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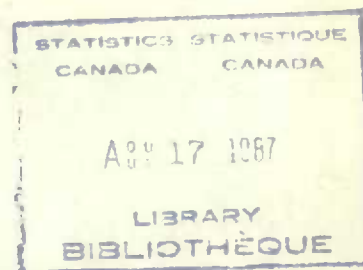
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CANADA



# FEED MANUFACTURERS

(Formerly The Feeds Industry)

1960

ANNUAL CENSUS  
OF MANUFACTURES



*Published by Authority of*

The Honourable George Hees, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

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### SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.



## EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 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. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

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 1960 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, ware-

housing 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 or 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.<sup>1</sup>

### **Standard Industrial Classification**

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

<sup>1</sup> 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*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

### **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.

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. This practice was followed again in 1960.

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.

# FEED MANUFACTURERS

1960

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

- (a) The Flour and Feed Mills 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 manufactured any or all of the commodities usually associated with the feed industry. In the same report the summary of the Feed Milling Industry included establishments which manufacture principally chopped grain feeds on a merchant or custom basis. 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", as published previous to 1953, 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.

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 activity. In this latter case, the feed report is included in Feed Manufacturers.
- (b) **The Feed Manufacturers** 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 & Poultry Feeds Industry. The Industry will henceforth be referred to as Feed Manufacturers. The number of firms transferred totalled 643 in 1953 and constituted only 13 per cent of the selling value of total shipments in the Feed Manufacturers.

- (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 breakfast foods 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 work. Historically, principal statistics in Table 1 have been made comparable beginning with the 1953 reports. It should be noted that this change in statistical treatment does not affect the value added for the industry. The volume of grains used for custom chopping and milling, together with the custom charges are shown in Table 7. Principal statistics of the industries as broken down previous to 1953 are provided in Table 1(b) and 1(c).

The gross value of production of the Feed manufacturers has increased to a remarkable degree over the twenty-one year period, 1939-60. The most rapid rise occurred during World War II and for a few years after its conclusion. In 1947, value of production had soared to almost 150 million dollars from the 1939 level of 17 millions, an increase of nearly 800 per cent in eight years. This was due, at least partially, to the increased demand for feeds created by the conversion to specialty feeding programs as well as acute shortages of farm labour.

Since 1947, the gross value of production has continued to increase but at a slower pace than in the preceding period and 1959 saw a value of production rise of slightly more than 3.4 per cent to an estimated \$295,468,000.

The 1960 statistical detail in this report, formerly The Feeds Industry, has been compiled on the basis of the new Standard Industrial Classification, revised 1960. Since the implementation of the new Standard Industrial Classification has resulted in changes in the content of the industry, principal statistics for 1957, 1958 and 1959 have been re-compiled on the revised basis for com-



parability. It is noted however that the changes in the detail resulting directly from re-classification have not been significant.

On the revised basis, the present report is compiled from the returns of 1,406 establishments, an increase of 11 plants over 1959. While employment dropped from 8,217 in 1959 to 8,065 persons in 1960, total salaries and wages increased almost half a million dollars to \$26,020,624 in the same period. Gross value of shipments amounted to \$284,574,959 dollars compared to \$296,154,074 in 1959, a decrease of about 4 per cent. Likewise cost of raw materials used in manufacture decreased approximately \$10,000,000 when a value of \$215,800,261 was reported in the current year. Value added in manufacture amounted to \$63,871,883 in 1960 but historical data on the revised basis are not available at this time.

Complete livestock feeds dropped 1.6 per cent to 2,456,218 tons in 1960. The breakdown of feeding stuffs into "concentrated" and "ready-to-feed" conforms to the regulations prescribed by the Plant Products Division of the Department of Agriculture. The protein content of feeding stuffs designated as concentrates must be at or above the level prescribed in the table below. All feeding stuffs with protein content less than this are designated "secondary or complete feeds".

Minimum protein  
level for  
concentrated feeds

	%
Calf .....	..
Dairy and cattle .....	24
Swine .....	35
Poultry (a) chick starter.....	32
(b) broiler .....	32
(c) growing .....	30
(d) laying and hatching ..	32
(e) fattening and finishing .....	32
(f) turkey.....	35
(g) other.....	..
Other animal.....	..

Feeds manufactured by firms other than those classified as Feed Manufacturers are shown in Table 8 while chopped grains from other industries are shown in a footnote to Table 7.

The number of operating firms is constantly being revised through facilities recently instituted within the Bureau. However, the co-operation of the Plant Products Division, Federal Department of Agriculture is greatly appreciated.

#### USE OF MODIFIED FORMS IN FEED MANUFACTURERS, 1960

On page 4, under "Short Forms", may be found the historical background and functions of all types of modified forms used in the Bureau to alleviate the burden on smaller establishments of reporting detailed data on their operations annually. This was a description designed to cover the general principles involved in the use of modified forms for all industries. We shall here attempt to describe the manner in which these forms are employed in Feed Manufacturers and to assess the impact which their introduction has occasioned in the 1960 survey.

In this Industry short questionnaires were forwarded to all establishments which had value of

shipments not generally in excess of \$50,000; intermediate to all between \$50,000 and \$100,000 and long to those which had value of shipments generally in excess of \$100,000. This resulted in some loss of detailed quantities and costs of fuel and electricity and of materials used and in the monthly distribution of production workers.

Nevertheless, because of the small percentage of total shipments which these establishments reporting on modified forms represent, the final results were not affected to a significant degree. This may be illustrated in tabular form as follows:

Establishments reporting on	Number of establishments	Percentage of total number of establishments	Value of factory shipments	Percentage of total value of factory shipments
			\$	
Long forms .....	447	31.8	233,182,015	81.9
Intermediate forms .....	308	21.9	30,675,487	10.8
Short forms .....	651	46.3	20,717,457	7.3
<b>Totals .....</b>	<b>1,406</b>	<b>100.0</b>	<b>284,574,959</b>	<b>100.0</b>

Thus we perceive that while 959 establishments or about 68 per cent of the total number in the Industry qualified for the use of modified forms, their total value of shipments was only 18.1 per cent of the Industry total. Hence the lack of detail

in their reports could not seriously affect the results as published.

