19,941 in 1922, an increase of 26 per cent, whilst salaries and wages rose from \$12,142,394 in 1921 to \$14,635,249 in 1922 or 20.5 per cent.

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.

PRINCIPAL STATISTICS

Fuel charges in the whole industry show a reduction of \$304,384, notwithstanding a considerable increase in the quantity of coal purchased in 1922 of 30,000 tons.

Miscellaneous expenses on the contrary show an increase over 1921 of \$1,622,421 for the entire industry. Almost all of the increase will be found in the Cloth and Yarn mills.

The cost of the raw and partly manufactured materials used in the Cotton Textile group of industries in 1922 was \$37,862,271, as compared with \$38,454,876 in 1921, a decrease of \$592,545. Nearly all the items of materials show decreases in the average price as between 1921 and 1922.

PRINCIPAL STATISTICS BY INDUSTRIES

		Cotton Yarn % Cloth	Cotton Thread	Cotton Batting	Cotton and Wool Waste
Establishments	No.	33	7	3	6
Capital investment	\$	76,099,980	3,342,060	690,823	872,703
Employees on Salaries -					
Male	No.	416	57	2	11
Female	No.	92	25	3	3
Salaries	\$	1,234,857	151,329	35,855	39,789
Employees on Wages -					
Male	No.	10,149	148	63	73
Female	No.	3,355	511	3	15
Wages	\$	12,529,766	514,747	62,521	66,385
Cost of Fuel	\$	1,151,053	18,198	8,897	4,737
Power employed -					
Units	No.	2,071	209	15	24
Capacity	H.P.	69,481	2,163	370	572
Miscellaneous Expenses..	\$	9,402,474	389,702	75,290	116,741
Cost of Materials	\$	34,694,760	2,011,236	254,609	901,666
Value of Products	\$	72,174,728	4,357,341	515,247	1,331,562
Value added by Manufacture	\$	37,479,968	2,346,105	260,638	429,896

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.

SECTION I: COTTON YARNS AND CLOTH

The number of mills reporting to the Bureau in this section during 1922 was 33, of which 16 were located in the Province of Quebec, 13 in Ontario, 3 in New Brunswick and one in Nova Scotia. The statistical information in the last named province is included with that of New Brunswick to prevent disclosure of statistics of an individual establishment.

PRODUCTION

The statistics of production are presented in Table 1 of this section for the Dominion and the provinces with the exception that Nova Scotia has been included with New Brunswick under the title of "Maritime Provinces" for the reason already assigned. The value of production in 1922 amounted to \$72,174,728, of which total the Province of Quebec contributed \$51,646,981, the Province of Ontario \$13,433,225 and the Maritime provinces \$7,094,522.

The principal products of the mills were in order of value, cotton fabrics, bleached or white \$17,315,347; cotton fabrics, unbleached or grey \$16,232,654; cotton fabrics, printed, dyed or coloured, including prints, denims, ducks and drills, flannelette, ginghams and cheesecloth \$13,660,865; grey yarn \$8,277,048; all other manufactures of cotton fabrics \$6,317,758; oilcloths and floor coverings \$5,788,771, and all other sundry products of the industry \$4,582,285.

The production by quantities also shows increases: cotton fabrics, bleached or white rose from 72,337,965 yards in 1921 to 116,362,057 yards in 1922; cotton fabrics, printed, dyed and coloured, from 51,646,006 yards in 1921 to 68,697,252 yards in 1922, and grey cotton yarns from 16,697,034 pounds to 19,834,401 pounds. One principal item, that of cotton fabrics unbleached or grey, shows a decrease from the previous year, having fallen from 99,539,829 yards in 1921 to 92,053,489 in 1922.

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922 - SECTION I: COTTON YARNS AND CLOTH.

Table 1.- Production of Cotton Yarns and Cloth by Provinces, 1922.

