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THE FLOUR MILLING INDUSTRY 1959

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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries in the **Foods, Beverages and Tobacco Major Group** are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

Catalogue number		Per copy	Per year	Catalogue number		Per copy	Per year
General				Dairy Products			
32-201	Foods and Beverages - General Review	\$.50		23-201	Dairy Statistics	\$.50	
31-001	Inventories, Shipments and Orders in Manufacturing Industries		\$4.00	32-002	Dairy Factory Production (Monthly)10	\$1.00
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32-218	Fruit and Vegetables Preparations Industry50		32-225	Tobacco and Tobacco Products Industries50	

Note: In addition, several special statements are available. These include Monthly Meat Products, Monthly Stocks of Canned Foods, Monthly Production of Alfalfa Meat, Quarterly Bread and Bakery Products, 20 Seasonal Commodity Reports of Canned Fruits and Vegetables including Irish Potatoes.

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or

plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

THE FLOUR MILLING INDUSTRY

1959

This industry, which has existed to meet domestic needs for more than 300 years, is one of the Dominion's oldest manufactures, but it is only within recent times that its progress has become spectacular. The 71 flour mills, many of them of the most modern type and of the highest efficiency, have a capacity far in excess of Canada's demands.

The war of 1914-18 and the demand it created gave a great impetus to this trade. During 1928 productive capacity reached about 121,000 barrels per day. During the depression the industry was adversely affected by the difficulties which beset the Canadian grain trade and the great decline in the prices of grains. Exports of wheat flour declined from 10,737,266 barrels in 1928 to 3,911,886 barrels in 1938, but in spite of this decrease, Canada continued to be one of the leading exporters of wheat flour. A further impetus was given to the industry as a direct result of the large import requirements of Great Britain and other allied countries during the second great war. Exports of wheat flour to all countries which averaged about 14,000,000 barrels during the war years decreased to 11,144,214 barrels in 1953 and to 10,074,061 barrels in 1954. The heavy demand for Canadian flour in foreign markets during the war years was a great boon to Canadian agriculture, inasmuch as it made it possible for flour mills to make available large quantities of mill feeds which otherwise would not have been produced. Farmers were thus able to obtain sufficient livestock feeds to fulfill Canada's commitments for the export of cheese and bacon.

Previous to the publication of the 1953 report, and in addition to the Breakfast Foods Industry, there were two annual publications dealing with grain mill products:

- (a) The Flour and Feed Milling Industries.
- (b) The Prepared Stock and Poultry Feeds Industry.

The first report mentioned above included separate statistical data on the Flour Milling Industry and analyzed in detail all those establishments which manufacture flour. In addition, these establishments manufacture any or all of the commodities usually associated with the feed industry. In the same report, a summary of the Feed Milling Industry, which included establishments that manufacture principally chopped grain feeds on a merchant or custom basis, was included. These establishments may have also produced prepared stock and poultry feeds, but if the volume of such prepared feeds exceeded four hundred tons, they were classified to the Prepared Stock and Poultry Feeds Industry.

The report on the Prepared Stock and Poultry Feeds Industry presented the detail of firms specializing in the manufacture of prepared stock and

poultry feeds. These firms did not manufacture flour and their production of feeds had to be in excess of 400 tons. This group of establishments may have produced, at the same time, any other grain mill products.

Currently, it became necessary for the Bureau to publish data which would allow industry to assess what proportion of the livestock population the output of their plant was feeding. While this situation could not be met entirely, since feed production is spread over numerous industries, approximately 98 per cent by volume of all primary and secondary feeds could be presented in one report by removing feed milling establishments from the Flour and Feed Milling Industry and combining these with those of Prepared Stock and Poultry Feeds. Beginning in 1953, reports on the grain milling industries are now published as follows:

- (a) **The Flour Milling Industry** includes all establishments which produce wheat flour in any quantity. Therefore it would necessarily include feeds in any form manufactured by these establishments, with one exception. Some of the larger milling companies which conduct separate feed milling divisions, provide two reports; one covering their flour milling activity and the second covering their feed production activities. In this latter case, the feed report is included in the Feeds Industry.
- (b) **The Feeds Industry** — This group includes all establishments which manufacture prepared feeds, chopped grain feeds on own account and carry on a service operation of custom milling and chopping. This group, however, does not include those establishments which manufacture flour and which may produce, in addition, prepared and chopped grain feeds. Historically, the Feed Milling Industry as it existed prior to 1953, has now been removed from its statistical association with flour milling and has been combined with the former Prepared Stock and Poultry Feed Industry. The Industry will henceforth be referred to as the Feeds Industry.
- (c) **The Breakfast Foods Industry** includes all firms which manufacture prepared breakfast foods. The industry also includes some of the large flour milling companies which maintain separate specialized cereal divisions.

