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REPORT

on the

FLOUR MILLING INDUSTRY

in

CANADA

1922

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

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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA

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THE FLOUR MILLING INDUSTRY IN CANADA

1922.

Ottawa, February, 1924.- The Dominion Bureau of Statistics presents a report on the Flour Milling industry in Canada for the calendar year 1922. The report indicates a further decrease of \$23,811,734 in the value of production of wheat flour, though the quantity of flour manufactured showed a large increase amounting to 2,466,170 barrels of 196 pounds. A summary of the wheat milled and flour produced since 1919 is presented in the accompanying table:-

Year	Wheat milled			Flour Production		
	Quantity	Cost Value at Mill	Average cost per bush.	Quantity	Selling Value at Mill	Average per bbl.
	bush.	\$	\$ ¢	bbl.	\$	\$ ¢
1919	78,591,648	178,900,649	2.28	17,842,833	185,982,307	10.42
1920	61,116,380	151,094,018	2.47	13,127,320	153,117,662	11.66
1921	70,005,373	129,312,439	1.84	15,321,759	136,257,235	8.89
1922	81,413,049	102,803,200	1.26	17,787,929	112,445,551	6.32

From a reference to the above table it will be seen that the average price of wheat dropped from \$1.84 in 1921 to \$1.26 in 1922, a decrease of 31.5 per cent. Flour also dropped from an average of \$8.89 per barrel in 1921 to \$6.32 in 1922, or 28.9 per cent.

PRINCIPAL STATISTICS

THE following table presents the principal statistics of the industry by provinces for the calendar year 1922. The net value of production, or the value added by manufacture is also shown for each of the provinces and the Dominion.

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRINCIPAL STATISTICS BY PROVINCES

Statistics	Unit	CANADA	British Columbia	Alberta	Saskatchewan	Manitoba
Mills reporting	No.	¹³³² 1,364	⁵ 7	⁵³ 53	⁴⁴ 54	⁴⁴ 39
Capital	\$	68,453,886	1,479,971	6,590,267	3,805,734	7,241,415
Employees on salaries	No.	1,420	76	231	267	157
Salaries paid	\$	2,476,399	110,398	354,300	434,430	282,528
Employees on wages	No.	5,337	86	429	378	506
Wages paid	\$	5,013,470	99,702	473,916	424,553	530,401
Cost of fuel	\$	687,709	6,432	66,789	162,771	115,433
Miscellaneous expenses	\$	9,151,747	194,367	1,304,409	1,185,953	1,015,399
Cost of materials*	\$	136,687,078	1,271,941	9,826,930	9,637,787	13,879,206
Gross value of products	\$	166,881,455	1,770,285	12,677,672	12,353,720	16,038,446
Net value of products	\$	30,194,377	498,344	2,850,742	2,720,933	2,159,240

1921.

MILLS REPORTING

COST OF MATERIALS \$ ⁵⁸² 153,445,024

VALUE OF PROD^s \$ 179,632,246

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRINCIPAL STATISTICS BY PROVINCES (Continued)

Statistics	Unit	Ontario	Quebec	New Brunswick	Nova Scotia	Prince Edward Island
Mills reporting	No.	630	449	44	30	28
Capital	\$	34,236,778	14,300,475	310,112	296,906	192,228
Employees on salaries	No.	480	187	10	7	5
Salaries	\$	806,064	459,235	13,044	12,600	4,300
Employees on wages	No.	2,768	1,041	64	39	26
Wages paid	\$	2,743,047	665,054	40,815	22,394	13,538
Cost of fuel	\$	275,395	44,807	7,883	5,399	2,800
Miscellaneous expenses	\$	4,229,471	1,157,992	34,104	21,196	8,856
Cost of materials	\$	76,180,668	24,401,706	826,898	383,007	278,935
Gross value of products	\$	92,841,756	29,286,355	1,021,727	524,755	361,739
Net value of products	\$	16,661,088	4,884,649	194,829	141,748	82,804

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

The accompanying table shows the principal items of production in flour, grist and chopping mills in the Dominion for the calendar year 1922. Compared with 1921, there was an increase in the number of barrels of flour manufactured of 2,511,372 and of 35,611 tons of bran, shorts and middlings. On the other hand, owing to the drop in the market price of wheat, there were decreases in the value of flour of \$23,507,980 and of \$2,546,113 in the value of bran, shorts and middlings. The average price of flour per barrel fell from \$8.89 in 1921 to \$6.32 in 1922, or 29 per cent, and of bran, shorts and middlings the price fell from \$27.34 per ton in 1921 to \$21.99 in 1922, or approximately 19 per cent. Oatmeal, rolled oats and chopped feed both show decreased production in 1922, as well as decreases in aggregate and average value.

Quantity and Value of Principal Mill Products in Canada, 1922.

Principal Mill Products	Unit	Quantity	Selling Value at mill	Average Value
			\$	\$ ¢
<u>1922</u>				
Wheat flour, all grades	bb1.	17,833,131	112,749,305	6.32
Oatmeal and rolled oats	bb1.	743,426	5,577,473	7.50
Bran, shorts & middlings	tons	652,708	14,351,839	21.99
Feed, chopped	tons	703,999	26,694,424	37.92

MILLS IN OPERATION, 1922

A summary of operating mills in the provinces and the Dominion for 1922, distinguishing between mills producing flour and other cereals and those engaged in the chopping of grains for feed, is shown in the table below:-

Provinces	Flour and Grist Mills	Chopping Mills	All Mills
CANADA	434	930	1,364
British Columbia	7	-	7
Alberta	33	20	53
Saskatchewan	33	21	54
Manitoba	32	7	39
Ontario	240	420	660
Quebec	26	423	449
New Brunswick	23	21	44
Nova Scotia	17	13	30
Prince Edward Island ..	23	5	28

CAPACITY OF MILLS, 1922

The equipment in flour and grist mills and in chopping mills is shown in the subjoined table by provinces, together with the capacity per 24 hours. In 1921 the total capacity was 131,541 barrels whilst in 1922 it had increased to 134,125 barrels, or a gain in capacity output of 2,584 barrels or nearly 2 per cent.