Unit	CANADA		Ontario		Quebec		Maritime Provinces	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Yarn, grey ... lb.	19,834,401	8,277,048	4,229,940	1,769,040	15,100,663	6,303,016	503,798	204,992
Yarn, bleached and dyed : "	1,391,541	645,812	340,078	156,565	1,051,463	480,247	-	-
Cotton fabrics, bleached : sq.yd.	116,363,057	17,315,347	8,213,130	1,529,034	106,149,927	15,780,313	-	-
Cotton fabrics, unbleached : "	92,053,489	16,232,654	14,002,536	1,606,471	75,060,936	13,354,644	2,983,017	1,271,539
Cotton fabrics, printed, dyed or colored:-								
Prints	"	38,709,478	6,507,850	-	38,709,478	6,507,850	-	-
Denims	"	5,982,890	1,900,934	4,236,869	1,382,506	-	1,746,021	518,428
Ducks and drills	"	7,360,568	1,941,877	7,360,568	1,941,877	-	7,292,816	1,374,729
Flannelettes	"	7,292,816	1,374,729	-	-	-	9,253,500	1,927,635
Gingham	"	9,253,500	1,927,635	-	-	-	-	-
Cheesecloth	"	98,000	7,840	98,000	7,840	-	-	-
All other manufactures not enumerated above ...	-	6,317,758	-	4,318,374	-	322,633	-	1,676,751
Cotton waste sold ... lb.	9,291,052	363,368	3,254,478	100,514	4,700,762	176,274	1,335,812	86,530
Cotton oil cloth ... L.yd.	3,131,760	1,086,420	-	-	3,131,760	1,086,420	-	-
Floor covering ... sq.yd.	1,138,063	799,787	-	-	1,138,063	799,787	-	-
Saturated felt ... ton	283	19,810	-	-	283	19,180	-	-
Saturated floor coverings sq.yd.	7,494,979	3,882,754	-	-	7,494,979	3,882,754	-	-
Curtains and tapestry ... yd.	710,094	507,278	132,612	175,114	577,482	332,164	-	-
Tire fabrics ... lb.	2,300,278	1,760,619	-	-	2,300,278	1,760,619	-	-
Arrow fabrics, tapes, etc. lb.	32,621	38,941	-	-	32,621	38,941	-	-
Blankets ... pr.	373,416	697,913	-	-	373,416	697,913	-	-
Tapestry curtains ... pr.	8,095	20,312	8,006	20,312	-	-	-	-
Kimono cloth ... yd.	52,639	78,958	52,639	78,958	-	-	-	-
Towels ... doz.	18,673	149,339	18,673	149,339	-	-	-	-
Hammocks ... doz.	3,529	102,529	3,529	102,529	-	-	-	-
Twine ... lb.	153,426	48,861	40,532	14,993	-	-	112,894	33,863
All other misc. products	-	34,769	-	34,769	-	-	-	-
Amount received for custom dyeing and bleaching ...	-	44,940	-	44,940	-	-	-	-
Amount received for custom spinning and weaving ...	-	88,596	-	-	-	88,596	-	-
TOTAL VALUE		72,174,728		13,433,225		51,646,981		7,094,522

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922SECTION I: COTTON YARNS AND CLOTHCAPITAL INVESTMENT

The capital investment in the cotton yarn and cloth section for 1922 is shown in Table 2 by provinces. Fixed capital in the Dominion, as represented by the first two items of the table amounted to \$49,301,834 and working capital, represented by the remaining two items to \$26,798,146. The percentage of capital invested by provinces in order were Quebec 67.7 per cent, Ontario 21.8 per cent and the Maritime provinces 10.4 per cent.

Table 2.- Capital Investment in the Cotton Yarn and Cloth Industry by Provinces, 1922.

Items of Capital	CANADA	Ontario	Quebec	Maritime Provinces
Land, buildings, fixtures	\$ 19,630,522	\$ 4,189,455	\$ 14,341,067	\$ 1,100,000
Machinery and tools ...	29,671,312	6,648,928	19,473,398	3,548,986
Materials on hand, stocks in process, etc.....	11,920,946	3,509,183	6,365,600	2,045,163
Cash, trading and operating accounts, etc.....	14,877,200	2,235,881	11,375,908	1,265,411
TOTAL	76,099,980	16,583,447	51,556,973	7,959,560

EMPLOYEES, SALARIES AND WAGES

Employment statistics are presented for this section in Table 3 according to (a) the number of persons employed by classes and sex and (b) the remuneration paid to each class for services and labour. The total number at employment in the Cotton Yarn and Cloth mills in 1922 was 19,012 of whom 10,565 were males and 8,447 females. Again, of this number, salaried employees numbered 508, of whom the males numbered 416 and the females 92. Workers on wages were 18,504 in number, of whom 10,149 were males and 8,355 females. Salaries totalled \$1,234,857 and wages \$12,529,766.

Table 3.- Employment Statistics in Cotton Yarn and Cloth section, 1922

Classes of Employment	Male	Female	Salaries and Wages
Salaried officers of corporations ...	47	2	\$ 306,091
General superintendents, managers, etc.	60	-	302,187
Technical experts, engineers, accountants	29	-	68,077
Clerks, stenographers, salesmen, etc.....	280	90	558,502
Employees on wages, average number	10,149	8,355	12,529,766
TOTAL	10,565	8,447	13,764,623

OTHER LABOUR STATISTICS

Statistics of working time for the Cotton Yarn and Cloth industry is shown in Table 4 for the Dominion. Operating time is given under three heads, full time, part time and idle. The working time of employees is shown by the number of hours worked per day or shift and per week. A column is added showing the averages per plant of operating time in plants and the working hours per employee.

Table 4.- Working Time of Plants and Employees, 1922.