In 1950, the statistical treatment of the Flour Milling Industry and that of the Feed Milling Industry changed considerably, primarily in the treatment of custom grinding and custom milling. Up to and including 1949, custom grinding and milling had been converted, for statistical purposes, to a merchant grinding and milling basis, whereby the volume of custom ground and milled grains was valued at the

average cost of merchant grains reported. These two values were added to give the total gross value of shipments. In 1950, the method of estimating gross value was changed. Only the amount received for service rendered is considered as part of the gross value of shipments, no account being taken of the value of grains supplied for custom. Historically, principal statistics in Table 1 have been made comparable beginning with the 1953 report. It should be noted that this change in the statistical treatment does not affect the net value of production for the industry. The volume of grains used for custom chopping and milling, together with the custom charge are shown in Table 4, page 9.

Value added by manufacture (net value) is shown in column 6, Table 1 and in Table 4. Prior to 1952 the value added by manufacture was computed by subtracting the cost of fuel and electricity and the cost of materials from the gross value of production. In 1952 and 1953 value of production was not available and value of shipments was used.

In 1954 and 1955, only the change in opening and closing inventories of finished goods was taken into account in calculating the value added. In 1956 and later years the change in goods in process inventories was added to the change in finished goods inventories and the total applied to the "Value of factory shipments" to arrive at the "Value of production". When the "Value of production" was determined in this manner, the total of the cost of raw materials and fuel and electricity was subtracted to arrive at the "Value added by manufacture".

It will be noted that data contained in Tables 4; 11 and 13 vary greatly from similar tables presented in prior years. This results from the fact that only the larger firms were surveyed on the subject matter contained in these three tables.

The following Table, using the change in the value of inventories, is given to show how "Value added by manufacture" was determined.

Year	Value of factory shipments	Change in inventory	Value of production	Cost of materials	Cost of fuel and electricity	Value added by manufacture ¹
thousands of dollars						
1951 ²	—	—	280,866	242,132	1,656	37,078
1952	274,208	—	—	236,194	1,653	36,361
1953	266,431	—	—	224,518	1,650	40,262
1954	232,363	-333	232,030	195,322	1,676	35,032
1955	221,895	+370	222,264	185,004	1,721	35,539
1956	221,770	+177	221,946	187,100	1,775	33,071
1957	204,376	+223	204,599	168,635	1,775	34,189
1958	218,321	+300	218,621	173,438	1,818	43,365
1959	222,898	+235	223,133	169,770	1,815	51,548

¹ Historical series on "Value added by manufacture" included in Table 1.

² Previous years were computed as in 1951.

The gross value of shipments in the Flour Milling Industry in 1959 amounted to 222,897,517, an increase of some \$4 million over the previous year when \$218,321,216 was reported. By commodities, wheat flour accounted for 77 per cent of the total gross value of shipments and amounted to more than \$107 million; of this total, more than \$12 million was reported for all grades of enriched flour. Almost \$28 million worth of bran shorts and middlings were shipped and ranked this commodity second in importance in the industry. Shipments of rolled oats and

prepared cake mixes amounted to \$7,881,054 and \$4,821,613 respectively. In 1959 the total cost of raw materials used amounted to \$169,769,857. This included 2,679,611 tons of wheat valued at \$141 million which was the largest single item consumed. Cost of fuel and electricity in 1959 decreased \$3,198 to \$1,815,297 and salaries and wages paid increased \$870,105 over 1958, while the number of employees reported was 4,234 a decrease of 178 from the previous year.