Provinces	Mills No.	Rolls Pr.	Stones Pr.	Capacity per 24 hours bbl.
CANADA	1,364	4,971	569	134,125
British Columbia	7	59	6	1,053
Alberta	53	434	6	11,475
Saskatchewan	54	341	18	8,067
Manitoba	39	444	13	12,060
Ontario	660	2,694	118	71,444
Quebec	449	724	363	26,068
New Brunswick	44	123	4	2,149
Nova Scotia	30	65	18	897
Prince Edward Island ..	28	82	23	912

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRODUCTION

The statistics of production for the calendar year 1922 are presented in detail for Canada and the provinces in Tables (1) and (1a). A summary showing the quantity, selling value and average selling value of the various commodities for the Dominion for the calendar year 1922 follows. The total selling value of the products of flour and grist mills, and of chopping mills in 1922 was \$166,881,455, as compared with \$194,772,849 in 1921, notwithstanding that the volume of production was considerably higher in 1922 than in 1921.

Summary Table of Production in all Classes of Mills in Canada, 1922

Classes of Products	Unit	Quantity	Total Selling Value \$	Average Selling Value \$ c
Chopped grain feed	ton	703,999	26,694,424	37.92
Wheat flour -				
Fall or winter	bbls.	1,408,488	9,359,044	6.64
Spring	"	16,114,312	99,495,547	6.17
Blended	"	575,412	3,894,714	6.77
Low grade or feed	ton	49,845	1,796,925	36.05
Shorts and middlings ...	"	358,513	8,180,833	22.82
Bran	"	294,195	6,181,006	21.01
Oatmeal	lb.	16,080,504	500,175	.031
Rolled oats	"	129,832,310	5,077,298	.039
Barley, pot and pearl ..	"	3,900,476	128,081	.033
Barley, flour and meal .	"	2,249,656	42,499	.019
Rye, flour and meal	"	2,090,334	59,667	.029
Corn, flour	"	2,108,312	46,410	.022
Corn, meal	"	49,486,466	1,130,005	.023
Corn, cracked	"	41,236,213	816,517	.019
Buckwheat , flour	"	5,580,725	211,626	.038
Pea, meal	"	200,864	8,172	.041
Peas, split	"	4,979,852	232,710	.047
Offal, not otherwise specified	ton	50,944	1,151,574	22.60
All other cereal products n.s.	-	-	705,907	-
All other products, n.s.	-	-	1,168,321	-
TOTAL VALUE OF PRODUCTS			166,881,455	

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRODUCTION (Continued)

The statistics of production in Table 1 shows separately, merchant and custom grinding, by quantities and selling value, as well as a total value for both. The value as given in the tables of production is that received at the mill or point of production.

Table 1.- Production in Flour and Grist Mills by Classes and Provinces, 1922.

Products by Provinces	Unit	Merchant Grinding		Custom or Exchange Grinding		Total Selling Value at Mill
		Quan.	Sell. Val. at Mill	Quan.	Sell. Val. at Mill	
			\$		\$	\$
CANADA						
Chopped grain feed	ton	117,622	4,307,106	199,359	7,350,407	11,657,513
Wheat flour -						
Fall or winter ..	bb1.	1,399,190	9,296,540	9,298	62,504	9,359,044
Spring	"	15,875,487	98,020,323	238,825	1,475,224	99,495,547
Blended	"	513,252	3,466,002	18,953	124,958	3,590,960
Low grade or feed	ton	49,484	1,783,784	361	13,141	1,796,925
Shorts & middlings	"	352,017	8,019,191	5,541	135,309	8,154,500
Bran	"	286,901	6,018,043	6,366	140,631	6,158,679
Oatmeal	lb.	15,590,044	483,023	201,300	7,853	490,881
Rollled oats	"	129,720,290	5,073,948	-	-	5,073,948
Barley -						
Pot and pearl ...	"	3,895,676	127,889	4,800	192	128,081
Flour and meal ..	"	1,898,356	30,651	-	-	30,651
Rye flour and meal	"	2,028,354	57,647	57,480	1,915	59,562
Corn -						
Flour	"	2,108,312	46,410	-	-	46,410
Meal	"	38,777,570	850,144	8,650,380	231,235	1,081,379
Cracked	"	35,172,530	562,662	6,053,688	153,855	316,517
Buckwheat flour ..	"	948,592	31,350	1,490,161	67,239	98,589
Peas -						
Meal	"	200,864	8,172	-	-	8,172
Split	"	4,978,852	232,650	-	-	232,650
Offal, not specified	ton	47,351	1,063,919	965	20,016	1,083,935
All other cereal products	-	-	-	-	-	705,907
All other products	-	-	-	-	-	1,167,321
TOTAL VALUE OF PRODUCTS			139,579,459		9,784,484	151,237,671
BRITISH COLUMBIA						
Chopped grain feed	ton	3,955	151,917	843	33,310	185,227
Wheat flour -						
Fall or winter ..	bb1.	2,830	19,421	-	-	19,421
Spring	"	147,257	1,009,956	409	2,672	1,012,608
Blended	"	17,694	117,500	-	-	117,500
Low grade or feed	ton	416	16,115	-	-	16,115
Shorts & middlings	"	2,861	83,459	5	125	83,584
Bran	"	2,515	63,842	6	133	63,975
Corn, cracked	lb.	574,763	8,908	-	-	8,908
Offal not otherwise specified	ton	913	9,130	-	-	9,130
All other cereal products	-	-	19,314	-	-	19,314
All other products	-	-	234,505	-	-	234,505
TOTAL			1,734,045		36,240	1,770,285

