

32-215 (7)

STATISTICS STATISTIQUE
CANADA CANADA
APR 16 2010
LIBRARY
BIBLIOTHÈQUE

CANADA

DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

REPORT
on
THE FLOUR MILLING INDUSTRY
in
CANADA
1920

----- + + + -----

Published by Authority of the Hon. J. A. Robb, M. P.,
Minister of Trade and Commerce.

----- + + + -----

OTTAWA
MARCH
1922

35-512 (1)

RECEIVED
FEBRUARY 1950

NOV 18 1949

RECEIVED
FEBRUARY 1950

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA CANADA

Dominion Statistician: R. H. Coats, B.A., F.S.S.
Chief, Census of Industry: J. C. Macpherson.

THE FLOUR MILLING INDUSTRY, 1920.

The present report on the Flour Milling Industry in Canada for the calendar year 1920 covers the operations of 1,332 individual plants, distributed by provinces, as follows:-

Ontario	617
Quebec	457
Alberta	58
New Brunswick	50
Saskatchewan	45
Manitoba	44
Nova Scotia	32
Prince Edward Island	24
British Columbia ...	5

PRINCIPAL STATISTICS BY PROVINCES.

The accompanying table presents the principal statistics

of the industry by provinces for the calendar year 1920:-

Provinces	No. of mills rentg	Capital	Employ- ees	Salaries and Wages	Cost of Materials	Value of Products
		\$	No.	\$	\$	\$
Alberta ...	58	6,826,608	553	763,197	17,862,802	20,863,880
Br. Columbia	5	2,005,369	141	194,803	1,700,822	2,012,354
Manitoba ..	44	7,252,366	724	903,793	23,834,742	27,235,314
New Brunswick	50	517,515	83	79,636	1,361,559	1,674,091
Nova Scotia .	32	247,751	44	37,846	555,307	692,898
Ontario	617	35,083,283	3,817	4,453,498	115,911,508	135,055,616
P.E. Island ..	24	184,294	29	15,571	442,898	577,043
Quebec	457	12,416,837	1,074	1,315,360	29,114,147	34,090,774
Saskatchewan	45	4,304,904	620	807,800	14,962,761	17,053,491
CANADA	1,332	68,838,927	7,085	8,571,504	205,746,546	239,255,461

PRODUCTION.

The value of production shows a decrease, when compared with that of 1919, amounting to \$23,507,931, which is entirely accounted for under the single item of wheat flour, the drop in production for this item being 4,183,569 barrels, of the value of \$28,175,458. Increases are shown in chopped grains, cornmeal and corn flour, cereal products and other products not specified to make up the difference in the figures quoted above. The accompanying table shows the quantity and selling value at the mill of each of the various classes of products:-

Articles produced	Unit of measure	Quantity	Selling value at mill
Wheat flour -			\$
Standard, patent and clears	bbls.	13,127,320	153,117,662
Low grade or feed	"	531,394	4,689,187
Shorts and middlings	ton.	286,961	14,505,864
Bran	"	193,280	8,630,109
Chopped grain feed	"	661,310	39,381,047
Oatmeal	lb.	9,105,431	475,462
Rolled oats	"	113,736,786	7,279,407
Barley -			
Pot and pearl	"	4,356,276	250,305
Flour and meal	"	2,473,719	68,528
Rye flour and meal	"	7,604,226	365,061
Corn -			
Flour	lb.	5,593,221	281,578
Meal	"	35,947,180	1,615,094
Cracked	"	17,209,179	718,668
Buckwheat flour	"	5,834,913	308,640
Peas -			
Meal ..	lb.	517,533	22,031
Split	"	4,439,824	282,480
Offal, not otherwise specified	ton	69,949	3,441,241
All other cereal products(value only)	-	-	1,222,949
All other products (value only)	-	-	2,600,048
TOTAL SELLING VALUE OF PRODUCTS			239,255,461

CAPITAL INVESTMENT.