TABLE 1. Principal Statistics for the Years, 1926-59¹

	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value added by manufacture ²	Selling value of factory shipments
	number		dollars				
1926	442	5, 118	6, 486, 285	1, 315, 523	145, 989, 909	11, 640, 418	158, 945, 850
1928	423	5, 285	6, 745, 415	1, 515, 995	144, 868, 517	16, 734, 990	163, 019, 502
1929	409	5, 308	6, 714, 960	1, 374, 168	130, 437, 426	16, 814, 326	148, 625, 920
1930	382	4, 673	5, 885, 224	1, 263, 406	102, 823, 717	13, 544, 439	117, 631, 562
1933	413	4, 153	4, 422, 689	1, 032, 262	51, 719, 587	11, 074, 398	63, 826, 247
1934	435	4, 263	4, 443, 991	1, 060, 177	61, 392, 000	12, 418, 591	74, 870, 768
1937	335	4, 469	5, 069, 315	966, 093	94, 016, 740	12, 359, 527	107, 342, 360
1939	303	4, 540	5, 621, 370	1, 020, 119	59, 164, 699	16, 064, 541	76, 249, 359
1941	288	4, 896	6, 733, 703	1, 244, 710	91, 222, 378	17, 056, 209	109, 523, 297
1942	281	4, 999	7, 465, 544	1, 237, 630	98, 182, 809	21, 355, 939	120, 776, 378
1944	224	5, 461	8, 925, 161	1, 449, 907	153, 579, 588	17, 948, 448	172, 977, 943
1945	195	5, 654	9, 630, 553	1, 540, 758	158, 499, 853	21, 321, 130	181, 361, 741
1946	184	6, 012	10, 884, 848	1, 740, 270	185, 219, 470	24, 613, 288	211, 573, 028
1947	174	6, 220	12, 603, 961	1, 899, 560	230, 467, 746	30, 762, 112	263, 129, 418
1948	170	5, 334	11, 882, 590	1, 701, 302	220, 068, 533	29, 425, 720	251, 195, 555
1949	133	5, 033	11, 965, 400	1, 526, 578	215, 404, 869	24, 318, 787	241, 250, 234
1950	118	4, 903	11, 917, 625	1, 515, 218	213, 755, 757	31, 336, 800	247, 107, 775
1951	108	4, 864	13, 596, 597	1, 656, 382	242, 132, 072	37, 078, 324	280, 866, 778
1952	100	4, 961	14, 688, 635	1, 652, 958	236, 194, 234	36, 360, 848	274, 208, 040
1953	95	4, 962	14, 946, 310	1, 650, 066	224, 518, 387	40, 262, 095	266, 430, 548
1954	85	4, 934	15, 436, 871	1, 676, 219	195, 322, 299	35, 031, 653	232, 363, 041
1955	77	4, 853	15, 478, 817	1, 721, 399	185, 004, 008	35, 538, 807	221, 894, 538
1956	76	4, 572	15, 102, 725	1, 775, 351	187, 100, 113	33, 071, 027	221, 769, 944
1957	73	4, 417	15, 214, 225	1, 775, 220	168, 634, 527	34, 189, 050	204, 376, 285
1958							
Canada	71	4, 412	15, 949, 136	1, 818, 495	173, 438, 129	43, 364, 618	218, 321, 216
Quebec	4	677	2, 645, 355	237, 121	31, 771, 917	7, 014, 557	38, 953, 617
Ontario	40	1, 778	6, 712, 311	774, 344	70, 972, 443	15, 346, 301	87, 346, 778
Manitoba	7	497	1, 447, 802	189, 261	16, 015, 196	3, 649, 895	19, 604, 110
Saskatchewan and British Columbia.....	10	789	2, 950, 378	379, 098	30, 931, 407	10, 214, 990	41, 255, 487
Alberta	10	671	2, 193, 290	238, 671	23, 747, 166	7, 138, 875	31, 161, 224
1959							
Canada	71	4, 234	16, 819, 241	1, 815, 297	169, 769, 857	51, 547, 538	222, 897, 517
Quebec	4	653	2, 757, 717	234, 584	31, 416, 542	7, 097, 522	38, 871, 527
Ontario	40	1, 736	7, 225, 450	744, 890	69, 410, 837	19, 939, 385	89, 693, 761
Manitoba	7	462	1, 534, 837	215, 979	15, 412, 468	4, 153, 318	19, 900, 592
Saskatchewan and British Columbia.....	11	725	2, 935, 297	377, 604	31, 119, 771	9, 683, 888	41, 207, 537
Alberta	9	658	2, 365, 940	242, 240	22, 410, 239	10, 673, 425	33, 224, 100

¹ Profits or losses cannot be estimated from Census figures, as no data are collected for certain expense items such as interest, rent, depreciation, taxes, insurance, advertising, etc.

² See text.