See Table 2, page 10, for Principal Statistics grouped according to Size of Establishments.

TABLE 1 A. Principal Statistics of Feed Manufacturers, 1930-60<sup>1</sup>

Note: Cost of materials used and selling value of shipments have been revised to include the estimated value of the grains handled in custom milling for all years prior to 1950. For the year 1950, the upper line gives principal statistics on this basis and the lower line those on the new basis, excluding value of grains handled in custom milling. All later years are given on this latter basis.

	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments <sup>2</sup>
Basis: Standard Industrial Classification in use prior to 1960							
	number				dollars		
1930 .....	912	1,471	1,093,824	3	18,793,272	4,630,068	23,433,340
1931 .....	931	1,580	1,200,194	3	14,486,015	4,561,837	19,047,852
1932 .....	933	1,686	1,148,961	2	12,751,495	4,100,250	16,851,745
1933 .....	959	1,839	1,294,968	3	13,829,776	4,257,160	18,086,936
1934 .....	921	1,884	1,272,835	309,130	15,679,959	3,806,628	19,795,717
1935 .....	842	1,991	1,523,373	331,864	17,427,609	4,484,429	22,243,902
1936 .....	849	2,077	1,670,515	359,059	23,656,999	5,917,159	29,933,217
1937 .....	847	2,252	1,879,683	362,142	26,990,554	5,986,739	33,339,435
1938 .....	863	2,509	2,181,866	393,039	24,288,973	6,021,436	30,703,448
1939 .....	868	2,669	2,466,615	450,958	25,372,808	6,873,856	32,696,622
1940 .....	863	2,872	2,662,314	520,734	29,045,484	8,092,561	37,658,779
1941 .....	962	3,175	3,110,737	627,750	39,914,486	9,234,769	49,777,005
1942 .....	1,021	3,624	3,864,611	750,101	49,463,490	10,412,885	60,626,476
1943 .....	1,009	4,057	4,908,850	827,058	68,680,116	13,120,678	82,627,852
1944 .....	1,069	5,067	6,747,543	1,023,766	89,349,481	16,208,411	106,581,658
1945 .....	1,050	5,344	7,256,118	1,075,896	91,685,381	17,195,961	109,957,238
1946 .....	1,025	5,995	8,421,638	1,231,213	107,663,454	20,530,940	129,425,607
1947 .....	1,072	6,501	10,129,300	1,500,838	150,590,772	26,110,676	178,202,286
1948 .....	1,072	6,114	10,645,531	1,651,597	160,131,406	24,593,693	186,376,896
1949 .....	1,199	6,905	12,828,184	1,929,057	168,848,079	29,182,005	199,959,141
1950 .....	1,253	6,644	12,536,754	2,243,424	178,353,355	29,241,588	209,838,367
1950 .....	1,253	6,644	12,536,754	2,243,424	147,842,755	28,815,460	178,901,639
1951 .....	1,311	6,999	14,312,780	2,529,028	164,376,991	32,064,039	198,970,058
1952 .....	1,317	7,441	15,703,521	2,917,831	169,325,153	33,874,134	206,117,118
1953 .....	1,297	7,233	16,196,271	2,886,402	157,964,762	34,913,717	195,784,881
1954 .....	1,318	7,788	18,093,413	3,490,899	172,798,487	39,984,555	215,439,719
1955 .....	1,374	7,912	19,353,425	3,695,564	167,710,257	44,391,218	215,847,797
1956 .....	1,391	8,229	20,670,213	3,995,697	194,336,685	53,397,437	250,957,806
1957 .....	1,400	8,052	21,429,875	4,254,639	190,251,422	53,922,905	249,033,740
1958 .....	1,409	8,147	24,057,368	4,125,681	219,485,186	62,143,344	284,912,260
1959 .....	1,387	8,167	25,314,327	4,384,535	234,498,147	66,586,119	295,142,446
Basis: Standard Industrial Classification, revised 1960							
	number				dollars		
1957							
Prince Edward Island .....	17	63	105,716	18,823	769,898	..	997,350
Nova Scotia .....	18	109	247,804	42,445	3,723,438	..	4,542,108
New Brunswick .....	21	194	511,322	85,819	5,660,923	..	6,702,150
Quebec .....	433	2,313	5,758,731	1,146,145	61,227,405	..	77,790,551
Ontario .....	730	4,079	10,945,652	2,257,388	91,945,459	..	122,068,555
Manitoba .....	49						
Saskatchewan .....	16	690	1,946,574	321,200	15,043,648	..	20,249,371
Alberta .....	83						
British Columbia .....	39	656	2,079,696	415,433	12,833,454	..	17,603,342
Canada .....	1,406	8,104	21,595,495	4,287,253	191,204,225	..	249,953,427
1958							
Newfoundland and Prince Edward Island ..	18	66	118,996	19,795	862,543	..	1,127,587
Nova Scotia .....	17	122	301,422	42,453	4,041,776	..	5,076,609
New Brunswick .....	22	189	482,690	81,740	6,419,457	..	7,502,980
Quebec .....	451	2,650	7,330,877	1,159,460	75,640,721	..	94,477,271
Ontario .....	714	3,836	11,494,909	2,138,995	100,635,272	..	133,800,989
Manitoba .....	48						
Saskatchewan .....	15	714	2,250,465	381,776	18,253,514	..	24,218,015
Alberta .....	92						
British Columbia .....	40	627	2,289,574	343,679	14,683,415	..	19,829,158
Canada .....	1,417	8,204	24,268,933	4,167,896	220,536,696	..	286,032,909

See footnotes at end of table.