Number of operating plants	33	
Days in operation -	Totals	Averages per plant
On full time	9,455	286.51
On part time	314	9.51
Idle	253	7.97
Hours worked by employees -		
Per day or shift	316	9.58
Per week	1,745	52.88

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION I: COTTON YARN AND CLOTHMILL EQUIPMENT

The equipment in mills making yarn and cloth as a principal product is given in detail in Table 5. The number of operating spindles, mule and frame, increased over 1921 by 81,059, and the number of looms of all widths increased by 2,185 during the same period.

Table 5.- Mill Equipment, 1922.

Description of Equipment	Mule No.	Frame No.	Number
Set of cards	694	2,214	-
Spindles in operation during year	292,083	828,465	-
Spindles idle during year	20,881	39,310	-
Twisting and doubling spindles ..	480	59,955	-
Looms less than 28 inches wide	313,344	9,277,730	266
Looms from 28 to 32 inches wide	921,735	.....	1,192
Looms from 32 to 36 inches wide	12,910,74	.....	4,940
Looms more than 36 inches wide .....	.....	.....	17,446 <i>24,258</i>
Looms, any other .....	.....	.....	314
Dye houses .....	.....	.....	14
Printing machines .....	.....	.....	15
Bleach houses .....	.....	.....	1
Braiders .....	.....	.....	462
Rope layers .....	.....	.....	8
All other equipment .....	.....	.....	2

FUEL CONSUMPTION

The quantity and cost delivered at the works of the classes of fuel consumed in this section of the industry is shown in Table 6. Nearly 98.5 per cent of the fuel used during the year was coal of all kinds, the cost amounting to \$1,133,578 in a total for all fuel of \$1,151,053.

Table 6.- Fuel Consumption in the Cotton Yarn and Cloth Industry

Classes of Fuel	Unit of Measure	Quantity	Cost Value
Bituminous coal	ton	149,410	\$ 1,123,888
Anthracite coal	"	630	4,690
Coke	"	372	3,146
Gasoline	Gal.	23,384	7,770
Oil (fuel)	"	41,506	4,317
Gas	m.c.ft.	2,257	2,242
TOTAL COST VALUE OF FUEL			\$ 1,151,053

POWER INSTALLATION

The classes of power installed in this section of the industry are indicated in Table 7, according to the number of units in each class and the horsepower as rated by the manufacturers. Electric motors provided 47,839 horsepower of the total power installed, steam being next in order with 11,497 horsepower, and hydraulic turbines or water wheels with 10,120 horsepower.

Table 7.- Power Installation in the Cotton Mill Industry, 1922.

Classes of power	Units No.	Horsepower Capacity
Steam engines and turbines	58	11,497
Gas engines	1	25
Hydraulic turbines or water wheels	19	10,120
Electric motors -		
Operated by power generated at factory	865	19,043
Operated by purchased power	1,128	28,796
TOTAL	2,071	69,481

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.

SECTION I: COTTON YARN AND CLOTH

MATERIALS USED

The classes of materials used in this section of the Cotton Textile industry are itemized so far as circumstances and information will permit by quantity and cost value delivered at the factory or works, and also by provinces in Table 8. The total cost of all materials for the year amounted to \$34,694,760. Raw materials cost \$21,233,024 or 61.2 per cent and manufactured materials \$13,461,736 or 38.8 per cent. The average price of raw cotton fell from 31.22 cents per pound in 1921 to 21.98 cents in 1922; of cotton dyed, bleached or otherwise treated from 91.2 cents in 1921 to 55.7 cents in 1922, and cotton yarns from 53.6 cents in 1921 to 45.5 cents per pound in 1922.

Table 8.—Cost of Raw and Partly Manufactured Materials, 1922.