TABLE 2. Factory Shipments of Products Made in the Flour Milling Industry, 1958 and 1959

Products	1958		1959		
	Quantity	Selling value at mill	Quantity	Selling value at mill	
		\$		\$	
Wheat flour:					
Spring No. 1 or Top Patent including semolina	cwt.	7,286,525	33,775,096	7,391,026	34,098,949
Spring No. 2 Patent	"	11,947,972	49,205,006	13,372,490	56,927,207
Spring No. 3 Patent (Strong Bakers or Export Patent)	"	14,088,706	56,146,648	11,567,156	46,222,235
Whole wheat and Graham flour	"	461,966	1,837,771	511,909	2,108,105
Ontario winter wheat flour	"	2,784,358	11,198,073	2,814,608	12,406,522
Durum semolina and flour	"	752,463	3,553,542	933,920	4,202,955
Lower grades of flour	"	2,705,556	9,505,130	2,646,250	9,951,136
All other	"	1,118,269	4,420,644	1,389,157	5,509,988
Total flour	"	41,145,815	169,641,910	40,626,516	171,427,097
Enriched flour, all grades combined	"	24,874,718	105,690,137	24,752,806	107,006,851
Non-enriched flour, all grades combined	"	16,271,097	63,951,773	15,873,710	64,420,246
Flour and meal, other:					
Prepared or self raising flour .....	..	..	..	..	..
Barley flour .....	..	..	..	..	..
Barley meal .....	..	..	..	..	..
Rye flour	ton	7,078	522,515	5,684	452,986
Rye meal	"	1,043	65,264	12,174	168,113
Corn flour .....	..	..	..	..	..
Corn meal .....	..	..	..	..	..
Buckwheat flour .....	..	..	..	..	..
Breakfast foods:					
Prepared breakfast food	ton	4,913	566,546	7,930	854,203
Oatmeal	"	38,877	7,358,776	38,249	7,881,054
Rolled oats .....	..	..	..	..	..
Rolled or flaked wheat .....	..	..	..	..	..
Unprepared breakfast foods	ton	3,542	543,517	2,364	356,676
Other products:					
Prepared cake mixes	"	9,914	5,180,971	10,514	4,821,613
Barley, pot and pearl .....	..	..	..	..	..
Corn, cracked	ton	62	3,551	..	..
Shorts and middlings	"	380,934	15,558,772	383,435	16,827,487
Bran	"	303,110	11,273,828	276,539	11,054,299
Chopped grain feed	"	18,166	934,625	22,357	1,053,520
Alfalfa meal .....	..	..	..	..	..
Offal, not otherwise specified	ton	51,711	1,056,016	51,494	1,271,196
All other products	"	26,833	1,953,697	26,653	2,028,528
Prepared stock and poultry feeds:					
Calf feeds	"	481	45,775	756	66,957
Dairy and cattle feeds	"	3,674	300,562	7,304	479,852
Swine feeds	"	8,714	627,703	11,767	756,159
Poultry feeds:					
Chick starter	"	1,895	162,184	1,236	101,452
Broiler feeds	"	3,020	261,950	2,762	224,020
Growing mash	"	1,689	128,601	1,129	83,037
Laying and hatching mash	"	6,894	547,991	4,835	368,062
Fattening and finishing feeds	"	106	8,548	161	12,735
Scratch feed	"	614	47,316	408	24,663
All turkey feeds .....	"	..	..	2,224	184,239
Other mixed feeds	"	1,078	63,352	7,169	569,139
Mixed concentrates .....	..	..	..	..	..
Amount received in payment for work done on materials owned by others .....	..	..	173,229	..	162,233
Totals .....	..	..	218,321,216	..	222,897,517

.. Figures not available.

TABLE 3. Materials Used in Flour Mills, 1958 and 1959

Materials	1958		1959	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Wheat	2,804,113	146,662,858	2,679,611	141,392,326
Oats	99,477	4,424,912	92,683	4,387,148
Barley	10,397	464,048	7,895	351,370
Rye	12,775	514,832	12,194	506,624
Corn	14,835	794,944	14,528	785,680
Buckwheat	485	20,014	541	27,042
Peas	—	—	1	180
Mixed grain for chopping	5,500	240,506	1,604	50,191
Other grains	788	28,708	1,524	33,091
Alfalfa	529	32,505	493	33,025
Vitamins	—	900,739	—	909,084
Mill feeds (bran, etc.)	4,323	173,737	3,215	129,252
Concentrates (all kinds)	4,255	421,853	2,169	215,878
Other ingredients used	5,561	451,877	3,052	329,105
All other materials including chemicals	—	3,236,532	—	6,032,240
Cost of containers purchased	—	13,774,187	—	13,143,714
Operating, maintenance and repair supplies	—	1,285,877	—	1,442,907
Totals¹	—	173,438,129	—	169,769,857

¹ Does not include office supplies used which amounted to \$192,070 in 1958 and \$198,186 in 1959.