The amount of capital represented in the industry as a whole in 1920 shows a decrease of \$7,572,496, when compared with 1919. The reduction is confined to materials on hand, stocks in process, finished products and miscellaneous supplies on hand, and to cash, trading and operating accounts, etc., the total decrease amounting to \$10,124,242. On the other hand the items of land, buildings, fixtures and machinery and tools show an increase of \$2,551,746 in value. A table showing the capital invested by items and by provinces is appended:-

Provinces	Land, build- ings and fixtures	Machinery and tools	Materials on hand stocks in process, etc	Cash, trad- ing and operating accts, etc.	Total Capital
CANADA	\$ 25,285,543	\$ 15,068,491	\$ 13,698,594	\$ 14,786,299	\$ 68,838,927
Alberta ...	1,502,147	938,066	1,873,566	2,512,829	6,826,608
Br. Columbia	452,041	402,256	627,241	523,831	2,005,369
Manitoba ..	2,825,011	1,603,507	916,530	1,907,318	7,252,366
New Brunswick	161,391	174,037	93,711	87,776	517,915
Nova Scotia.	97,259	90,758	27,061	32,673	247,751
Ontario	13,784,853	8,487,876	7,290,850	5,519,704	35,083,283
P.E. Island .	103,350	72,150	4,708	4,086	184,294
Quebec	5,430,821	2,727,455	1,457,828	2,800,733	12,416,837
Saskatchewan	928,070	572,386	1,407,099	1,397,349	4,304,904

2.

THE FLOUR MILLING INDUSTRY, 1920.

EMPLOYEES, SALARIES AND WAGES.

The numbers of persons engaged in the industry in 1920 are given by classes of employment, sex, and salary and wage payments in the accompanying table. The total number of persons engaged during the year shows a decrease, when compared with 1919, of 316, while on the other hand, salary and wage payments show an increase for the year amounting to \$488,234.

Classes of Employment	No. of Employees		Salaries and Wages
	Male	Female	
Officers, superintendents, managers	403	7	1,255,842
Clerks, stenographers and other salaried employees	822	304	1,462,322
Wage earners, average number	5,373	176	5,853,340
TOTALS	6,598	487	8,571,504

A further classification of employees by age and sex, according to weekly wage payments within specified groups of weekly earnings, as at December 15th, is presented in the following summary table. Of the total of 5,714 employees, 4,996, or 87.4 per cent, received more than \$15 per week.

Groups of Weekly Wage Earnings	Over 16 yrs.		Under 16 yrs.		Total Employees
	Male	Female	Male	Female	
	No.	No.	No.	No.	
Under \$5 per week	3	-	1	-	4
\$5 but under \$10 per week .	61	8	3	-	72
\$10 " " \$15 " " .	537	98	7	-	642
\$15 " " \$20 " " .	1,112	28	-	-	1,140
\$20 " " \$24 " " .	916	16	-	-	932
\$24 " " \$28 " " .	1,775	4	-	-	1,779
\$28 " " \$30 " " .	326	-	-	-	326
\$30 per week and over	819	-	-	-	819
TOTALS	5,549	154	11	-	5,714

OTHER LABOUR STATISTICS.

The total days that mills were in actual operation, the number of hours worked per day or shift and the number of hours worked per week, and the averages of each per mill are presented in the accompanying table by provinces:-

Provinces	No. of mills rptg.	TOTAL OF		Averages per mill		
		Days in operation	hours per day	Days in operation	hours worked per day	hours worked per wk.
Alberta ...	58	9,678	532	166.86	9.18	54.86
Br. Columbia	5	1,176	46	235.20	9.20	52.80
Manitoba ..	44	7,888	421	179.27	9.57	57.04
New Brunswick	50	8,952	450	179.04	9.00	53.90
Nova Scotia	32	4,411	312	137.84	9.75	58.47
Ontario ...	617	140,656	5,763	227.96	9.34	55.73
P.E. Island	24	5,043	183	210.12	7.62	45.41
Quebec	457	75,798	4,390	165.86	9.60	57.50
Saskatchewan	45	7,676	435	170.58	9.66	57.90
CANADA	1,332	261,278	12,532	196.15	9.41	56.22

THE FLOUR MILLING INDUSTRY, 1920.