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRODUCTION (Continued)

Table 1.- Production in Flour and Grist Mills by Classes and Provinces, 1922, Contd.

Products by Provinces	Unit	Merchant Grinding		Custom or Exchange Grinding		Total Selling Value at mill
		Quan.	Sell. Val. at Mill	Quan.	Sell. Val. at mill	
ALBERTA						
Chopped grain feed	ton	5,218	172,013	14,134	451,708	623,721
Wheat flour -						
Spring	bb1.	1,519,222	9,494,875	69,282	376,654	9,871,529
Blended	"	75	450	500	3,500	3,950
Low grade or feed	ton	3,848	116,146	142	5,783	121,934
Shorts & middlings	"	27,284	550,103	1,273	29,920	580,023
Bran	"	25,367	485,853	1,367	28,550	514,403
Oatmeal	lb.	971,903	32,826	-	-	32,826
Rolled oats	lb.	14,710,501	498,412	-	-	498,412
Barley -						
Pot and pearl ...	lb.	47,084	2,222	-	-	2,222
Flour and meal ..	lb.	73,100	1,056	-	-	1,056
Offal, not otherwise specified	ton	5,444	86,816	3	60	86,876
All other cereal products	-	-	-	-	-	52,423
All other products	-	-	-	-	-	498
TOTAL			11,440,772		896,180	12,389,873
SASKATCHEWAN						
Chopped grain feed	ton	703	21,789	3,702	127,447	149,236
Wheat flour -						
Spring	bb1.	1,437,663	8,794,163	72,757	460,828	9,254,996
Blended	"	18,820	130,982	7,302	46,010	176,992
Low grade or feed	ton	4,612	109,698	74	1,942	111,640
Shorts & middlings	"	24,601	379,853	1,593	36,762	416,615
Bran	"	26,736	419,532	1,781	37,535	457,067
Oatmeal	lb.	3,586,240	116,510	-	-	116,510
Rolled oats	"	35,661,083	1,211,312	-	-	1,211,312
Barley, pot & pearl	"	542,772	21,586	-	-	21,586
Rye, flour & meal ..	"	-	-	18,400	740	740
Offal not otherwise specified	ton	8,052	122,461	-	-	122,461
All other cereal products	-	-	-	-	-	27,955
All other products	-	-	-	-	-	23,783
TOTAL			11,327,891		711,264	12,090,891
MANITOBA						
Chopped grain feed	ton	10,437	328,029	3,802	135,437	463,466
Wheat flour -						
Fall or winter ...	bb1.	2,779	22,007	1,467	10,269	32,276
Spring	"	2,114,183	12,533,824	39,445	255,595	12,789,419
Blended	"	678	4,068	-	-	4,068
Low grade or feed	ton	2,326	83,177	48	2,048	85,225
Shorts & middlings	"	44,503	976,879	823	18,064	994,943
Bran	"	33,811	683,561	1,028	20,323	703,884
Oatmeal	lb.	1,797,532	54,936	-	-	54,936
Rolled oats	"	21,130,830	652,575	-	-	652,575
Barley, pot & pearl	"	133,868	4,473	-	-	4,473
Rye, flour & meal ..	"	41,914	1,241	37,500	1,125	2,366
Corn - Flour	"	23,618	600	-	-	600
Meal	"	1,039,094	26,240	-	-	26,240
Cracked	"	87,750	2,531	-	-	2,531
Offal not otherwise specified	ton	7,075	129,590	-	-	129,590
All other products	-	-	-	-	-	9,204
TOTAL			15,503,731		442,851	15,955,796

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRODUCTION (Continued)

Table 1.- Production in Flour and Grist Mills, by Classes and Provinces, 1922. (cont.)