TABLE 4. Grains Used for Custom Chopping and Milling for Canada and the Provinces, 1959^{1,2}

	Wheat	Oats	Barley	Rye	Corn	Buckwheat	Peas	Mixed grains	Total grains	Amount received for custom work
	tons									\$
Canada	437	795	3,885	—	—	—	—	3,945	9,062	20,468
Quebec	223	—	—	—	—	—	—	—	223	894
Ontario	60	335	3,081	—	—	—	—	2,373	5,849	13,134
Manitoba	—	—	—	—	—	—	—	—	—	—
Saskatchewan and British Columbia	—	—	—	—	—	—	—	—	—	—
Alberta	154	460	804	—	—	—	—	1,572	2,990	6,440

¹ See also The Feed Milling Industry.

² Collected only for establishments generally reporting value of shipments of \$500,000 and over.

TABLE 5. Principal Statistics classified according to Type of Ownership, 1958 and 1959

Type	Establishment	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1958					
Individual ownership	11	45	99,639	1,024,968	1,240,815
Partnerships	11	70	229,304	1,282,928	1,604,401
Incorporated companies	47	4,297	15,620,193	171,130,233	215,476,000
Co-operatives	2				
Totals	71	4,412	15,949,136	173,438,129	218,321,216
1959					
Individual ownership	9	32	76,487	789,682	962,549
Partnerships	11	63	219,501	1,276,370	1,596,175
Incorporated companies	49	4,139	16,523,253	167,703,805	220,338,793
Co-operatives	2				
Totals	71	4,234	16,819,241	169,769,857	222,897,517

TABLE 6. Consumption of Flour in Canada for Years, 1956-59

	1956	1957	1958	1959
	hundredweight			
Production.....	40,052,819	37,358,649	41,145,815	40,530,625
Imports.....	9,318	1,541	719	943
Totals	40,062,137	37,360,190	41,146,534	40,531,568
Exports.....	16,821,732	14,914,793	17,227,221	16,579,985
Available for consumption.....	23,240,405	22,445,397	23,919,313	23,951,583

TABLE 7. Size of Establishments, 1958 and 1959

Establishments having a production of	Estab-lish-ments	Em-ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1958					
Under \$50,000.....	12	29	51,287	106,068	192,055
\$ 50,000 to \$ 99,999.....	4	20	54,577	181,371	271,091
100,000 " 199,999.....	9	69	212,226	946,248	1,252,674
200,000 " 499,999.....	8	85	278,618	1,616,471	1,964,194
500,000 " 999,999.....	7	117	405,057	3,863,428	4,434,366
1,000,000 " 4,999,999.....	14	594	2,042,158	27,437,998	33,532,441
5,000,000 and over.....	17	3,498	12,905,213	139,286,545	176,674,395
Totals	71	4,412	15,949,136	173,438,129	218,321,216
1959					
Under \$50,000.....	13	29	59,150	146,424	240,370
\$ 50,000 to \$ 99,999.....	5	23	72,770	328,090	435,909
100,000 " 199,999.....	6	39	121,830	554,260	753,282
200,000 " 499,999.....	10	107	392,998	2,300,706	2,850,104
500,000 " 999,999.....	5	80	271,269	2,575,624	2,898,634
1,000,000 " 4,999,999.....	13	442	1,664,420	20,374,824	25,532,822
5,000,000 and over.....	19	3,514	14,236,804	143,489,929	190,186,396
Totals	71	4,234	16,819,241	169,769,857	222,897,517

TABLE 8. Capital, Repair and Maintenance Expenditures, 1951-59

Year	Capital expenditures			Repair and maintenance expenditures			Capital, repair and maintenance expenditures		
	Con-struction	Machinery and equipment	Sub-total	Con-struction	Machinery and equipment	Sub-total	Con-struction	Machinery and equipment	Total
	thousands of dollars								
1951.....	403	1,527	1,930	364	1,547	1,911	767	3,074	3,841
1952.....	513	1,689	2,202	241	1,626	1,867	754	3,315	4,069
1953.....	224	955	1,179	496	1,567	2,063	720	2,522	3,242
1954.....	520	2,040	2,560	330	1,340	1,670	850	3,380	4,230
1955.....	471	2,064	2,535	465	1,236	1,701	936	3,300	4,236
1956.....	507	2,851	3,358	494	1,133	1,627	1,001	3,984	4,985
1957.....	347	1,773	2,120	501	1,045	1,546	848	2,818	3,666
1958.....	496	2,310	2,806	477	1,283	1,760	973	3,593	4,566
1959 ^P	156	1,024	1,180	393	1,137	1,530	549	2,161	2,710

^P Preliminary figures.