TABLE 1 A. Principal Statistics of Feed Manufacturers, 1930-60<sup>1</sup> - Concluded

	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments <sup>2</sup>
Basis: Standard Industrial Classification, revised 1960 - Concluded							
	number				dollars		
1959							
Newfoundland and Prince Edward Island ..	17	67	135,872	22,054	905,850	..	1,167,257
Nova Scotia .....	16	117	296,779	42,674	3,833,942	..	5,001,985
New Brunswick .....	22	188	497,859	83,639	7,169,804	..	8,239,160
Quebec .....	443	2,627	7,766,557	1,224,472	76,340,836	..	94,006,482
Ontario .....	704	3,849	11,844,939	2,232,914	101,445,698	..	139,034,084
Manitoba .....	48	719	2,447,252	431,588	18,823,090	..	26,154,576
Saskatchewan .....	14						
Alberta .....	91						
British Columbia .....	40	650	2,532,883	392,387	16,790,844	..	22,550,530
Canada .....	1,393	8,217	25,522,141	4,429,728	225,310,064	..	296,154,074
1960							
Newfoundland and Prince Edward Island ..	19	67	152,561	28,719	1,033,412	267,837	1,322,997
Nova Scotia .....	16	119	305,392	49,398	3,931,383	1,313,899	5,304,229
New Brunswick .....	21	205	574,352	77,935	6,545,314	1,159,300	7,770,861
Quebec .....	450	2,557	7,916,829	1,220,398	74,290,901	13,539,433	94,140,882
Ontario .....	697	3,756	12,023,069	2,250,474	95,409,302	30,587,122	128,419,780
Manitoba .....	50	258	907,108	163,646	7,012,876	2,910,330	10,130,768
Saskatchewan .....	12	111	368,783	63,365	2,275,611	846,893	3,214,823
Alberta .....	98	351	1,229,513	214,744	6,034,695	3,362,358	11,626,229
British Columbia .....	43	641	2,543,017	404,581	17,266,767	4,884,711	22,644,390
Canada .....	1,406	8,065	26,020,624	4,473,260	215,800,261	63,871,883	284,574,959

<sup>1</sup> Includes Chopping Mills (see Table 1 B) and Prepared Feed Mills (see Table 1 C).<sup>2</sup> Gross value of production for 1952 and preceding years. The selling value of factory shipments was not introduced until 1953.<sup>3</sup> Not used in computing value added.TABLE 1 B. Principal Statistics of Firms classified as Chopping Mills, 1930-59<sup>1</sup>

(Included in Table 1 A. Standard Industrial Classification prior to 1960)

	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments <sup>2</sup>
	number				dollars		
1930 .....	894	1,250	793,889	3	16,853,969	3,497,453	20,351,422
1931 .....	893	1,261	755,501	3	12,686,173	3,450,764	16,136,937
1932 .....	896	1,261	664,024	3	10,763,345	2,950,172	13,713,517
1933 .....	915	1,317	685,448	3	11,578,261	2,997,214	14,575,475
1934 .....	675	1,370	691,321	246,809	12,656,243	2,670,531	15,575,583
1935 .....	743	1,210	685,828	243,025	12,693,050	2,675,856	15,611,931
1936 .....	755	1,269	757,035	260,689	16,641,994	3,393,822	20,296,505
1937 .....	751	1,334	808,441	255,399	17,541,591	3,092,610	20,889,600
1938 .....	752	1,324	828,985	251,658	15,351,554	3,108,646	18,711,858
1939 .....	747	1,358	894,126	269,209	16,270,466	3,491,704	20,031,379
1940 .....	748	1,491	998,623	300,034	18,804,887	4,232,511	23,337,432
1941 .....	844	1,643	1,172,298	372,632	24,748,779	4,886,359	30,007,770
1942 .....	894	1,731	1,318,368	434,220	28,228,172	5,212,759	33,875,151
1943 .....	871	1,826	1,574,122	475,624	35,638,127	5,919,398	42,033,149
1944 .....	863	1,828	1,586,814	451,887	33,537,369	5,095,250	39,084,506
1945 .....	828	1,858	1,692,362	443,347	33,771,092	5,492,060	39,706,499
1946 .....	790	2,024	2,013,312	494,200	39,014,228	6,323,002	45,831,430
1947 .....	787	2,065	2,228,098	567,593	50,206,730	6,874,923	57,649,246
1948 .....	754	1,790	2,173,061	523,883	49,180,903	5,725,383	55,430,169
1949 .....	714	1,549	1,938,647	465,750	43,202,439	4,820,592	48,488,781
1950 .....	685	1,453	1,891,370	521,425	49,840,011	4,676,954	55,038,360
1950 .....	665	1,453	1,891,370	521,425	19,329,411	3,725,929	23,576,765
1951 .....	663	1,494	2,132,923	589,816	19,759,811	4,110,636	24,460,263
1952 .....	646	1,503	2,311,169	606,230	20,523,365	3,906,791	25,036,386
1953 .....	643	1,473	2,336,382	572,228	20,156,743	4,622,227	25,351,198
1954 .....	640	1,681	2,747,613	696,595	20,325,779	4,337,564	25,307,120
1955 .....	605	1,538	2,693,525	736,770	19,978,186	5,404,160	26,048,402
1956 .....	577	1,617	3,127,654	818,912	23,287,892	6,364,304	30,401,561
1957 .....	545	1,539	3,231,929	763,827	22,592,273	6,377,286	29,795,069
1958 .....	518	1,492	3,519,155	651,207	25,756,840	6,828,625	33,158,358
1959 .....	517	1,511	3,665,955	685,705	26,591,788	6,900,333	34,220,444

<sup>1</sup> See footnote 1, Table 1 A.<sup>2</sup> See footnote 2, Table 1 A.<sup>3</sup> Not used in computing value added.