Products by Provinces	Unit	Merchant Grinding		Custom or Exchange Grinding		Total Selling Value at Mill
		Quan.	Sell. Val. at mill \$	Quan.	Sell. Val. at mill \$	
ONTARIO						
Chopped grain feed	ton	59,668	2,147,011	165,876	6,200,946	8,347,957
Wheat flour -						
Fall or winter	bbl.	1,332,707	8,828,938	4,555	30,003	8,358,946
Spring	"	7,689,120	47,345,131	23,272	151,289	47,496,420
Blended	"	275,685	1,810,902	8,735	57,424	1,868,326
Low grade or feed	ton	32,745	1,230,902	79	2,863	1,239,765
Shorts & middlings	"	189,076	4,631,227	651	17,850	4,649,077
Bran	"	146,659	3,273,707	863	21,599	3,295,306
Oatmeal	lb.	7,837,455	219,328	-	-	219,328
Rolled oats	"	52,699,315	2,487,681	-	-	2,487,681
Barley -						
Pot and pearl ..	"	2,553,011	77,910	-	-	77,910
Flour and meal ..	"	613,240	8,582	-	-	8,582
Rye, flour & meal	"	1,986,410	56,406	1,500	50	56,456
Corn -						
Flour	"	888,700	19,552	-	-	19,552
Meal	"	13,624,238	283,386	-	-	283,386
Cracked	"	15,970,068	275,534	20,000	330	275,364
Buckwheat flour ..	"	735,792	23,838	33,540	1,190	25,028
Peas -						
Meal	"	200,864	8,172	-	-	8,172
Split	"	4,978,852	232,650	-	-	232,650
Offal not otherwise specified	ton	22,168	630,018	19	394	630,412
All other cereal products	-	-	-	-	-	666,217
All other products	-	-	-	-	-	437,875
TOTAL			73,596,875		6,483,943	81,124,310
QUEBEC						
Chopped grain feed	ton	35,917	1,415,466	6,539	237,257	1,652,723
Wheat flour -						
Fall or winter ..	bbl.	60,874	426,174	1,847	11,617	437,791
Spring	"	2,942,181	18,654,971	11,825	83,642	18,738,613
Blended	"	200,000	1,400,000	-	-	1,400,000
Low grade or feed	ton	5,505	220,642	8	200	220,842
Shorts & middlings	"	63,624	1,395,606	347	10,276	1,405,882
Bran	"	51,730	1,089,027	307	8,242	1,097,269
Oatmeal	lb.	415,135	13,504	100,000	3,500	17,004
Rolled oats	"	2,745,046	105,692	-	-	105,692
Barley -						
Pot and pearl ...	"	618,941	21,698	-	-	21,698
Flour and meal ..	"	1,207,546	21,013	-	-	21,013
Corn -						
Flour	"	1,195,994	26,258	-	-	26,258
Meal	"	8,003,342	197,409	-	-	197,409
Cracked	"	3,200,182	75,203	1,392,000	41,760	116,963
Buckwheat flour ..	"	164,000	5,530	67,250	2,580	8,110
Offal not otherwise specified	ton	2,294	58,940	93	2,295	61,235
All other products	-	-	-	-	-	621,087
TOTAL			25,127,133		401,369	26,149,589

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRODUCTION (Continued).

Table 1.- Production in Flour and Grist Mill by Classes and Provinces, 1922 (Contd.)

Products by Provinces	Unit	Merchant Grinding		Custom or Exchange Grinding		Total Selling value at Mill
		Quan.	Sell. Val. at mill	Quan.	Sell. Val. at mill	
			\$		\$	\$
NEW BRUNSWICK						
Chopped grain feed	ton	1,472	62,607	1,211	44,951	107,558
Wheat flour -						
Fall or winter ..	bbi.	-	-	35	245	245
Spring	"	185	1,295	10,559	71,922	73,217
Blended	"	-	-	2,421	13,024	13,024
Low grade or feed	ton	-	-	10	300	300
Shorts and middlings	"	5	150	269	6,308	6,458
Bran	"	7	185	320	7,253	7,438
Rolled oats	lb.	166,752	5,064	-	-	5,064
Barley -						
Pot or pearl	"	-	-	4,300	192	192
Corn -						
Meal	"	15,852,106	326,549	-	-	326,549
Cracked	"	14,113,457	278,022	65,000	1,350	279,372
Buckwheat flour ...	"	44,800	1,792	1,253,721	57,879	59,671
Offal not otherwise specified	ton	399	6,829	735	15,142	21,971
TOTAL:			682,493		224,066	906,559
NOVA SCOTIA						
Chopped grain feed	ton	202	8,274	1,721	62,881	71,155
Wheat flour -						
Fall or winter ..	bbi.	-	-	607	4,856	4,856
Spring	"	-	-	6,362	45,286	45,286
Shorts & middlings	ton	-	-	114	2,975	2,975
Bran	"	-	-	134	3,117	3,117
Oatmeal	lb.	-	-	41,300	1,985	1,985
Corn -						
Meal	"	-	-	3,650,320	231,235	231,235
Cracked	"	-	-	4,586,628	110,415	110,415
Buckwheat flour ..	"	4,000	190	125,650	5,090	5,280
Offal not otherwise specified	ton	1,002	20,030	86	1,573	21,605
TOTAL			23,494		169,415	497,209
PRINCE EDWARD ISLAND						
Chopped grain feed	ton	-	-	1,481	56,470	56,470
Wheat flour -						
Fall or winter ..	bbi.	-	-	787	5,509	5,509
Spring	"	25,676	186,123	4,614	27,336	213,459
Blended	"	300	2,100	-	-	2,100
Low grade or feed	ton	32	1,106	-	-	1,106
Shorts & middlings	"	63	1,914	466	12,523	14,437
Bran	"	76	2,341	560	13,879	16,220
Oatmeal	lb.	-	-	60,000	2,373	2,373
Corn -						
Meal	"	253,720	16,560	-	-	16,560
Cracked	"	1,220,310	22,464	-	-	22,464
Buckwheat flour ..	"	-	-	10,000	500	500
Offal not otherwise specified	ton	4	105	29	550	655
TOTAL			232,713		119,146	351,859

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

PRODUCTION (Continued)

The production in chopping mills is confined principally to grain chopped for feed, though the Provinces of Ontario and Quebec show a variety of products similar to those in the flour and grist mills. The total value of products in chopping mills in 1922 amounted to \$15,643,784, as against \$15,140,603 in 1921.

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Table 1(a) Products of Chopping Mills by Classes and Provinces, 1922.