TABLE 9. Employees, Salaries and Wages, 1958 and 1959

Year and provinces	Employees on salaries			Employees on wages			Total employees salaries and wages		
	Male	Female	Total salaries	Male	Female	Total wages	Male	Female	Salaries and wages
	number		\$	number		\$	number		\$
1958									
Canada	1,004	431	5,675,117	2,843	134	10,274,019	3,847	565	15,949,136
Quebec.....	207	57	1,064,231	410	3	1,581,124	617	60	2,645,355
Ontario.....	354	193	2,329,867	1,191	40	4,382,444	1,545	233	6,712,311
Manitoba.....	105	45	337,532	315	32	1,110,270	420	77	1,447,802
Saskatchewan and British Columbia	210	75	1,230,417	471	33	1,719,961	681	108	2,950,378
Alberta.....	128	61	713,070	456	26	1,480,220	584	87	2,193,290
1959									
Canada	930	416	6,151,337	2,753	135	10,667,904	3,683	551	16,819,241
Quebec.....	178	65	1,161,231	406	4	1,596,486	584	69	2,757,717
Ontario.....	341	180	2,603,179	1,174	41	4,622,271	1,515	221	7,225,450
Manitoba.....	97	47	403,453	292	26	1,131,384	389	73	1,534,837
Saskatchewan and British Columbia	189	66	1,228,836	436	34	1,706,461	625	100	2,935,297
Alberta.....	125	58	754,638	445	30	1,611,302	570	88	2,365,940

TABLE 10. Production Workers by Months, 1959

	Establishments reporting monthly detail ¹	
	Male	Female
January.....	2,599	140
February.....	2,640	135
March.....	2,558	120
April.....	2,586	124
May.....	2,618	121
June.....	2,632	105
July.....	2,639	116
August.....	2,659	107
September.....	2,678	149
October.....	2,709	186
November.....	2,749	143
December.....	2,618	129
Average for establishments reporting monthly detail.....	2,641	132
Average estimated for small establishments ²	112	3
Average for all establishments.....	2,753	135

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over.

² For establishments generally reporting value of shipments of less than \$500,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 11. Daily Capacity and Production of Flour Mills, by Size Groups, 1959¹

Capacity of mills per day of 24 hours by size groups	Number of mills	Daily capacity			Wheat flour production		
		Total	Per cent	Average per establishment	Total	Per cent	Average per establishment
		cwt.		cwt.	cwt.		cwt.
Under 200 cwt.	1	1,002	0.6	251	358,892	0.9	89,723
200 to 399 cwt.	2						
400 " 599 "	1	4,775	2.9	796	863,838	2.2	143,973
600 " 999 "	6						
1,000 " 1,999 "	7	9,160	5.6	1,309	1,983,909	4.9	283,416
2,000 " 5,999 "	12	42,920	26.4	3,577	10,751,912	26.8	895,993
6,000 " 9,999 "	7	55,900	34.4	7,986	15,339,086	38.2	2,191,298
10,000 cwt. and over	4	49,000	30.1	12,250	10,849,013	27.0	2,712,253
Totals and averages	40	162,757	100.0	4,069	40,146,650	100.0	1,003,666

¹ Collected only for establishments generally reporting value of shipments of \$500,000 and over.

TABLE 12. Inventory Values, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total inventory
dollars				
Opening inventory: ¹				
Canada	27,136,619	30,899	4,418,608	31,586,126
Quebec	5,565,674	—	623,830	6,189,504
Ontario	10,616,318	30,000	1,188,516	11,834,834
Manitoba	996,212	—	547,255	1,543,467
Saskatchewan and British Columbia	5,939,680	899	1,153,035	7,093,614
Alberta	4,018,735	—	905,972	4,924,707
Closing inventory:				
Canada	30,433,747	35,000	4,649,682	35,118,429
Quebec	6,205,700	—	500,951	6,706,651
Ontario	12,971,697	35,000	1,584,867	14,591,564
Manitoba	1,143,161	—	428,428	1,571,589
Saskatchewan and British Columbia	5,736,553	—	1,127,660	6,864,213
Alberta	4,376,636	—	1,007,776	5,384,412

¹ The opening inventory for the current year differs from the closing inventory published last year due to transfers, discards, corrections, or addition of new firms.

TABLE 13. Equipment and Capacity of Flour Mills, 1959¹

Province	Establishments	Pairs of rolls	Pairs of stones	Estimated maximum capacity per day
		number		cwt.
Quebec	4	396	—	27,100
Ontario	21	1,161	22	62,035
Manitoba	3	229	—	17,200
Saskatchewan and British Columbia	5	381	3	24,422
Alberta	7	460	—	32,000
Canada	40	2,627	25	162,757

¹ Collected only for establishments generally reporting value of shipments of \$500,000 and over.