**TABLE 1C. Principal Statistics of Firms classified as Manufacturers of Prepared Feeds, 1930-59<sup>1</sup>**  
(Included in Table 1A. Standard Industrial Classification prior to 1960)

	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments <sup>2</sup>
		number			dollars		
1930	18	221	299,935	<sup>3</sup>	1,939,303	1,132,615	3,071,918
1931	38	319	444,693	41,992	1,799,842	1,069,081	2,910,915
1932	37	425	484,937	50,080	1,988,150	1,099,998	3,138,228
1933	44	522	609,520	60,085	2,251,515	1,199,861	3,511,461
1934	46	514	581,514	60,321	3,023,716	1,136,097	4,220,134
1935	99	781	837,545	88,839	4,734,559	1,808,573	6,631,971
1936	94	808	913,480	98,370	7,015,005	2,523,337	9,636,712
1937	96	918	1,071,242	106,743	9,448,963	2,894,129	12,449,835
1938	131	1,185	1,352,881	141,381	8,937,419	2,912,790	11,991,590
1939	121	1,311	1,572,489	180,749	9,102,342	3,382,152	12,665,243
1940	115	1,381	1,663,691	220,700	10,240,597	3,860,050	14,321,347
1941	118	1,532	1,938,439	255,118	15,165,707	4,348,410	19,769,235
1942	127	1,893	2,546,243	315,881	21,235,318	5,200,126	26,751,325
1943	138	2,231	3,334,728	351,434	33,041,989	7,201,280	40,594,703
1944	206	3,239	5,160,729	571,879	55,812,112	11,113,161	67,497,152
1945	222	3,486	5,563,756	632,549	57,914,289	11,703,901	70,250,739
1946	235	3,971	6,408,326	737,013	68,649,226	14,207,938	83,594,177
1947	285	4,436	7,901,202	933,245	100,384,042	19,235,753	120,553,040
1948	318	4,324	8,472,470	1,127,714	110,950,503	18,869,510	130,946,727
1949	485	5,356	10,889,537	1,463,307	125,645,640	24,361,413	151,470,360
1950	568	5,191	10,645,384	1,721,999	128,513,344	24,564,634	154,799,977
1950	568	5,191	10,645,384	1,721,999	128,513,344	25,089,531	155,324,874
1951	648	5,505	12,179,857	1,939,212	144,617,180	27,953,403	174,509,795
1952	671	5,938	13,392,352	2,311,601	148,801,788	29,967,343	181,080,732
1953	654	5,760	13,861,889	2,314,174	137,828,019	30,291,490	170,433,683
1954	678	6,107	15,345,800	2,794,304	152,472,708	35,646,991	190,132,599
1955	769	6,376	16,659,900	2,958,794	147,732,071	38,987,058	189,799,395
1956	814	6,612	17,542,559	3,176,785	171,048,793	47,033,133	220,556,245
1957	855	6,513	18,197,946	3,490,812	167,659,149	47,545,619	219,238,671
1958	891	6,655	20,538,213	3,474,474	193,728,346	55,314,719	251,753,902
1959	870	6,656	21,648,372	3,698,830	197,906,359	59,685,786	260,922,002

<sup>1</sup> See footnote 1, Table 1A.

<sup>2</sup> See footnote 2, Table 1A.

<sup>3</sup> Not used in computing "line items."

**TABLE 2. Principal Statistics classified according to Size of Establishments, 1957 and 1960**

Establishments having factory shipments valued at	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number				dollars	
<b>1957</b>						
Under \$50,000	654	1,157	1,739,466	463,943	8,274,061	11,461,177
\$ 50,000 to \$ 99,999	293	1,175	2,459,343	678,613	15,781,974	20,655,707
100,000 " 199,999	240	1,366	3,321,804	805,818	25,266,688	33,417,735
200,000 " 499,999	133	1,337	3,659,205	1,026,142	30,883,885	39,893,990
500,000 " 999,999	45	861	2,732,280	383,495	24,707,202	31,985,643
1,000,000 " 4,999,999	36	1,543	5,079,344	740,078	55,873,440	72,297,720
5,000,000 and over	5	647	2,542,890	189,164	30,416,975	40,241,455
Head offices	...	18	61,163	...	...	...
<b>Totals</b>	<b>1,406</b>	<b>8,104</b>	<b>21,595,495</b>	<b>4,287,253</b>	<b>191,204,225</b>	<b>249,953,427</b>
<b>1960</b>						
Under \$50,000	619	991	1,906,389	464,827	8,228,295	11,715,466
\$ 50,000 to \$ 99,999	274	937	2,415,761	499,923	14,942,490	19,499,620
100,000 " 199,999	254	1,300	3,722,880	811,213	27,889,473	35,868,953
200,000 " 499,999	164	1,560	4,894,149	1,009,464	37,123,982	48,643,790
500,000 " 999,999	42	780	3,090,951	402,369	23,365,377	31,091,191
1,000,000 " 4,999,999	47	1,919	7,229,958	1,043,636	68,575,036	92,764,066
5,000,000 and over	6	564	2,707,170	241,828	35,875,608	44,991,873
Head offices	...	14	53,366	...	...	...
<b>Totals</b>	<b>1,406</b>	<b>8,065</b>	<b>26,020,624</b>	<b>4,473,260</b>	<b>215,800,261</b>	<b>284,574,959</b>

TABLE 3. Principal Statistics classified by Number of Employees per Establishment, 1957 and 1960