Products of Chopping Mills	Unit	C A N A D A		Alberta		Saskatchewan		Manitoba	
		Quantity	Estimated Selling Value	Quan.	Estimated Sell. Value	Quan.	Estimated Sell. Value	Quan.	Estimated Sell. Value
Chopped grain feed	ton	387,018	15,036,911	7,923	287,799	6,699	260,873	2,141	82,650
Wheat flour, all grades	bb1.	43,202	303,754	-	-	956	6,027	-	-
Shorts and middlings	ton	955	26,333	-	-	18	510	-	-
Bran	ton	928	22,327	-	-	17	419	-	-
Oatmeal	lb.	289,160	9,294	-	-	-	-	-	-
Rolled oats	lb.	112,020	3,350	-	-	-	-	-	-
Barley flour and meal	lb.	350,770	11,848	-	-	-	-	-	-
Rye flour and meal	lb.	4,500	105	-	-	-	-	-	-
Corn flour, meal, cracked	lb.	2,058,516	48,626	-	-	-	-	-	-
Buckwheat flour	lb.	3,141,972	113,037	-	-	-	-	-	-
Peas, meal and split	lb.	1,000	60	-	-	-	-	-	-
Offal, not otherwise specified ..	ton	2,628	67,639	-	-	-	-	-	-
All other products	-	-	500	-	-	-	-	-	-
TOTAL VALUE			15,643,784		287,799		267,829		82,650

Products of Chopping Mills	Unit	Ontario		Quebec		New Brunswick		Nova Scotia		P. E. Island	
		Quan.	Estimated Sell. Val.	Quan.	Est. Sell. Value	Quan.	Est. Sell. Value	Quan.	Est. Sell. Value	Quan.	Est. Sell. Value
Chopped grain feed	ton	300,274	11,648,284	68,321	2,690,984	1,006	39,906	401	16,535	253	9,880
Wheat flour, all grades	bb1.	5,548	34,451	35,948	257,985	64	384	686	4,907	-	-
Shorts and middlings	ton	137	3,539	785	21,894	1	25	14	365	-	-
Bran	ton	132	3,043	763	18,501	1	20	15	344	-	-
Oatmeal	lb.	-	-	280,000	8,805	-	-	9,160	489	-	-
Rolled oats	lb.	88,020	2,780	24,000	570	-	-	-	-	-	-
Barley flour and meal	lb.	-	-	341,770	11,398	-	-	9,000	450	-	-
Rye flour and meal	lb.	-	-	4,500	105	-	-	-	-	-	-
Corn flour, meal, cracked	lb.	1,205,672	20,112	852,844	28,514	-	-	-	-	-	-
Buckwheat flour	lb.	22,000	848	1,437,565	53,942	1,612,016	55,563	69,800	2,684	-	-
Peas, meal and split	lb.	-	-	1,000	60	-	-	-	-	-	-
Offal, not otherwise specified ..	ton	-	-	1,559	43,508	877	19,270	42	1,072	-	-
All other products	-	150	3,729	-	500	-	-	-	-	-	-
TOTAL VALUE			11,716,846		3,136,766		115,168		26,846		9,880

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

MATERIALS USED

The quantity and cost value of the grains milled during the year is shown in Table 2(a) for flour and grist mills and in Table 2(b) for chopping mills. The total cost of grains ground in the flour and grist mills of the Dominion in 1922 was \$117,392,303 and of containers \$7,920,620. In chopping mills the estimated cost value at market price of the grain chopped was \$11,374,155, or a grand cost total of all materials of \$136,687,078. The average price per bushel of each kind of grain and the percentage of increase or decrease per bushel is indicated in the following summary table for the years 1921 and 1922.

Grains milled	Average price per bushel delivered at mill		Decrease from 1921	
	1921	1922	Per bushel	Per cent
	\$ ¢	\$ ¢	¢	
Wheat	1.84	1.26	.58	31.52
Oats .....	.56	.495	.065	11.61
Barley .....	.87	.627	.243	28.00
Rye	1.30	.829	.471	36.23
Corn .....	.89	.830	.060	6.74 6.74
Buckwheat .....	.97	.816	.154	15.88
Peas	1.98	1.835	.145	7.32
Mixed grain .....	.68	.611	.069	10.15

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

Table 2(a).- Materials Used in Flour Mills, 1922.