TABLE 14. Imports of Milled Products and Grains by Quantity and Value, 1958 and 1959

Articles imported	1958		1959	
	Quantity	Value	Quantity	Value
		\$		\$
Milled products:				
Wheat flour	cwt. 719	4,029	943	5,955
Buckwheat meal and flour	—	—	—	—
Cornmeal	bbl. 44,656	291,695	68,047	444,560
Malt flour	lb. 236,698	20,951	226,970	19,729
Rye flour	bbl. 2,254	13,608	—	—
Oatmeal and rolled oats	lb. 5,169	615	2,075	246
Barley, pot and pearl	—	—	—	—
Hominy, cracked, ground, etc.	cwt. 152,775	556,511	165,562	528,763
Bran and mill feed	" 70,127	61,155	41,598	68,501
Cereal food in packages	lb. 3,644,816	757,339	4,032,300	843,186
Cereal foods, n.o.p.	—	439,386	—	343,814
Semolina	—	—	—	—
Total value of milled products imported	—	2,145,289	—	2,254,754
Grains:				
Wheat	bu. 788	1,545	2,657	9,574
Oats	" 270	397	2,119	2,180
Barley, buckwheat and rye	" 134	201	3,806	3,745
Corn for all purposes	" 12,904,010	16,537,898	12,054,166	14,730,040
Total value of grains imported	—	16,540,041	—	14,745,539

TABLE 15. Exports of Milled Products and Grains by Quantity and Value, 1958 and 1959

Articles exported	1958		1959	
	Quantity	Value	Quantity	Value
		\$		\$
Milled products:				
Rye flour.....	—	—	—	—
Wheat flour..... cwt.	17,227,221	69,398,340	16,579,985	64,903,079
Oatmeal and rolled oats..... "	57,229	650,613	90,710	1,144,096
Bran, shorts and middlings..... "	2,028,869	4,136,845	881,471	1,873,267
Malt..... bu.	5,596,815	10,684,501	5,858,391	10,923,206
Screenings.....	—	—	—	—
Corameal..... bbl.	39,202	324,763	37,040	298,811
All other meals, n.o.p..... cwt.	7	50	5,737	21,158
Cereal foods, prepared, all kinds.....	—	316,207	—	286,784
Total value of milled products exported.....	—	85,561,319	—	79,450,401
Grains:				
Wheat..... bu.	271,795,867	446,078,067	263,720,885	441,829,508
Oats..... "	16,956,506	13,015,932	9,014,882	7,320,031
Barley..... "	74,622,732	78,118,327	62,570,487	66,309,751
Corn..... "	111,102	671,211	103,319	791,130
Rye..... "	6,155,326	6,739,465	4,440,398	4,961,184
Buckwheat..... "	354,994	426,768	95,170	141,400
Total value of grains exported.....	—	545,049,770	—	521,353,004

TABLE 16. Consumption of Fuel and Electricity, 1959

Kind	Quantity	Cost at plant
		\$
Establishments reporting commodity detail:¹		
Bituminous coal:		
(a) From Canadian mines..... ton	208	3,201
(b) Imported..... "	6,049	72,038
Sub-bituminous coal (from Alberta mines only).....	—	—
Anthracite coal..... ton	379	7,087
Lignite coal..... "	6,778	37,300
Coke.....	—	—
Gasoline (including gasoline used in cars and trucks)..... Imp. gal.	477,792	183,000
Fuel oil including kerosene or coal oil..... "	1,756,066	144,298
Wood.....	—	—
Gas (a) Liquefied petroleum gases.....	—	—
(b) Other manufactured gas.....	—	—
(c) Natural gas..... M cu. ft.	172,220	51,362
Other fuel.....	—	8,403
Electricity purchased..... kwh.	131,416,484	1,208,462
Steam purchased.....	—	—
Estimate for establishments for which no data were collected:²		
Cost of fuel and electricity.....	—	100,146
All establishments:		
Total cost of fuel and electricity.....	—	1,815,297

¹ Establishments generally reporting value of shipments of \$500,000 and over.² Establishments generally reporting value of shipments of less than \$500,000.