Employment groups	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number		dollars			
1957						
Under 5 .....	932	2,020	3,731,533	1,071,011	28,433,257	37,304,181
5- 14 .....	382	2,708	6,861,257	1,573,910	57,817,463	75,190,508
15- 49 .....	79	2,016	6,125,463	1,252,940	55,714,234	72,814,999
50- 99 .....	7	517	1,770,081	154,587	23,127,267	29,086,628
100-199 .....	6	825	3,045,998	234,605	26,112,004	35,557,111
Head offices.....	...	18	61,163	...	...	...
Totals .....	1,406	8,104	21,595,495	4,287,253	191,204,225	249,953,427
1960						
Under 5 .....	960	2,073	4,849,855	1,068,895	32,554,101	42,748,645
5- 14 .....	350	2,528	7,737,782	1,489,343	63,647,546	82,353,779
15- 49 .....	79	1,913	7,120,275	1,280,343	59,129,741	80,713,551
50- 99 .....	11	733	2,881,373	328,946	32,054,510	41,827,633
100-199 .....	6	806	3,377,973	307,733	28,414,363	36,931,351
Head offices.....	...	14	53,366	...	...	...
Totals .....	1,406	8,065	26,020,624	4,473,260	215,800,261	284,574,959

TABLE 4. Principal Statistics classified according to Type of Ownership, 1957 and 1960

	Estab- lish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
1957	number		dollars			
Individual ownership.....	640	1,644	3,129,628	878,909	23,512,455	30,496,116
Partnership.....	164	702	1,484,781	325,582	11,585,853	14,848,100
Incorporated companies.....	343	3,952	12,582,280	2,203,320	115,724,571	152,920,476
Co-operatives.....	259	1,806	4,398,808	879,442	40,381,346	51,688,735
Totals.....	1,406	8,104	21,595,495	4,287,253	191,204,225	249,953,427
1960						
Individual ownership.....	588	1,372	3,169,744	694,915	22,999,364	29,455,500
Partnership.....	131	425	1,149,431	203,709	7,662,498	9,935,930
Incorporated companies.....	405	4,267	15,811,668	2,570,990	131,829,334	177,490,599
Co-operatives.....	264	2,001	5,889,781	1,003,646	53,309,065	67,692,930
Totals.....	1,406	8,065	26,020,624	4,473,260	215,800,261	284,574,959

TABLE 5. Inventories, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total inventory
dollars				
Opening inventory: <sup>1</sup>				
Newfoundland and Prince Edward Island .....	78,671	1,536	21,319	101,526
Nova Scotia.....	333,626	1,621	30,827	366,074
New Brunswick.....	444,455	3,621	118,000	566,076
Quebec.....	4,478,191	171,661	1,528,401	6,178,253
Ontario.....	7,068,091	329,853	3,261,041	10,678,985
Manitoba.....	558,341	495	239,324	798,160
Saskatchewan.....	322,082	18,980	149,073	488,135
Alberta.....	929,280	3,244	422,657	1,355,161
British Columbia.....	1,564,197	23,579	581,706	2,169,484
Canada.....	15,798,914	552,590	6,352,350	22,701,854
Closing inventory:				
Newfoundland and Prince Edward Island .....	93,182	1,070	28,756	123,008
Nova Scotia.....	378,712	656	22,243	401,611
New Brunswick.....	478,487	4,236	129,073	611,796
Quebec.....	4,536,276	160,285	1,449,647	6,146,188
Ontario.....	6,807,905	303,441	3,114,571	10,225,917
Manitoba.....	540,652	675	195,228	736,555
Saskatchewan.....	281,397	14,375	122,724	418,496
Alberta.....	802,332	1,318	410,151	1,213,801
British Columbia.....	1,525,177	28,432	488,524	2,042,133
Canada.....	15,444,120	514,468	5,960,917	21,918,505

<sup>1</sup> 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 6. Custom Chopping and Grinding in Feed Manufacturers, 1960**  
(Includes Chopping Mills and Prepared Feed Mills)

	Wheat	Oats	Barley	Mixed grains	Other grains	Total	Amount received for custom chopping <sup>1</sup>
1960 <sup>2</sup>	tons						\$
Newfoundland and Prince Edward Island .....	111	3,237	908	12,685	—	16,941	96,081
Nova Scotia .....	56	2,044	126	2,346	—	4,572	15,863
New Brunswick .....	257	3,876	263	8,177	100	12,673	43,078
Quebec .....	9,450	101,622	16,806	148,966	5,108	281,952	1,039,443
Ontario .....	27,841	127,511	45,016	480,464	20,752	701,584	2,235,235
Manitoba .....	18,889	14,429	21,349	227,619	2	282,288	851,348
Saskatchewan .....							
Alberta .....							
British Columbia .....	503	2,141	500	1,818	—	4,982	16,385
Canada .....	57,107	254,860	84,968	882,075	25,962	1,304,972	4,297,233

<sup>1</sup> Included in the selling value of factory shipments.

<sup>2</sup> Additional custom chopped grains — 1959 — Flour Mills — custom grinding receipts, \$162,233.  
1960 — " " — " " " " " " \$ 61,391.