Materials Used	Unit	CANADA		Ontario		Quebec		Maritime Provinces	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Cotton raw	lb.	26,594,749	21,233,024	25,694,218	5,666,731	59,557,297	12,806,707	11,343,234	2,759,586
Cotton dyed, bleached or otherwise treated, not made in plant	"	14,565,927	8,112,575	-	-	14,565,927	8,112,575	-	-
Yarns not made at factory -									
Cotton	"	1,773,652	806,548	668,171	336,057	1,073,469	451,331	32,012	19,160
Silk	"	5,230	13,251	5,230	13,251	-	-	-	-
Other	"	90,207	73,809	90,207	73,809	-	-	-	-
Cotton waste not made in plant	"	2,745,327	338,961	1,914,245	242,539	407,142	45,156	424,440	51,266
Other fibres	"	319	205	-	-	319	205	-	-
Starch	"	5,549,540	285,597	927,201	47,780	3,965,714	197,821	656,625	39,926
Chemicals and dyestuffs									
Mixing compound	lb.	62,834	6,262	-	-	62,834	6,562	-	-
Zinc oxide	"	158,681	12,721	-	-	158,681	12,721	-	-
Jute cloth	sq.yd.	7,436,387	693,910	-	-	7,436,387	693,910	-	-
Saturated felt covering	lb.	292,344	7,348	-	-	292,344	7,348	-	-
Grey cotton	yd.	3,124,723	459,700	-	-	3,124,723	459,700	-	-
Linseed oil	gal.	787,881	636,898	-	-	787,881	666,898	-	-
Benzine	"	85,443	24,862	-	-	85,443	24,862	-	-
Mixed saturant	lb.	1,783,534	18,720	-	-	1,783,534	18,720	-	-
Dry felt	"	1,480,919	65,093	-	-	1,480,919	65,093	-	-
Naptha	"	243,406	9,500	-	-	243,406	9,500	-	-
Chinawood oil	"	69,268	10,439	-	-	69,268	10,439	-	-
Fish oil	"	46,703	4,468	-	-	46,703	4,468	-	-
Chipboard and wrapper	"	344,907	8,712	-	-	344,907	8,712	-	-
All other materials	-	-	831,522	-	1,963	-	829,754	-	-
TOTAL			34,694,760		6,557,610		25,145,367		2,991,783

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.

SECTION I: COTTON YARN AND CLOTH

IMPORTS

Table 9 reviews the statistics of imports by classified commodities for the United Kingdom, the United States and other countries by quantities and values whenever the Customs classification permits. The total imports were valued at \$62,127,854. Imports from the United Kingdom were valued at \$17,121,281, or 27.6 per cent of the total import value, those from the United States at \$41,622,127 or nearly 67 per cent and from other countries at \$3,384,446 or 5.4 per cent. A summary of imports on the commodity basis according to value, follows:-

Classification of Commodities	From United Kingdom	From United States	From Other Countries	TOTAL
Raw materials	\$ 10,545	22,444,734	44,635	22,499,914
Partly manufactured	2,163,007	2,664,062	102,157	4,930,126
Manufactured goods	14,943,829	15,513,331	3,237,654	34,697,814
TOTALS	17,121,281	41,622,127	3,384,446	62,127,854

On the classified commodity basis, raw materials totalled \$22,499,914 or 36.2 per cent of the total value of products. Goods in a partly manufactured condition \$4,930,126 or approximately 8 per cent, and manufactured goods \$34,697,814 or 55.8 per cent.

Table 9.- Imports for Consumption of Cottons and its products by specified countries for the calendar year 1922.

Articles Imported	Unit	United Kingdom		United States		Other Countries	
		Quantity	Value	Quantity	Value	Quantity	Value
<u>Raw Materials -</u>							
Cotton, raw	lb.	57,116	\$ 10,545	110,691,319	22,444,734	147,364	44,635
<u>Partly Manufactured Materials -</u>							
Yarns No. 40 and finer	"	1,367,762	1,209,182	1,553,653	1,506,632	3,345	6,948
Yarns for manufacture of shoe laces ..	"	25,658	16,676	183,977	92,335	-	-
Yarns, knitting, hosiery and other ..	"	235,010	108,735	420,449	201,192	5,364	6,654
Thread, cotton in hanks	"	624,499	621,651	241,048	242,300	-	-
Crochet and knitting cotton	"	46,791	94,263	178,233	193,523	41,770	84,480
Cotton thread, other	"	46,697	68,221	212,489	266,651	1,485	2,212
Cotton thread, sewing on spools	"	-	45,149	-	160,082	-	1,863
Cotton warps	"	-	-	-	1,337	-	-
<u>Manufactured Goods -</u>							
Fabrics, yarn or piece dyed	yd.	17,743,551	4,705,825	22,736,962	4,555,910	1,338,520	599,587
Fabrics, printed, n.o.p.	"	8,582,122	1,763,972	7,381,128	1,432,456	120,207	60,642
Grey or unbleached cotton fabrics	"	3,332,592	454,519	8,123,823	803,959	10,084	4,146
White or bleached cotton fabrics	"	3,466,270	713,166	7,625,488	1,129,736	465,045	144,429
Voiles, scrims, lawns, muslins, etc....	"	2,048,112	273,353	1,619,059	227,645	170,964	55,831

Table 9--Continued. Imports for Consumption of Cottons and its Products by specified countries,
calendar year 1922.