EQUIPMENT AND CAPACITY.

The accompanying table shows the equipment and also the capacity per 24 hours of the mills reporting for the calendar year 1920:-

Provinces	Pairs of Rolls	Pairs of Stones	Capacity per day of 24 hours in barrels
CANADA	5,444	921	134,702
Alberta	399	4	10,366
British Columbia	40	5	1,078
Manitoba	504	16	13,355
New Brunswick	138	15	3,003
Nova Scotia	79	34	900
Ontario	2,808	140	67,278
Prince Edward Island ..	84	35	694
Quebec	1,054	609	20,308
Saskatchewan	338	3	8,630

MATERIALS USED.

The quantity and cost value delivered at the mill of the various grains ground or milled during the year, and also the cost of containers is shown in the following table under two heads (a) merchant grinding and (b) custom or exchange grinding. An additional column showing the cost per bushel of the various grains delivered at the mill is also presented:-

Kinds of Grain	Merchant grind-	Custom grind-	Total cost laid down at mill	Cost per bushel
	ing	ing		
	Bushel	Bushel	\$	\$
Wheat	59,379,298	1,737,082	151,094,418	2.472
Oats	8,909,445	4,270,900	12,953,378	.978
Barley	823,521	964,347	2,196,460	1.229
Rye	240,171	51,338	477,012	1.616
Corn	1,880,039	178,545	3,007,466	1.460
Buckwheat	95,813	388,328	622,446	1.285
Peas	99,383	55,897	302,392	1.947
Mixed grains for chopping	1,018,841	20,845,135	23,985,186	1.097
Other grains ...	1,080,130	136,259	380,085	.312
Cost of containers	-	-	10,728,103	-

TOTAL COST OF MATERIALS

205,746,546

FUEL CONSUMPTION.

The quantity and the cost value delivered at the mill of the different classes of fuel used during the year are shown by origin in the subjoined table:-

Classes of fuel	Unit of measure	Canadian		Foreign	
		Quantity	Cost Value	Quantity	Cost Value
			\$		\$
Bituminous coal ..	ton	18,680	123,208	29,106	237,338
Anthracite coal ..	"	-	-	1,713	20,052
Signite coal	"	39,011	171,116	16	130
Coke	"	2	20	24	296
Gasoline	gal.	65,177	27,744	-	-
Oil, fuel	"	9,412	1,147	-	-
Wood	cds.	10,268	45,566	-	-
Gas, artificial or natural ..	m.c.ft.	18,984	7,537	-	-
Other fuel, not specified		-	34,186	-	-
TOTALS			410,524		257,816

POWER STATISTICS.

The power employed in the industry is shown by kinds or classes in the table below, according to (a) the number of units of each class, (b) the total horsepower according to manufacturers rating, and (c) the horsepower actually employed. The horsepower of boilers is also stated, but is not considered in the totals of power.

Kinds of power used	Number of units	H. P. according to manufacturer's rating	H.P. actually employed
Boilers	231	17,828	12,706
Engines, steam	227	17,871	14,921
gas	47	3,134	2,696
gasoline and oil	181	3,331	3,202
Waterwheels or turbines	1,134	44,106	37,029
Water motors	8	321	295
Electric motors	1,135	50,812	38,220
Other powers, not specified	4	270	100
TOTAL POWER	2,736	119,845	96,463

MISCELLANEOUS EXPENSES.

Miscellaneous or overhead charges connected with the industry are shown in the following summary:-

Rent of offices, works and machinery	\$ 491,408
Rent of power	804,312
Insurance (Premiums for year only).	779,079
Taxes, municipal, provincial, federal	719,224
Royalties, use of patents, etc.....	12,769
Advertising expenses	372,735
Travelling expenses	797,075
Repairs to buildings and machinery	1,247,658
All other sundry expenses	4,616,405

TOTAL \$ 9,840,675

IMPORTS, EXPORTS AND CONSUMPTION.

The quantity and value of mill products, grains, etc., imported into Canada for consumption and the quantity and value of similar goods, the produce of Canada, exported, together with a statement showing available consumption of the principal mill products for the Dominion are presented in the following tables for the calendar year 1920.