Materials	C A N A D A		Br. Columbia		Alberta		Saskatchewan		Manitoba	
	Quantity	Cost value at mill	Quan.	Cost Val. at mill	Quantity	Cost Val. at mill	Quantity	Cost Val. at mill	Quantity	Cost value at mill
	bu.	\$	bu.	\$	bu.	\$	bu.	\$	bu.	\$
Wheat	81,413,649	102,803,200	759,431	933,815	7,139,232	8,086,110	7,051,020	7,528,423	9,709,589	11,980,745
Oats	11,191,617	5,540,868	337,248	164,442	1,352,698	552,041	1,824,031	837,881	1,492,973	674,972
Barley	824,592	517,255	18,155	13,075	130,832	56,564	44,859	24,898	111,962	58,560
Rye	79,625	66,039	-	-	197	175	1,600	1,174	5,254	3,868
Corn	2,752,661	2,284,064	83,652	74,587	11,843	8,984	300	270	52,308	40,430
Buckwheat ...	164,343	134,075	-	-	-	-	-	-	14,160	14,456
Peas	124,824	229,036	-	-	-	-	-	-	-	-
Mixed grains for chopping	9,306,085	5,688,393	-	-	310,779	168,368	136,517	81,537	179,642	96,294
Other grains	179,111	129,373	-	-	560	961	-	-	1,758	1,433
Cost of containers	-	7,259,595	-	86,022	-	744,327	-	863,480	-	550,045
Cost of materials for mfr. of containers	-	661,025	-	-	-	9,070	-	110,969	-	400,325
TOTAL COST		125,312,923		1,271,941		9,626,600		9,448,632		13,821,128
	Ontario		Quebec		New Brunswick		Nova Scotia		P. E. Island	
	Quan.	Cost Value	Quan.	Cost Value	Quan.	Cost Val.	Quan.	Cost Val.	Quan.	Cost Value
	bu.	\$	bu.	\$	bu.	\$	bu.	\$	bu.	\$
Wheat	42,691,619	54,301,560	13,822,476	19,648,746	65,461	82,423	31,655	43,321	145,166	198,057
Oats	5,442,040	2,847,105	555,862	361,456	116,397	66,457	31,890	15,794	38,478	20,720
Barley	391,971	271,667	107,065	79,691	3,298	2,170	16,050	10,280	400	350
Rye	72,574	60,822	-	-	-	-	-	-	-	-
Corn	1,333,096	1,029,447	403,166	339,754	527,281	505,575	277,547	258,858	33,468	26,159
Buckwheat	57,400	47,976	16,352	13,099	69,377	53,085	6,554	4,959	500	500
Peas	124,324	228,561	500	475	-	-	-	-	-	-
Mixed grains for chopping	7,299,610	4,516,353	1,279,830	766,491	21,500	12,900	37,616	22,159	40,591	24,286
Other grains	156,526	113,960	20,267	13,019	-	-	-	-	-	-
Cost of containers	-	4,205,665	-	778,626	-	21,414	-	8,283	-	1,733
Cost of materials for mfr. of containers	-	25,264	-	115,397	-	-	-	-	-	-
TOTAL COST OF MATERIALS		67,648,385		22,116,754		744,024		363,654		271,805

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

Table 2(b) Materials Used in Chopping Mills, 1922.

Materials	Unit	C A N A D A		Alberta		Saskatchewan		Manitoba	
		Quantity	Cost Value	Quan.	Cost Val.	Quan.	Cost Val.	Quan.	Cost Value
Wheat	bu.	224,370	\$ 303,676	2,095	\$ 1,758	5,144	\$ 5,208	50	\$ 40
Oats	bu.	2,855,148	1,441,128	181,639	80,508	233,604	107,035	43,205	24,105
Barley	bu.	564,532	378,940	44,743	22,454	22,624	14,401	39,346	23,608
Rye	bu.	46,059	35,111	1,575	912	5,897	3,600	-	-
Corn	bu.	389,289	293,754	36	41	2,025	1,658	-	-
Buckwheat	bu.	291,732	215,303	470	265	-	-	-	-
Peas	bu.	14,854	12,631	-	-	-	-	-	-
Mixed grains	bu.	13,980,827	8,672,593	166,514	94,392	90,248	57,138	17,264	10,325
Other grains	bu.	45,318	21,019	-	-	250	115	-	-
TOTAL		18,412,129	11,374,155	397,072	200,330	359,792	189,155	104,865	58,078

Materials	Ontario		Quebec		New Brunswick		Nova Scotia		P. E. Island		
	Quantity	Cost Val.	Quantity	Cost Val.	Quan.	Cost Val.	Quan.	Cost Val.	Quan.	Cost Value	
Wheat	bu.	40,401	\$ 44,415	172,466	\$ 247,167	351	\$ 365	3,263	\$ 4,223	600	\$ 500
Oats	bu.	1,121,996	561,465	1,240,666	653,316	24,522	12,261	4,216	2,253	300	180
Barley	bu.	272,806	180,328	173,972	130,917	8,750	5,312	2,291	1,920	-	-
Rye	bu.	29,922	23,281	8,592	7,266	-	-	73	52	-	-
Corn	bu.	205,587	155,149	181,641	136,906	-	-	-	-	-	-
Buckwheat	bu.	45,184	35,266	160,332	123,224	82,051	53,946	3,595	2,512	100	90
Peas	bu.	4,405	5,442	10,424	7,169	25	20	-	-	-	-
Mixed grains	bu.	12,081,811	7,521,996	1,586,751	963,024	15,600	10,970	13,359	8,388	9,280	6,360
Other grains	bu.	9,487	4,941	35,581	15,963	-	-	-	-	-	-
TOTAL		13,811,599	8,532,283	3,570,425	2,284,952	131,299	82,874	26,797	19,353	10,280	7,130

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

CAPITAL INVESTMENT

The capital investment in the industry is shown in Table 3 for each class of mills and for all classes of mills in the Dominion and the provinces by items of capital for the calendar year 1922. The total amounted to \$68,453,826, of which \$65,928,521 is accredited to flour and grist mills and \$2,525,365 to chopping mills. The net increase in capital investment over 1921 was \$6,626,574.

Table 3.- Capital Invested in the Flour & Grist Milling Industry, by Items and Provinces, 1922.