Articles Imported	Unit	United Kingdom		United States		Other Countries	
		Quantity	Value	Quantity	Value	Quantity	Value
Manufactured Goods - (continued)			\$		\$		\$
Jeans, coutils, sateens for mfr. of corsets	yd.	191,053	50,144	379,509	122,658	1,543	981
Plain shirtings, cambrics, nainsocks, etc..	"	1,728,719	299,400	872,620	166,754	2,076	560
Duck, grey or white, weighing over 8 ounces per yard	"	210,337	217,480	1,464,567	1,284,724	377	354
Canton flannels, suitings, etc.....	"	1,485,546	238,269	1,150,339	132,805	2,798	622
Babinette	"	189,046	37,250	8,892	1,303	-	-
Bookbinders' cloth	"	-	71,264	-	150,958	-	-
Duck, cotton or linen for mfr. of hose pipe	"	-	-	-	125,710	-	-
Bags made by use of needle	"	-	17,927	-	194,620	-	261
Bags, seamless	"	-	83	-	22,910	-	-
Bed quilts or spreads	"	-	396,484	-	143,992	-	5,961
Pelting of cotton	"	-	21,817	-	51,828	-	-
Blankets	"	-	4,786	-	145,295	-	122
Panack of cotton, in the piece ;.....	"	-	398,412	-	75,559	-	118,538
Lamp-wicks	"	-	7,211	-	31,546	-	203
Sheet and pillow cases of cotton	"	-	227,008	-	15,208	-	1,588
Tape of cotton not over 1 $\frac{1}{4}$ inches wide ..	"	-	104,337	-	136,895	-	332
Tape not coloured or dyed	"	-	6,652	-	40,962	-	717
Tape dyed or coloured	"	-	2,919	-	22,303	-	1,127
Towelling in the web	yd.	2,552,182	337,455	362,665	34,614	2,564	226
Towels, cotton	"	-	520,217	-	326,179	-	4,018
Velvets, velveteens and plush fabrics ...	yd.	727,108	454,881	424,031	373,757	203,604	182,995
Embroideries, white or cream coloured ..	"	-	41,557	-	28,455	-	465,020
Embroideries, n.o.p.	"	-	20,706	-	42,463	-	166,567
Lace, white or cream coloured	"	-	571,339	-	210,203	-	429,726
Lace, n.o.p., lace collars, etc.....	"	-	1,186,274	-	548,563	-	473,996
Blousons and shirtwaists, cotton	"	-	4,156	-	143,780	-	5,727
Shawls, cotton	"	-	9,005	-	318	-	1,513
Shirts, cotton	doz.	7,609	96,610	14,088	168,839	122	1,342
Socks and stockings, cotton	doz.pr.	21,232	76,782	496,041	812,766	21,435	22,460
Undershirts and drawers, cotton	"	-	31,621	-	348,726	-	8,176
Clothing, cotton, n.o.p.	"	-	423,564	-	1,223,071	-	179,156
Cordage, cotton	lb.	264,853	79,314	92,877	44,570	944	708
Handkerchiefs, cotton	"	-	714,598	-	38,474	-	220,100
Stockinette for mfr. of rubber boots, etc.	"	-	13,636	-	179,738	-	-
All other manufactured of cotton	"	-	252,896	-	1,023,038	-	79,923
TOTAL VALUE OF IMPORTS			17,121,281		41,622,127		3,384,446

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION I: COTTON YARN AND CLOTHEXPORTS

Exports, the produce of Canadian factories are shown by principal countries and also by quantities and values of the various commodities in Table 10, the total value of such being \$833,878. The value of goods exported to the United Kingdom was 17.1 per cent, to the United States 18.3 per cent and to other countries 64.6 per cent.

Table 10.- Exports of Cotton Goods, the Produce of Canada, by Countries, 1922.

Articles exported	United Kingdom		United States		Other Countries		
	Quan.	Value	Quan.	Value	Quan.	Value	
Cotton waste	cwt.	-	-	4,550	45,245	112	834
Cotton duck	yd.	60,954	25,151	12,105	13,205	333,209	138,982
Cotton fabrics, n.o.p.	"	7,709	2,021	48,290	21,396	529,271	123,142
Cotton underwear	-	-	90,671	-	29	-	185,619
Cotton clothing, n.o.p.	-	-	740	-	1,439	-	56,786
Cotton manufactures of, n.o.p.....	-	-	23,789	-	71,273	-	33,542
TOTAL		142,375		152,592		538,911	

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION II: COTTON THREAD.

Section II presents statistics of the Cotton Thread industry for the calendar years 1921 and 1922. The number of factories increased from 4 in 1921 to 7 in 1922. Of the establishments reporting in 1922 5 were in Ontario and 2 in Quebec. A summary table showing the principal statistics comparatively for 1921 and 1922 follows:

Principal Statistics, 1921 and 1922.