**TABLE 7. Factory Shipments, Feed Manufacturers<sup>1</sup> Only, Canada 1960**

Products	Quantity	Selling value
	tons	\$
<b>Concentrates:</b>		
Calf concentrates .....	4,464	441,286
Dairy and cattle concentrates .....	129,705	10,039,660
Swine concentrates .....	141,928	13,250,284
Poultry concentrates, total .....	184,909	18,455,275
(a) Chick starter concentrates .....	8,661	970,379
(b) Broiler concentrates .....	27,681	3,292,056
(c) Growing, laying and hatching concentrates .....	124,107	11,627,622
(d) Fattening and finishing concentrates .....	693	66,707
(e) Turkey concentrates .....	21,509	2,276,093
(f) Other poultry concentrates .....	2,258	222,416
Concentrates n.e.s. ....	3,344	330,910
<b>Total concentrates .....</b>	<b>464,350</b>	<b>42,517,415</b>
<b>Secondary or complete feeds:</b>		
Calf feeds (including milk replacer) .....	37,807	3,741,074
Dairy and cattle feeds .....	445,939	29,217,396
Swine feeds .....	620,046	42,574,357
Poultry feeds, total .....	1,137,247	92,128,351
(a) Chick starter feeds .....	..	..
(b) Broiler feeds .....	..	..
(c) Growing, laying and hatching feeds .....	582,241	44,622,258
(d) Fattening and finishing feeds .....	..	..
(e) Turkey feeds .....	17,011	1,497,874
(f) Other poultry feeds .....	..	..
Complete feeds (short forms) .....	185,354	14,365,719
Horse feeds .....	2,486	170,092
<b>Total complete feeds .....</b>	<b>2,428,879</b>	<b>182,196,989</b>
<b>Other feeds:</b>		
Mineral mixtures .....	14,605	1,545,608
Dog and cat foods:		
(a) Canned .....	62,709	11,902,921
(b) Biscuits .....	4,738	1,245,736
(c) Other (meals, etc.) .....	13,779	2,792,957
Fox biscuits .....	441	45,356
Other fox feeds .....	..	..
Mink feeds .....	..	..
Rabbit feeds .....	5,122	407,440
Goat feeds .....	63	5,142
All other animal feeds .....	3,910	1,166,021
Scratch feed .....	51,062	3,322,092
Hominy feed .....	..	..
Chopped, ground or crushed grain feed, total .....	531,615	25,350,234
(a) Oats .....	121,439	6,733,303
(b) Barley .....	118,620	6,302,692
(c) Other .....	291,556	12,314,239
<b>Other products:</b>		
Stock and poultry tonics .....	..	..
Veterinary medicines .....	..	..
Legume and grass meal, dehydrated, all kinds .....	48,722	2,856,460
Legume and grass meal, sundried, all kinds .....	9,436	327,918
Cereal products for human consumption .....	3,035	306,593
All other products .....	20,213	1,928,902
<b>Grand total, excluding custom work .....</b>	<b>3,678,108</b>	<b>280,277,726</b>
Amount received for custom work, (chopping, pelleting, seed cleaning, etc.) .....	...	4,297,233
<b>Totals .....</b>	<b>...</b>	<b>284,574,959</b>

<sup>1</sup> For total commodities (all industries) See Table 8.

TABLE 8. Factory Shipments of Feeds, All Industries, Canada, 1960

Products	Made in feeds industry	Made in other industries	Total shipments	
	Quantity	Quantity	Quantity	Selling value at plant
		tons		\$
<b>Concentrates:</b>				
Calf concentrates .....	4,464	—	4,464	441,286
Dairy and cattle concentrates .....	129,705	—	129,705	10,039,660
Swine concentrates .....	141,928	—	141,928	13,250,284
Poultry concentrates, total .....	184,909	—	184,909	18,455,275
(a) Chick starter concentrates .....	8,661	—	8,661	970,379
(b) Broiler concentrates .....	27,681	—	27,681	3,292,058
(c) Growing, laying and hatching concentrates .....	124,107	—	124,107	11,627,622
(d) Fattening and finishing concentrates .....	693	—	693	66,707
(e) Turkey concentrates .....	21,509	—	21,509	2,278,093
(f) Other poultry concentrates .....	2,258	—	2,258	222,416
Concentrates, n.e.s. ....	3,344	4,281	7,625	715,898
<b>Total concentrates .....</b>	<b>464,350</b>	<b>4,281</b>	<b>468,631</b>	<b>42,902,403</b>
<b>Secondary or complete feeds:</b>				
Calf feeds (including milk replacer) .....	37,807	677	38,484	3,815,417
Dairy and cattle feeds .....	445,939	8,648	454,587	29,781,190
Swine feeds .....	620,046	5,260	625,306	42,925,749
Poultry feeds, total .....	1,137,247	12,754	1,150,001	93,140,997
(a) Chick starter feeds .....	..	..	62,915	7,109,298
(b) Broiler feeds .....	..	..	294,215	25,460,331
(c) Growing, laying and hatching feeds .....	582,241	5,018	587,259	44,980,186
(d) Fattening and finishing feeds .....	..	..	19,225	1,521,456
(e) Turkey feeds .....	..	..	147,330	12,392,012
(f) Other poultry feeds .....	17,011	2,046	19,057	1,677,714
Complete feeds (short forms) .....	185,354	—	185,354	14,365,719
Horse feeds .....	2,486	—	2,486	170,092
<b>Total complete feeds .....</b>	<b>2,428,879</b>	<b>27,339</b>	<b>2,456,218</b>	<b>184,199,164</b>
<b>Other feeds:</b>				
Mineral mixtures .....	14,605	96	14,701	1,553,288
Dog and cat foods:				
(a) Canned .....	62,709	10,005	72,714	14,037,531
(b) Biscuits .....	4,738	—	4,738	1,245,736
(c) Other (meals, etc.) .....	13,779	683	14,462	2,927,950
Fox biscuits .....	441	—	441	45,356
Other fox feeds .....	..	..	2,064	276,763
Mink feeds .....	..	..	19,608	2,176,532
Rabbit feeds .....	5,122	—	5,122	407,440
Goat feeds .....	63	—	63	5,142
All other animal feeds .....	3,910	9,320	13,230	1,892,758
Scratch feeds .....	51,062	316	51,378	3,342,202
Hominy feed .....	—	..	..	..
Chopped, ground or crushed grain feed, total .....	531,615	15,113	546,728	26,106,496
(a) Oats .....	121,439	2,000	123,439	6,843,303
(b) Barley .....	118,820	965	119,585	6,351,907
(c) Other .....	291,556	12,148	303,704	12,911,286
<b>Other products:</b>				
Stock and poultry tonics .....	..	—	..	..
Veterinary medicines .....	..	—	..	..
Legume and grass meal, dehydrated, all kinds .....	48,722	—	48,722	2,856,460
Legume and grass meal, sundried, all kinds .....	9,436	—	9,436	327,918
Cereal products for human consumption .....	3,035	—	3,035	306,593
All other products .....	20,213	—	20,213	1,928,902
<b>Grand total excluding custom work .....</b>	<b>3,678,108</b>	<b>84,186</b>	<b>3,762,404</b>	<b>287,794,286</b>