Provinces	Land, build-ings and fixtures	Machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	Total capital in Flour and Grist mills	Total capital in chopping mills	Grand Total of Capital in all mills
British Columbia ...	\$ 558,504	\$ 329,720	\$ 290,580	\$ 301,167	\$ 1,479,971	\$ -	\$ 1,479,971
Alberta	1,646,484	1,135,730	1,941,467	1,804,086	6,527,767	62,500	6,590,267
Saskatchewan	993,693	544,787	1,092,049	1,113,550	3,744,079	61,655	3,805,734
Manitoba	2,645,971	1,380,922	988,034	2,211,528	7,226,455	14,960	7,241,415
Ontario	13,305,308	7,700,663	6,952,387	5,537,889	33,496,247	740,531	34,236,778
Quebec	4,968,477	1,155,467	2,053,756	4,548,251	12,725,951	1,574,524	14,300,475
New Brunswick	90,500	103,828	45,013	32,871	272,212	37,900	310,112
Nova Scotia	87,186	77,126	37,474	68,675	270,461	26,445	296,906
Prince Edward Island	66,165	97,173	8,075	13,965	185,378	6,850	192,228
CANADA	24,362,288	12,525,416	13,408,835	15,631,982	65,928,521	2,525,365	68,453,886

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

EMPLOYEES, SALARIES AND WAGES.

The number of persons employed in the industry is shown by classes, sex and remuneration for each of the provinces and the Dominion in Table 4. The total number employed in 1922 was 6,758, of whom 6,373 were males and 385 females. Persons employed on salaries numbered 1,420 and on wages 5,338. The total salary and wage bill amounted to \$7,490,369, of which salaries accounted for \$2,476,899 and wages \$5,013,470.

Table 4.- Employees, Salaries and Wages by Provinces, 1922.

Provinces	Employees on Salaries in Flour & Grist mills			Employees on Wages in					Total Employees		
	Male	Female	Salaries \$	Flour & Grist Mills		Wages \$	Chopping Mills		Male No.	Female No.	Salaries and Wages \$
	No.	No.		Male No.	Female No.		Male No.	Wages \$			
British Columbia ...	60	16	110,398	84	2	99,702	-	-	144	18	210,100
Alberta	185	46	354,300	405	4	465,696	20	8,220	610	50	828,216
Saskatchewan	228	39	434,430	339	18	417,934	22	6,619	589	57	858,983
Manitoba	132	25	282,528	489	9	527,776	8	2,625	629	34	812,929
Ontario	368	112	806,064	2,169	85	2,481,537	514	261,510	3,051	197	3,549,111
Quebec	165	22	459,235	545	2	545,097	494	119,957	1,204	24	1,124,289
New Brunswick	7	3	13,044	43	-	34,802	21	6,013	71	3	53,859
Nova Scotia	6	1	12,600	26	-	20,743	13	1,651	45	1	34,994
Prince Edward Island	4	1	4,300	21	-	13,212	5	376	30	1	17,888
CANADA	1,155	265	2,476,899	4,121	120	4,606,499	1,097	406,971	6,373	385	7,490,369

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

OTHER LABOUR STATISTICS

Table 5. Statistics of working time by provinces, of mills in operation and of employees, are shown in Table 5. Operating time of mills is shown under three heads: full time, part time and idle, whilst the working time of employees is shown by the hours worked per day and per week. Columns showing averages of working time per year, per week and per day complete the table.

Table 5.- Working Time, 1922.

	Establishments reporting		Days in operation in				Hours worked in		Averages in flour & Grist mills of -			Average days in operation in Chopping mills
	Flour Mills	Chopping Mills	Flour & Grist mills			Chopping mills	Flour & Grist Mills		Days in operation	Hours per day	Hours per week	
			On full time	On pt. time	Idle		On full or part time	Per day					Per week
CANADA	434	930	86,295	17,500	28,141	146,771	4,191	25,044	239.16	9.65	57.70	157.17
British Columbia	7	-	977	213	938	-	65	386	170.00	9.28	55.20	-
Alberta	33	20	5,073	1,164	3,795	3,419	313	1,873	189.00	9.48	56.76	170.85
Saskatchewan ...	33	21	5,844	1,116	3,072	2,330	328	1,968	210.91	9.94	59.64	110.95
Manitoba	32	7	5,489	1,173	3,066	851	305	1,822	208.19	9.53	56.94	121.57
Ontario	240	420	52,814	10,700	9,446	87,801	2,334	13,952	264.64	9.72	58.13	209.05
Quebec	26	423	5,293	1,358	1,253	48,917	257	1,532	258.81	9.90	58.92	115.64
New Brunswick ..	23	21	4,531	499	1,962	2,412	212	1,252	218.70	9.22	54.43	114.70
Nova Scotia	17	13	2,883	559	1,726	890	163	975	202.47	9.59	57.73	68.46
Prince Edward Island	23	5	3,391	718	2,883	151	214	1,284	174.30	9.30	55.82	30.20

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.FUEL CONSUMPTION

The quantity of fuel consumed during the year is shown by classes, quantity and cost value in Table 6. The total cost of fuel in 1922 was \$687,709. Bituminous and lignite coal, amounting to \$470,893 were 77 per cent of the total value of fuel consumed. The classes of fuel used in chopping mills were not specified on the questionnaire.

Table 6.- Fuel Consumption, 1922.

Classes of fuel	Unit of measure	In Flour & Grist Mills		In Chopping Mills
		Quantity	Cost value at mill	Cost value at mill
Bituminous coal	ton	41,555	289,766	-
Anthracite coal	"	864	10,298	-
Lignite coal	"	38,236	181,127	-
Coke	"	82	1,133	-
Gasoline	gal.	29,465	10,261	-
Oil (Fuel)	"	28,000	4,441	-
Wood	cd.	12,599	51,698	-
Gas, artificial & natural	m.c.ft.	334,958	22,282	-
Other fuel	-	-	41,012	75,691
TOTAL COST OF FUEL			612,018	75,691

POWER EMPLOYED

The statistics relating to the power equipment installed in the flour and grist mills of the Dominion are furnished in Table 7, according to (a) the number of units in each class and (b) the horse-power according to manufacturer's rating. The total horse-power installed in 1922 was 95,315, of which electric motors furnished 53,365, hydraulic turbines 25,105 and steam engines 14,083. Boiler installation with horse-power capacity is also included in the table but forms no part of the power installation.