	1921	1922
Establishments reporting No.	4	7
Capital investment \$	3,292,363	3,342,060
Employees on Salaries -		
Male No.	41	57
Female No.	23	25
Salaries \$	139,457	151,329
Employees on Wages -		
Male No.	128	148
Female No.	292	511
Wages \$	269,707	514,747
Cost of Fuel \$	15,110	18,198
Power Installation -		
Units No.	-	209
Capacity H.P.	-	2,163
Miscellaneous expenses \$	294,107	389,702
Cost of materials \$	2,024,110	2,011,236
Value of products \$	3,363,696	4,357,341
Value added by manufacture \$	1,639,586	2,346,105

PRODUCTION

The quantity and value of production in 1922 is shown in Table 1. Compared with 1921 the figures indicate an increase of \$993,645. Cotton and crochet threads were valued at \$3,729,452 and cotton yarns at \$499,000, and all other products at \$128,879.

Table 1.- Production in Cotton Thread Mills, 1922.

Products	Unit	Quan.	Selling value at factory
Cotton thread	gr. spools	348,732	2,587,235
Crochet thread	"	56,552	892,215
Cotton yarn	"	78,300	429,000
Sewing cotton (thread)	lb.	121,500	258,611
All other products			128,879
TOTAL			4,357,341

EMPLOYEES, SALARIES AND WAGES

Employment statistics are presented in Table 3 for the Cotton Thread section and show an employment of 741 persons in all classes. Salaried employees numbered 57 males and 25 females with total salaries of \$151,329, while employees on wages numbered 148 males and 511 females with total wages amounting to \$514,747. Compared with 1921 the increase in employment and in remuneration for services were general. The number of salaried employees in that year was 41 males and 23 females with salaries of \$139,457 and in wage earners the numbers were 128 males and 292 females with total wage of \$269,707.

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

Classes of Employment	Male No.	Female No.	Salaries and Wages
Salaried officers of corporations ..	7	1	31,100
General superintendents, managers, etc.	15	-	21,132
Technical experts, engineers, accountants	3	1	14,300
Clerks, stenographers, salesmen, etc..	26	23	54,797
Employees on wages (average number) ..	148	511	514,747
TOTAL	205	536	666,076

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922SECTION II: COTTON THREADOTHER LABOUR STATISTICS

The working time in plants and of employees in the Cotton Thread section are shown in Table 4. A column of averages for the operating time of plants and of the working hours of employees is included to complete the table.

Table 4.- Working Time in Cotton Thread Mills, 1922.

	Working hours of plants and employees	Averages per plant
Number of plants in operation	7	
Days in operation during the year -		
On full time	1,350	264.28
On part time	144	20.57
Idle	134	19.14
Hours worked by employees -		
Per day or shift	59	8.37
Per week	320	45.71

MATERIALS USED

Table 5 presents statistics of the cost of materials delivered at the works that were used in the year, the total amounting to \$2,011,236. Cotton yarns valued at \$1,635,462 was the principal material, being 81 per cent of the total. Containers and materials for their manufacture costing \$100,977, and all other materials amounting to \$183,926 were the other principal items of materials.

Table 5.- Materials Used in the Cotton Thread Industry, 1922.

	Unit	Quantity	Cost Value at Factory
Cotton yarn	-	-	\$ 1,635,462
Spoolwood	ft.	840,077	71,280
Chemicals	-	-	27,541
Strawboard	lb.	261,967	8,500
Cocoanut oil	"	1,326	371
Starch	"	6,659	533
Flour	"	2,365	139
Wooden spools and tubes	-	-	14,972
Yoyon belting	-	-	23,310
Cotton	-	-	250
Canvas lining	-	-	35,662
Paints, oils and varnishes	-	-	2,015
Containers, boxes, etc.....	-	-	6,227
All other materials	-	-	183,926
TOTAL			2,011,236

FUEL CONSUMPTION

The quantity and cost value at the factory of the classes of fuel consumed in the industry are shown in Table 6, the total cost amounting to \$13,198, as compared with \$15,011 in 1921. Cost of all kinds represented the largest item amounting to \$10,698 or 58.8 per cent of the total for all fuel.

Table 6.- Fuel Consumed in Cotton Thread Industry, 1922.

Classes of Fuel	Unit	Quantity	Cost Value
Bituminous coal	ton	201	\$ 1,624
Anthracite coal	"	38	681
Lignite coal	"	1,199	8,393
Wood	cd.	5	45
Gas	m.c.ft.	448	239
Other fuel	-	-	7,216
TOTAL COST OF FUEL			13,198

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION III: COTTON THREAD.POWER INSTALLATION.

The classes of power installed in the Cotton Thread mills are shown in Table 7, by (a) the number of units in each class and (b) the horsepower according to the rating of the manufacturers. Electric motors, owned and rented, supplied 1,573 of the total horsepower installed in the industry. The number of boilers installed is stated as 4 with a boiler capacity of 700 horsepower.

Table 7.- Power Installation in the Cotton Thread Industry, 1922.