IMPORTS (Calendar year)

Articles	Quan.	Value
MILL PRODUCTS -		
Wheat flour	bb1. 25,561	280,403
Buckwheat meal & flour ...	cwt. 1,528	10,411
Cornmeal	bb1. 32,634	259,017
Malt flour.....	lb. 354,441	20,445
Rye flour	bb1. 2,707	18,843
Oatmeal	lb. 11,569	1,287
Barley, pot and pearl ..	lb. 121,919	30,937
Peas, split	lb. 137,420	8,548
Hominy	-	10,365
Cereal foods in packages	lb. 965,815	125,820
Cereal foods, n.o.p.....	-	37,627
Bran and mill feed	-	108,746
TOTAL VALUE	MILL PRODUCTS IMPORTED	\$ 912,449

GRAINS -		
Barley	bu. 13,966	21,267
Buckwheat	" 22,208	28,943
Corn	" 10,346,516	15,247,930
Oats	" 1,346,134	1,035,439
Peas, whole	" 93,022	384,937
Rye	" 4,513	10,218
Wheat	" 110,507	253,566
TOTAL VALUE	GRAINS IMPORTED	16,982,330

EXPORTS (Calendar year)

Articles	Quantity	Value
MILL PRODUCTS -		
Bran, shorts, etc.....	cwt. 553,018	1,127,202
Cornmeal	bb1. 23,393	182,874
Malt	bu. 582,925	1,275,306
Oatmeal and rolled oats ..	cwt. 380,800	2,355,031
Rye flour	bb1. 24,095	206,467
Peas, split	bu. 54,632	245,516
Screenings	cwt. 1,016,316	852,551
Wheat flour	bb1. 4,730,037	55,302,988
All other meals, n.o.p.....	bb1. 864	6,879
TOTAL VALUE	MILL PRODUCTS EXPORTED	61,544,864

GRAINS /		
Barley	bu. 9,423,932	13,508,823
Buckwheat	" 172,915	247,570
Corn	" 19,168	41,787
Oats	" 14,793,752	15,269,480
Peas, whole	" 83,835	482,247
Rye	" 2,998,339	5,875,466
Wheat	" 123,059,911	312,312,765
TOTAL VALUE	GRAINS EXPORTED	347,738,138

THE FLOUR MILLING INDUSTRY, 1920.

PRINCIPAL MILL PRODUCTS AVAILABLE FOR CONSUMPTION IN CANADA, 1910, (Calendar year)

Articles	Production		Imports		Exports		Available for consumption		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Wheat flour	bbl.	134,127,320	\$ 153,117,662	25,561	\$ 280,403	4,730,037	55,302,988	8,422,844	98,095,077
Oatmeal and rolled oats	lb.	122,842,217	7,754,869	11,569	1,287	38,080,000	2,345,081	84,773,786	5,411,075
Cornmeal	lb.	35,947,180	1,615,054	6,396,264	259,017	4,585,028	182,874	37,758,416	1,691,197
Rye flour	lb.	7,604,226	365,061	530,572	177,437	4,722,620	206,457	3,412,178	177,437
Barley, pot and pearl	lb.	4,356,276	250,305	121,919	30,937	none reported		4,478,195	281,242
Buckwheat flour	lb.	5,834,913	308,840	152,800	10,411	none reported		5,987,713	319,251
Peas, split	lb.	4,439,824	292,480	137,420	8,548	3,277,920	245,516	1,299,324	45,512

The following table shows the per capita quantities and values of the principal mill products available for consumption in Canada for the calendar year 1920, based on a total population of 8½ millions.

Articles	Quantity per capita	Value per Capita
Wheat flour . . . . .	.96	\$11.21
Oatmeal & rolled oats	9.70	.62
Cornmeal	4.31	.19
Rye flour . . . . .	.39	.02
Barley, pot & pear . . . . .	.51	.032
Buckwheat flour . . . . .	.68	.037
Peas, split . . . . .	.15	.005

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010751759