List of Firms in the Flour Milling Industry, 1959

Name of firm	Address
Quebec:	
Eastern Canada Flour Mills Ltd.	4394 St. Ambroise St., Montreal
McDonald & Robb Limited	70 Chaussée St., Valleyfield
The Ogilvie Flour Mills Co., Ltd.	950 Mill St., Montreal
Robin Hood Flour Mills Ltd.	2110 Notre Dame St. West, Montreal
Ontario:	
Acton Flour Mills	62 Mill St., Acton
Almonte Flour Mills, Limited	P.O. Box 60, Almonte
Ancaster Mountain Mills	548 Mill St., Ancaster
Arva Flour Mills	Arva
Brooklin Flour Mills	Box 45, Brooklin
Caledonia Milling Co. Ltd.	Caledonia
Cannington Flour & Feed Mill	Cannington
Cherry & Sons Limited, S.J.	166 King St., Preston
Collingwood Milling Co., The	P.O. Box 311, Collingwood
Comber Farmers Co-operative, Inc.	Ford St., Comber
Cullen & Sons Limited, James	107 Wilson St., Woodstock
Dutton Flour Mills	Main St., Dutton
Great Star Flour Mills, Limited	Water St., St. Mary's
Hawken Milling Company	Wallaceburg
Hayhoe Bros.	Pine Grove
Hogg & Sons Ltd., George	Thamesford
Hortop & Son, W.H.	Everton
Howson & Howson, Ltd.	Blyth
King Milling Co. of Sarnia Ltd., The	209 Front St. N., Sarnia
Knechtel & Son, Limited, Wm.	Hanover
Lake of the Woods Milling Co. Ltd.	Keewatin
McCarthy Milling Co. Limited	Streetsville
Maple Leaf Milling Co. Ltd.	Port Colborne
Maple Leaf Milling Co. Ltd.	12 Monarch Rd., Toronto
Milton Milling Co. Ltd.	Martin St., Milton
Morris & Son, J.A.	P.O. Box 25, Dorchester
Paris Flour Mills	2 Grand River N., Paris
Pfrimmer Bros.	R.R. No. 4, Goderich
Phenix Mills, Limited	69 Ainslie St., South, Galt
Pillsbury of Canada Ltd.	206 King St., Midland
Quaker Oats Company of Canada Limited, The	Peterborough
Reid Milling Co. Limited	Streetville
Robin Hood Flour Mills, Limited	Humberstone
Rock & Son, John	R.R. No. 2, Tillsonburg
Smith & Son, E.L.	R.R. No. 4, Scotland
Snider Flour Milling Co. Ltd., The	St. Jacobs
Strathroy Flour Mills, Limited	Albert St., Strathroy
Tavistock Milling Company Limited, The	Tavistock
Taylor Co. Limited, The T.H.	14 William St. N., Chatham
Vanstone Flour & Feed Mill	116 King St. W., Bownamville
Manitoba:	
Benito Flour & Feed	Benito
Harrison Milling & Grain Co.	Holmfield
Kent Flour Mills, Ltd., B.P.	Virden

List of Firms in the Flour Milling Industry, 1959 - Concluded

Name of firm	Address
Manitoba - Concluded:	
Ogilvie Flour Mills Co. Ltd., The	39 Higgins Ave., Winnipeg
Maple Leaf - Purity Mills, Limited	480 Archibald St., St. Boniface
Soo Line Mills, Limited	7 Higgins Ave., Winnipeg
Steinbach Flour Mills	Steinbach
Saskatchewan:	
Esterhazy Flour Mill	Esterhazy
Quaker Oats Co. of Canada, Ltd., The	18th Street & Avenue "N", Saskatoon
Robin Hood Flour Mills, Ltd.	Fifth Ave. and High St. West, Moose Jaw
Robin Hood Flour Mills, Ltd.	First Ave. and 33rd St., Saskatoon
Saskatchewan Wheat Pool	P.O. Box 170, Saskatoon
Swift Current Flour Mills, Ltd.	Shaunavon
Swift Current Flour Mills, Ltd.	Box 1149, Swift Current
Wynyard Flour Mill	Box 84, Wynyard
Yorkton Milling Company Limited	Livingstone St., Yorkton
Alberta:	
Byers Flour Mills	Camrose
Ellison Milling & Elevator Co. Ltd.	1301 Second Ave. S., Lethbridge
Maple Leaf Milling Co. Ltd.	Medicine Hat
Ogilvie Flour Mills Co. Limited, The	10527 - 103rd St., Edmonton
Ogilvie Flour Mills Co. Limited, The	Medicine Hat
Maple Leaf Milling Co. Ltd.	14th St. E., at 17th Avenue, Calgary
Pillshury of Canada Ltd.	Bonnybrook Road, Calgary
Robin Hood Flour Mills, Ltd.	Ninth Avenue & Fourth St. W., Calgary
Vulcan Flour Mill	Vulcan
British Columbia:	
Master Baker Flour Mills, Ltd.	1315 E. Hastings St., Vancouver
Millstream Flour Mills	2550 Millstream Rd., Victoria

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