Classes of Power	No. of Unit	Horsepower capacity
Steam engines and turbines	3	590
Electric motors -		
Operated by power generated at factory	1	1
Operated by purchased power	205	1,572
TOTAL	209	2,163

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION III: BATTING AND WADDING

The Batting and Wadding industry is presented in Section III, and covers the operation of three plants, two of which were in the Province of Ontario and one in Quebec. The principal statistics of the section are presented in the following table comparatively for the calendar years 1921 and 1922.

Principal Statistics of the Batting and Wadding Industry
1921 and 1922.

		1921	1922
Establishments reporting	No.	3	3
Capital investment	\$	694,703	690,823
Employees on salaries -			
Male	No.)	13	9
Female	No.)		
Salaries	\$	32,523	35,855
Employees on wages -			
Male	No.)	67	63
Female	No.)		
Wages	\$	63,446	62,521
Cost of fuel	\$	13,036	8,897
Power employed -			
Units	No.	-	15
Capacity	H.P.	-	370
Miscellaneous expenses	\$	73,069	75,990
Cost of materials	\$	212,536	254,609
Value of products	\$	452,512	515,247
Value added by manufacture	\$	240,276	260,638

PRODUCTION

The production of batting and wadding is presented in Table 1 and as the figures in the previous table indicate, there was an increase in value over 1921 of \$62,435. Cotton batting and wadding in batts, flocks or rolls to the value of \$409,365 was the main item of production, representing nearly 80 per cent of the total value.

Table 1.- Production in the Batting and Wadding Industry, 1922.

Products	Unit	Quantity	Value
Flocks	lb.	377,324	\$16,979
Gunny	"	43,377	3,386
Mattress felt	"	803,855	71,036
Batts	"	172,196	8,600
Auto batts	"	903,791	94,398
Spring cushions	sq.ft.	28,000	19,606
Cotton wadding and batting	lb.	1,293,629	288,879
Carpet lining	yd.	41,250	6,116
Mill waste	lb.	104,245	780
Stair pads	No.	11,370	542
Mattresses	No.	500	4,223
All other products	-	-	193
TOTAL			\$515,247

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION III: COTTON BATTING AND WADDINGCAPITAL INVESTMENT

The amount of capital investment in this section is shown by items in Table 2. Fixed capital (items 1 and 2) totalled \$421,612 or 61 per cent of the entire capital invested, whilst working capital (items 3 and 4) totalled \$269,211 or 39 per cent.

Table 2.- Capital Investment in Batting and Wadding Industry, 1922

Items of Capital	Value
	\$
Land, buildings and fixtures	320,214
Machinery and tools	101,398
Materials on hand, stocks in process, etc.	101,271
Cash, trading and operating accounts, etc.. ..	167,940
TOTAL	690,823

EMPLOYEES, SALARIES AND WAGES

Employment statistics for this section of the Cotton Textile industry are presented in Table 3 for the Dominion under the following heads: (a) classes of employment, (b) number employed in each class distinguished by sex and (c) the amounts paid in salaries and wages by classes of employment. The total number employed during the year was 83, as against 80 in the preceding year, whilst salaries and wages advanced from \$95,979 in 1921 to \$98,376 in 1922.

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

Classes of Employment	No. of Employees		Salaries & Wages
	Male	Female	
Salaried officers of corporations ...	4	1	\$ 23,500
General superintendents, managers, etc.	2	-	7,200
Clerks, stenographers, salesmen, etc...	3	2	5,155
Employees on wages, average number ..	63	8	62,521
TOTAL	72	11	98,376

MATERIALS USED

The quantity and cost value at the factory of the principal materials used in the industry are presented in Table 4. The total cost of all materials in 1922 was \$254,609 of which cotton raw and cotton waste, the principal item accounted for \$197,570 or nearly 78 per cent.

Table 4.- Materials Used in the Batting & Wadding Industry, 1922.

Materials	Unit	Quantity	Cost value at Works
Cotton cloth	yd.	30,000	\$ 3,290
Ticking	"	6,000	1,245
Cotton raw and cotton waste .	lb.	3,198,952	197,570
Jute hessians	"	38,139	5,583
Chemicals	"	76,791	3,231
Cotton rags	"	789,717	7,897
Thread	-	-	369
Burlap	yd.	77,502	5,425
Jute	lb.	24,000	598
Felt	"	40,000	5,000
Wire	"	30,000	1,698
Canvas	yd.	6,000	200
Containers, boxes, etc.....	-	-	18,003
All other materials, etc.....	-	-	4,500
TOTAL			254,609

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION III: COTTON BATTING AND WADDINGFUEL CONSUMPTION

Fuel consumption in this section is shown in Table 5 and consisted of the single item of bituminous coal, of which 1,042 tons costing \$8,897 were consumed during the year.

Table 5.- Fuel Consumption in Batting & Wadding Industry, 1922.

Classes of fuel	Unit	Quan.	Cost value at mill \$
Bituminous coal	ton	1,042	8,897

POWER INSTALLATION

Power installation forms Table 6 of this section. The only power reported to the Bureau in 1922 was electric motors, of which 15 units represented a rating of 370 horsepower.