TABLE 9. Factory Shipments of Feeds, All Industries, Canada, 1959

Products	Total shipments	
	Quantity	Selling value at plant
	tons	\$
<b>Concentrates:</b>		
Calf concentrates .....	3,708	466,114
Dairy and cattle concentrates .....	118,432	9,393,149
Swine concentrates .....	169,125	18,822,348
Poultry concentrates; total .....	..	..
(a) Chick starter concentrates .....	9,731	1,070,332
(b) Broiler concentrates .....	26,817	3,418,261
(c) Growing, laying and hatching concentrates .....	136,321	13,681,296
(d) Fattening and finishing concentrates .....	..	..
(e) Turkey concentrates .....	27,133	2,886,077
(f) Other poultry concentrates .....	..	..
Concentrates, n.e.s. ....	..	..
<b>Total concentrates</b> .....	<b>499,312</b>	<b>50,546,069</b>
<b>Secondary or complete feeds:</b>		
Calf feeds (including milk replacer) .....	33,679	3,405,472
Dairy and cattle feeds .....	414,555	26,750,916
Swine feeds .....	692,819	47,258,397
Poultry feeds; total .....	1,183,435	96,627,228
(a) Chick starter feeds .....	91,993	7,899,467
(b) Broiler feeds .....	280,921	24,277,622
(c) Growing, laying and hatching feeds .....	597,967	46,520,407
(d) Fattening and finishing feeds .....	21,111	1,663,040
(e) Turkey feeds .....	164,873	13,907,359
(f) Other poultry feeds .....	26,570	2,359,333
Complete feeds (short forms) .....	167,200	13,184,512
Horse feeds .....	4,760	314,340
<b>Total complete feeds</b> .....	<b>2,496,448</b>	<b>187,540,865</b>
<b>Other feeds:</b>		
Mineral mixtures .....	13,551	1,416,172
Dog and cat foods:		
(a) Canned .....	70,754	13,248,988
(b) Biscuits .....	4,513	1,214,643
(c) Other (meals, etc.) .....	16,794	3,552,921
Fox biscuits .....	2,596	317,953
Other fox feeds .....		
Mink feeds .....	13,728	1,757,281
Rabbit feeds .....	4,613	374,185
Goat feeds .....	71	5,947
All other animal feeds .....	12,621	1,347,146
Scratch feeds .....	59,064	3,674,100
Hominy feed .....	-	-
Chopped, ground or crushed grain feed; total .....	550,323	28,304,837
(a) Oats .....	144,807	8,005,103
(b) Barley .....	135,660	7,106,240
(c) Other .....	269,856	13,193,494
<b>Other products:</b>		
Stock and poultry tonics .....	...	..
Veterinary medicines .....	...	..
Legume and grass meal, dehydrated, all kinds .....	48,473	2,927,416
Legume and grass meal, sundried, all kinds .....	7,743	262,192
Cereal products for human consumption .....	..	..
All other products .....	14,903	1,752,025
<b>Grand total excluding custom work</b> .....	<b>3,818,333</b>	<b>299,396,190</b>

TABLE 10. Materials Used by Feed Manufacturers, 1960<sup>1</sup>

Principal materials <sup>2</sup>	Quantity	Cost at plant
	tons	\$
Wheat.....	486,952	25,162,836
Oats.....	406,179	19,652,411
Corn.....	261,608	13,137,108
Barley.....	553,774	24,917,611
Buckwheat.....	695	34,237
Mixed grains.....	28,545	1,332,717
Other grains, all kinds.....	11,432	507,156
Screenings.....	183,374	4,549,666
Wheat flour (feed etc.).....	10,678	720,570
Bran, shorts, and middlings.....	308,763	13,874,992
Oatmeal, oat middlings, oat groats.....	11,032	757,734
Wheat germ.....	1,869	125,840
Corn (grits, meal, cracked and germ).....	4,008	235,580
Hominy feed.....	2,888	142,374
Gluten feed and meal.....	16,764	956,015
Cereal feed.....	3,383	252,680
Cottonseed oil cake and meal.....	396	30,269
Cocoonut or copra oil cake and meal.....	74	5,728
Linseed oil cake and meal.....	15,589	1,205,116
Soybean oil cake and meal.....	342,611	23,479,947
Oil cake meals, not specified.....	4,956	279,458
Legumes and grasses (for dehydrated meal).....	46,481	1,048,693
Legumes and grasses (for sundried meal).....	7,176	128,051
Legume and grass meal, dehydrated.....	45,237	2,971,474
Legume and grass meal, sundried.....	12,523	470,991
Fish meal.....	27,926	3,242,348
Cod liver meal.....	72	20,524
Fish oils, all kinds.....	1,623	402,965
Blood meal.....	4,823	383,050
Bone meal.....	3,959	327,077
Fish, offal, frozen, etc.....	8,146	553,437
Bone char.....	301	21,621
Lung and liver meal.....	297	32,543
Meat meal.....	77,658	5,804,663
Raw meat (horse, etc.).....	10,889	1,119,201
Tankage.....	31,893	2,009,162
Milk, buttermilk, whey, etc., powdered.....	11,902	1,736,915
Molasses.....	54,167	1,720,379
Beet pulp.....	6,774	384,319
Oyster and clam shell.....	2,888	74,377
Limestone (calcium carbonate).....	46,715	472,589
Grit and gravel.....	2,639	54,419
Salt.....	27,259	662,693
Antibiotics.....	1,196	2,567,914
Coccidiostats (etc.).....	669	1,432,197
Mixed concentrates and supplements:		
(a) Calf.....	2,654	278,482
(b) Dairy and cattle.....	29,568	2,497,030
(c) Swine.....	59,400	5,789,152
(d) Poultry.....	63,047	6,674,774
(e) Other.....	—	—
Mineral mixtures.....	2,946	463,385
Rock phosphate and other phosphates.....	29,649	2,458,432
Vitamins and vitamin compounds.....	3,733	2,530,883
Urea.....	5,406	571,072
Brewers' and distillers' grains.....	28,100	1,517,764
Malt sprouts.....	7,632	329,483
Rice meal and rice feed.....	2,049	77,913
Oils, vegetable and animal (including tallow).....	10,697	1,386,538
Yeast.....	780	189,144
Seeds (clover, sunflower, millet, etc.).....	1,580	332,067
Containers and packaging material.....	...	10,909,406
All other materials.....	67,028	18,809,038
Operating maintenance and repair supplies.....	...	1,809,292
Amount paid out to others for work done on materials owned by this plant.....	...	174,780
<b>Totals<sup>3</sup></b> .....	<b>3,403,052</b>	<b>215,800,261</b>

<sup>1</sup> No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$500,000. The total estimated value of materials used by these firms, in 1960 was \$15,355,787 and this amount is included in "All other materials".