Table 7.- Power Installation, 1922.

Power Installation	Flour & Grist Mills		Chopping Mills
	Units	H.P. Capacity	H.P. Capacity
Steam engines and turbines	No. 131	14,083	5,363
Gas engines	26	1,767	-
Oil and gasoline engines	52	995	2,313
Hydraulic turbines & waterwheels ..	325	25,105	19,132
Other power, not specified	-	-	2,536
Electric motors -			
Operated by power generated by the establishment	371	17,595	-
Operated by purchased power	731	35,770	3,920
TOTAL POWER INSTALLATION	1,636	95,315	33,264
Boilers installed	109	12,361	

Miscellaneous Expenses

The charge for miscellaneous expenses or "overhead" including rents, taxes, insurance, travelling and advertising expenses, repairs to buildings and machinery and sundry other expenses amounted to \$8,949,906 in Flour and Grist mills, and to \$201,341 in Chopping mills.

IMPORTS, EXPORTS AND CONSUMPTION

IMPORTS.- The quantity and value of milled products and of grains imported into Canada for consumption during the calendar year 1922 is set forth in the following table:-

	Unit	Quantity	Value
<u>Milled Products -</u>			
Wheat flour	bol.	49,591	321,408
Buckwheat meal and flour	cwt.	505	2,520
Cornmeal	bbi.	33,197	117,688
Malt flour	lb.	336,444	25,748
Rye flour	bbi.	3,549	16,922
Oatmeal and rolled oats	lb.	237,998	5,868
Barley, pot and pearl	lb.	140,577	26,542
Peas, split	lb.	23,389	1,475
Hominy, cracked, ground, etc.....	-	-	6,355
Rice and cassava flour, etc.....	lb.	171,159	14,046
Sago and tapioca flour	lb.	2,155,428	68,823
Bran and mill feed	-	-	77,956
Cereal food in packages	lb.	977,480	98,839
Cereal foods, n.c.p.	-	-	26,303
Semolina	bbi.	436	3,457
TOTAL VALUE MILLED PRODUCTS			813,950
<u>Grains -</u>			
Wheat	bush.	63,373	73,408
Oats	"	1,067,432	423,562
Barley	"	1,467	1,872
Corn for all purposes	"	13,225,636	8,538,337
Buckwheat	"	5,518	6,304
Peas, whole	"	46,579	137,174
Rye	"	928	1,847
Beans	"	271,718	664,322
TOTAL VALUE GRAINS			9,846,826

EXPORTS.- The export of milled products and of grains, the produce of Canada for the calendar year 1922, are shown by quantity and value in the subjoined table:-

Articles	Unit	Quantity	Value
<u>Milled Products -</u>			
Wheat flour	bbi.	9,484,725	56,277,992
Oatmeal and rolled oats	cwt.	369,303	1,607,860
Bran, shorts and middlings	cwt.	1,454,464	1,610,496
Malt	bush.	137,984	198,468
Peas, split	bush.	64,111	214,940
Screenings	cwt.	1,405,374	252,080
Cornmeal	bbi.	23,931	96,876
Rye flour	bbi.	643	3,725
Rice, meal and flour	lb.	323,000	7,690
All other meals	bbi.	10,302	44,537
TOTAL VALUE MILLED PRODUCTS			60,310,664
<u>Grains -</u>			
Wheat	bush.	209,339,225	246,029,977
Oats	"	30,230,668	15,108,836
Barley	"	14,786,773	9,314,675
Corn	"	26,443	28,223
Rye	"	9,879,391	7,948,956
Buckwheat	"	19,889	436,487
Peas, whole	"	171,753	464,169
Beans	"	36,852	107,180
TOTAL VALUE GRAINS			279,438,503

THE FLOUR MILLING INDUSTRY IN CANADA, 1922.

CONSUMPTION

THE following statement shows the total quantities and values of the principal milled products available for consumption in Canada for the calendar year 1922, and also the per capita quantities and values based on an estimated population of 8,967,000. Consumption figures for any commodity are usually computed by the grouping of production and imports and deducting therefrom the exports.

Articles	Production		Imports		Exports		Available for Consumption		Per Capita Consumption	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quan.	Value
		\$		\$		\$		\$		\$
Wheat flour bbl.	18,098,212	122,749,305	49,591	321,408	9,484,725	56,277,992	8,663,078	56,792,721	0.92	6.33
Oatmeal and rolled oats lb.	145,912,814	5,577,473	237,998	5,868	36,930,300	1,607,860	109,220,512	3,975,481	12.18	.44
Cornmeal lb.	49,486,466	1,130,005	6,506,612	117,688	4,690,476	96,876	51,302,602	1,150,817	5.72	.13
Rye flour lb.	2,090,334	59,667	695,604	16,922	126,028	3,725	2,659,910	72,864	0.29	.008
Buckwheat flour . lb.	5,580,725	211,626	50,500	2,520	-	-	5,631,225	214,146	0.60	.024
Barley, pot and pearl lb.	3,900,476	128,081	140,577	26,542	-	-	4,041,053	154,623	0.43	.017

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