Table 6.- Power Installation in Batting & Wadding Industry, 1922.

Classes of Power	Units No.	H. P. Capacity
Electric motors operated by purchased power	15	370

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION IV: COTTON AND WOOL WASTE

Section IV of this report deals with the Cotton and Wool waste industry in Canada. The number of reporting firms fell from 8 in 1921 to 6 in 1922, of which four were located in the Province of Quebec and two in Ontario.

PRINCIPAL STATISTICS

A summary of the principal statistics of this section is shown in the accompanying table for the calendar years 1921 and 1922. Owing to the reduction in the number of plants reporting, as stated above, there is a small decrease in the various statistical items of the tables.

Principal Statistics, 1921 and 1922.

		1921	1922
Establishments	No.	8	6
Capital investment	\$	911,239	872,703
Employees on salaries -			
Male	No.	13	11
Female	No.	7	6
Salaries	\$	37,577	39,789
Employees on Wages (Av.No.) -			
Male	No.	83	73
Female	No.	18	15
Wages	\$	89,437	66,385
Cost of fuel	\$	4,002	4,737
Power employed -			
Units	No.	16	24
Capacity	H.P.	317	572
Miscellaneous expenses	\$	169,728	116,741
Cost of materials	\$	1,060,937	901,666
Value of products	\$	1,405,072	1,331,562
Value added by manufacture ..	\$	344,135	429,896

PRODUCTION

The statistics of production in this section for 1922 are presented in Table 1 by quantities and values for the principal products. There were 2,688,012 pounds of cotton waste reported of the value of \$379,800, of wool waste 1,069,072 pounds valued at \$203,366 and of wiping waste 2,559,415 pounds valued at \$366,088. These three items totalled \$949,254, or upwards of 70 per cent of the total value of all products.

Table 1.- Production on Cotton & Wool Waste Industry, 1922.

Products	Unit	Quantity	Value
Cotton waste	lb.	2,688,012	\$379,800
Wool waste	"	1,069,072	203,366
Waste and wipers	"	389,965	58,495
Machine waste	"	124,422	15,599
Oakum	"	5,505	304
Wiping waste and mattress materials	"	705,492	130,888
Cotton and wool stock, mixed	"	320,000	46,455
Wiping waste	"	1,782,313	249,523
Packing waste	"	512,375	81,980
Wipers	"	387,137	58,070
Willowed waste	"	150,400	9,024
All other products	-	-	83,232
Amount received for custom work ..	-	-	14,826
TOTAL			1,331,562

THE COTTON TEXTILE INDUSTRY IN CANADA, 1922.SECTION IV: COTTON AND WOOL WASTECAPITAL INVESTMENT

The amount of capital invested in the Cotton and Wool waste section is shown by items in Table 2. Fixed capital (items 1 and 2) of the table amounted to \$330,180 and working capital, comprising the remaining items, to \$542,523. Owing to the decrease in the number of plants reporting, as previously stated, the total capital investment shows a falling off in 1922 of \$38,936, when compared with 1921.

Table 2.- Capital Investment in Cotton & Wool Waste Industry, 1922

Items of Capital	Value
Land, buildings and fixtures	196,368
Machinery and tools	133,812
Materials on hand, stocks in process, etc... .	208,595
Cash, trading and operating accounts, etc.. .	333,928
TOTAL	\$872,703

EMPLOYEES, SALARIES AND WAGES

Employment statistics for this section are shown in Table 3, by classes of employees according to sex and number, and by the amounts paid to each class for salaries and wages. The number of employees decreased from 126 in 1921 to 105 in 1922 and the salaries and wages during that period by \$24,840.

Table 3.- Employees, Salaries and Wages in the Cotton & Wool Waste Industry, 1922.

Classes of Employment	No. of Employees		Salaries and Wages
	Male	Female	
Salaried officers of corporations	5	1	\$ 25,950
General superintendents, managers, etc... .	2	-	5,000
Technical experts, engineers, accountants	-	1	500
Clerks, stenographers, salesmen, etc.....	4	4	8,339
Employees on wages, average number	73	15	66,385
TOTAL	84	21	106,174

OTHER LABOUR STATISTICS

The statistics of working time of plants and employees are shown in Table 4, according to (a) the number of operating plants, (b) the time plants operated during the year, whether on full time, part time or idle, and (c) the hours worked by employees per day or shift and per week.

Table 4.- Working Time of Plants and Employees, 1922.

Number of plants reporting	6	
Days plants were in operation -	Totals for plant	Averages per plant
On full time	1,820	303.34
On part time	-	-
Idle	4	.66
Hours worked by employees -		
Per day or shift	57	9.5
Per week	323	55.5

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