<sup>2</sup> Does not include grains for custom chopping.

<sup>3</sup> Does not include office supplies used which amounted to \$413,303 in 1959 and \$748,958 in 1960.



TABLE 11. Employees, Salaries and Wages, by Provinces, 1959 and 1960

	Average					Salaries and wages		
	Supervisory and office employees		Production workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
Newfoundland and Prince Edward Island .....	21	3	42	1	67	53,098	82,774	135,872
Nova Scotia .....	20	10	87	—	117	91,921	204,858	296,779
New Brunswick .....	35	14	139	—	188	137,153	360,706	497,859
Quebec .....	633	182	1,802	10	2,627	2,601,841	5,164,716	7,766,557
Ontario .....	994	270	2,526	59	3,849	4,227,261	7,617,678	11,844,939
Manitoba .....	73	6	184	1	264	283,911	566,155	850,066
Saskatchewan .....	23	7	58	2	90	94,326	188,325	282,651
Alberta .....	100	15	245	5	365	486,309	828,226	1,314,535
British Columbia .....	95	69	462	24	650	818,094	1,714,789	2,532,883
Canada .....	1,994	576	5,545	102	8,217	8,793,914	16,728,227	25,522,141
1960								
Newfoundland and Prince Edward Island .....	27	2	38	—	67	69,844	82,717	152,561
Nova Scotia .....	33	8	78	—	119	117,866	187,526	305,392
New Brunswick .....	49	13	143	—	205	181,251	393,101	574,352
Quebec .....	627	187	1,737	6	2,557	2,718,872	5,197,957	7,916,829
Ontario .....	977	250	2,450	79	3,756	4,204,204	7,818,865	12,023,069
Manitoba .....	76	7	175	—	258	330,618	576,490	907,108
Saskatchewan .....	25	11	67	8	111	122,700	246,083	368,783
Alberta .....	101	11	235	4	351	452,420	777,093	1,229,513
British Columbia .....	104	64	445	28	641	839,217	1,703,800	2,543,017
Canada .....	2,019	553	5,368	125	8,065	9,036,992	16,983,632	26,020,624

TABLE 12. Production Workers, by Months, 1960

	Establishments reporting monthly detail <sup>1</sup>		Establishments reporting quarterly detail <sup>2</sup>	
	Male	Female	Male	Female
January .....	3,794	131		
February .....	3,733	125		
March .....	3,764	118	811	2
April .....	3,848	108		
May .....	3,969	117		
June .....	3,999	112	846	2
July .....	3,958	113		
August .....	3,953	108		
September .....	3,966	125	830	2
October .....	3,912	140		
November .....	3,866	116		
December .....	3,773	104	804	2
Average for establishments reporting monthly detail .....			3,879	120
Average for establishments reporting quarterly detail .....			819	2
Average estimated for small establishments <sup>3</sup> .....			670	3
Average for all establishments .....			5,368	125

<sup>1</sup> The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$100,000 and over.

<sup>2</sup> The number of production workers, by quarters, was collected only for establishments generally reporting value of shipments between \$50,000 and \$100,000.

<sup>3</sup> For establishments generally reporting value of shipments of less than \$50,000, 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.



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## FOODS AND BEVERAGES

TABLE 13. Exports of Feeds, 1959 and 1960

Articles exported	1959		1960	
	Quantity	Value	Quantity	Value
	tons	\$	tons	\$
Mixed feeds .....	9,554	733,529	8,928	668,898
Oat feed, ground .....	19,342	534,940	18,019	507,386
Fodders, n.o.p. ....	61,727	2,839,777	60,650	2,859,080

TABLE 14. Fuel Consumption, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: <sup>1</sup>		
Bituminous coal:		
(a) From Canadian mines..... ton	298	3,307
(b) Imported .....	5,025	58,856
Sub-bituminous coal (from Alberta mines only) .....	557	6,635
Anthracite coal .....	344	6,611
Lignite coal.....	2,462	13,090
Coke .....	—	—
Gasoline (including gasoline used in cars and trucks)..... Imp. gal.	2,442,223	891,930
Fuel oil including kerosene or coal oil.....	3,137,483	414,258
Wood .....	cord	2,676
Gas:		
(a) Liquefied petroleum gases .....	Imp. gal.	13,616
(b) Other manufactured gas .....	—	—
(c) Natural gas .....	Mcf.	189,443
Other fuel.....	...	349
Electricity purchased.....	kwh.	1,523,601
Steam purchased .....	pound	93,059
2. Establishments reporting group detail: <sup>2</sup>		
Cost of fuel .....	...	250,888
Cost of electricity .....	...	389,976
3. Estimate for establishments for which no data were collected: <sup>3</sup>		
Cost of fuel and electricity.....	...	614,965
4. All establishments:		
Total cost of fuel and electricity.....	...	4,473,260

<sup>1</sup> Establishments generally reporting value of shipments of \$100,000 and over.<sup>2</sup> Establishments generally reporting value of shipments between \$50,000 and \$100,000.<sup>3</sup> Establishments generally reporting value of shipments of less than \$50,000.